

# 2007 2008

**Hallex**



## European Aftermarket Catalogue



## Introduction to the Haldex European Aftermarket Catalogue 2007/2008

This catalogue covers the Haldex product range available to the European aftermarket. We include detailed information on every range of product, making identification of the required item the most straightforward to date. Find enclosed a detailed search by product description; a search by part number; the main section includes product pictures, detailed product data, and an explanation of what the product is used for. At the back of the catalogue you will find a comprehensive, single cross-reference list.

If you have internet access, we suggest you refer to the Findex section of our website, on [www.brake-eu.haldex.com](http://www.brake-eu.haldex.com). Here you will find the most up to date information, additional items, product data that could not fit on the printed page, additional product photographs with the possibility of full format download, detailed application data (search by application), and an available documentation listing. A Findex CD is also available from your local Haldex representative.

For the complete list of prices, please refer to the Haldex European Price List, or the website mentioned above.

Haldex hopes this catalogue proves of great use, and we remain open to suggestion.

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950 872 970	<b>135</b>	MA15777	<b>186</b>	RN60A	<b>135</b>	VE21AH-160	<b>210</b>
950 873 370	<b>135</b>	MC6S8X90	<b>212</b>	RN60E	<b>135</b>	VE21AH-165	<b>210</b>
950 902 680	<b>135</b>	MR3033	<b>178</b>	RN60F	<b>135</b>	VE21AH-170	<b>210</b>
960 151 005	<b>101</b>	MR3034	<b>178</b>	RN60K	<b>135</b>	VE21AH-175	<b>210</b>
960 338 021	<b>114</b>	N10380B	<b>178</b>	RN969	<b>135</b>	VE21AH-180	<b>210</b>
964 009 001	<b>95</b>	N1178BB	<b>140</b>	RN970	<b>135</b>	VE21AH-185	<b>210</b>
AWAB11-17	<b>212</b>	N13440DN	<b>153</b>	RN973	<b>135</b>	VE21AH-190	<b>210</b>
AWAB19-28	<b>212</b>	N20415NB	<b>150</b>	RNT26	<b>179</b>	VE21AH-195	<b>210</b>
BK10450-2	<b>212</b>	N20415PB	<b>150</b>	RNT26A	<b>179</b>	VE21AH-200	<b>210</b>
C14253AN	<b>198</b>	N20966G	<b>158</b>	RW1162X	<b>218</b>	VE36AH	<b>211</b>
DA33120	<b>135</b>	N295NB	<b>178</b>	RW1194	<b>218</b>	VE50H	<b>211</b>
DIN934UNF5/8	<b>198</b>	N295SW	<b>179</b>	RW4009X	<b>218</b>	VE78AH-***	<b>211</b>
DQ6026	<b>135</b>	N30099LA	<b>144</b>	SN144AY	<b>179</b>	VE80H-***	<b>211</b>
EL16060	<b>137</b>	N30190Y	<b>139</b>				
EQ2604	<b>178</b>	N30200AE	<b>166</b>				
EQ2606	<b>178</b>	N30200AG	<b>167</b>				
EQ2614	<b>178</b>	N4170AB	<b>193</b>				
EQ2616	<b>178</b>	N4170F	<b>193</b>				
EQ2620	<b>178</b>	N4170X	<b>193</b>				
EQ2630	<b>178</b>	N4185C	<b>193</b>				
EQ2631	<b>178</b>	N4185E	<b>193</b>				
EQ2632	<b>178</b>	N4190C	<b>193</b>				
FLEX6X12MMTR	<b>218</b>	N4194	<b>193</b>				
KN17091X	<b>178</b>	N4194B	<b>193</b>				
KN17092X	<b>178</b>	N4194E	<b>193</b>				
KN17501	<b>178</b>	N4274J	<b>193</b>				
KN20001	<b>153</b>	N4287	<b>193</b>				
KN22100	<b>144</b>	N4295B	<b>193</b>				
KN22150	<b>144</b>	N4295E	<b>193</b>				

SEARCH BY PART NUMBER

### Can't find the item?

- 1) Try the cross-reference section at the back of this catalogue.
- 2) Some 9 digit Haldex remanufactured items have 5 added to the last but third digit, e.g. 343026601 is the remanufactured version of 343026101. Try subtracting 5 from the third but last digit, and try your search again.
- 3) Refer to the Findex section of the Haldex website, on [www.brake-eu.haldex.com](http://www.brake-eu.haldex.com).
- 4) Call your local Haldex technical department.

### FOUNDATION BRAKE

AA1 – the original Haldex Automatic Brake Adjuster.

S-ABA – the new Self-setting Automatic Brake Adjuster from Haldex (detail found at the end of this section).

An Automatic Brake Adjuster (ABA) is installed as the lever linking the brake actuator to the camshaft, in a drum brake system. It helps automatically maintain a constant clearance between the brake linings and the drum, leading to reduced service demand, downtime and air consumption. The mechanism is well protected against moisture, dirt, impact etc. All Haldex ABA operate according to the Clearance Sensing Principle, which was developed and patented by Haldex, and are available in thousands of different models for virtually all types of heavy commercial vehicle. The new S-ABA is far easier to install thanks, in part, to a control arm that can be installed in almost any angular position. This allows some rationalisation of part numbers. It is also designed to integrate with the Haldex Electronic Lining Wear Sensor.

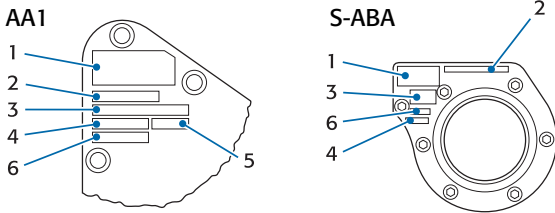
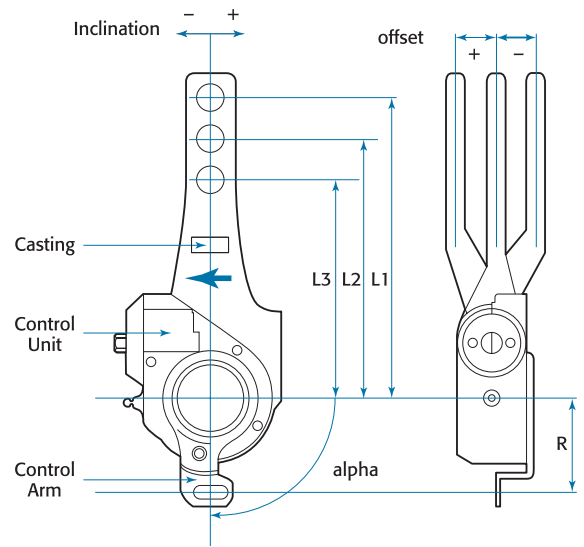
Operating temperature range: -40°C +80°C (Peak +180°C).



AA1 C-kit

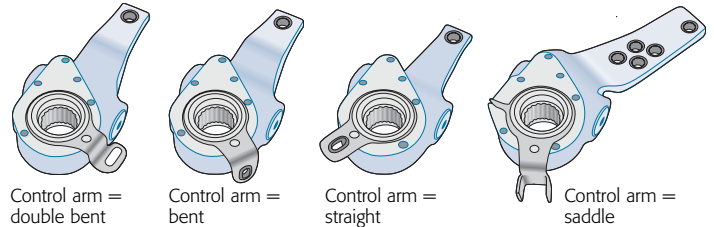
AA1 S-kit

S-ABA D-kit



- 1 Logo
- 2 [Spare]
- 3 Assembly location
- 4 **ABA part number**
- 5 Control Unit part number
- 6 Serial No. e.g. S/N 815023

Last digit in year of manufacture (199**8**)      Week of manufacture      Batch number



Control arm = double bent

Control arm = bent

Control arm = straight

Control arm = saddle

part number	casting	control unit	application	no. of spline teeth							bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)		control arm	other side	information
				L1	L2	L3	L4	L5	L6	L7									
10283C	2901	74164		19	150						12.7	+60.3	+22.5	A38x34 DIN 5482	135	bent		10284C	
10284C	2902	74164		19	150						12.7	-60.3	+22.5	A38x34 DIN 5482	135	bent		10283C	
10519C	4085	74909	Van Hool	27	152						14	0	0	BNA 227	30	bent			
10714C	2760	74571	Britsab	10	168						12.7	-38	0	SAE 1 1/2" 10 C	0	double bent (medium; R=78 mm)		10715C	
10715C	2761	74571	Britsab	10	168						12.7	+38	0	SAE 1 1/2" 10 C	0	double bent (medium; R=78 mm)		10714C	
10868C	2760	74983	DAF	10	140						14	-38	0	SAE 1 1/2" 10 C	150	bent		10869C	
10869C	2761	74983	DAF	10	140						14	+38	0	SAE 1 1/2" 10 C	150	bent		10868C	
10911C	4104	74754		10	127						12.7	0	0	SAE 1 1/2" 10 C	76	double bent (short; R=65 mm)			
10912C	4085	74523		10	152						16	0	0	SAE 1 1/2" 10 C	295	double bent (long; R=100 mm)			
10937C	2760	74257	Dennis	10	140						12.7	-38	0	SAE 1 1/2" 10 C	0	double bent (medium; R=78 mm)		10938C	
10938C	2761	74257	Dennis	10	140						12.7	+38	0	SAE 1 1/2" 10 C	0	double bent (medium; R=78 mm)		10937C	
10939C	4104	74902	Dennis	10	115						12.7	0	0	SAE 1 1/2"	15	bent			



10284C

10519C

10868C

10869

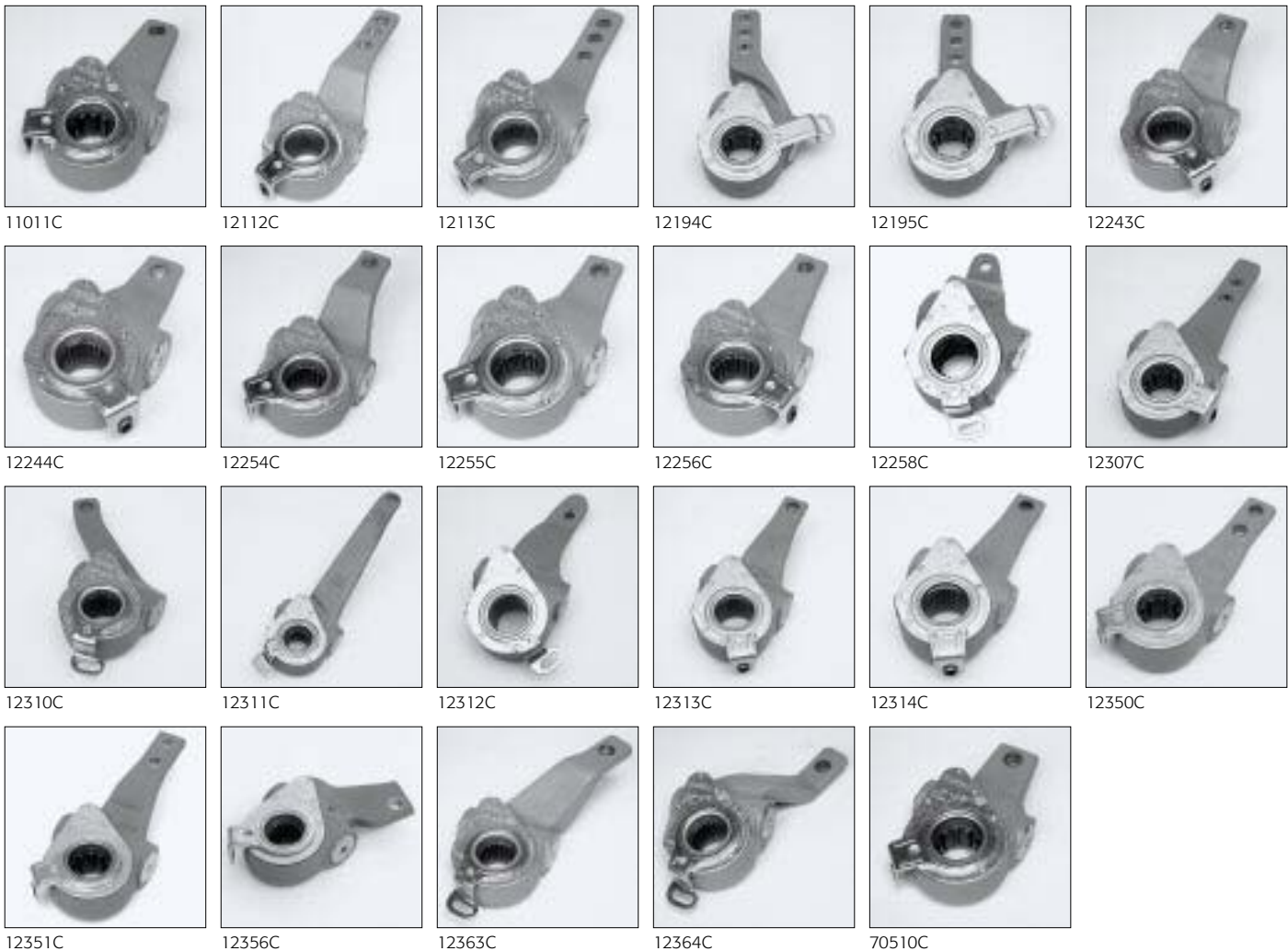
10911C

10912C



## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
					L1	L2	L3	L4	L5	L6	L7							
11011C	4104	74983	Bova	10	140							14	0	0	SAE 1 1/2" 10 C	150	bent	
12112C	2760	74422	Steer axle	37	203	179	151					14	-38	0	SAE J 498	110	bent	12113C
12113C	2761	74422	Steer axle	37	203	179	151					14	+38	0	SAE J 498	110	bent	12112C
12132C	3226	74731	Foden	28	127							12.7	0	-38	SAE 1 1/2" 28 C	340	double bent (long; R=100 mm)	
12141C	2760	74426	Fruehauf	10	140							14	-38	0	SAE 1 1/2" 10 C	130	bent	12142C
12142C	2761	74426	Fruehauf	10	140							14	+38	0	SAE 1 1/2" 10 C	130	bent	12141C
12194C	3863	74711		10	178	152	127					14	-25	-30	SAE 1 1/2" 10 C	310	double bent (long; R=100 mm)	12195C
12195C	3864	74711		10	178	152	127					14	+25	-30	SAE 1 1/2" 10 C	310	double bent (long; R=100 mm)	12194C
12206C	4079	74574	Liaz	26	200							14	-73	0	40x1.5 CSN 014950.1	90	double bent (short; R=65 mm)	12207C
12207C	4080	74574	Liaz	26	200							14	+73	0	40x1.5 CSN 014950.1	90	double bent (short; R=65 mm)	12206C
12243C	3068	74908		26	140							14	-28.5	0	40x1.5 CSN 014950.1	30	bent	12244C
12244C	3069	74908		26	140							14	+28.5	0	40x1.5 CSN 014950.1	30	bent	12243C
12254C	2760	74164	Hino	19	150							12.7	-38	0	A38x34 DIN 5482	135	bent	12255C
12255C	2761	74164	Hino	19	150							12.7	+38	0	A38x34 DIN 5482	135	bent	12254C
12256C	2752	74424	Hino	19	150							12.7	0	0	A38x34 DIN 5482	0	bent	
12258C	4017	74778		19	145							14	+63	-20	A38x34 DIN 5482	50	double bent (short; R=65 mm)	12257C
12307C	2752	74424	TMM	10	180	150						14	0	0	SAE 1 1/2" 10 C	0	bent	
12310C	3226	74748	Jeltz	27	180							14	0	-38	BNA 227	70	double bent (short; R=65 mm)	
12311C	4079	74777	Jeltz	27	180							14	-73	0	BNA 227 D3.5	27	double bent (short; R=65 mm)	12312C
12312C	4080	74777	Jeltz	27	180							14	+73	0	BNA 227 D3.5	27	double bent (short; R=65 mm)	12311C
12313C	2755	74636	Jeltz	27	180							14	-16	0	BNA 227 D3.5	55	bent	12314C
12314C	2756	74636	Jeltz	27	180							14	+16	0	BNA 227 D3.5	55	bent	12313C
12350C	2754	74426	Frenelsa	10	190	155						14	+22	0	SAE 1 1/2" 10 C	130	bent	12351C
12351C	2753	74426	Frenelsa	10	190	155						14	-22	0	SAE 1 1/2" 10 C	130	bent	12350C
12356C	4032	74515	Jeltz	19	130							14	0	+20	A38x34 DIN 5482	128	bent	
12363C	3717	74771	Liaz/karus	19	165							14	-56.2	+25	A38x34 DIN 5482	98	double bent (short; R=65 mm)	12364C
12364C	3718	74771	Liaz/karus	19	165							14	+56.2	+25	A38x34 DIN 5482	98	double bent (short; R=65 mm)	12363C
70510C	4104	74405	Leyland	10	114							12.7	0	0	SAE 1 1/2" 10 C	135	bent	

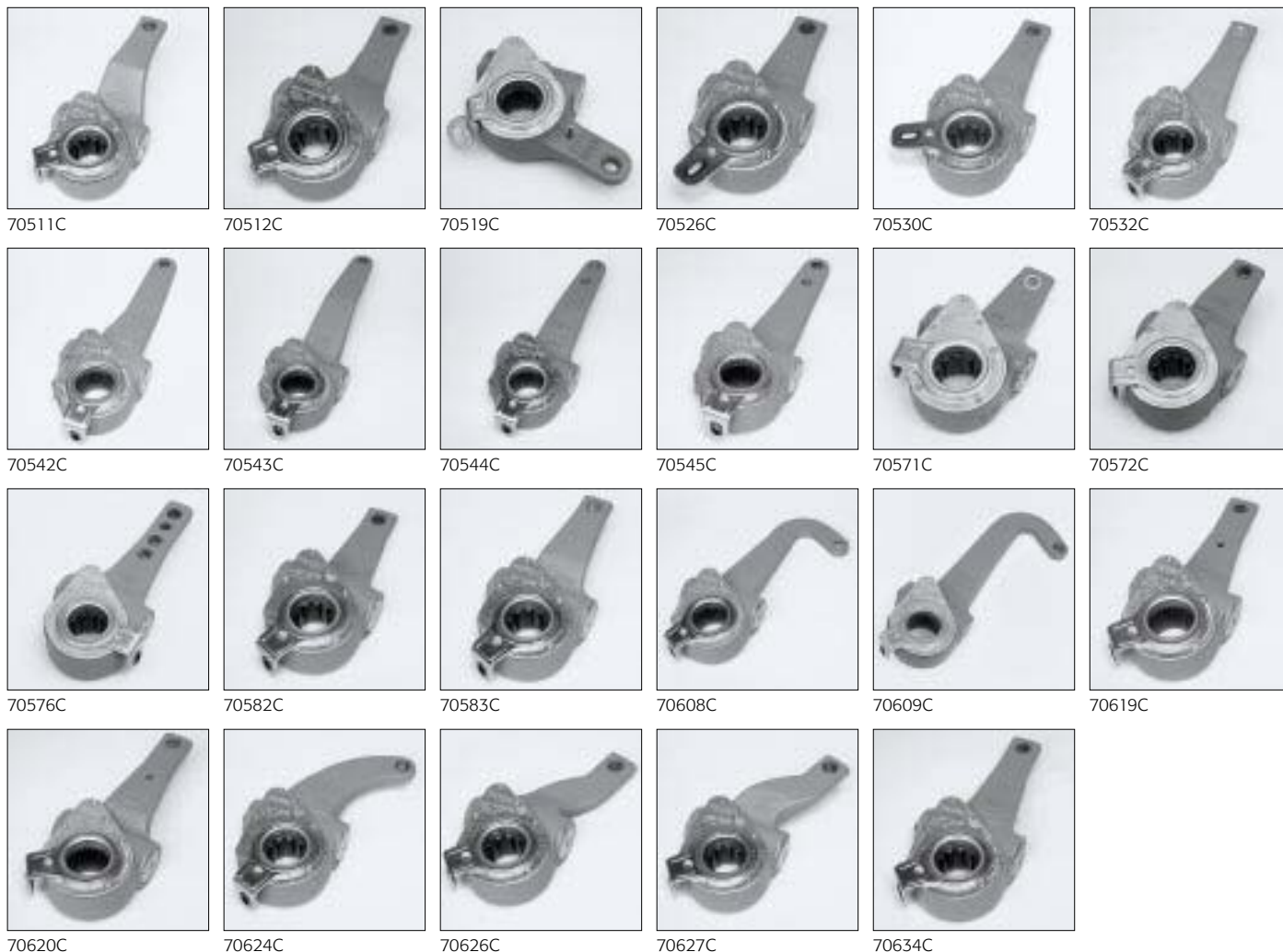


FOUNDATION BRAKE

### FOUNDATION BRAKE

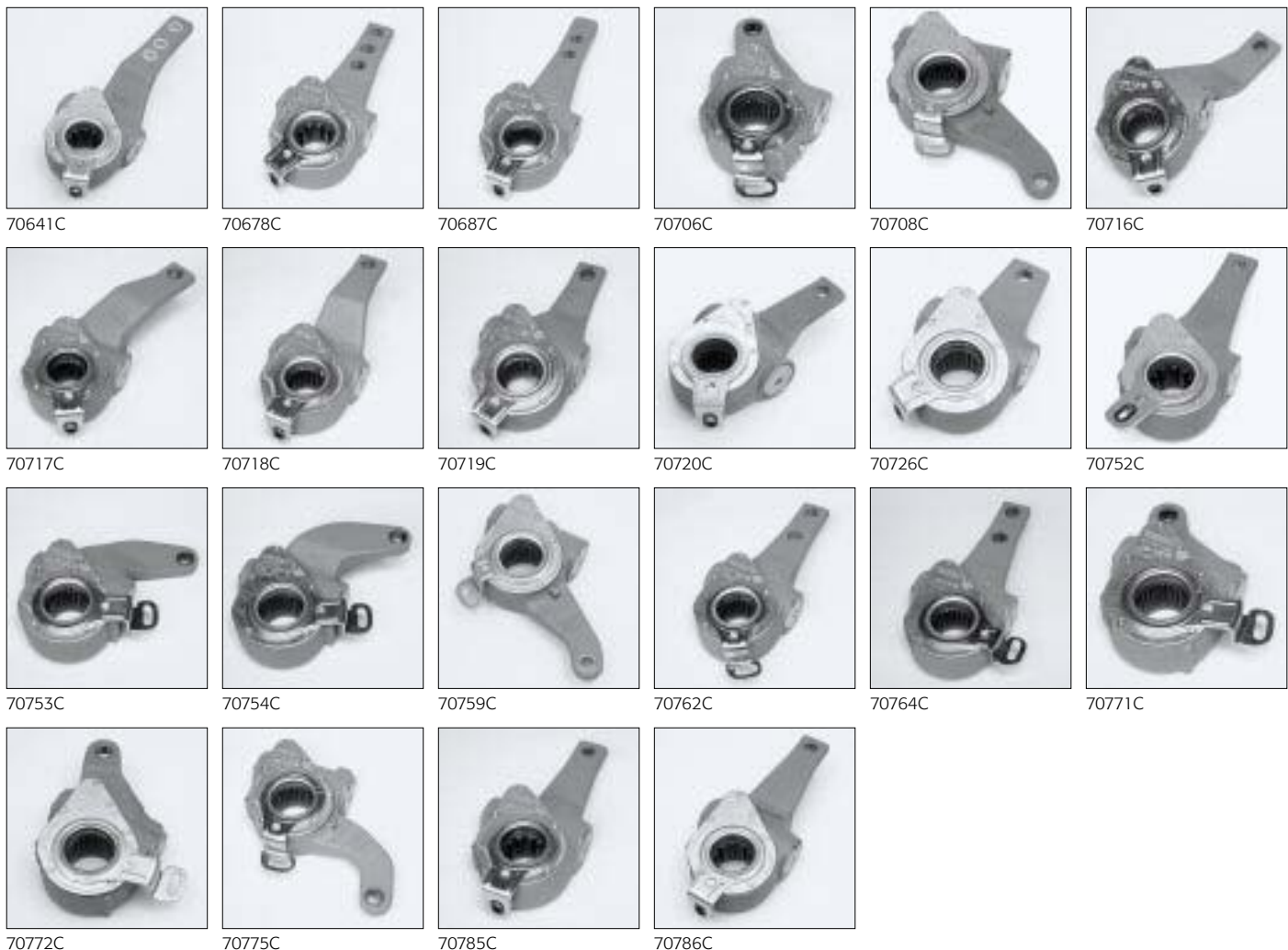
FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7								
70511C	2760	74405	Leyland	10	178							12.7	-38	0	SAE 1 1/2" 10 C	135	bent	70512C	
70512C	2761	74405	Leyland	10	178							12.7	+38	0	SAE 1 1/2" 10 C	135	bent	70511C	
70518C	2882	74884	D-C	19	110							14	0	+27	A38x34 DIN 5482	35	double bent (short; R=65 mm)		
70519C	2866	74883	D-C	19	105							14	0	+105	A38x34 DIN 5482	135	double bent (short; R=65 mm)		
70526C	2756	74151	Leyland	10	165							12.7	+16	0	SAE 1 1/2" 10 C	110	double bent (short; R=65 mm)	70527C	
70530C	2752	74161	Leyland	10	178							12.7	0	0	SAE 1 1/2" 10 C	155	double bent (short; R=65 mm)		
70532C	2752	74425	Leyland	10	203							12.7	0	0	SAE 1 1/2" 10 C	110	bent		
70542C	2853	74402	Renault	27	258							14	+33.1	0	BNA 227	90	bent	70543C	
70543C	2854	74402	Renault	27	258							14	-33.1	0	BNA 227	90	bent	70542C	
70544C	2851	74402	Renault	27	238							14	-12.4	0	BNA 227	90	bent	70545C	
70545C	2852	74402	Renault	27	238							14	+12.4	0	BNA 227	90	bent	70544C	
70571C	2756	74953	Volvo/Ailsa	10	140							12.7	+16	0	SAE 1 1/2" 10 C	140	bent	70572C	
70572C	2755	74953	Volvo/Ailsa	10	140							12.7	-16	0	SAE 1 1/2" 10 C	140	bent	70571C	
70573C	2752	74927	Scammell	10	140							12.7	0	0	SAE 1 1/2" 10 C	75	bent		
70576C	2752	74424	ROR	10	203	178	152	127				12.7	0	0	SAE 1 1/2" 10 C	0	bent		
70582C	2756	74425	Leyland	10	165							12.7	+16	0	SAE 1 1/2" 10 C	110	bent	70583C	
70583C	2755	74425	Leyland	10	165							12.7	-16	0	SAE 1 1/2" 10 C	110	bent	70582C	
70608C	2933	74403	Renault	27	238							14	+35.6	+24.8	BNA 227	120	bent	70609C	
70609C	2934	74403	Renault	27	238							14	-35.6	+24.8	BNA 227	120	bent	70608C	
70615C	2897	74598	MAN	20	215							14	0	0	A40x36 DIN 5482	75	bent		
70619C	2766	74406	Renault	27	190							14	+12.7	0	BNA 227	135	bent	70620C	
70620C	2765	74406	Renault	27	190							14	-12.7	0	BNA 227	135	bent	70619C	
70621C	3068	74416	Renault	27	190							14	-28.5	0	BNA 227	145	bent	70622C	
70622C	3069	74416	Renault	27	190							14	+28.5	0	BNA 227	145	bent	70621C	
70624C	2922	74433	Leyland	10	178							12.7	0	+26	SAE 1 1/2" 10 C	110	bent		
70626C	2771	74434	Leyland	10	165							12.7	+16	+22.5	SAE 1 1/2" 10 C	140	bent	70627C	
70627C	2772	74434	Leyland	10	165							12.7	-16	+22.5	SAE 1 1/2" 10 C	140	bent	70626C	
70634C	2752	74435	Leyland	10	179							12.7	0	0	SAE 1 1/2" 10 C	135	bent		



## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
					L1	L2	L3	L4	L5	L6	L7							
70641C	2760	74907	Volvo	10	205	165	140					12.7	-38	0	SAE 1 1/2" 10 C	30	bent	70642C
70642C	2761	74907	Volvo	10	205	165	140					12.7	+38	0	SAE 1 1/2" 10 C	30	bent	70641C
70643C	2897	74438	DBU	10								-	0	0	SAE 1 1/2" 10 C	355	bent	
70660C	4085	74442	Leyland	10	160							12.7	0	0	SAE 1 1/2" 10 C	0	bent	
70678C	2752	74422	BPW	10	180	150	120					14	0	0	SAE 1 1/2" 10 C	110	bent	
70687C	2752	74404	Kässbohrer	37	180	150						14	0	0	A36x40 DIN 5481	90	bent	
70702C	2882	74884	D-C	19	110							14	0	+27	A38x34 DIN 5482	35	double bent (short; R=65 mm)	
70706C	3078	74854	D-C/Neoplan	26	115							14	0	-29	N42x1.5x9H DIN 5480	61	double bent (short; R=65 mm)	
70708C	3166	74853		26	130							14	0	0	N42x1.5x9H DIN 5480	75	double bent (short; R=65 mm)	
70716C	2894	74920	Kässbohrer	19	170							14	+47.6	+22.5	A38x34 DIN 5482	60	bent	70717C
70717C	2895	74920	Kässbohrer	19	170							14	-47.6	+22.5	A38x34 DIN 5482	60	bent	70716C
70718C	2760	74412	Kässbohrer	19	170							14	-38	0	A38x34 DIN 5482	90	bent	70719C
70719C	2761	74412	Kässbohrer	19	170							14	+38	0	A38x34 DIN 5482	90	bent	70718C
70720C	4085	74915	Kässbohrer	19	145							14	0	0	A38x34 DIN 5482	45	bent	
70726C	4104	74946	Jelecz	19	122							14	0	0	A38x34 DIN 5482	115	bent	
70752C	2752	74637	Bergische Stadt Industrie	10	180							14	0	0	SAE 1 1/2" 10 C	110	double bent (short; R=65 mm)	
70753C	3162	74253	D-C	26	145							14	+18	+34	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)	70754C
70754C	3163	74253	D-C	26	145							14	-18	+34	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)	70753C
70759C	3166	74378	D-C	19	130							14	0	+120	A38x34 DIN 5482	115	double bent (short; R=65 mm)	
70762C	2752	74877	Saurer	19	180	135						14 (L1: w/o)	0	0	A38x34 DIN 5482	50	double bent (short; R=65 mm)	
70764C	2752	74871	Saurer	19	180	135						14	0	0	A38x34 DIN 5482	0	double bent (short; R=65 mm)	
70768C	3068	74422	BPW	10	180	150						14	-28.5	0	SAE 1 1/2" 10 C	110	bent	
70771C	3196	74255	D-C/Neoplan	26	115							14	+15	-24	N42x1.5x9H DIN 5480	346	double bent (medium; R=78 mm)	70772C
70772C	3195	74255	D-C/Neoplan	26	115							14	-15	-24	N42x1.5x9H DIN 5480	346	double bent (medium; R=78 mm)	70771C
70775C	3202	74864	D-C/Neoplan	26	130							14	0	+120	N42x1.5x9H DIN 5480	79	double bent (short; R=65 mm)	
70785C	2766	74938	Leyland	10	171							12.7	+12.7	0	SAE 1 1/2" 10 C	90	bent	70786C
70786C	2765	74938	Leyland	10	171							12.7	-12.7	0	SAE 1 1/2" 10 C	90	bent	70785C



FOUNDATION BRAKE

### FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information	
					L1	L2	L3	L4	L5	L6	L7									
70787C	2752	74442	Leyland	10	203	151							12.7 (L1:w/o)	0	0	SAE 1 1/2" 10 C	0	bent		
70789C	3216	74863	D-C	26	215								14	-26	+10.5	N42x1.5x9H DIN 5480	90	double bent (short; R=65 mm)	70790C	
70799C	2852	74402	CBM	27	239								14	+12.4	0	BNA 227	90	bent	70800C	
70800C	2851	74402	CBM	27	239								14	-12.4	0	BNA 227	90	bent	70799C	
70802C	2760	74422	SAF	10	203	179	151						14	-38	0	SAE 1 1/2" 10 C	110	bent	70803C	
70803C	2761	74422	SAF	10	203	179	151						14	+38	0	SAE 1 1/2" 10 C	110	bent	70802C	
70804C	2752	74693	SAE	10	210	180	150	120					14	0	0	SAE 1 1/2" 10 C	45	double bent (short; R=65 mm)		*
70809C	4085	74867	Fiat	8	160								12.7	0	0	32 UNI 222	43	double bent (short; R=65 mm)		
70810C	4085	74865	Fiat	8	160								12.7	0	0	32 UNI 222	12	double bent (short; R=65 mm)		
70823C	4104	74419	DAF	10	140								14	0	0	SAE 1 1/2" 10 C	110	bent		
70824C	2760	74419	DAF	10	140								14	-38	0	SAE 1 1/2" 10 C	110	bent	70825C	
70825C	2761	74419	DAF	10	140								14	+38	0	SAE 1 1/2" 10 C	110	bent	70824C	
70832C	2985	74451	Volvo/Ailsa	10	147								12.7	-38	-34	SAE 1 1/2" 10 C	305	double bent (long; R=100 mm)	70833C	
70833C	2987	74451	Volvo/Ailsa	10	147								12.7	+38	-34	SAE 1 1/2" 10 C	305	double bent (long; R=100 mm)	70832C	
70838C	2894	74257	CBM	27	200								14	+47.6	+22.5	BNA 227	0	double bent (medium; R=78 mm)	70839C	
70839C	2895	74257	CBM	27	200								14	-47.6	+22.5	BNA 227	0	double bent (medium; R=78 mm)	70838C	
70840C	2760	74435	Leyland	10	165								12.7	-38	0	SAE 1 1/2" 10 C	135	bent	70841C	
70841C	2761	74435	Leyland	10	165								12.7	+38	0	SAE 1 1/2" 10 C	135	bent	70840C	
70851C	4104	74870	Sisu	10	140								12.7	0	0	SAE 1 1/2" 10 C	115	double bent (short; R=65 mm)		
70852C	2897	74867	Sisu	10	178								16	0	0	SAE 1 1/2" 10 C	43	double bent (short; R=65 mm)		
70854C	2752	74868	Fruehauf	37	210	180	150	125					14 (L1: w/o)	0	0	SAE J 498	10	double bent (short; R=65 mm)		●
70855C	2853	74869	Renault	19	240								16	+33.1	0	A38x34 DIN 5482	65	double bent (short; R=65 mm)	70856C	
70856C	2854	74869	Renault	19	240								16	-33.1	0	A38x34 DIN 5482	65	double bent (short; R=65 mm)	70855C	
70859C	4104	74427	Dennis/MCW	10	140								12.7	0	0	SAE 1 1/2" 10 C	75	bent		
70865C	2897	74438	SAB	10	210	175							16	0	0	SAE 1 1/2" 10 C	355	bent		

\* Can use 80024S

● Can use 80021S



70787C



70789C



70799C



70800C



70802C



70803C



70809C



70810C



70823C



70825C



70832C



70840C



70841C



70854C



70855C



70856C



70859C



70865C

## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth							bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
				L1	L2	L3	L4	L5	L6	L7							
70866C	2897	74962	SAB	10	210	175					16	0	0	SAE 1 1/2" 10 C	355	bent	
70867C	3177	74482	D-C	26	145						14	0	+132.5	N42x1.5x9H DIN 5480	75	double bent (medium; R=78 mm)	
70869C	2753	74958	Bofors	19	200						14	-22	0	A38x34 DIN 5482	150	bent	70868C
70870C	3194	74888	D-C	26	110						14	0	+120	N42x1.5x9H DIN 5480	114	double bent (short; R=65 mm)	
70871C	3226	74908	DAF	10	140						14	0	-38	SAE 1 1/2" 10 C	30	bent	
70872C	2894	74902	DAF	10	143						14	+47.6	+22.5	SAE 1 1/2" 10 C	15	bent	
70880C	2931	74413	Renault	27	258						14	+36.6	0	BNA 227	90	bent	70881C
70881C	2932	74413	Renault	27	258						14	-36.6	0	BNA 227	90	bent	70880C
70882C	2752	74414	ROR/SAB	10	203	178	152	127			12.7	0	0	SAE 1 1/2" 10 C	0	bent	
70883C	2752	74414	ROR/SAB	10							-	0	0	SAE 1 1/2" 10 C	0	bent	
70884C	2897	74414	ROR/SAB	10	254	152					12.7	0	0	SAE 1 1/2" 10 C	0	bent	
70886C	2752	74414	ROR/SAB	10	190	140					12.7	0	0	SAE 1 1/2" 10 C	0	bent	
70887C	2752	74919	SAB	10	203	178	152	127			12.7	0	0	SAE 1 1/2" 10 C	60	bent	
70891C	2752	74865	Fiat	8	170						12.7	0	0	32 UNI 222	12	double bent (short; R=65 mm)	
70892C	4086	74578	Fiat	8	180						12.7	0	+20	32 UNI 222	153	double bent (short; R=65 mm)	
70893C	2760	74427	Dana/MCW	10	140						12.7	-38	0	SAE 1 1/2" 10 C	75	bent	70894C
70894C	2761	74427	Dana/MCW	10	140						12.7	+38	0	SAE 1 1/2" 10 C	75	bent	70893C
70896C	3718	74900	Renault	27	175						14	+56.2	+25	BNA 227	0	double bent (short; R=65 mm)	70897C
70897C	3717	74900	Renault	27	175						14	-56.2	+25	BNA 227	0	double bent (short; R=65 mm)	70896C
70899C	3718	74869	Renault	27	246						16	+56.2	+25	BNA 227 D3.5	65	double bent (short; R=65 mm)	
70903C	4085	74865	Menarini/ Bredamenarinibus	10	160						12.7	0	0	SAE 1 1/2" 10 C	12	double bent (short; R=65 mm)	
70905C	2752 (4085)	74900	Van Hool	10	152						14	0	0	SAE 1 1/2" 10 C	0	double bent (short; R=65 mm)	
70917C	3186	74281	D-C	26	145						14	+56	+4	N42x1.5x9H DIN 5480	94	straight	
70918C	3185	74282	D-C	26	145						14	-56	+4	N42x1.5x9H DIN 5480	94	double bent (short; R=65 mm)	
70919C	2752	74860	Sicca/ Bredamenarinibus	8	180						12.7	0	0	32 UNI 222	90	double bent (short; R=65 mm)	
70926C	2901	74257	CBM	27	200						16	+60.3	+22.5	BNA 227	0	double bent (medium; R=78 mm)	

FOUNDATION BRAKE



### FOUNDATION BRAKE

FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information		
					L1	L2	L3	L4	L5	L6	L7										
70927C	2902	74257	CBM	27	200								14	-60.3	+22.5	BNA 227	0	double bent (medium; R=78 mm)			
70928C	2901	74257	CBM	27	180								14	+60.3	+22.5	BNA 227	0	double bent (medium; R=78 mm)			
70930C	3185	74427	MCW	10	140								12.7	-56	+4	SAE 1 1/2" 10 C	75	bent	70931C		
70931C	3186	74427	MCW	10	140								12.7	+56	+4	SAE 1 1/2" 10 C	75	bent		70930C	
70932C	4085	74893	Volvo	26	165								12.7	0	0	N42x1.5x9H DIN 5480	60	double bent (short; R=65 mm)			
70943C	2771	74971	Leyland	10	155								12.7	+16	+22.5	SAE 1 1/2" 10 C	130	bent		70944C	
70944C	2772	74971	Leyland	10	155								12.7	-16	+22.5	SAE 1 1/2" 10 C	130	bent		70943C	
70945C	2752	74442	Leyland	10	180								12.7	0	0	SAE 1 1/2" 10 C	0	bent			
70946C	2752	74958	Volvo	10	140								12.7	0	0	SAE 1 1/2" 10 C	150	bent			
70949C	3865	74459	SAF	10	200	176	152	127					14 (L1: w/o)	0	+132.5	SAE 1 1/2" 10 C	283.5	double bent (long; R=100 mm)			
70950C	2882	74884	D-C	26	110								14	0	+27	N42x1.5x9H DIN 5480	35	double bent (short; R=65 mm)			
70952C	3879	74782	D-C	26	145								14	-56	+15	N42x1.5x9H DIN 5480	106	double bent (short; R=65 mm)	70953C	*	
70953C	3878	74782	D-C	26	145								14	+56	+15	N42x1.5x9H DIN 5480	106	double bent (short; R=65 mm)	70952C	●	
70954C	4024	74682	D-C	26	145								14	0	+132.5	N42x1.5x9H DIN 5480	86	double bent (short; R=65 mm)			
70955C	3880	74263	D-C	26	145								14	-18	+105	N42x1.5x9H DIN 5480	73	double bent (medium; R=78 mm)	70956C		
70956C	3881	74263	D-C	26	145								14	+18	+105	N42x1.5x9H DIN 5480	73	double bent (medium; R=78 mm)	70955C		
70957C	4085	74414	Volvo	10	152								16	0	0	SAE 1 1/2" 10 C	0	bent			
70959C	2752	74691	Fruehauf	37	210	180	155	130					14 (L1: w/o)	0	0	SAE J 498	100	double bent (short; R=65 mm)			❖
70969C	3068	74422	SAF/BPW	10	198	173	148						14	-28.5	0	SAE 1 1/2" 10 C	110	bent			
70970C	3069	74422	SAF/BPW	10	198	173	148						w/o (L1: 14)	+28.5	0	SAE 1 1/2" 10 C	110	bent			
70975C	2851	74413	Renault	27	238								14	-12.4	0	BNA 227	90	bent		70976C	
70976C	2852	74413	Renault	27	238								14	+12.4	0	BNA 227	90	bent		70975C	
70977C	2760	74456	Volvo	10	152								12.7	-38	0	SAE 1 1/2" 10 C	330	double bent (long; R=100 mm)		70978C	
70978C	2761	74456	Volvo	10	152								12.7	+38	0	SAE 1 1/2" 10 C	330	double bent (long; R=100 mm)		70977C	

\* Can use 80000C

● Can use 80001C

❖ Can use 80021S



70927C



70930C



70931C



70932C



70943C



70944C



70945C



70949C



70950C



70952C



70953C



70954C



70955C



70956C



70957C



70959C



70969C



70970C



70975C



70976C



70977C

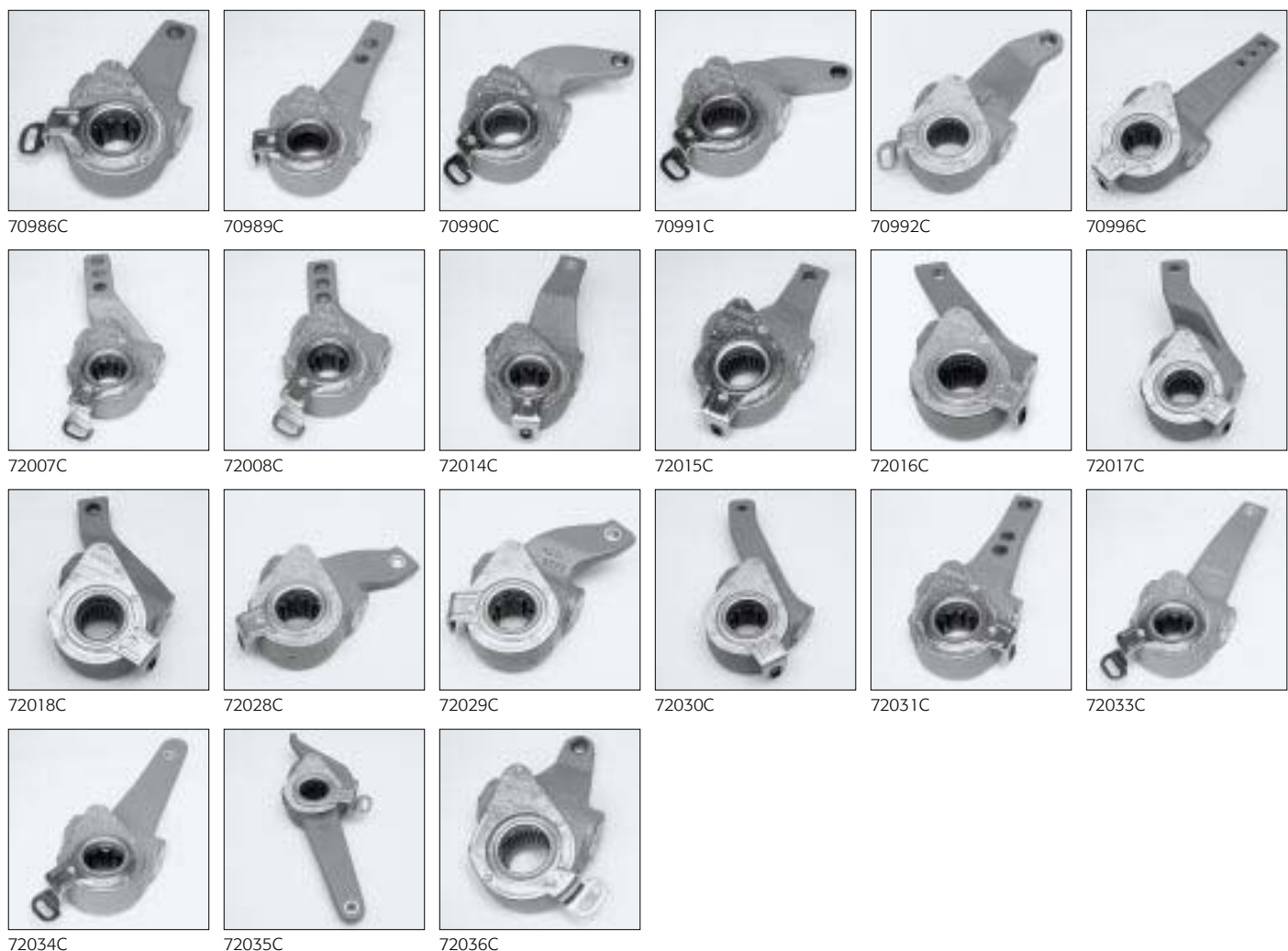


70978C

## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth							bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
				L1	L2	L3	L4	L5	L6	L7							
70979C	2752	74414	Fruehauf	37	203	178	152	127			12.7 (L1w6)	0	0	SAE J 498	0	bent	
70980C	2897	74438	GB-Railway	10	178						16	0	0	SAE 1 1/2" 10 C	355	bent	
70986C	4104	74268	Dennis	10	140						12.7	0	0	SAE 1 1/2" 10 C	160	double bent (medium; R=78 mm)	
70989C	2752	74972	Kässbohrer	37	180	150					14	0	0	A36x40 DIN 5481	155	bent	
70990C	4045	74799	D-C	26	145						14	-18	+34	N42x1.5x9H DIN 5480	114	double bent (short; R=65 mm)	70991C
70991C	4044	74799	D-C	26	145						14	+18	+34	N42x1.5x9H DIN 5480	114	double bent (short; R=65 mm)	70990C
70992C	3896	74273	D-C	26	145						14	-50	+15	N42x1.5x9H DIN 5480	132	double bent (short; R=65 mm)	70993C
70993C	3897	74273	D-C	26	145						14	+50	+15	N42x1.5x9H DIN 5480	132	double bent (short; R=65 mm)	70992C
70996C	2897	74412	Bartoletti	8	214	191	168				12.7	0	0	32 UNI 222	90	bent	
72007C	3863	74471	SAF	10	178	152	127				14	-25	-30	SAE 1 1/2" 10 C	92	double bent (medium; R=78 mm)	72008C
72008C	3864	74471	SAF	10	178	152	127				14	+25	-30	SAE 1 1/2" 10 C	92	double bent (medium; R=78 mm)	72007C
72014C	2760	74412	Kässbohrer	19	160						14	-38	0	A38x34 DIN 5482	90	bent	72015C
72015C	2761	74412	Kässbohrer	19	160						14	+38	0	A38x34 DIN 5482	90	bent	72014C
72016C	3226	74448	Kässbohrer	19	145						14	0	-38	A38x34 DIN 5482	5	bent	
72017C	2985	74765	Kässbohrer	19	160						14	-38	-34	A38x34 DIN 5482	10	bent	
72018C	2987	74765	Kässbohrer	19	160						14	+38	-34	A38x34 DIN 5482	10	bent	
72019C	3226	74357	Leyland	10	127						12.7	0	-38	SAE 1 1/2" 10 C	355	double bent (long; R=100 mm)	
72028C	2771	74949	Bombardier	10	133						12.7	+16	+22.5	SAE 1 1/2" 10 C	125	bent	72029C
72029C	2772	74949	Bombardier	10	133						12.7	-16	+22.5	SAE 1 1/2" 10 C	125	bent	72028C
72030C	3226	74414	Bombardier	10	178						12.7	0	-38	SAE 1 1/2" 10 C	0	bent	
72031C	2752	74414	Fruehauf	10	200	142	118				12.7	0	0	SAE 1 1/2" 10 C	0	bent	
72033C	2851	74431	Fiat	8	218						12.7	-12.4	0	32 UNI 222	110	double bent (medium; R=78 mm)	72034C
72034C	2852	74431	Fiat	8	218						12.7	+12.4	0	32 UNI 222	110	double bent (medium; R=78 mm)	72033C
72035C	3890	74432	Fiat	8	190						12.7	0	+138.5	32 UNI 222	342	double bent (medium; R=78 mm)	
72036C	3893	74684	D-C	26	145						14	+56	-5	N42x1.5x9H DIN 5480	7	double bent (short; R=65 mm)	72037C *

\* Can use 80011C



FOUNDATION BRAKE

### FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7								
72037C	3892	74684	D-C	26	145							14	-56	-5	N42x1.5x9H DIN 5480	7	double bent (short; R=65 mm)	72036C	*
72038C	4004	74687	D-C	26	145							14	+60	+34.5	N42x1.5x9H DIN 5480	7	double bent (short; R=65 mm)	72039C	
72039C	4005	74687	D-C	26	145							14	-60	+34.5	N42x1.5x9H DIN 5480	7	double bent (short; R=65 mm)	72038C	
72040C	4010	74685	D-C	26	145							14	-42	+105	N42x1.5x9H DIN 5480	80	double bent (short; R=65 mm)	72041C	●
72041C	4011	74685	D-C	26	145							14	+42	+105	N42x1.5x9H DIN 5480	80	double bent (short; R=65 mm)	72040C	❖
72046C	4024	74769	D-C	26	145							14	0	+132.5	N42x1.5x9H DIN 5480	86	double bent (short; R=65 mm)		
72053C	2752	74270	SAF/BPW	10	210	180	150	125				14	0	0	SAE 1 1/2" 10 C	20	double bent (short; R=65 mm)		
72054C	4077	74770	D-C	26	145							14	+60	-10	N42x1.5x9H DIN 5480	89	double bent (short; R=65 mm)	72055C	
72055C	4078	74770	D-C	26	145							14	-60	-10	N42x1.5x9H DIN 5480	89	double bent (short; R=65 mm)	72054C	
72056C	3900	74274	D-C	26	145							14	0	+37	N42x1.5x9H DIN 5480	150	double bent (medium; R=78 mm)		
72059C	3900	74686	D-C	26	145							14	0	+37	N42x1.5x9H DIN 5480	358	double bent (short; R=65 mm)		
72060C	3860	74272	D-C	26	145							14	-15	-24	N42x1.5x9H DIN 5480	346	double bent (medium; R=78 mm)	72061C	
72061C	3861	74272	D-C	26	145							14	+15	-24	N42x1.5x9H DIN 5480	346	double bent (medium; R=78 mm)	72060C	
72062C	4019	74253	D-C	26	145							14	+37	+34	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)	72063C	■
72063C	4018	74253	D-C	26	145							14	-37	+34	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)	72062C	◆
72064C	4016	74269	D-C	26	145							14	-63	-20	N42x1.5x9H DIN 5480	475	double bent (short; R=65 mm)	72065C	
72065C	4017	74269	D-C	26	145							14	+63	-20	N42x1.5x9H DIN 5480	475	double bent (short; R=65 mm)	72064C	
72069C	3185	74767	D-C	26	145							14	-56	+4	N42x1.5x9H DIN 5480	101	double bent (short; R=65 mm)	72070C	
72070C	3186	74767	D-C	26	145							14	+56	+4	N42x1.5x9H DIN 5480	101	double bent (short; R=65 mm)	72069C	
72085C	4104	74284	Volvo	10	133							12.7	0	0	SAE 1 1/2" 10 C	30	bent		
72086C	2752	74442	Leyland	10	203	171						12.7 (L1:w)	0	0	SAE 1 1/2" 10 C	0	bent		
72096C	4022	74290	D-C	26	145							14	-31	-24	N42x1.5x9H DIN 5480	346	double bent (medium; R=78 mm)	72097C	

- \* Can use 80010C
- Can use 80012C
- ❖ Can use 80013C
- Can use 80008C
- ◆ Can use 80009C



72037C



72038C



72039C



72040C



72041C



72046C



72053C



72054C



72055C



72056C



72059C



72060C



72061C



72062C



72063C



72064C



72065C



72069C



72070C



72085C



72086C

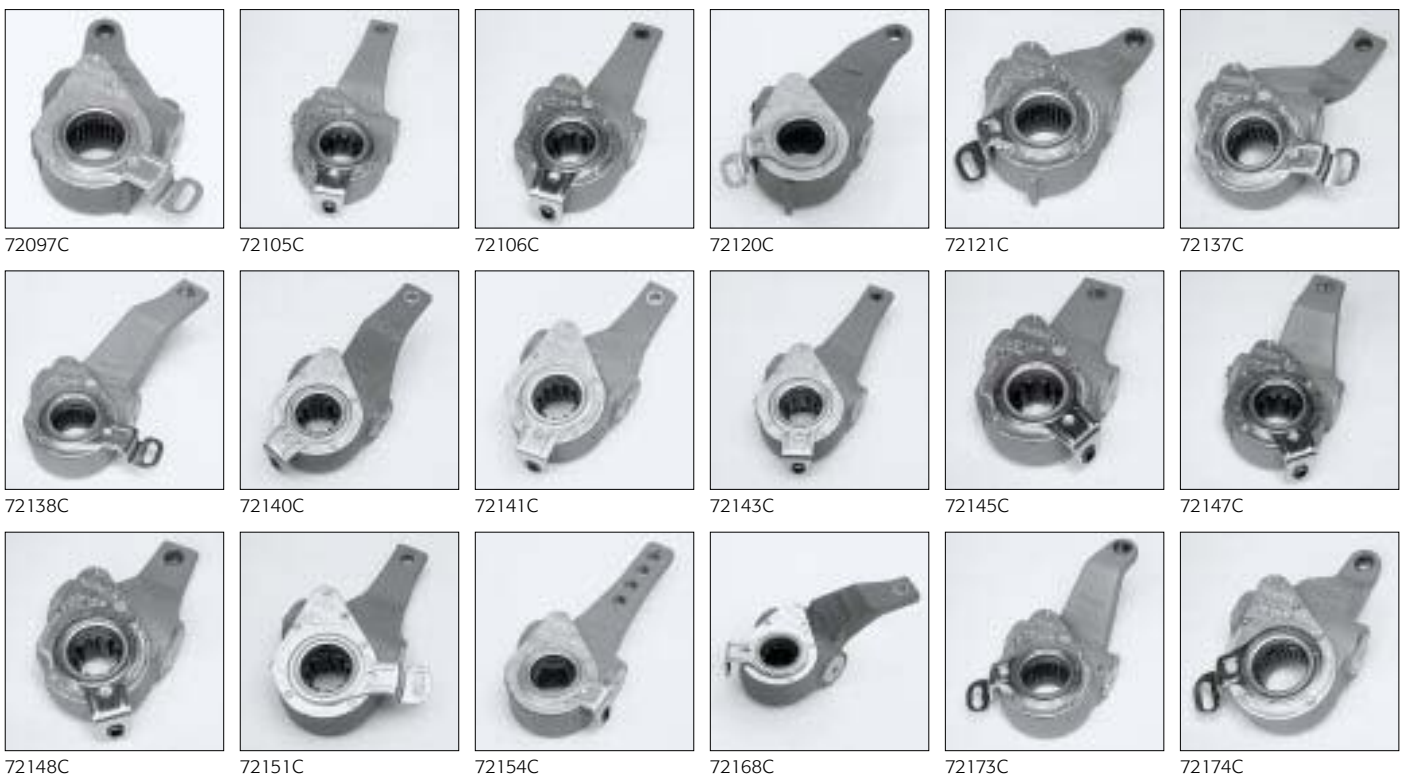


72096C



## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
					L1	L2	L3	L4	L5	L6	L7							
72097C	4023	74290	D-C	26	145							14	+31	-24	N42x1.5x9H DIN 5480	346	double bent (medium; R=78 mm)	72096C
72103C	2752	74414	Fruehauf	10	200	142	118					14	0	0	SAE 1 1/2" 10 C	0	bent	
72104C	4086	74905	Fruehauf	37	210	153	129	105				14	0	+20	SAE J 498	20	bent	
72105C	2755	74936	Leyland	10	178							12.7	-16	0	SAE 1 1/2" 10 C	85	bent	72106C
72106C	2756	74936	Leyland	10	178							12.7	+16	0	SAE 1 1/2" 10 C	85	bent	72105C
72114C	3226	74357	Seddon Atkinson	10	140							12.7	0	-38	SAE 1 1/2" 10 C	355	double bent (long; R=100 mm)	
72115C	2752	74919	Fruehauf	10	200	142	118					12.7	0	0	SAE 1 1/2" 10 C	60	bent	
72120C	4025	74291	D-C	26	145							14	-31	+15.5	N42x1.5x9H DIN 5480	131	double bent (short; R=65 mm)	72121C
72121C	4026	74291	D-C	26	145							14	+31	+15.5	N42x1.5x9H DIN 5480	131	double bent (short; R=65 mm)	72120C
72127C	4017	74269	D-C	26	145							14	+63	-20	N42x1.5x9H DIN 5480	48	double bent (short; R=65 mm)	72128C
72128C	4016	74269	D-C	26	145							14	-63	-20	N42x1.5x9H DIN 5480	48	double bent (short; R=65 mm)	72127C
72137C	2901	74257	Renault	19	170							14	+60.3	+22.5	A38x34 DIN 5482	0	double bent (medium; R=78 mm)	72138C
72138C	2902	74257	Renault	19	170							14	-60.3	+22.5	A38x34 DIN 5482	0	double bent (medium; R=78 mm)	72137C
72140C	2760	74427	MCW	10	165							12.7	-38	0	SAE 1 1/2" 10 C	75	bent	
72141C	2761	74427	MCW	10	165							12.7	+38	0	SAE 1 1/2" 10 C	75	bent	
72143C	2752	74918	Military trailer	10	190							12.7	0	0	SAE 1 1/2" 10 C	60	bent	
72144C	2752	74262	Dana/MCW	10	165							12.7	0	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	
72145C	4104	74985	Dennis	10	127							12.7	0	0	SAE 1 1/2" 10 C	15	bent	
72147C	2760	74987	Dennis/MCW	10	140							12.7	-38	0	SAE 1 1/2" 10 C	50	bent	72148C
72148C	2761	74987	Dennis/MCW	10	140							12.7	+38	0	SAE 1 1/2" 10 C	50	bent	72147C
72149C	2752	74361	Bedford	10	140							12.7	0	0	SAE 1 1/2" 10 C	350	double bent (medium; R=78 mm)	
72150C	2760	74262	DAF	10	165							14	-38	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	72151C
72151C	2761	74262	DAF	10	165							14	+38	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	72150C
72154C	2752	74424	MAG	-	203	178	152	127				12.7	0	0	SQUARE 26.9	0	bent	
72157C	3202	74994	Perrod	19	130							14	0	+120	A38x34 DIN 5482	79	double bent (short; R=65 mm)	
72168C	2895	74971	Leyland	10	152							12.7	-47.6	+22.5	SAE 1 1/2" 10 C	130	bent	72169C
72173C	3185	74293	D-C	26	145							14	-56	+4	N42x1.5x9H DIN 5480	144	double bent (short; R=65 mm)	72174C
72174C	3186	74293	D-C	26	145							14	+56	+4	N42x1.5x9H DIN 5480	144	double bent (short; R=65 mm)	72173C



72097C

72105C

72106C

72120C

72121C

72137C

72138C

72140C

72141C

72143C

72145C

72147C

72148C

72151C

72154C

72168C

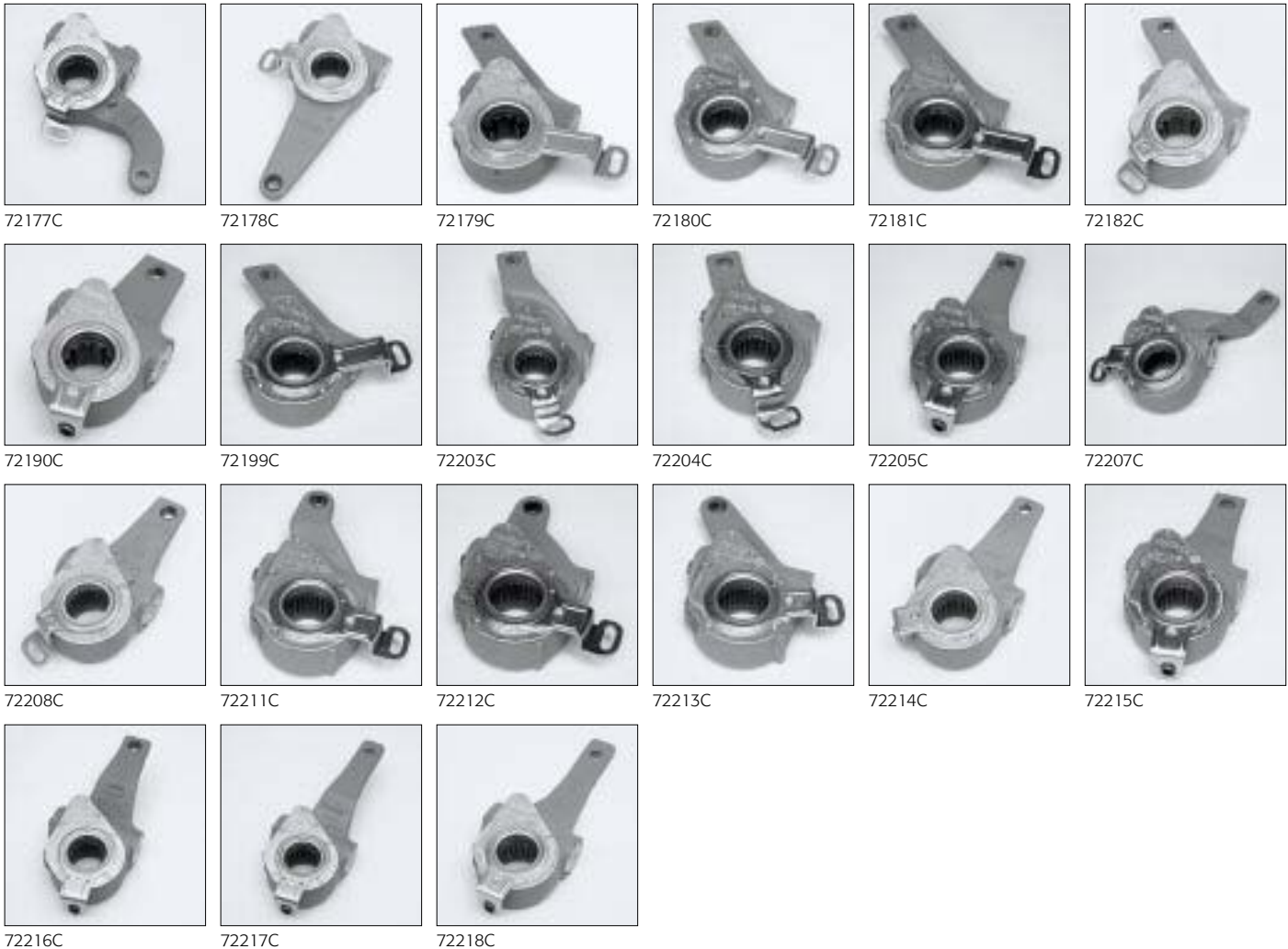
72173C

72174C

FOUNDATION BRAKE

FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
					L1	L2	L3	L4	L5	L6	L7							
72177C	3202	74295	Neoplan	19	130							14	0	+120	A38x34 DIN 5482	79	double bent (short; R=65 mm)	
72178C	4049	74575	D-C	26	145							14	0	+172	N42x1.5x9H DIN 5480	152	double bent (medium; R=78 mm)	
72179C	3226	74354	Foden	10	127							12.7	0	-38	SAE 1 1/2" 10 C	350	double bent (long; R=100 mm)	
72180C	3226	74357	Foden	28	127							12.7	0	-38	SAE 1 1/2" 28 C	355	double bent (long; R=100 mm)	
72181C	3226	74357	Foden	28	140							12.7	0	-38	SAE 1 1/2" 28 C	355	double bent (long; R=100 mm)	
72182C	3226	74474	Bredamenaribus	10	140							14	0	-38	SAE 1 1/2" 10 C	103	double bent (short; R=65 mm)	
72189C	4104	74411	Dana/MCW	10	108							12.7	0	0	SAE 1 1/2" 10 C	75	bent	
72190C	2752	74411	Dana/MCW/ERF	10	114							12.7	0	0	SAE 1 1/2" 10 C	75	bent	
72191C	4034	74774	Leyland	10	120							12.7	-28.5	0	SAE 1 1/2" 10 C	310	double bent (long; R=100 mm)	72192C
72192C	4033	74774	Leyland	10	120							12.7	+28.5	0	SAE 1 1/2" 10 C	310	double bent (long; R=100 mm)	72191C
72195C	2752	74775	Leyland	10	115							12.7	0	0	SAE 1 1/2" 10 C	80	double bent (short; R=65 mm)	
72198C	3226	74362	Seddon Atkinson	10	127							12.7	0	-38	SAE 1 1/2" 10 C	325	double bent (long; R=100 mm)	
72199C	3226	74362	Foden	28	127							12.7	0	-38	SAE 1 1/2" 28 C	325	double bent (long; R=100 mm)	
72203C	3863	74778	ZF/Neoplan	19	145							14	-25	-30	A38x34 DIN 5482	50	double bent (short; R=65 mm)	72204C
72204C	3864	74778	ZF/Neoplan	19	145							14	+25	-30	A38x34 DIN 5482	50	double bent (short; R=65 mm)	72203C
72205C	4085	74404	Kälble	26	152							16	0	0	N42x1.5x9H DIN 5480	90	bent	
72207C	3718	74473	Kälble	37	176							16	+56.2	+25	A36x40 DIN 5481	162	double bent (medium; R=78 mm)	72206C
72208C	2752	74480	MAN	26	145							14	0	0	N42x1.5x9H DIN 5480	110	double bent (short; R=65 mm)	
72211C	4035	74477	D-C	26	130							14	-15	-14	N42x1.5x9H DIN 5480	358	double bent (medium; R=78 mm)	72212C
72212C	4036	74477	D-C	26	130							14	+15	-14	N42x1.5x9H DIN 5480	358	double bent (medium; R=78 mm)	72211C
72213C	4037	74476	D-C	26	130							14	0	-29.5	N42x1.5x9H DIN 5480	337.5	double bent (medium; R=78 mm)	
72214C	4085	74422	Pegaso	19	160							14	0	0	A38x34 DIN 5482	110	bent	
72215C	3069	74360	Iveco Pegaso	19	160							14	+28.5	0	A38x34 DIN 5482	80	bent	72216C
72216C	3068	74360	Iveco Pegaso	19	160							14	-28.5	0	A38x34 DIN 5482	80	bent	72215C
72217C	2753	74360	Iveco Pegaso	19	200							14	-22	0	A38x34 DIN 5482	80	bent	72218C
72218C	2754	74360	Iveco Pegaso	19	200							14	+22	0	A38x34 DIN 5482	80	bent	72217C
72223C	2987	74900		10	140							14	+38	-34	SAE 1 1/2" 10 C	0	double bent (short; R=65 mm)	72224C



## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth							bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
				L1	L2	L3	L4	L5	L6	L7								
72234C	4019	74988	D-C	26	145						14	+37	+34	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)	72235C	*
72235C	4018	74988	D-C	26	145						14	-37	+34	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)	72234C	●
72238C	3863	74266	SAF	10	178	152	127				14	-25	-30	SAE 1 1/2" 10 C	0	double bent (medium; R=78 mm)	72239C	
72239C	3864	74266	SAF	10	178	152	127				14	+25	-30	SAE 1 1/2" 10 C	0	double bent (medium; R=78 mm)	72238C	
72249C	2752	74424	Scania	10	203	178	152	127			14	0	0	SAE 1 1/2" 10 C	0	bent		
72250C	4032	74632	SAF	10	250	210	180	150	125		14	0	+20	SAE 1 1/2" 10 C	130	bent		
72251C	4086	74426	SAE	27	210	180	150	125			14	0	+20	BNA 227	130	bent		
72253C	4032	74426	BPW	10	250	180	150	120			14	0	+20	SAE 1 1/2" 10 C	130	bent		
72254C	4086 (4032)	74632	Trallor/Samro	10	210	180	150	125			14	0	+20	SAE 1 1/2" 10 C	130	bent		❖
72255C	4086	74934	ROR	10	215	181	153	129	105		12.7	0	+20	SAE 1 1/2" 10 C	80	bent		
72256C	4086	74568	ROR	10	215	181	153	129	105		12.7	0	+20	SAE 1 1/2" 10 C	20	bent		
72259C	4086	74426	ROR	37	215	181	153	129	105		14 (L1: w/o)	0	+20	SAE J 498	130	bent		
72260C	4086	74299	ROR	10	215	181	153	129	105		14	0	+20	SAE 1 1/2" 10 C	20	bent		
72261C	4086	74426	Montracon	10	215	181	153	129	105		14	0	+20	SAE 1 1/2" 10 C	130	bent		■
72262C	4086	74567	Sisu	10	215	181	153	129	105		14	0	+20	SAE 1 1/2" 10 C	130	bent		
72265C	4086	74568		10	215	181	153	129	105		14	0	+20	SAE 1 1/2" 10 C	20	bent		
72266C	4086	74632	Fruehauf	37	215	153	129	105			14 (L1: 16)	0	+20	SAE J 498	130	bent		◆
72267C	4086	74426	Fruehauf	10	215	153	129	105			14 (L1: 16)	0	+20	SAE 1 1/2" 10 C	130	bent		■
72268C	4086	74426	Fruehauf	10	215	181	153	129	105		12.7	0	+20	SAE 1 1/2" 10 C	130	bent		
72269C	4086	74570	SAF	10	210	180	150	125			14	0	+20	SAE 1 1/2" 10 C	130	bent		
72270C	4086	74632	SAF	10	153	129	105				14	0	+20	SAE 1 1/2" 10 C	130	bent		
72271C	4032	74426	SAF	10	250	195	165	135			14	0	+20	SAE 1 1/2" 10 C	130	bent		*

- \* Can use 80008C
- Can use 80009C
- ❖ Can use 80024S
- Can use 72788S
- ◆ Can use 80021S



FOUNDATION BRAKE

### FOUNDATION BRAKE

FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7								
72272C	4032	74426		10	250							w/o	0	+20	SAE 1 1/2" 10 C	130	bent		
72273C	4086	74426		37	215	181	153	129	105			12.7	0	+20	SAE J 498	130	bent		
72303C	3185	74565	MAN	26	145							14	-56	+4	N42x1.5x9H DIN 5480	144	double bent (short; R=65 mm)	72304C	
72308C	3177	74482	D-C	26	145							14	0	+132.5	N42x1.5x9H DIN 5480	75	double bent (medium; R=78 mm)		
72315C	4085	74376	Renault	19	160							14	0	0	A38x34 DIN 5482	24	double bent (short; R=65 mm)		
72320C	3162	74785	MAN	26	145							14	+18	+34	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)		
72321C	3163	74785	MAN	26	145							14	-18	+34	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)		
72326C	2752 (4085)	74778	ZF	19	152							14	0	0	A38x34 DIN 5482	50	double bent (short; R=65 mm)		
72327C	3226	74784	DAF	10	165							14	0	-38	SAE 1 1/2" 10 C	40	double bent (short; R=65 mm)		
72329C	4085	74284	GKN	10	155	127						12.7	0	0	SAE 1 1/2" 10 C	30	bent		
72330C	4085	74900	Van Hool/Iveco Turbocity/Bredamenarinibus	19	152							14	0	0	A38x34 DIN 5482	0	double bent (short; R=65 mm)		
72333C	4104	74903	Foden	10	140							12.7	0	0	SAE 1 1/2" 10 C	15	bent		
72337C	4047	74800	MAN	26	145							14	+26	0	N42x1.5x9H DIN 5480	90	double bent (short; R=65 mm)	72338C	
72338C	4046	74800	MAN	26	145							14	-26	0	N42x1.5x9H DIN 5480	90	double bent (short; R=65 mm)	72337C	
72344C	2901	74258		10	151							12.7	+60.3	+22.5	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	72345C	
72353C	4032	74298		10	250	180	150	120				14 (L1: w/o)	0	+20	SAE 1 1/2" 10 C	130	bent		
72354C	4052	74886	D-C	26	145							14	+63	-28	N42x1.5x9H DIN 5480	70	double bent (short; R=65 mm)	72355C	
72355C	4053	74886	D-C	26	145							14	-63	-28	N42x1.5x9H DIN 5480	70	double bent (short; R=65 mm)	72354C	
72356C	4085	74376	Seddon Atkinson	19	150							14	0	0	A38x34 DIN 5482	24	double bent (short; R=65 mm)		
72357C	4054	74380	Liaz	26	150							14	+18	-38	40x1.5 CSN 014950.1	32	bent	72358C	
72358C	4055	74380	Liaz	26	150							14	-18	-38	40x1.5 CSN 014950.1	32	bent	72357C	
72359C	4086	74298	ROR	10	215	142	118					14 (L1: 16)	0	+20	SAE 1 1/2" 10 C	130	bent		*
72361C	4104	74990	MCW	10	115							12.7	0	0	SAE 1 1/2" 10 C	65	bent		
72362C	4104	74902	Dennis	10	127							12.7	0	0	SAE 1 1/2" 10 C	15	bent		
72363C	2752	74985	Dennis	10	140							12.7	0	0	SAE 1 1/2" 10 C	15	bent		
72364C	4104	74365	Dennis	10	127							12.7	0	0	SAE 1 1/2" 10 C	340	double bent (medium; R=78 mm)		

\* Can use 72788S



72303C



72308C



72315C



72326C



72329C



72330C



72333C



72344C



72354C



72355C



72356C



72357C



72358C



72359C



72361C



72362C



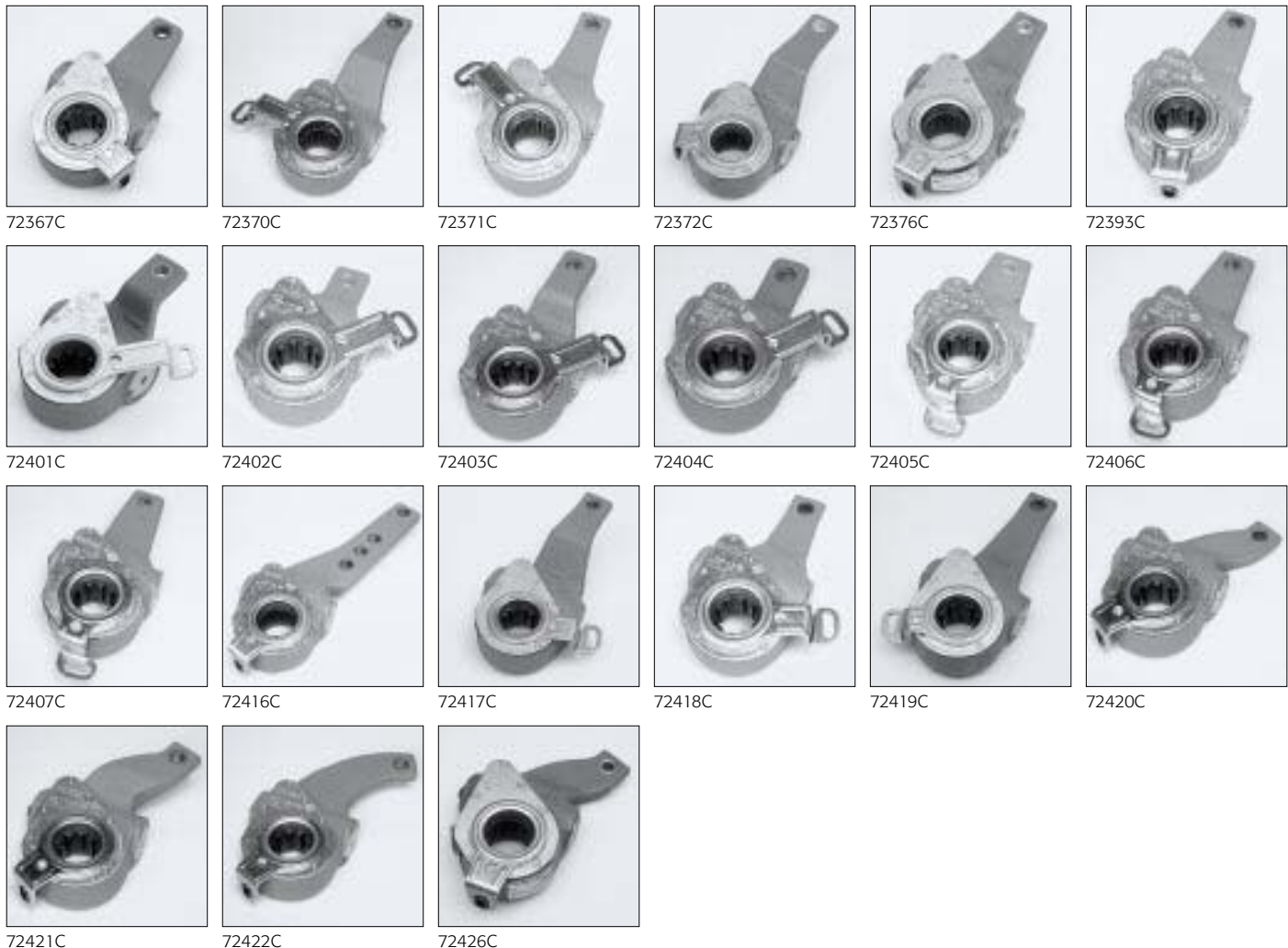
72363C



72364C

## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7								
72367C	4104	74902	Dennis	10	140							12.7	0	0	SAE 1 1/2" 10 C	15	bent		
72370C	2760	74364	Kässbohrer	19	175							14	-38	0	A38x34 DIN 5482	180	double bent (long; R=100 mm)	72371C	
72371C	2761	74364	Kässbohrer	19	175							14	+38	0	A38x34 DIN 5482	180	double bent (long; R=100 mm)	72370C	
72372C	2760	74957	Kässbohrer	28	175							12.7	-38	0	SAE 1 1/2" 28 C	150	bent	72373C	
72373C	2761	74957	Kässbohrer	28	175							12.7	+38	0	SAE 1 1/2" 28 C	150	bent	72372C	
72374C	2753	74957	Kässbohrer	10	175							16	-22	0	SAE 1 1/2" 10 C	150	bent	72375C	
72375C	2754	74957	Kässbohrer	10	175							16	+22	0	SAE 1 1/2" 10 C	150	bent	72374C	
72376C	2752	74439	Kässbohrer	28	145							12.7	0	0	SAE 1 7/16" 28 C	90	bent		
72385C	4085	74574	ZF	19	145							14	0	0	A38x34 DIN 5482	90	double bent (short; R=65 mm)		
72393C	4104	74410	Dennis	10	140							12.7	0	0	SAE 1 1/2" 10 C	75	bent		
72401C	4034	74491	Leyland	10	120							12.7	-28.5	0	SAE 1 1/2" 10 C	310	double bent (long; R=100 mm)	72402C	
72402C	4033	74491	Leyland	10	120							12.7	+28.5	0	SAE 1 1/2" 10 C	310	double bent (long; R=100 mm)	72401C	
72403C	4034	74491	Leyland	10	133							12.7	-28.5	0	SAE 1 1/2" 10 C	310	double bent (long; R=100 mm)	72404C	
72404C	4033	74491	Leyland	10	133							12.7	+28.5	0	SAE 1 1/2" 10 C	310	double bent (long; R=100 mm)	72403C	
72405C	4104	74775	Leyland	10	115							12.7	0	0	SAE 1 1/2" 10 C	80	double bent (short; R=65 mm)		
72406C	4104	74775	Leyland	10	133							12.7	0	0	SAE 1 1/2" 10 C	80	double bent (short; R=65 mm)		
72407C	4104	74775	Leyland	10	140							12.7	0	0	SAE 1 1/2" 10 C	80	double bent (short; R=65 mm)		
72408C	2752	74376	Enasa/Veco Pegaso	19	180							14	0	0	A38x34 DIN 5482	24	double bent (short; R=65 mm)		
72416C	4032	74590	Kässbohrer	37	250	180	150	120				14	0	+20	A36x40 DIN 5481	110	bent		
72417C	2760	74592	Foden	10	165							12.7	-38	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	72418C	
72418C	2761	74592	Foden	10	165							12.7	+38	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	72417C	
72419C	2752	74597	Sicca/Bredamenaribus	8	180							12.7	0	0	32 UNI 222	155	double bent (short; R=65 mm)		
72420C	2771	74594	Leyland	10	140							12.7	+16	+22.5	SAE 1 1/2" 10 C	120	bent	72421C	
72421C	2772	74594	Leyland	10	140							12.7	-16	+22.5	SAE 1 1/2" 10 C	120	bent	72420C	
72422C	2922	74595	Leyland	10	165							12.7	0	+26	SAE 1 1/2" 10 C	110	bent		
72425C	4104	74598	Dana	10	140							12.7	0	0	SAE 1 1/2" 10 C	75	bent		
72426C	2771	74404	Kässbohrer	28	140							w/o	+16	+22.5	SAE 1 1/2" 28 C	90	bent		



FOUNDATION BRAKE

FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth							bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
				L1	L2	L3	L4	L5	L6	L7								
72427C	2772	74404	Kässbohrer	28	140						12.7	-16	+22.5	SAE 1 1/2" 28 C	90	bent		
72428C	4085	74385	Sisu	10	145						14	0	0	SAE 1 1/2" 10 C	43	double bent (short; R=65 mm)		
72429C	4085	74386	Sisu	10	145						14	0	0	SAE 1 1/2" 10 C	115	double bent (short; R=65 mm)		
72430C	2761	74908	Steyr	28	152						12.7	+38	0	SAE 1 1/2" 28 C	30	bent		72431C
72431C	2760	74908	Steyr	28	152						12.7	-38	0	SAE 1 1/2" 28 C	30	bent		72430C
72432C	2771	74483	Leyland	10	155						12.7	+16	+22.5	SAE 1 1/2" 10 C	145	bent		72433C
72433C	2772	74483	Leyland	10	155						12.7	-16	+22.5	SAE 1 1/2" 10 C	145	bent		72432C
72438C	4104	74599	MAN	26	130						14	0	0	N42x1.5x9H DIN 5480	105	double bent (short; R=65 mm)		
72439C	2771	74485	Leyland	10	155						12.7	+16	+22.5	SAE 1 1/2" 10 C	145	bent		72440C
72440C	2772	74485	Leyland	10	155						12.7	-16	+22.5	SAE 1 1/2" 10 C	145	bent		72439C
72441C	2922	74486	Leyland	10	165						12.7	0	+26	SAE 1 1/2" 10 C	25	bent		
72446C	3068	74597	Iveco Pegaso	19	185						14	-28.5	0	A38x34 DIN 5482	155	double bent (short; R=65 mm)		
72447C	3069	74597	Iveco Pegaso	19	180						14	+28.5	0	A38x34 DIN 5482	155	double bent (short; R=65 mm)		
72448C	2752	74401	BPW	10	210	180	150	120			14	0	0	SAE 1 1/2" 10 C	110	bent		
72452C	3195	74911	MCW	10	115						12.7	-15	-24	SAE 1 1/2" 10 C	40	bent		72453C
72453C	3196	74911	MCW	10	115						12.7	+15	-24	SAE 1 1/2" 10 C	40	bent		72452C
72457C	4104	74427	Foden	10	140						12.7	0	0	SAE 1 1/2" 10 C	75	bent		
72459C	2753	74900	Van Hool	19	160						14	-22	0	A38x34 DIN 5482	0	double bent (short; R=65 mm)		72460C
72460C	2754	74900	Van Hool	19	160						14	+22	0	A38x34 DIN 5482	0	double bent (short; R=65 mm)		72459C
72461C	2753	74373	Van Hool	19	150						14	-22	0	A38x34 DIN 5482	120	double bent (short; R=65 mm)		72462C
72462C	2754	74373	Van Hool	19	150						14	+22	0	A38x34 DIN 5482	120	double bent (short; R=65 mm)		72461C
72506C	3216	74863	MAN	26	215						14	-26	+10.5	N42x1.5x9H DIN 5480	90	double bent (short; R=65 mm)		72507C
72507C	3217	74863	MAN	26	215						14	+26	+10.5	N42x1.5x9H DIN 5480	90	double bent (short; R=65 mm)		72506C
72509C	3071	74564	MAN	26	215						14	+45	+10	N42x1.5x9H DIN 5480	100	double bent (short; R=65 mm)		72508C
72517C	2752	74284	Volvo	10	145						12.7	0	0	SAE 1 1/2" 10 C	30	bent		
72521C	3185	74507	Sisu	10	145						14	-56	+4	SAE 1 1/2" 10 C	305	double bent (long; R=100 mm)		72522C
72522C	3186	74507	Sisu	10	145						14	+56	+4	SAE 1 1/2" 10 C	305	double bent (long; R=100 mm)		72521C
72523C	2760	74558	DAF	10	140						14	-38	0	SAE 1 1/2" 10 C	155	double bent (medium; R=78 mm)		72524C



72428C



72429C



72430C



72431C



72439C



72440C



72441C



72446C



72447C



72448C



72452C



72453C



72457C



72459C



72460C



72461C



72462C



72509C



72517C



72521C



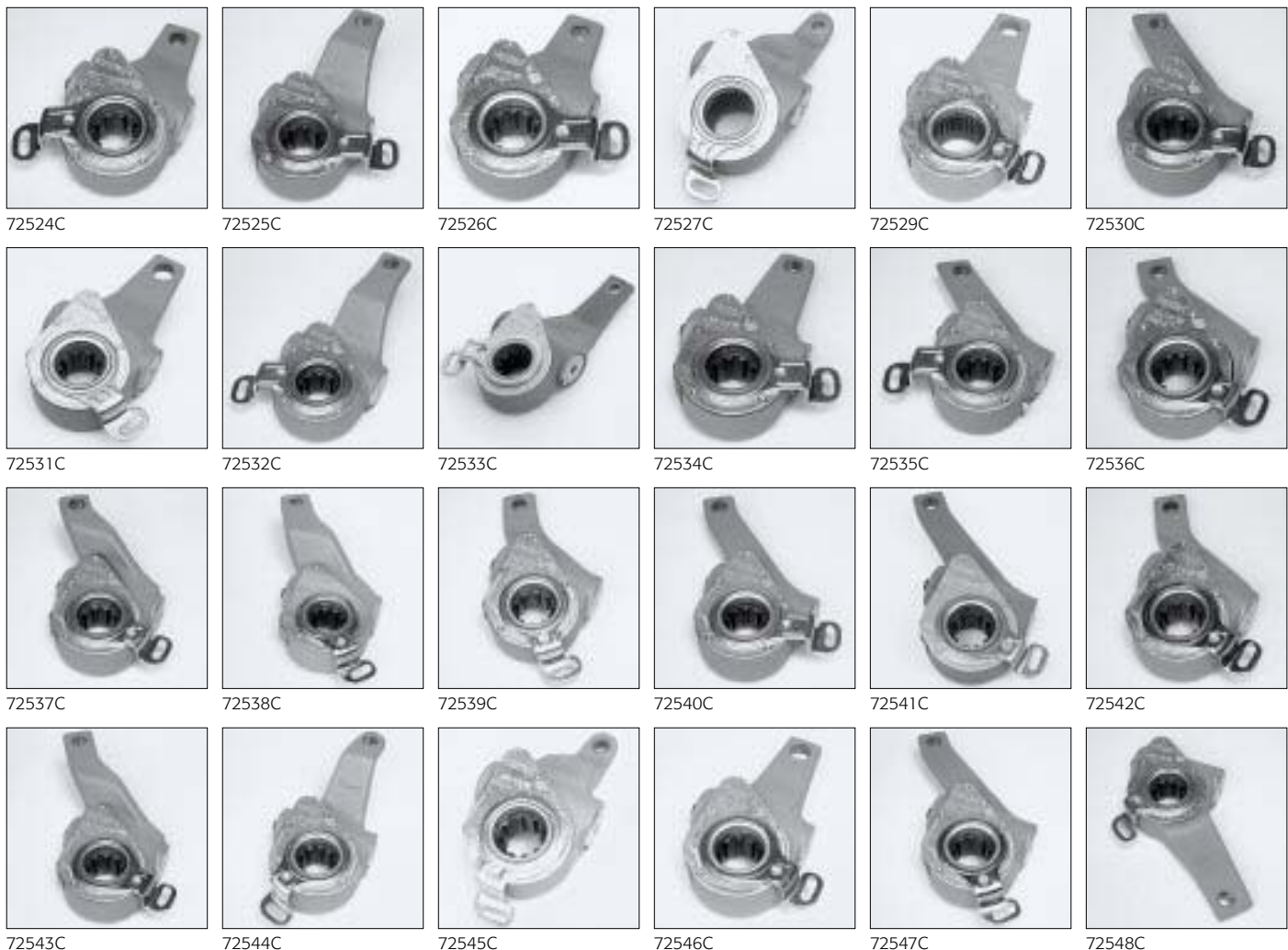
72522C



72523C

## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
					L1	L2	L3	L4	L5	L6	L7							
72524C	2761	74558	DAF	10	140							14	+38	0	SAE 1 1/2" 10 C	155	double bent (medium; R=78 mm)	72523C
72525C	2760	74555	DAF	10	140							14	-38	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	72526C
72526C	2761	74555	DAF	10	140							14	+38	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	72525C
72527C	3186	74556	DAF	26	143							14	+56	+4	N42x1.5x9H DIN 5480	83	double bent (short; R=65 mm)	72528C
72529C	2752	74557	DAF	26	140							w/o	0	0	N42x1.5x9H DIN 5480	0	double bent (short; R=65 mm)	
72530C	3226	74555	DAF	10	140							14	0	-38	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	
72531C	2752	74559	DAF	10	140							w/o	0	0	SAE 1 1/2" 10 C	15	double bent (short; R=65 mm)	
72532C	2760	74558	DAF	10	165							14	-38	0	SAE 1 1/2" 10 C	155	double bent (medium; R=78 mm)	72533C
72533C	2761	74558	DAF	10	165							14	+38	0	SAE 1 1/2" 10 C	155	double bent (medium; R=78 mm)	72532C
72534C	4104	74555	DAF	10	140							14	0	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	
72535C	3226	74558	DAF	10	140							14	0	-38	SAE 1 1/2" 10 C	155	double bent (medium; R=78 mm)	
72536C	2987	74557	DAF	10	140							14	+38	-34	SAE 1 1/2" 10 C	0	double bent (short; R=65 mm)	72537C
72537C	2985	74557	DAF	10	140							14	-38	-34	SAE 1 1/2" 10 C	0	double bent (short; R=65 mm)	72536C
72538C	4042	74560	DAF	10	165							14	-45	-30	SAE 1 1/2" 10 C	40	double bent (short; R=65 mm)	72539C
72539C	4043	74560	DAF	10	165							14	+45	-30	SAE 1 1/2" 10 C	40	double bent (short; R=65 mm)	72538C
72540C	3226	74555	DAF	10	165							14	0	-38	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	
72541C	3226	74557	DAF	10	165							14	0	-38	SAE 1 1/2" 10 C	0	double bent (short; R=65 mm)	
72542C	2987	74557	DAF	10	165							14	+38	-34	SAE 1 1/2" 10 C	0	double bent (short; R=65 mm)	72543C
72543C	2985	74557	DAF	10	165							14	-38	-34	SAE 1 1/2" 10 C	0	double bent (short; R=65 mm)	72542C
72544C	3185	74556	DAF	10	143							14	-56	+4	SAE 1 1/2" 10 C	83	double bent (short; R=65 mm)	72545C
72545C	3186	74556	DAF	10	143							14	+56	+4	SAE 1 1/2" 10 C	83	double bent (short; R=65 mm)	72544C
72546C	2752	74557	DAF	10	140							w/o	0	0	SAE 1 1/2" 10 C	0	double bent (short; R=65 mm)	
72547C	3226	74560	DAF	10	165							14	0	-38	SAE 1 1/2" 10 C	40	double bent (short; R=65 mm)	
72548C	3865	74561	DAF	10	140							14	0	+132.5	SAE 1 1/2" 10 C	120	double bent (short; R=65 mm)	



FOUNDATION BRAKE

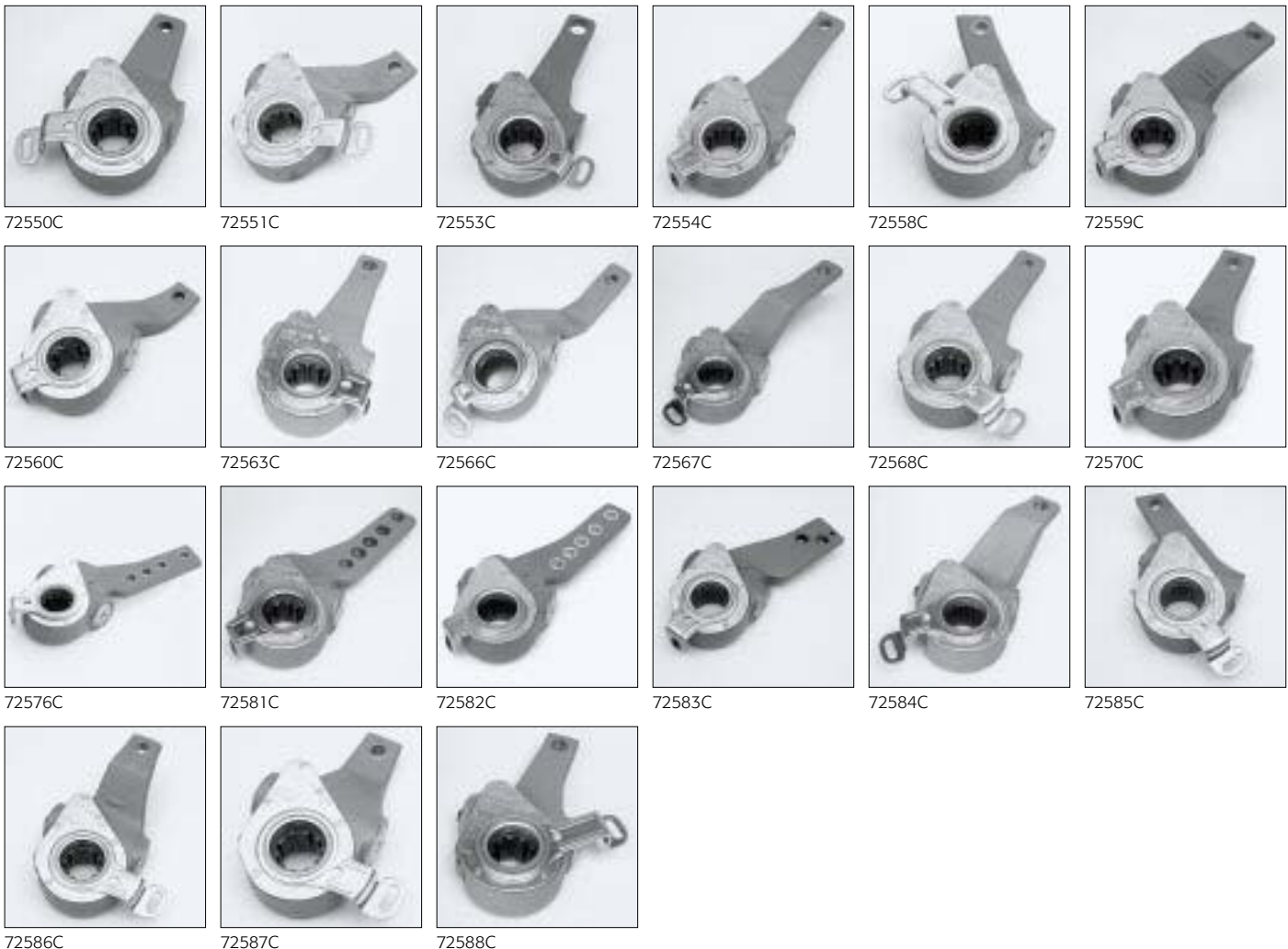
FOUNDATION BRAKE

FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7								
72550C	4104	74558	DAF	10	140							14	0	0	SAE 1 1/2" 10 C	155	double bent (medium; R=78 mm)		
72551C	2894	74555	DAF	10	143							14	+47.6	+22.5	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)		
72553C	4085	74557	DAF	10	165							w/o	0	0	SAE 1 1/2" 10 C	0	double bent (short; R=65 mm)		
72554C	2752	74401	SAF	10	203							14	0	0	SAE 1 1/2" 10 C	110	bent		
72558C	3226	74364	DAF	10	140							14	0	-38	SAE 1 1/2" 10 C	180	double bent (long; R=100 mm)		
72559C	2895	74145	Leyland	10	152							12.7	-47.6	+22.5	SAE 1 1/2" 10 C	130	bent		72560C
72560C	2894	74145	Leyland	10	152							12.7	+47.6	+22.5	SAE 1 1/2" 10 C	130	bent		72559C
72563C	2752	74443	Leyland	10	180							12.7	0	0	SAE 1 1/2" 10 C	0	bent		
72566C	2901	74580	Liaz	26	200							14	+60.3	+22.5	40x1.5 CSN 014950.1	113	double bent (short; R=65 mm)		72567C
72567C	2902	74580	Liaz	26	200							14	-60.3	+22.5	40x1.5 CSN 014950.1	113	double bent (short; R=65 mm)		72566C
72568C	4085	74262	Foden	10	165							12.7	0	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)		
72569C	4086	74570	Fruehauf	10	118							14	0	+20	SAE 1 1/2" 10 C	130	bent		*
72570C	2752	74298	Ajona	10	150							14	0	0	SAE 1 1/2"-10	130	bent		
72576C	4086	74570	SAF	10	203	165	140	115				14	0	+20	SAE 1 1/2" 10 C	130	bent		
72578C	2752	74689	MAN	26	145							14	0	0	N42x1.5x9H DIN 5480	118	double bent (short; R=65 mm)		
72581C	4086	74570	SAF	10	215	181	153	129	105			14	0	+20	SAE 1 1/2" 10 C	130	bent		●
72582C	4086	74298		26	215	181	153	129	105			12.7	0	+20	N42x1.5x9H DIN 5480	130	bent		
72583C	2901	74508	Temsa	25	145							14	+60.3	+22.5	JIS B 1602	144	double bent (medium; R=78 mm)		72584C
72584C	2902	74508	Temsa	25	145							14	-60.3	+22.5	JIS B 1602	144	double bent (medium; R=78 mm)		72583C
72585C	3226	74509	Temsa	25	135							14	0	-38	JIS B 1602	28	double bent (medium; R=78 mm)		
72586C	2760	74571	DAF	10	140							14	-38	0	SAE 1 1/2" 10 C	0	double bent (medium; R=78 mm)		72587C
72587C	2761	74571	DAF	10	140							14	+38	0	SAE 1 1/2" 10 C	0	double bent (medium; R=78 mm)		72586C
72588C	4085	74969	Leyland	10	152							12.7	0	0	SAE 1 1/2" 10 C	320	double bent (long; R=100 mm)		

\* Can use 790055

● Can use 800205

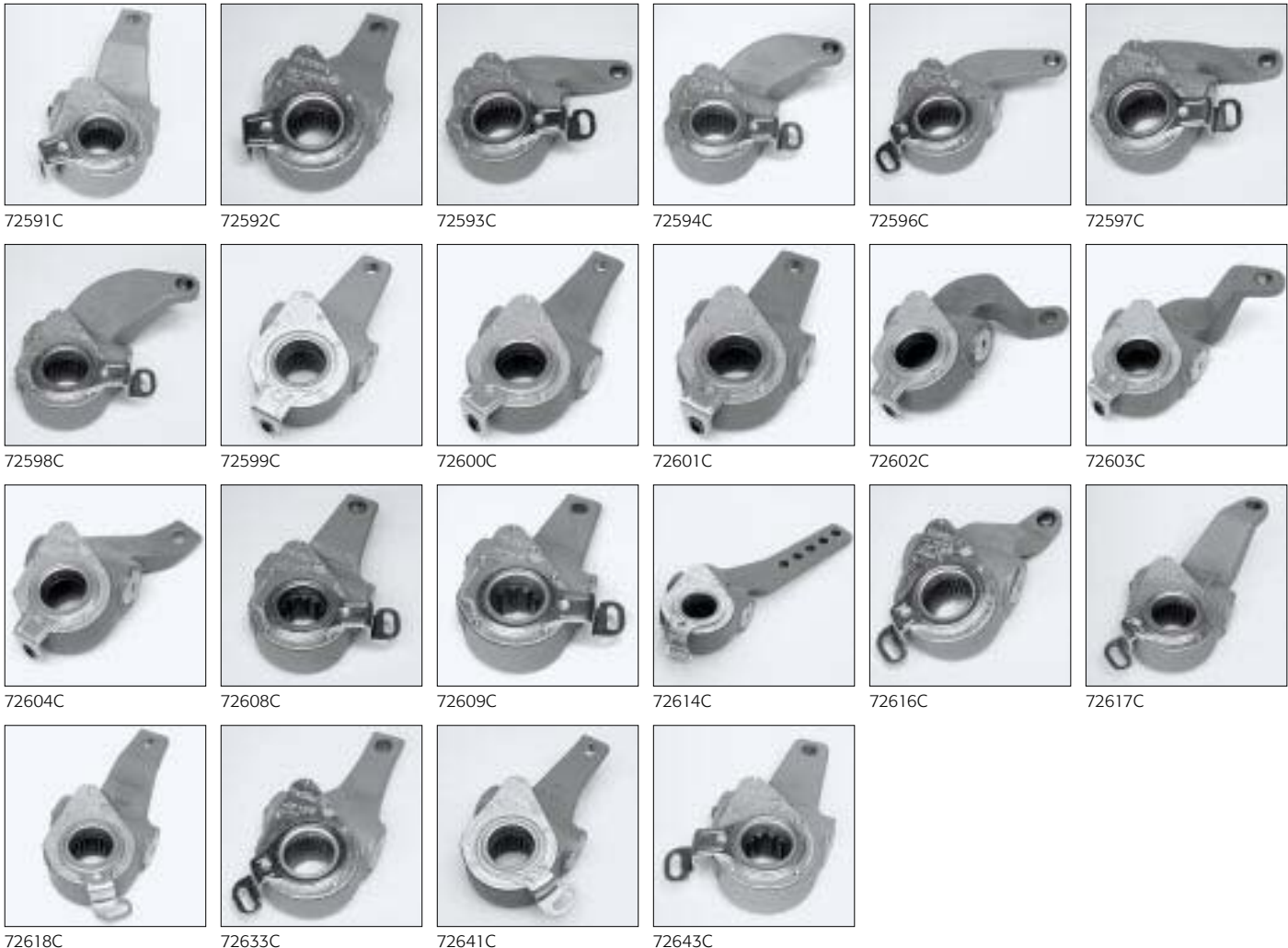




## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7								
72591C	2760	74485	Kässbohrer	19	150							14	-38	0	A38x34 DIN 5482	145	bent	72592C	
72592C	2761	74485	Kässbohrer	19	150							14	+38	0	A38x34 DIN 5482	145	bent	72591C	
72593C	4019	74881	D-C	26	145							14	+37	+34	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)	72594C	*
72594C	4018	74881	D-C	26	145							14	-37	+34	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)	72593C	●
72596C	3900	74885	D-C	26	145							14	0	+37	N42x1.5x9H DIN 5480	127	double bent (short; R=65 mm)		
72597C	4068	74801	D-C	26	145							14	+50	+34	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)	72598C	
72598C	4069	74801	D-C	26	145							14	-50	+34	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)	72597C	
72599C	4104	74412	Renault	33	140							14	0	0	PITCH 24/48	90	bent		
72600C	4085	74359	Renault	33	150							14	0	0	PITCH 24/48	100	bent		
72601C	4104	74412	Renault	33	127							14	0	0	PITCH 24/48	90	bent		
72602C	4004	74359	Renault	33	140							14	+60	+34.5	PITCH 24/48	100	bent	72603C	
72603C	4005	74359	Renault	33	140							14	-60	+34.5	PITCH 24/48	100	bent	72602C	
72604C	2894	74359	Renault	33	140							14	+47.6	+22.5	PITCH 24/48	100	bent	72605C	
72608C	2765	74555	DAF	10	140							14	-12.7	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	72609C	
72609C	2766	74555	DAF	10	140							14	+12.7	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	72608C	
72614C	4032	74855	Raba	20	250	225	200	175	150			14	0	+20	A40x36 DIN 5482	70	double bent (short; R=65 mm)		
72616C	3878	74802	D-C	26	145							14	+56	+15	N42x1.5x9H DIN 5480	123	double bent (short; R=65 mm)	72617C	◆
72617C	3879	74802	D-C	26	145							14	-56	+15	N42x1.5x9H DIN 5480	123	double bent (short; R=65 mm)	72616C	■
72618C	3068	74709	Pegaso	19	140							14	-28.5	0	A38x34 DIN 5482	24	double bent (short; R=65 mm)	72619C	
72633C	2761	74236	Renault	27	175							14	+38	0	BNA 227 D3.5	125	double bent (short; R=65 mm)	72634C	
72634C	2760	74236	Renault	27	175							14	-38	0	BNA 227 D3.5	125	double bent (short; R=65 mm)	72633C	
72641C	4085	74572	ZF/ Iveco Bus 490/ Bredamenarinibus	19	152							14	0	0	A38x34 DIN 5482	0	double bent (short; R=65 mm)		
72643C	4104	74469	Steyr	10	140							12.7	0	0	SAE 1 1/2" 10 C	155	double bent (medium; R=78 mm)		

- \* Can use 80008C
- Can use 80009C
- ◆ Can use 80001C
- Can use 80000C

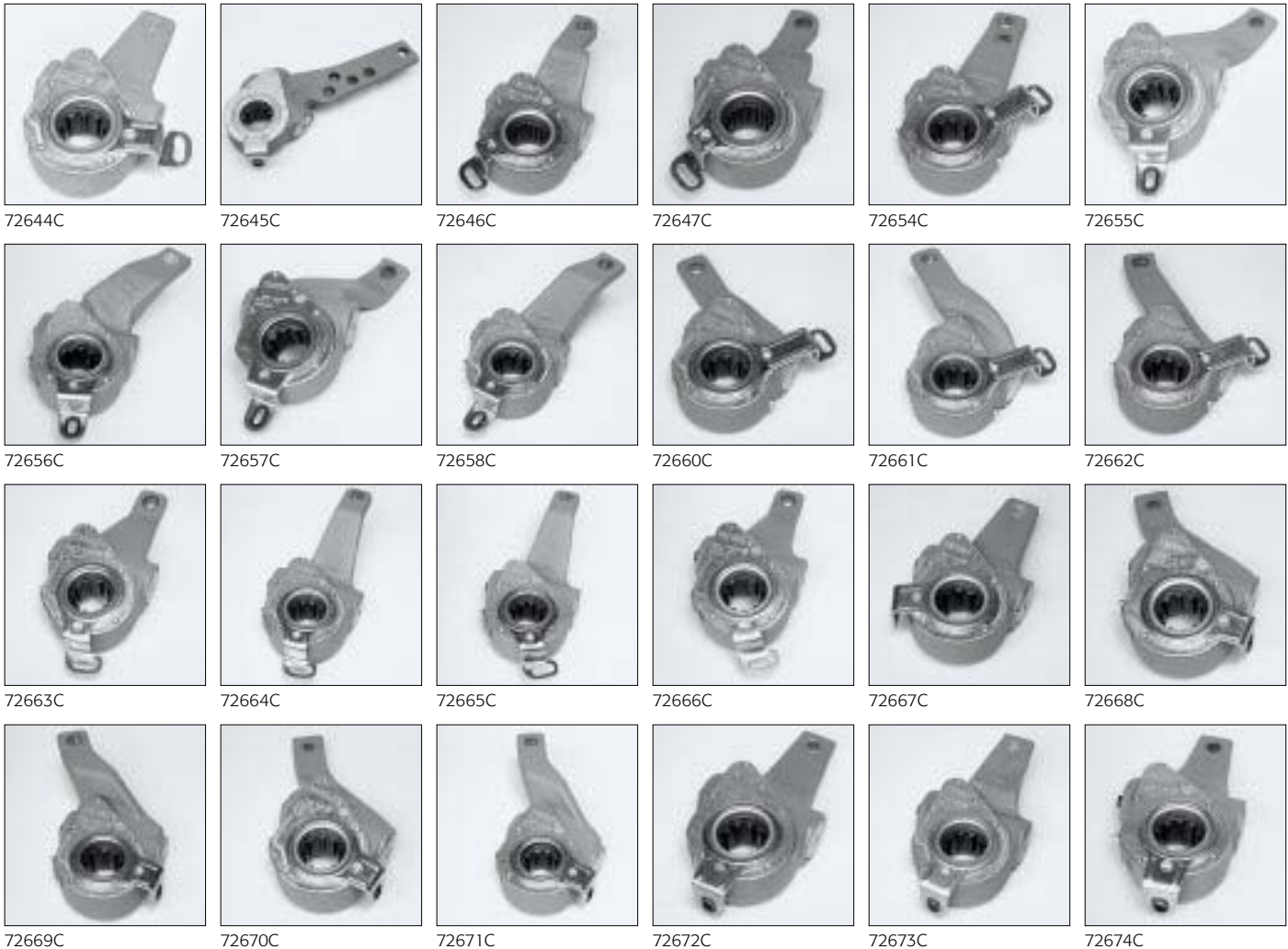


FOUNDATION BRAKE

FOUNDATION BRAKE

FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7								
72644C	4104	74365	Dennis	10	140							12.7	0	0	SAE 1 1/2" 10 C	340	double bent (medium; R=78 mm)		
72645C	4076	74511	SAF/BPW	10	250	180	130	110				14 (L1:w/b)	0	+20	SAE 1 1/2" 10 C	45	bent		
72646C	3068	74373	Van Hool	19	150							14	-28.5	0	A38x34 DIN 5482	120	double bent (short; R=65 mm)	72647C	
72647C	3069	74373	Van Hool	19	150							14	+28.5	0	A38x34 DIN 5482	120	double bent (short; R=65 mm)	72646C	
72651C	3897	74510	MAN	26	145							14	+50	+15	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)	72650C	
72654C	3891	74230	Scania	10	165	140						16	0	0	SAE 1 1/2" 10 C	308	double bent (long; R=100 mm)		
72655C	2894	74754	Scania	10	151							12.7	+47.6	+22.5	SAE 1 1/2" 10 C	76	double bent (short; R=65 mm)	72656C	
72656C	2895	74754	Scania	10	151							12.7	-47.6	+22.5	SAE 1 1/2" 10 C	76	double bent (short; R=65 mm)	72655C	
72657C	2901	74756	Scania	10	151							12.7	+60.3	+22.5	SAE 1 1/2" 10 C	98	double bent (short; R=65 mm)	72658C	
72658C	2902	74756	Scania	10	151							12.7	-60.3	+22.5	SAE 1 1/2" 10 C	98	double bent (short; R=65 mm)	72657C	
72660C	3662	74230	Scania	10	165							16	+25	-42	SAE 1 1/2" 10 C	308	double bent (long; R=100 mm)	72661C	
72661C	3663	74230	Scania	10	165							16	-25	-42	SAE 1 1/2" 10 C	308	double bent (long; R=100 mm)	72660C	
72662C	3226	74230	Scania	10	165							16	0	-38	SAE 1 1/2" 10 C	308	double bent (long; R=100 mm)		
72663C	3705	74229	Scania	10	165							16	+50	0	SAE 1 1/2" 10 C	73	double bent (short; R=65 mm)	72664C	
72664C	3704	74229	Scania	10	165							16	-50	0	SAE 1 1/2" 10 C	73	double bent (short; R=65 mm)	72663C	
72665C	3704	74232	Scania	10	165							16	-50	0	SAE 1 1/2" 10 C	58	double bent (short; R=65 mm)	72666C	
72666C	3705	74232	Scania	10	165							16	+50	0	SAE 1 1/2" 10 C	58	double bent (short; R=65 mm)	72665C	
72667C	4104	74966	Volvo	10	140							12.7	0	0	SAE 1 1/2" 10 C	150	bent		
72668C	2987	74444	Volvo	10	151							12.7	+38	-34	SAE 1 1/2" 10 C	0	bent	72669C	
72669C	2985	74444	Volvo	10	151							12.7	-38	-34	SAE 1 1/2" 10 C	0	bent	72668C	
72670C	2987	74444	Volvo	10	165							12.7	+38	-34	SAE 1 1/2" 10 C	0	bent	72671C	
72671C	2985	74444	Volvo	10	165							12.7	-38	-34	SAE 1 1/2" 10 C	0	bent	72670C	
72672C	2766	74402	Volvo	10	140							12.7	+12.7	0	SAE 1 1/2" 10 C	90	bent	72673C	
72673C	2765	74402	Volvo	10	140							12.7	-12.7	0	SAE 1 1/2" 10 C	90	bent	72672C	
72674C	2754	74402	Volvo	10	140							12.7	+22	0	SAE 1 1/2" 10 C	90	bent	72675C	

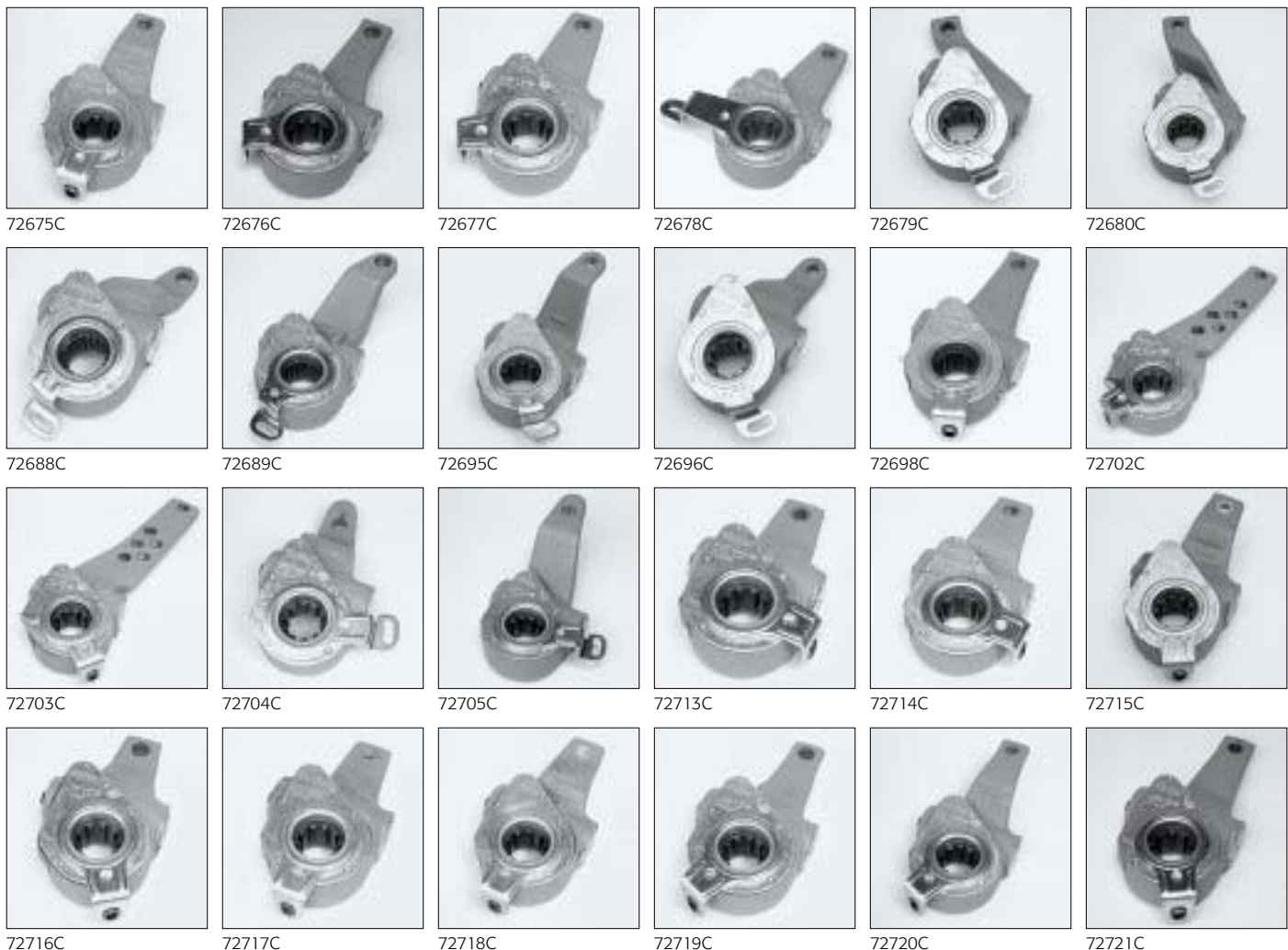


## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7								
72675C	2753	74402	Volvo	10	140							12.7	-22	0	SAE 1 1/2" 10 C	90	bent	72674C	
72676C	4085	74983	Volvo	10	152							12.7	0	0	SAE 1 1/2" 10 C	150	bent		
72677C	4104	74983	Volvo	10	140							12.7	0	0	SAE 1 1/2" 10 C	150	bent		
72678C	4104	74472	Volvo	10	140							12.7	0	0	SAE 1 1/2" 10 C	171.5	double bent (long; R=100 mm)		
72679C	2987	74608	DAF	10	140							14	+38	-34	SAE 1 1/2" 10 C	34	double bent (short; R=65 mm)	72680C	
72680C	2985	74608	DAF	10	140							14	-38	-34	SAE 1 1/2" 10 C	34	double bent (short; R=65 mm)	72679C	
72688C	3878	74475	ZF	19	145							14	+56	+15	A38x34 DIN 5482	100	double bent (short; R=65 mm)	72689C	
72689C	3879	74475	ZF	19	145							14	-56	+15	A38x34 DIN 5482	100	double bent (short; R=65 mm)	72688C	
72695C	3185	74189	DAF	10	143							14	-56	+4	SAE 1 1/2" 10 C	37	double bent (short; R=65 mm)	72696C	
72696C	3186	74189	DAF	10	143							14	+56	+4	SAE 1 1/2" 10 C	37	double bent (short; R=65 mm)	72695C	
72698C	2752	74926	Nishiiumi	19	150							12.7	0	0	A38x34 DIN 5482	70	bent		
72702C	4076	74632	SAF	10	250	180	155	140	125	105		14	0	+20	SAE 1 1/2" 10 C	130	bent		*
72703C	4076	74633	BPW	10	250	180	165	150	135	120		14	0	+20	SAE 1 1/2" 10 C	50	bent		●
72704C	4077	74555	DAF	10	145							14	+60	-10	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	72705C	
72705C	4078	74555	DAF	10	145							14	-60	-10	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	72704C	
72710C	2752	74692	SAF	10	210	180	150	125				14	0	0	SAE 1 1/2" 10 C	45	double bent (short; R=65 mm)		
72713C	2766	74447	Volvo	10	127							12.7	+12.7	0	SAE 1 1/2" 10 C	5	bent	72714C	
72714C	2765	74447	Volvo	10	127							12.7	-12.7	0	SAE 1 1/2" 10 C	5	bent	72713C	
72715C	2753	74920	Volvo	10	133							12.7	-22	0	SAE 1 1/2" 10 C	60	bent	72716C	
72716C	2754	74920	Volvo	10	133							12.7	+22	0	SAE 1 1/2" 10 C	60	bent	72715C	
72717C	2766	74402	Volvo	10	127							12.7	+12.7	0	SAE 1 1/2" 10 C	90	bent	72718C	
72718C	2765	74402	Volvo	10	127							12.7	-12.7	0	SAE 1 1/2" 10 C	90	bent	72717C	
72719C	2754	74419	Volvo	10	159							12.7	+22	0	SAE 1 1/2" 10 C	110	bent	72720C	
72720C	2753	74419	Volvo	10	159							12.7	-22	0	SAE 1 1/2" 10 C	110	bent	72719C	
72721C	2766	74921	Volvo	10	159							12.7	+12.7	0	SAE 1 1/2" 10 C	60	bent	72722C	

\* Can use 80022S

● Can use 80020S



### FOUNDATION BRAKE

FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)		control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7									
72722C	2765	74921	Volvo	10	159							12.7	-12.7	0	SAE 1 1/2" 10 C	60	bent		72721C	
72723C	3861	74448	Volvo	10	134							12.7	+15	-24	SAE 1 1/2" 10 C	5	bent		72724C	
72724C	3860	74448	Volvo	10	134							12.7	-15	-24	SAE 1 1/2" 10 C	5	bent		72723C	
72725C	4104	74402	Volvo	10	127							12.7	0	0	SAE 1 1/2" 10 C	90	bent			
72726C	4085	74472	Volvo	10	152							12.7	0	0	SAE 1 1/2" 10 C	171.5	double bent (long; R=100 mm)			
72727C	2771	74390	Scania	10	130							16	+16	+22.5	SAE 1 1/2" 10 C	92	double bent (short; R=65 mm)		72728C	
72728C	2772	74390	Scania	10	130							16	-16	+22.5	SAE 1 1/2" 10 C	92	double bent (short; R=65 mm)		72727C	
72729C	3884	74499	Scania	10	130							16	+35	0	SAE 1 1/2" 10 C	62	double bent (short; R=65 mm)		72730C	
72730C	3883	74499	Scania	10	130							16	-35	0	SAE 1 1/2" 10 C	62	double bent (short; R=65 mm)		72729C	
72731C	3163	74512	MAN	26	130							14	-18	+34	N42x1.5x9H DIN 5480	53	double bent (short; R=65 mm)		72732C	
72732C	3162	74512	MAN	26	130							14	+18	+34	N42x1.5x9H DIN 5480	53	double bent (short; R=65 mm)		72731C	
72733C	4032	74611	Gonca	8	250	180	155	125				14	0	+20	32 UNI 222	105	bent			
72742C	3658	74622	Tatra	36	275							16	-97	0	A30x34 DIN 5481	110	double bent (short; R=65 mm)		72743C	
72743C	3659	74622	Tatra	36	275							16	+97	0	A30x34 DIN 5481	110	double bent (short; R=65 mm)		72742C	
72744C	2987	74453	Scania	10	165							16	+38	-34	SAE 1 1/2" 10 C	305	double bent (long; R=100 mm)		72745C	
72745C	2985	74453	Scania	10	165							16	-38	-34	SAE 1 1/2" 10 C	305	double bent (long; R=100 mm)		72744C	
72746C	2772	74758	Scania	10	130							12.7	-16	+22.5	SAE 1 1/2" 10 C	102	double bent (short; R=65 mm)		72747C	
72747C	2771	74758	Scania	10	130							12.7	+16	+22.5	SAE 1 1/2" 10 C	102	double bent (short; R=65 mm)		72746C	
72750C	4085	74597	Pegaso	19	160							14	0	0	A38x34 DIN 5482	155	double bent (short; R=65 mm)			
72751C	2901	74966	SAE	10	180	150						14	+60.3	+22.5	SAE 1 1/2" 10 C	150	bent			
72752C	2902	74966	SAE	10	180	150						14	-60.3	+22.5	SAE 1 1/2" 10 C	150	bent			
72758C	4076	74807	Kässbohrer	37	250	180	165	150	135	120		14 (L1:w/o)	0	+20	A36x40 DIN 5481	110	bent			
72759C	2754	74378	Tatra	36	140							14	+22	0	A30x34 DIN 5481	115	double bent (short; R=65 mm)		72760C	
72760C	2753	74378	Tatra	36	140							14	-22	0	A30x34 DIN 5481	115	double bent (short; R=65 mm)		72759C	
72761C	2985	74608	DAB	19	140							14	-38	-34	A38x34 DIN 5482	34	double bent (short; R=65 mm)		72762C	
72763C	4076	74422	SAF	10	250	180	165	150	135	120		14	0	+20	SAE 1 1/2" 10 C	110	bent			*
72768C	4085	74784		25	150							16	0	0	JIS B 1602	40	double bent (short; R=65 mm)			

\* Can use 80019S



72722C



72723C



72724C



72725C



72726C



72727C



72728C



72729C



72730C



72733C



72742C



72743C



72744C



72745C



72746C



72747C



72751C



72752C



72758C



72759C



72760C



72761C



72763C



72768C

## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7								
72769C	2752	74412		28	140							12.7	0	0	SAE 1 7/16" 28 C	90	bent		
72778C	3226	74704	Hyundai	10	145							16	0	-38	SAE 1 1/2" 10 C	22	double bent (short; R=65 mm)		
72779C	3226	74705	Hyundai	10	135							16	0	-38	SAE 1 1/2" 10 C	352	double bent (short; R=65 mm)		
72782C	3861	74448	Volvo	10	145							12.7	+15	-24	SAE 1 1/2" 10 C	5	bent		72783C
72783C	3860	74448	Volvo	10	145							12.7	-15	-24	SAE 1 1/2" 10 C	5	bent		72782C
72784C	4039	74448	Volvo	10	165							12.7	+15	-24	SAE 1 1/2" 10 C	5	bent		72785C
72785C	4038	74448	Volvo	10	165							12.7	-15	-24	SAE 1 1/2" 10 C	5	bent		72784C
72788D	4097	74808	ROR	10	205	153	140	127	115			14	0	+20	SAE 1 1/2" 10 C	60	saddle type		*
72788S	4097	74808	ROR	10	205	153	140	127	115			14	0	+20	SAE 1 1/2" 10 C	60	saddle type		●
72791C	2754	74921		10	159							12.7	+22	0	SAE 1 1/2" 10 C	60	bent		72792C
72792C	2753	74921		10	159							12.7	-22	0	SAE 1 1/2" 10 C	60	bent		72791C
72794C	4077	74555	DAF	10	165							14	+60	-10	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)		72795C
72795C	4078	74555	DAF	10	165							14	-60	-10	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)		72794C
72802C	3068	74710	Iveco Pegaso	19	160							14	-28.5	0	A38x34 DIN 5482	155	double bent (short; R=65 mm)		72803C
72803C	3069	74710	Iveco Pegaso	19	160							14	+28.5	0	A38x34 DIN 5482	155	double bent (short; R=65 mm)		72802C
72804C	4085	74709	Iveco Pegaso	19	160							14	0	0	A38x34 DIN 5482	24	double bent (short; R=65 mm)		
72805C	2761	74907		10	152							12.7	+38	0	SAE 1 1/2" 10 C	30	bent		72806C
72806C	2760	74907		10	152							12.7	-38	0	SAE 1 1/2" 10 C	30	bent		72805C
72809C	3163	74768	D-C	26	130							14	-18	+34	N42x1.5x9H DIN 5480	103	double bent (short; R=65 mm)		72810C
72810C	3162	74768	D-C	26	130							14	+18	+34	N42x1.5x9H DIN 5480	103	double bent (short; R=65 mm)		72809C
72811C	3163	74512	D-C	26	130							14	-18	+34	N42x1.5x9H DIN 5480	53	double bent (short; R=65 mm)		72812C
72812C	3162	74512	D-C	26	130							14	+18	+34	N42x1.5x9H DIN 5480	53	double bent (short; R=65 mm)		72811C
72815C	2760	74427	DAF	10	140							14	-38	0	SAE 1 1/2" 10 C	75	bent		72816C
72816C	2761	74427	DAF	10	140							14	+38	0	SAE 1 1/2" 10 C	75	bent		72815C
72817C	4085	74814	Jimecal	10	150	125						14	0	0	SAE 1 1/2" 10 C	15	double bent (short; R=65 mm)		

\* Can use 80020D

● Can use 80020S



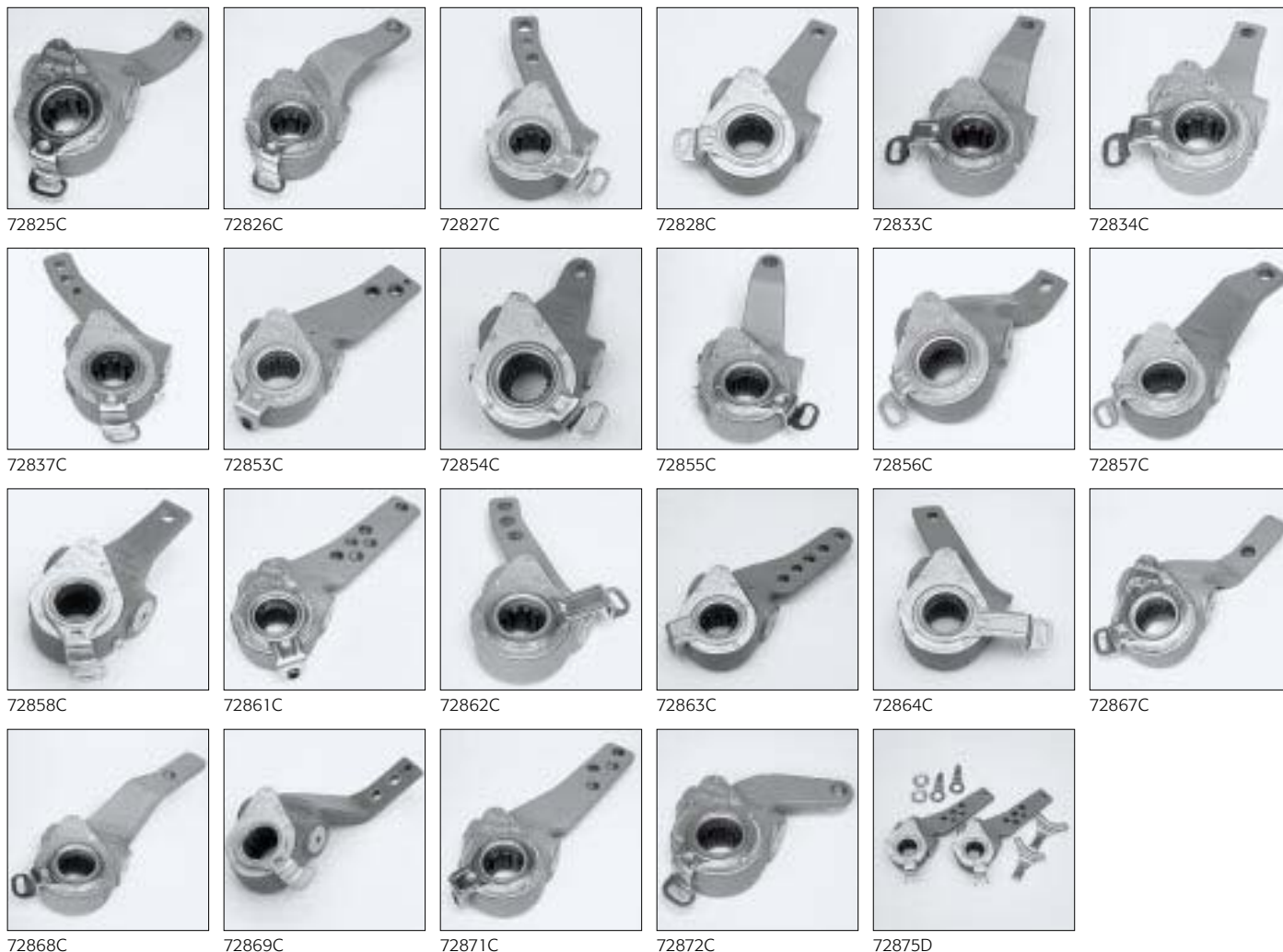
72817C

### FOUNDATION BRAKE

FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7								
72821C	3068	74699		10	152							14	-28.5	0	SAE 1 1/2" 10 C	120	bent		
72825C	4040	74235	Scania	10	165							16	+50	+22	SAE 1 1/2" 10 C	84	double bent (short; R=65 mm)	72826C	
72826C	4041	74235	Scania	10	165							16	-50	+22	SAE 1 1/2" 10 C	84	double bent (short; R=65 mm)	72825C	
72827C	3226	74718	SAF	10	178	152	127					14 (L1: w/o)	0	-38	SAE 1 1/2" 10 C	352	double bent (medium; R=78 mm)		
72828C	4085	74710	Iveco Pegaso	19	160							14	0	0	A38x34 DIN 5482	155	double bent (short; R=65 mm)		
72833C	3068	74558	DAF	10	165							14	-28.5	0	SAE 1 1/2" 10 C	155	double bent (medium; R=78 mm)	72834C	
72834C	3069	74558	DAF	10	165							14	+28.5	0	SAE 1 1/2" 10 C	155	double bent (medium; R=78 mm)	72833C	
72837C	3226	74374	SAE	10	178	153						14	0	-38	SAE 1 1/2" 10 C	63	double bent (short; R=65 mm)		
72853C	4097	74720	Ikarus	20	175	155						14	0	+20	A40x36 DIN 5482	95	bent		
72854C	3893	74684	ZF	19	145							14	+56	-5	A38x34 DIN 5482	7	double bent (short; R=65 mm)	72855C	
72855C	3892	74684	ZF	19	145							14	-56	-5	A38x34 DIN 5482	7	double bent (short; R=65 mm)	72854C	
72856C	2901	74723	Daewoo	25	150							16	+60.3	+22.5	JIS B 1602	130	double bent (short; R=65 mm)	72857C	
72857C	2902	74723	Daewoo	25	150							16	-60.3	+22.5	JIS B 1602	130	double bent (short; R=65 mm)	72856C	
72858C	4085	74784	Daewoo	25	150							16	0	0	JIS B 1602	40	double bent (short; R=65 mm)		
72861C	4076	74970	Stadtwerke Lausanne	36	250	180	165	150	135	120		14	0	+20	A30x34 DIN 5481	50	bent		
72862C	3226	74725	Ruthmann	10	178	152	127					14	0	-38	SAE 1 1/2" 10 C	302	double bent (long; R=100 mm)		
72863C	4032	74570	SAF	10	215	181	153	129	105			14	0	+20	SAE 1 1/2" 10 C	130	bent		
72864C	3226	74731	Foden	28	140							12.7	0	-38	SAE 1 1/2" 28 C	340	double bent (long; R=100 mm)		
72865C	2752	74613	MAN	26	145							14	0	0	N42x1.5x9H DIN 5480	135	double bent (short; R=65 mm)		
72867C	2901	74620	Liaz	26	160							14	+60.3	+22.5	40x1.5 CSN 014950.1	142	double bent (short; R=65 mm)	72868C	
72868C	2902	74620	Liaz	26	160							14	-60.3	+22.5	40x1.5 CSN 014950.1	142	double bent (short; R=65 mm)	72867C	
72869C	2901	74614	SAE	10	180	150						14	+60.3	+22.5	SAE 1 1/2" 10 C	0	double bent (short; R=65 mm)	72870C	
72870C	2902	74614	SAE	10	180	150						14	-60.3	+22.5	SAE 1 1/2" 10 C	0	double bent (short; R=65 mm)	72869C	
72871C	4076	74570	Babelsberger	8	250	220	200	170				14	0	+20	32 UNI 222	130	bent		
72872C	3900	74474	ZF	19	145							14	0	+37	A38x34 DIN 5482	103	double bent (short; R=65 mm)		
72875D	4076	74616	BPW	10	250	180	165	150	135	120		14	0	+20	SAE 1 1/2" 10 C	50	saddle type		*

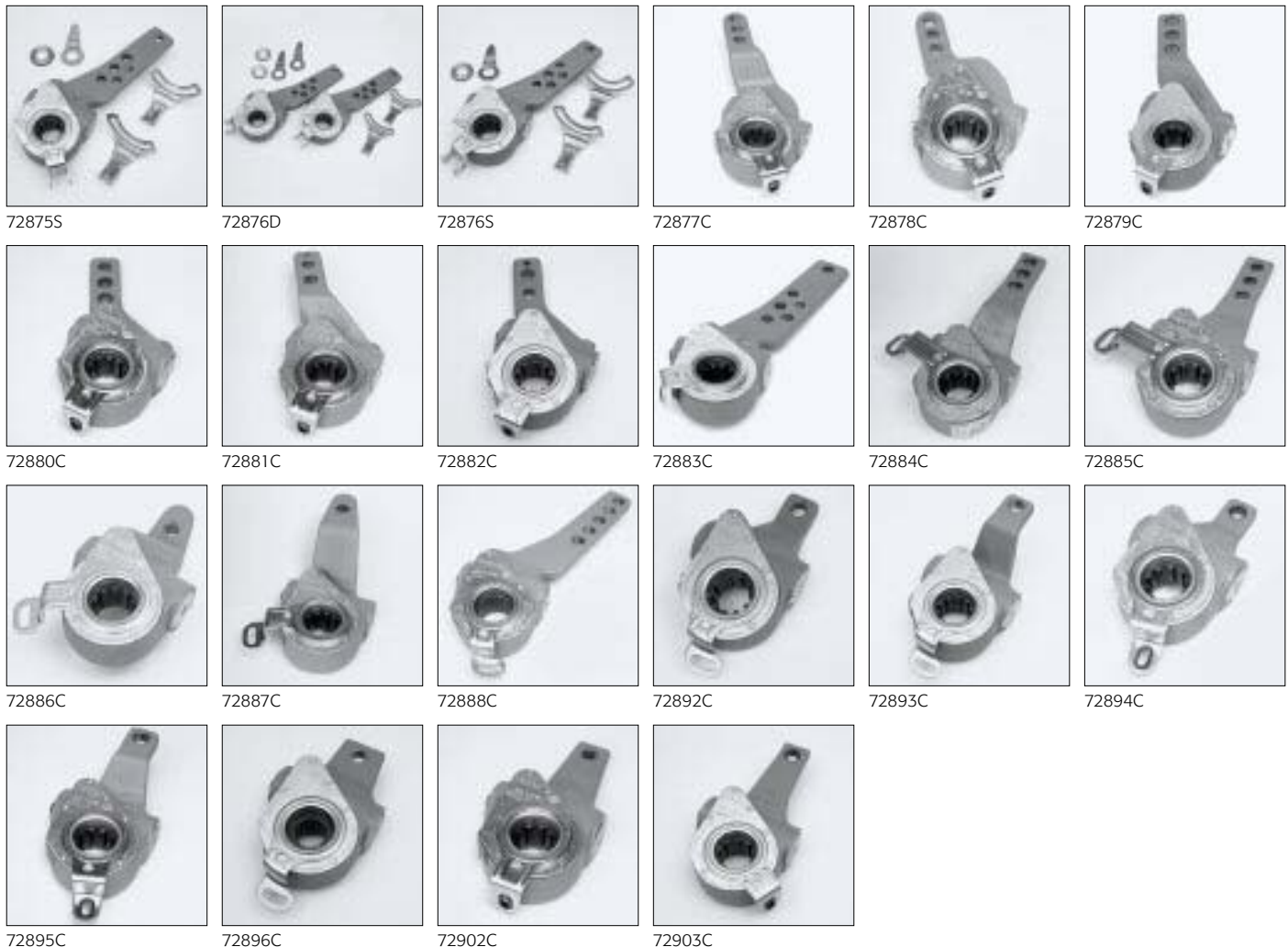
\* Can use 80019D



## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth							bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
				L1	L2	L3	L4	L5	L6	L7								
72875S	4076	74616	BPW	10	250	180	165	150	135	120	14	0	+20	SAE 1 1/2" 10 C	50	saddle type		*
72876D	4076	74617	BPW	10	250	180	165	150	135	120	14	0	+20	SAE 1 1/2" 10 C	110	saddle type		●
72876S	4076	74617	BPW	10	250	180	165	150	135	120	14	0	+20	SAE 1 1/2" 10 C	110	saddle type		❖
72877C	4006	74915	BPW	10	200	176	152				14 (L1: w/o)	-39	-35	SAE 1 1/2" 10 C	45	bent	72878C	
72878C	4007	74915	BPW	10	200	176	152				14 (L1: w/o)	+39	-35	SAE 1 1/2" 10 C	45	bent	72877C	
72879C	3863	74412	BPW	10	178	152	127				14	-25	-30	SAE 1 1/2" 10 C	90	bent		
72880C	3864	74412	BPW	10	178	152	127				14	+25	-30	SAE 1 1/2" 10 C	90	bent		
72881C	3863	74412	BPW	10	165	135					14	-25	-30	SAE 1 1/2" 10 C	90	bent	72882C	
72882C	3864	74412	BPW	10	165	135					14	+25	-30	SAE 1 1/2" 10 C	90	bent	72881C	
72883C	4076	74460	BPW	10	250	180	165	150	135	120	14	0	+20	SAE 1 1/2" 10 C	150	bent		
72884C	3068	74891	BPW	10	198	173	148				14	-28.5	0	SAE 1 1/2" 10 C	188	double bent (long; R=100 mm)		
72885C	3069	74891	BPW	10	198	173	148				w/o (L1: 14)	+28.5	0	SAE 1 1/2" 10 C	188	double bent (long; R=100 mm)		
72886C	4077	74618	DAF	10	145						14	+60	-10	SAE 1 1/2" 10 C	145	double bent (medium; R=78 mm)	72887C	
72887C	4078	74618	DAF	10	145						14	-60	-10	SAE 1 1/2" 10 C	145	double bent (medium; R=78 mm)	72886C	
72888C	4032	74855	Panav	20	250	225	200	175	150		14	0	+20	A40x36 DIN 5482	70	double bent (short; R=65 mm)		
72892C	4051	74505	Scania	10	130						16	+50	0	SAE 1 1/2" 10 C	84	double bent (short; R=65 mm)	72893C	
72893C	4050	74505	Scania	10	130						16	-50	0	SAE 1 1/2" 10 C	84	double bent (short; R=65 mm)	72892C	
72894C	3884	74760	Scania	10	130						16	+35	0	SAE 1 1/2" 10 C	73	double bent (short; R=65 mm)		
72895C	3883	74760	Scania	10	130						16	-35	0	SAE 1 1/2" 10 C	73	double bent (short; R=65 mm)		
72896C	4104	74619	Star	18	102						14	0	0	N30x1.5x9H DIN 5480	90	double bent (short; R=65 mm)		
72901C	2765	74404	Volvo	10	140						12.7	-12.7	0	SAE 1 1/2" 10 C	90	bent	72902C	
72902C	2766	74404	Volvo	10	140						12.7	+12.7	0	SAE 1 1/2" 10 C	90	bent	72901C	
72903C	4085	74907	Volvo	10	152						16	0	0	SAE 1 1/2" 10 C	30	bent		
72904C	2761	74907	Volvo	10	165						12.7	+38	0	SAE 1 1/2" 10 C	30	bent	72914C	

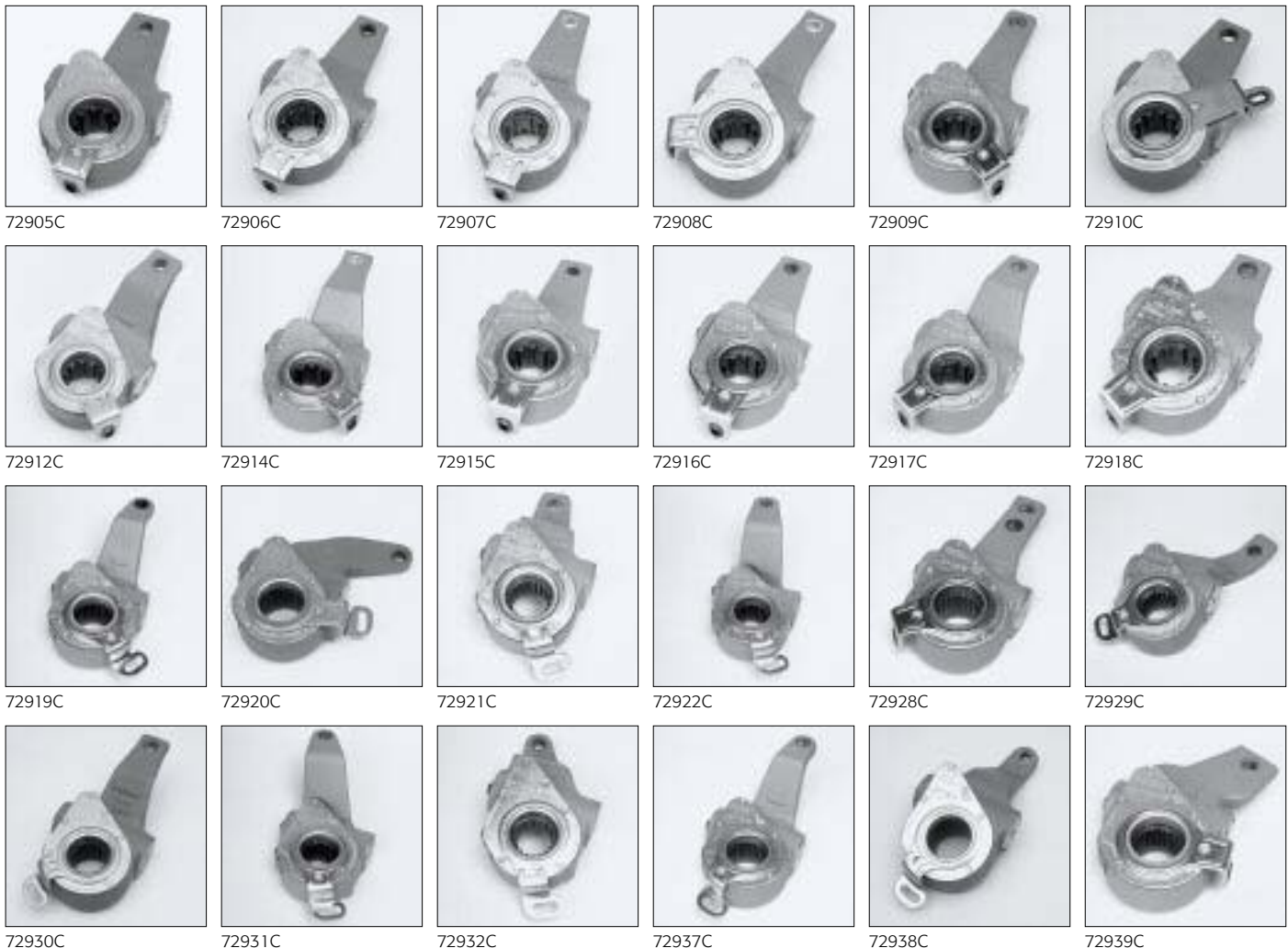
- \* Can use 80019S
- Can use 80019D
- ❖ Can use 80019S



FOUNDATION BRAKE

FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)		control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7									
72905C	2752	74404	Volvo	10	127							12.7	0	0	SAE 1 1/2" 10 C	90	bent			
72906C	2766	74402	Volvo	10	140							12.7	+12.7	0	SAE 1 1/2" 10 C	90	bent			72907C
72907C	2765	74402	Volvo	10	140							12.7	-12.7	0	SAE 1 1/2" 10 C	90	bent			72906C
72908C	4085	74958	Volvo	10	152							12.7	0	0	SAE 1 1/2" 10 C	150	bent			
72909C	4085	74908	Volvo	10	165							16	0	0	SAE 1 1/2" 10 C	30	bent			
72910C	4104	74453	Scania	10	130							16	0	0	SAE 1 1/2" 10 C	305	double bent (long; R=100 mm)			
72912C	2760	74907	Volvo	10	140							12.7	-38	0	SAE 1 1/2" 10 C	30	bent			72911C
72913C	4085	74907	Volvo	10	165							16	0	0	SAE 1 1/2" 10 C	30	bent			
72914C	2760	74907	Volvo	10	165							12.7	-38	0	SAE 1 1/2" 10 C	30	bent			72904C
72915C	2766	74412	Volvo	10	140							12.7	+12.7	0	SAE 1 1/2" 10 C	90	bent			72916C
72916C	2765	74412	Volvo	10	140							12.7	-12.7	0	SAE 1 1/2" 10 C	90	bent			72915C
72917C	2760	74422	ROR	10	140							14	-38	0	SAE 1 1/2" 10 C	110	bent			72918C
72918C	2761	74422	ROR	10	140							14	+38	0	SAE 1 1/2" 10 C	110	bent			72917C
72919C	3185	74621	D-C	26	145							14	-56	+4	N42x1.5x9H DIN 5480	30	double bent (short; R=65 mm)			72920C
72920C	3186	74621	D-C	26	145							14	+56	+4	N42x1.5x9H DIN 5480	30	double bent (short; R=65 mm)			72919C
72921C	4077	74778	Van Hool	19	152							14	+60	-10	A38x34 DIN 5482	50	double bent (short; R=65 mm)			72922C
72922C	4078	74778	Van Hool	19	152							14	-60	-10	A38x34 DIN 5482	50	double bent (short; R=65 mm)			72921C
72928C	4085	74164	Raba	20	155	127						14	0	0	A40x36 DIN 5482	135	bent			
72929C	4040	74628	ZF	19	152							14	+50	+22	A38x34 DIN 5482	142	double bent (short; R=65 mm)			72930C
72930C	3068	74373	ZF	19	152							14	-28.5	0	A38x34 DIN 5482	120	double bent (short; R=65 mm)			72929C
72931C	4016	74680	ZF	19	145							14	-63	-20	A38x34 DIN 5482	59	double bent (short; R=65 mm)			72932C
72932C	4017	74680	ZF	19	145							14	+63	-20	A38x34 DIN 5482	59	double bent (short; R=65 mm)			72931C
72937C	3185	74787	Foden/Sisu	26	145							14	-56	+4	N42x1.5x9H DIN 5480	101	double bent (short; R=65 mm)			72938C
72938C	3186	74787	Foden/Sisu	26	145							14	+56	+4	N42x1.5x9H DIN 5480	101	double bent (short; R=65 mm)			72937C
72939C	4086	74963	Foden	28	127							12.7	0	+20	SAE 1 1/2" 28 C	355	bent			
72942C	2754	74921		10	140							12.7	+22	0	SAE 1 1/2" 10 C	60	bent			72943C
72943C	2753	74921		10	140							12.7	-22	0	SAE 1 1/2" 10 C	60	bent			72942C

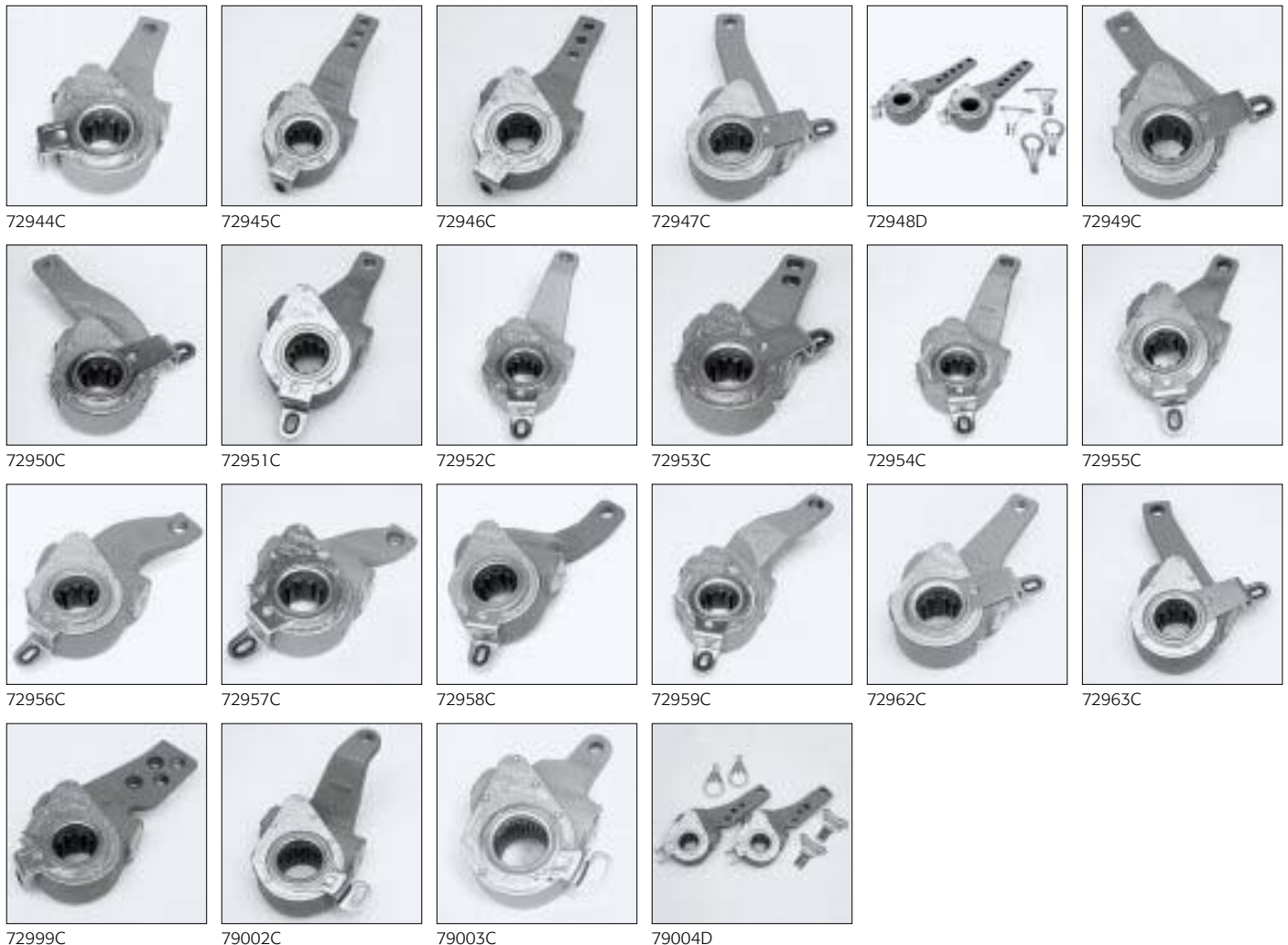




## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
					L1	L2	L3	L4	L5	L6	L7							
72944C	4085	74966	Volvo	10	152							12.7	0	0	SAE 1 1/2" 10 C	150	bent	
72945C	3068	74412	BPW	10	198	173	148					14	-28.5	0	SAE 1 1/2" 10 C	90	bent	
72946C	3069	74412	BPW	10	198	173	148					w/o (L1: 14)	+28.5	0	SAE 1 1/2" 10 C	90	bent	
72947C	3226	74453	BPW	10	180							16	0	-38	SAE 1 1/2" 10 C	305	double bent (long; R=100 mm)	
72948D	4032	74635	SAF	10	250	210	180	150	125			14	0	+20	SAE 1 1/2" 10 C	130	saddle type	*
72948S	4032	74635	SAF	10	250	210	180	150	125			14	0	+20	SAE 1 1/2" 10 C	130	saddle type	●
72949C	3662	74455	Scania	10	165							16	+25	-42	SAE 1 1/2" 10 C	310	double bent (long; R=100 mm)	72950C
72950C	3663	74455	Scania	10	165							16	-25	-42	SAE 1 1/2" 10 C	310	double bent (long; R=100 mm)	72949C
72951C	3705	74760	Scania	10	165							16	+50	0	SAE 1 1/2" 10 C	73	double bent (short; R=65 mm)	72952C
72952C	3704	74760	Scania	10	165							16	-50	0	SAE 1 1/2" 10 C	73	double bent (short; R=65 mm)	72951C
72953C	3891	74453	Scania	10	165	140						16	0	0	SAE 1 1/2" 10 C	305	double bent (long; R=100 mm)	
72954C	3704	74761	Scania	10	165							16	-50	0	SAE 1 1/2" 10 C	58	double bent (short; R=65 mm)	72955C
72955C	3705	74761	Scania	10	165							16	+50	0	SAE 1 1/2" 10 C	58	double bent (short; R=65 mm)	72954C
72956C	2772	74758	Scania	10	130							16	-16	+22.5	SAE 1 1/2" 10 C	102	double bent (short; R=65 mm)	72957C
72957C	2771	74758	Scania	10	130							16	+16	+22.5	SAE 1 1/2" 10 C	102	double bent (short; R=65 mm)	72956C
72958C	4040	74367	Scania	10	165							16	+50	+22	SAE 1 1/2" 10 C	80	double bent (short; R=65 mm)	72959C
72959C	4041	74367	Scania	10	165							16	-50	+22	SAE 1 1/2" 10 C	80	double bent (short; R=65 mm)	72958C
72962C	4085	74453	Scania	10	165							16	0	0	SAE 1 1/2" 10 C	305	double bent (long; R=100 mm)	
72963C	3226	74453	Scania	10	165							16	0	-38	SAE 1 1/2" 10 C	305	double bent (long; R=100 mm)	
72999C	4097	74632	Norwegian Defense	10	155	141	125	106				14	0	+20	SAE 1 1/2" 10 C	130	bent	
79002C	3185	74736	Sisu	26	145							14	-56	+4	N42x1.5x9H DIN 5480	355	double bent (short; R=65 mm)	79003C
79003C	3186	74736	Sisu	26	145							14	+56	+4	N42x1.5x9H DIN 5480	355	double bent (short; R=65 mm)	79002C
79004D	4086	74635	SMB	10	215	153	129	105				14 (L1: 16)	0	+20	SAE 1 1/2" 10 C	130	saddle type	◆

- \* Can use 80022D
- Can use 80022S
- ◆ Can use 80023D

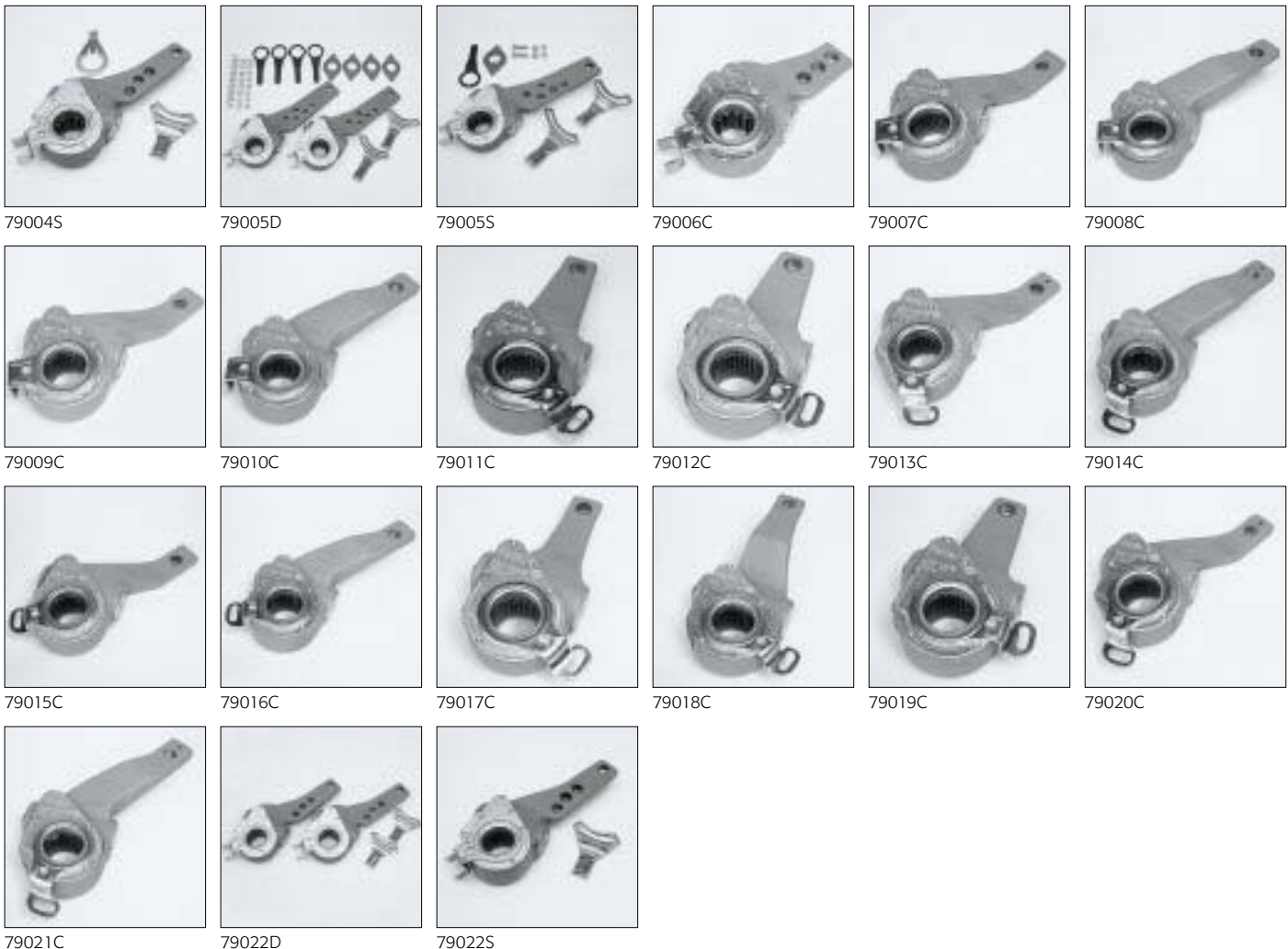


FOUNDATION BRAKE

FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7								
79004S	4086	74635	SMB	10	215	153	129	105				14 (L1: 16)	0	+20	SAE 1 1/2" 10 C	130	saddle type		*
79005D	4076	74635	SAF	10	250	180	155	140	125	105		14	0	+20	SAE 1 1/2" 10 C	130	saddle type		●
79005S	4076	74635	SAF	10	250	180	155	140	125	105		14	0	+20	SAE 1 1/2" 10 C	130	saddle type		❖
79006C	4086	74635	SAF	10	153	129	105					14	0	+20	SAE 1 1/2" 10 C	130	saddle type		❖
79007C	4008	74981	Renault	27	175							14	+38	+30	BNA 227 D3.5	155	bent	79008C	
79008C	4009	74981	Renault	27	175							14	-38	+30	BNA 227 D3.5	155	bent	79007C	
79009C	4008	74389	Renault	27	175							14	+38	+30	BNA 227 D3.5	155	bent	79010C	
79010C	4009	74389	Renault	27	175							14	-38	+30	BNA 227 D3.5	155	bent	79009C	
79011C	2752	74899	Renault	27	150							14	0	0	BNA 227 D3.5	15	double bent (short; R=65 mm)		
79012C	4104	74900	Renault	27	140							14	0	0	BNA 227 D3.5	0	double bent (short; R=65 mm)		
79013C	4008	74374	Renault	27	175							14	+38	+30	BNA 227 D3.5	63	double bent (short; R=65 mm)	79014C	
79014C	4009	74374	Renault	27	175							14	-38	+30	BNA 227 D3.5	63	double bent (short; R=65 mm)	79013C	
79015C	4008	74992	Renault	27	175							14	+38	+30	BNA 227 D3.5	155	double bent (short; R=65 mm)	79016C	
79016C	4009	74992	Renault	27	175							14	-38	+30	BNA 227 D3.5	155	double bent (short; R=65 mm)	79015C	
79017C	2761	74372	Renault	27	175							14	+38	0	BNA 227 D3.5	10	double bent (short; R=65 mm)	79018C	
79018C	2760	74372	Renault	27	175							14	-38	0	BNA 227 D3.5	10	double bent (short; R=65 mm)	79017C	
79019C	4104	74573	Renault	27	140							14	0	0	BNA 227 D3.5	350	double bent (short; R=65 mm)		
79020C	4008	74579	Renault	27	175							14	+38	+30	BNA 227 D3.5	90	double bent (short; R=65 mm)	79021C	
79021C	4009	74579	Renault	27	175							14	-38	+30	BNA 227 D3.5	90	double bent (short; R=65 mm)	79020C	
79022D	4086	74635	Fruehauf	37	215	153	129	105				14 (L1: 16)	0	+20	SAE J 498	130	saddle type		◆
79022S	4086	74635	Fruehauf	37	215	153	129	105				14 (L1: 16)	0	+20	SAE J 498	130	saddle type		■

- \* Can use 80023S
- Can use 80022D
- ❖ Can use 80022S
- ◆ Can use 80021D
- Can use 80021S



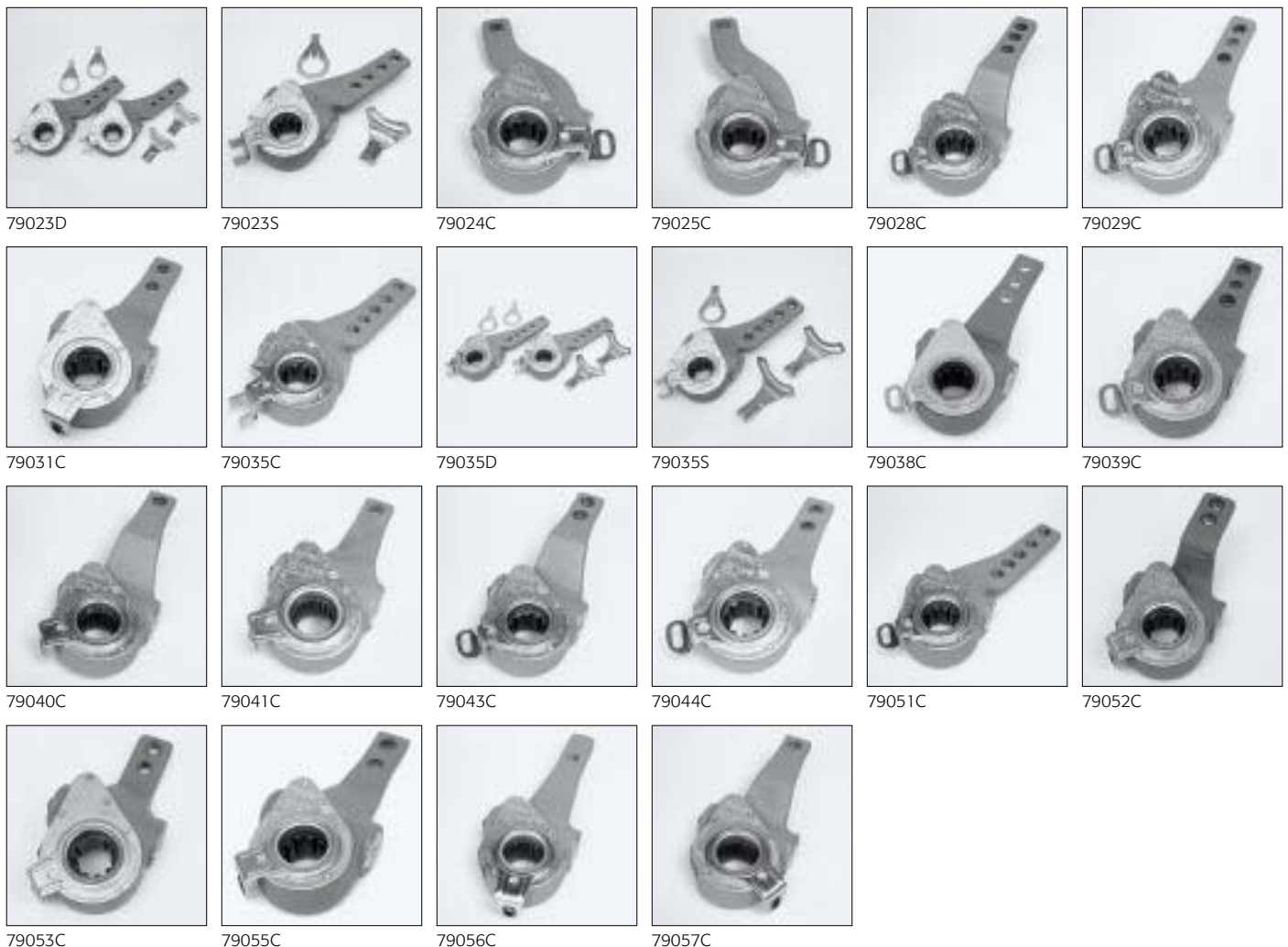
## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7								
79023D	4086	74635	Trallor	10	210	180	150	125				14	0	+20	SAE 1 1/2" 10 C	130	saddle type		*
79023S	4086	74635	Trallor	10	210	180	150	125				14	0	+20	SAE 1 1/2" 10 C	130	saddle type		*
79024C	4070	74735	DAF	10	165							14	+11.5	-38	SAE 1 1/2" 10 C	335	double bent (medium; R=78 mm)	79025C	
79025C	4071	74735	DAF	10	165							14	-11.5	-38	SAE 1 1/2" 10 C	335	double bent (medium; R=78 mm)	79024C	
79028C	2760	74737	Stefen	10	203	179	151					14	-38	0	SAE 1 1/2" 10 C	145	double bent (short; R=65 mm)	79029C	
79029C	2761	74737	Stefen	10	203	179	151					14	+38	0	SAE 1 1/2" 10 C	145	double bent (short; R=65 mm)	79028C	
79030C	3068	74412	Battaglino	10	180	150						14	-28.5	0	SAE 1 1/2" 10 C	90	bent		
79031C	3069	74412	Battaglino	10	180	150						w/o (L1: 14)	+28.5	0	SAE 1 1/2" 10 C	90	bent		
79035C	4086	74635	SAF	10	215	181	153	129	105			14	0	+20	SAE 1 1/2" 10 C	130	saddle type		●
79035D	4086	74635	SAF	10	215	181	153	129	105			14	0	+20	SAE 1 1/2" 10 C	130	saddle type		❖
79035S	4086	74635	SAF	10	215	181	153	129	105			14	0	+20	SAE 1 1/2" 10 C	130	saddle type		●
79038C	2765	74803	SAF	10	178	152	127					14	-12.7	0	SAE 1 1/2" 10 C	144	double bent (short; R=65 mm)	79039C	
79039C	2766	74803	SAF	10	178	152	127					14	+12.7	0	SAE 1 1/2" 10 C	144	double bent (short; R=65 mm)	79038C	
79040C	2760	74953	Kässbohrer	19	175							14	-38	0	A38x34 DIN 5482	140	bent	79041C	
79041C	2761	74953	Kässbohrer	19	175							14	+38	0	A38x34 DIN 5482	140	bent	79040C	
79043C	2760	74803	SAF	10	179	152						14	-38	0	SAE 1 1/2" 10 C	144	double bent (short; R=65 mm)	79044C	
79044C	2761	74803	SAF	10	179	152						14	+38	0	SAE 1 1/2" 10 C	144	double bent (short; R=65 mm)	79043C	
79051C	4086	74737	ROR	10	215	181	153	129	105			14	0	+20	SAE 1 1/2" 10 C	145	double bent (short; R=65 mm)		
79051S	4086	74737	ROR	10	215	181	153	129	105			14	0	+20	SAE 1 1/2" 10 C	145	double bent (short; R=65 mm)		
79052C	4087	74570	SAF	10	152	127						14	-45	0	SAE 1 1/2" 10 C	130	bent	79053C	
79053C	4088	74570	SAF	10	152	127						14	+45	0	SAE 1 1/2" 10 C	130	bent	79052C	
79055C	3069	74426		10	180	150						w/o (L1: 14)	+28.5	0	SAE 1 1/2" 10 C	130	bent		
79056C	2752	74410	Raba	20	175							14	0	0	A40x36 DIN 5482	75	bent		
79057C	2753	74746	Karos	26	170							14	-22	0	40x1.5 CSN 014950.1	25	bent	79058C	

\* 72254 = for SAE 79149; for ROR 72788/80020; for Trallor 79023/80024; for SAF 72254. Fix point = 76918/76916

● Can use 80022S

❖ Can use 80022D



### FOUNDATION BRAKE

FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7								
79058C	2754	74746	Karosa	26	170							14	+22	0	40x1.5 CSN 014950.1	25	bent	79057C	
79059C	4081	74624	Karosa	26	240							14	-15.6	+7	40x1.5 CSN 014950.1	0	double bent (short; R=65 mm)	79060C	
79060C	4082	74624	Karosa	26	240							14	+15.6	+7	40x1.5 CSN 014950.1	0	double bent (short; R=65 mm)	79059C	
79061C	2752	74723		26	170							14	0	0	40x1.5 CSN 014950.1	130	double bent (short; R=65 mm)		
79062C	4104	74990	Dennis	10	140	115						12.7	0	0	SAE 1 1/2" 10 C	65	bent		
79063C	2754	74374	Graziano	19	150							14	+22	0	A38x34 DIN 5482	63	double bent (short; R=65 mm)	79064C	
79064C	2753	74374	Graziano	19	150							14	-22	0	A38x34 DIN 5482	63	double bent (short; R=65 mm)	79063C	
79065C	2755	74422	York	10	140							w/o	-16	0	SAE 1 1/2" 10 C	110	bent	79066C	
79066C	2756	74422	York	10	140							w/o	+16	0	SAE 1 1/2" 10 C	110	bent	79065C	
79067C	4032	74571	Reynolds	10	203	127						14	0	+20	SAE 1 1/2" 10 C	0	double bent (medium; R=78 mm)		
79071C	4085	74806	Dana	10	165							12.7	0	0	SAE 1 1/2" 10 C	63	double bent (medium; R=78 mm)		
79073C	3878	74809	D-C	26	145							14	+56	+15	N42x1.5x9H DIN 5480	16	double bent (short; R=65 mm)		*
79074C	3879	74521	D-C	26	145							14	-56	+15	N42x1.5x9H DIN 5480	16	double bent (short; R=65 mm)		●
79079C	3226	74813	Raba	20	175							14	0	-38	A40x36 DIN 5482	41	bent		
79080C	3226	74493	ROR	28	165							14	0	-38	SAE 1 7/16" 28 C	308	double bent (long; R=100 mm)		
79082C	2752	74362	Marshall	28	165							12.7	0	0	SAE 1 7/16" 28 C	325	double bent (long; R=100 mm)		
79086C	3884	74803	SAF	10	130							14	+35	0	SAE 1 1/2" 10 C	144	double bent (short; R=65 mm)	79087C	
79087C	3883	74803	SAF	10	130							14	-35	0	SAE 1 1/2" 10 C	144	double bent (short; R=65 mm)	79086C	
79088C	3863	74513		10	178	152	127					14	-25	-30	SAE 1 1/2" 10 C	94	straight		
79089C	3864	74514		10	178	152	127					14	+25	-30	SAE 1 1/2" 10 C	94	double bent (short; R=65 mm)		
79090C	2752	74816	SAF	10	203	178	152	127				14	0	0	SAE 1 1/2" 10 C	12	bent		
79091C	4097	74635	Müller	10	200	145	126	115	101			14	0	+20	SAE 1 1/2" 10 C	130	saddle type		
79092C	2752	74362	Marshall	28	152							w/o	0	0	SAE 1 7/16" 28 C	325	double bent (long; R=100 mm)		
79094C	2755	74778	Van Hool	19	152							14	-16	0	A38x34 DIN 5482	50	double bent (short; R=65 mm)	79095C	
79095C	2756	74778	Van Hool	19	152							14	+16	0	A38x34 DIN 5482	50	double bent (short; R=65 mm)	79094C	
79097C	2755	74737	ROR	10	180	150	125					14	-16	0	SAE 1 1/2" 10 C	145	double bent (short; R=65 mm)	79098C	

\* Can use 80001C

● Can use 80000C



79058C



79059C



79060C



79062C



79063C



79064C



79071C



79073C



79074C



79079C



79086C



79087C



79088C



79090C



79091C



79092C



79094C



79095C



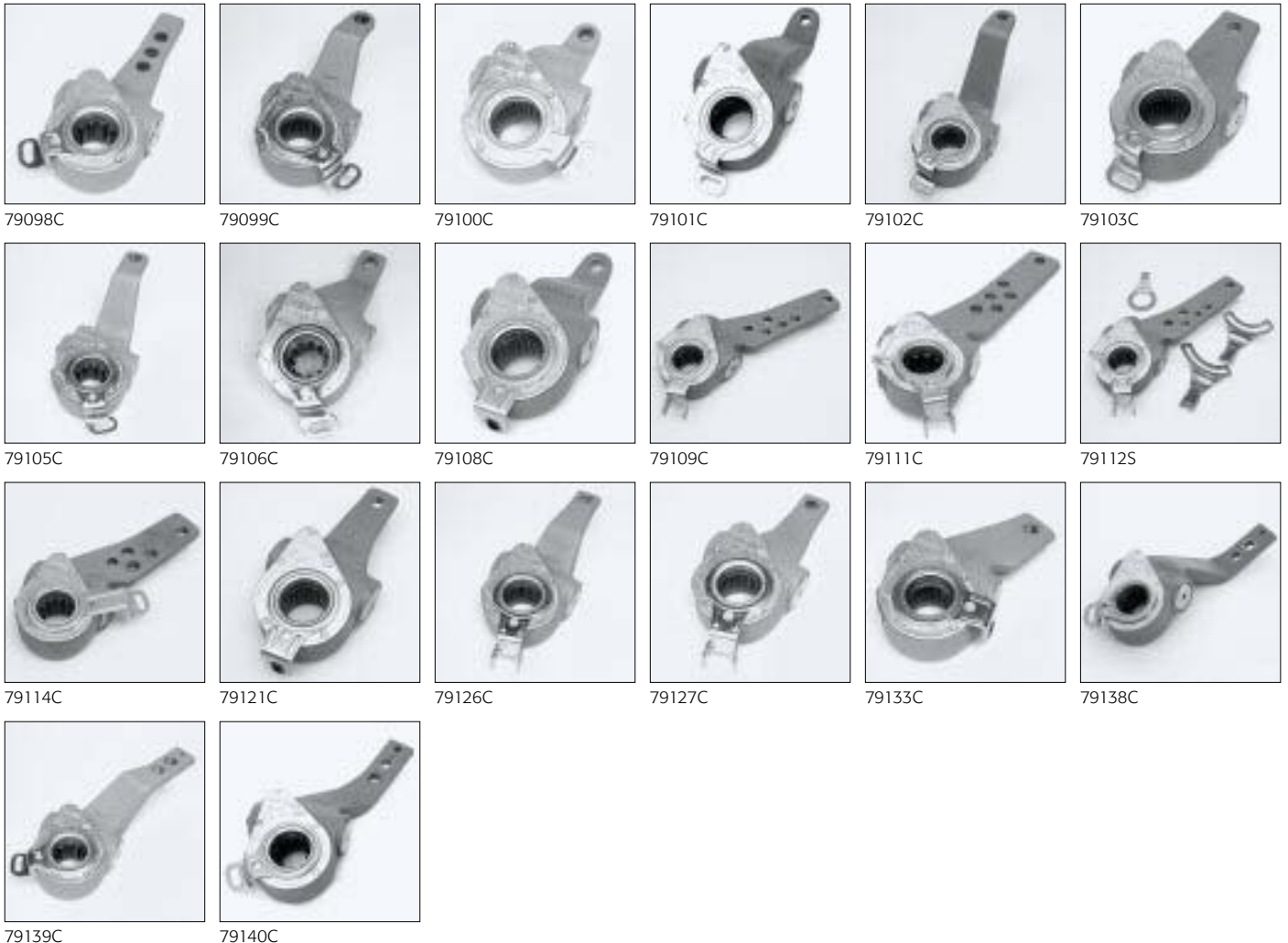
79097C

## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
					L1	L2	L3	L4	L5	L6	L7							
79098C	2756	74737	ROR	10	180	150	125					14	+16	0	SAE 1 1/2" 10 C	145	double bent (short; R=65 mm)	79097C
79099C	3185	74900	D-C	26	145							14	-56	+4	N42x1.5x9H DIN 5480	0	double bent (short; R=65 mm)	79100C
79100C	3186	74900	D-C	26	145							14	+56	+4	N42x1.5x9H DIN 5480	0	double bent (short; R=65 mm)	79099C
79101C	4092	74860	MAG/Nissan	25	167							12.7	+93.5	0	JIS B 1602	90	double bent (short; R=65 mm)	79102C
79102C	4093	74860	MAG/Nissan	25	167							12.7	-93.5	0	JIS B 1602	90	double bent (short; R=65 mm)	79101C
79103C	4104	74860	Nissan	25	125							12.7	0	0	JIS B 1602	90	double bent (short; R=65 mm)	
79105C	3049	74878	Scania	10	165							16	-75	0	SAE 1 1/2" 10 C	55	double bent (short; R=65 mm)	79106C
79106C	3050	74878	Scania	10	165							16	+75	0	SAE 1 1/2" 10 C	55	double bent (short; R=65 mm)	79105C
79107C	3185	74412	Raba	20	145							14	-56	+4	A40x36 DIN 5482	90	bent	79108C
79108C	3186	74412	Raba	20	145							14	+56	+4	A40x36 DIN 5482	90	bent	79107C
79109C	4076	74808	ROR	10	250	180	155	140	125	105		14	0	+20	SAE 1 1/2" 10 C	60	saddle type	*
79111C	4076	74738	Cardi	8	250	180	165	150	135	120		14	0	+20	32 UNI 222	60	saddle type	
79112D	4076	74738	Montenegro	10	250	180	155	140	125	105		14	0	+20	SAE 1 1/2" 10 C	60	saddle type	●
79112S	4076	74738	Montenegro	10	250	180	155	140	125	105		14	0	+20	SAE 1 1/2" 10 C	60	saddle type	*
79114C	4097	74240	Müller	10	200	145	126	115	101			14	0	+20	SAE 1 1/2" 10 C	318	double bent (long; R=100 mm)	
79121C	4085	74702	Raba	20	145							14	0	0	A40x36 DIN 5482	82	bent	
79126C	3068	74246	PPS	26	170							14	-28.5	0	40x1.5 CSN 014950.1	71	saddle type	79127C
79127C	3069	74246	PPS	26	170							14	+28.5	0	40x1.5 CSN 014950.1	71	saddle type	79126C
79132C	4085	74292	D-C	26	145							14	0	0	N42x1.5x9H DIN 5480	0	double bent (short; R=65 mm)	
79133C	4086	74963	Foden	28	140							12.7	0	+20	SAE 1 1/2" 28 C	355	bent	
79136C	3879	74597	D-C	26	145							14	-56	+15	N42x1.5x9H DIN 5480	155	double bent (short; R=65 mm)	79137C
79137C	3878	74597	D-C	26	145							14	+56	+15	N42x1.5x9H DIN 5480	155	double bent (short; R=65 mm)	79136C
79138C	2901	74148	SAE	10	178	153						14	+60.3	+22.5	SAE 1 1/2" 10 C	150	double bent (short; R=65 mm)	79139C
79139C	2902	74148	SAE	10	178	153						14	-60.3	+22.5	SAE 1 1/2" 10 C	150	double bent (short; R=65 mm)	79138C
79140C	2894	74148	SAE	10	178	153						14	+47.6	+22.5	SAE 1 1/2" 10 C	150	double bent (short; R=65 mm)	79141C

\* Can use 80022S

● Can use 80022D



**FOUNDATION BRAKE**

FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
					L1	L2	L3	L4	L5	L6	L7							
79141C	2895	74148	SAE	10	178	153						14	-47.6	+22.5	SAE 1 1/2" 10 C	150	double bent (short; R=65 mm)	79140C
79142C	2760	74250	SAE	10	178	153						14	-38	0	SAE 1 1/2" 10 C	127	double bent (short; R=65 mm)	79143C
79143C	2761	74250	SAE	10	178	153						14	+38	0	SAE 1 1/2" 10 C	127	double bent (short; R=65 mm)	79142C
79144C	3068	74250	SAE	10	178	153						14	-28.5	0	SAE 1 1/2" 10 C	127	double bent (short; R=65 mm)	
79145C	3069	74250	SAE	10	178	153						w/o (L1: 14)	+28.5	0	SAE 1 1/2" 10 C	127	double bent (short; R=65 mm)	
79146C	2771	74148	SAE	10	178	153						14	+16	+22.5	SAE 1 1/2" 10 C	150	double bent (short; R=65 mm)	79147C
79147C	2772	74148	SAE	10	178	153						14	-16	+22.5	SAE 1 1/2" 10 C	150	double bent (short; R=65 mm)	79146C
79148C	4097	74148	SAE	10	178	153	127					14	0	+20	SAE 1 1/2" 10 C	150	double bent (short; R=65 mm)	
79149C	4076	74251	SAE	10	250	180	155	140	125	105		14	0	+20	SAE 1 1/2" 10 C	130	saddle type	
79150C	3156	74402	Renault	27	190							14	+23	0	BNA 227	90	bent	79151C
79151C	3157	74402	Renault	27	190							14	-23	0	BNA 227	90	bent	79150C
79152C	2753	74418	Renault	27	183							14	-22	0	BNA 227 D3.5	100	bent	79153C
79153C	2754	74418	Renault	27	183							14	+22	0	BNA 227 D3.5	100	bent	79152C
79156C	2760	74265	Dennis	10	165							12.7	-38	0	SAE 1 1/2" 10 C	155	double bent (medium; R=78 mm)	79157C
79157C	2761	74265	Dennis	10	165							12.7	+38	0	SAE 1 1/2" 10 C	155	double bent (medium; R=78 mm)	79156C
79158C	2760	74147	GKN	10	152							12.7	-38	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	79159C
79159C	2761	74147	GKN	10	152							12.7	+38	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	79158C
79160C	4076	74261	Volvo/ROR	10	250	180	155	140	125	105		14	0	+20	SAE 1 1/2" 10 C	130	bent	
79160S	4076	74261	Volvo/ROR	10	250	180	155	140	125	105		14	0	+20	SAE 1 1/2" 10 C	130	bent	
79162C	4088	74900	Van Hool	10	152							14	+45	0	SAE 1 1/2" 10 C	0	double bent (short; R=65 mm)	79163C
79163C	4087	74900	Van Hool	10	152							14	-45	0	SAE 1 1/2" 10 C	0	double bent (short; R=65 mm)	79162C
79165C	4088	74900	Van Hool	19	152							14	+45	0	A38x34 DIN 5482	0	double bent (short; R=65 mm)	79166C
79166C	4087	74900	Van Hool	19	152							14	-45	0	A38x34 DIN 5482	0	double bent (short; R=65 mm)	79165C
79167C	3049	74855	DAF	10	165							14	-75	0	SAE 1 1/2" 10 C	70	double bent (short; R=65 mm)	79168C
79168C	3050	74855	DAF	10	165							14	+75	0	SAE 1 1/2" 10 C	70	double bent (short; R=65 mm)	79167C
79169C	2752	74414	Foden	10	140							12.7	0	0	SAE 1 1/2" 10 C	0	bent	
79170C	3068	74592	Dennis	10	140							12.7	-28.5	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	79171C
79171C	3069	74592	Dennis	10	140							12.7	+28.5	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	79170C



79141C



79142C



79143C



79144C



79145C



79146C



79147C



79148C



79149C



79150C



79151C



79152C



79153C



79156C



79157C



79160C



79162C



79163C



79165C



79166C



79168C



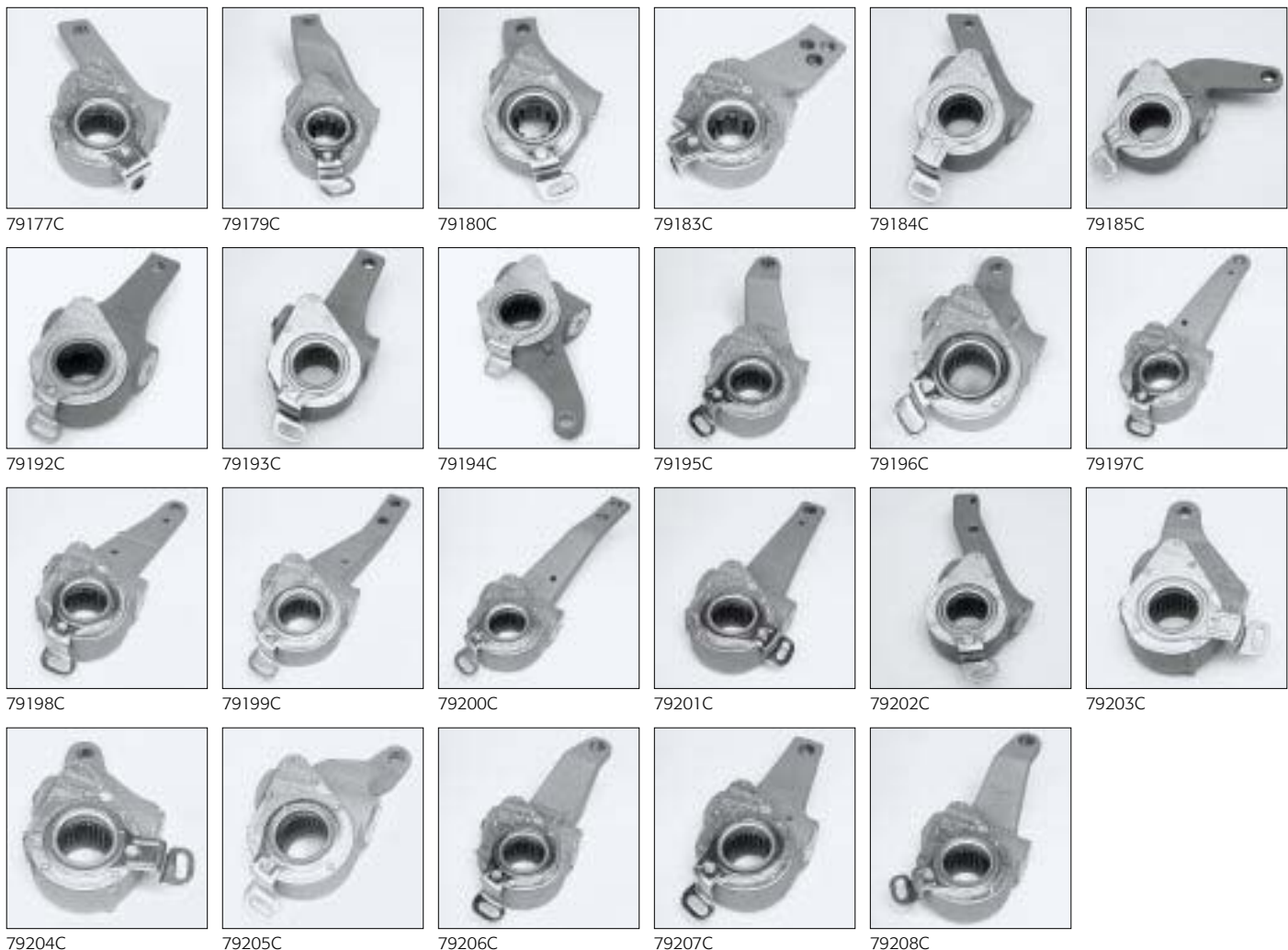
79169C



79170C

## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
					L1	L2	L3	L4	L5	L6	L7							
79177C	3226	74908	Optare	28	140							12.7	0	-38	SAE 1 1/2" 28 C	30	bent	
79178C	4085	74729	Volvo	10	165	140						16	0	0	SAE 1 1/2" 10 C	305	double bent (long; R=100 mm)	
79179C	4042	74560	DAF	10	145							14	-45	-30	SAE 1 1/2" 10 C	40	double bent (short; R=65 mm)	79180C
79180C	4043	74560	DAF	10	145							14	+45	-30	SAE 1 1/2" 10 C	40	double bent (short; R=65 mm)	79179C
79181C	2765	74364		10	140							14	-12.7	0	SAE 1 1/2" 10 C	180	double bent (long; R=100 mm)	79182C
79182C	2766	74364		10	140							14	+12.7	0	SAE 1 1/2" 10 C	180	double bent (long; R=100 mm)	79181C
79183C	4097	74261	ROR	10	153	140	127					14	0	+20	SAE 1 1/2" 10 C	130	bent	
79184C	3226	74176	Foden	28	127							12.7	0	-38	SAE 1 1/2" 28 C	75	double bent (medium; R=78 mm)	
79185C	3900	74294	D-C	26	145							14	0	+37	N42x1.5x9H DIN 5480	114	double bent (short; R=65 mm)	
79186C	4096	74303	D-C	26	145							14	0	+180	N42x1.5x9H DIN 5480	150	double bent (medium; R=78 mm)	
79188C	3068	74976		19	150							12.7	-28.5	0	A38x34 DIN 5482	355	bent	79189C
79192C	4085	74860	Nissan	25	152							12.7	0	0	JIS B 1602	90	double bent (short; R=65 mm)	
79193C	4085	74574	MAN	26	145							14	0	0	N42x1.5x9H DIN 5480	90	double bent (short; R=65 mm)	
79194C	3166	74862	MAN	26	130							14	0	+120	N42x1.5x9H DIN 5480	75	double bent (short; R=65 mm)	
79195C	4030	74989	MAN	26	145							14	-56	-15	N42x1.5x9H DIN 5480	118	double bent (short; R=65 mm)	79196C
79196C	4031	74989	MAN	26	145							14	+56	-15	N42x1.5x9H DIN 5480	118	double bent (short; R=65 mm)	79195C
79197C	3216	74863	MAN	26	215							14	-26	+10.5	N42x1.5x9H DIN 5480	90	double bent (short; R=65 mm)	79198C
79198C	3217	74863	MAN	26	215							14	+26	+10.5	N42x1.5x9H DIN 5480	90	double bent (short; R=65 mm)	79197C
79199C	3215	74564	MAN	26	250	210						14	+45	+10	N42x1.5x9H DIN 5480	100	double bent (short; R=65 mm)	79200C
79200C	3214	74564	MAN	26	250	210						14	-45	+10	N42x1.5x9H DIN 5480	100	double bent (short; R=65 mm)	79199C
79201C	2897	74872	MAN	26	215							14	0	0	N42x1.5x9H DIN 5480	0	double bent (short; R=65 mm)	
79202C	3226	74866	MAN	26	130							14	0	-38	N42x1.5x9H DIN 5480	38	double bent (short; R=65 mm)	
79203C	3195	74789	MAN	26	115							14	-15	-24	N42x1.5x9H DIN 5480	346	double bent (medium; R=78 mm)	79204C
79204C	3196	74789	MAN	26	115							14	+15	-24	N42x1.5x9H DIN 5480	346	double bent (medium; R=78 mm)	79203C
79205C	3878	74688	MAN	26	145							14	+56	+15	N42x1.5x9H DIN 5480	101	double bent (short; R=65 mm)	79206C
79206C	3879	74688	MAN	26	145							14	-56	+15	N42x1.5x9H DIN 5480	101	double bent (short; R=65 mm)	79205C
79207C	2752	74480	MAN	26	145							14	0	0	N42x1.5x9H DIN 5480	110	double bent (short; R=65 mm)	
79208C	3185	74565	MAN	26	145							14	-56	+4	N42x1.5x12H DIN 5480	144	double bent (short; R=65 mm)	



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part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7								
79209C	3186	74565	MAN	26	145							14	+56	+4	N42x1.5x9H DIN 5480	144	double bent (short; R=65 mm)		
79210C	3162	74785	MAN	26	145							14	+18	+34	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)	79211C	
79211C	3163	74785	MAN	26	145							14	-18	+34	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)	79210C	
79212C	3177	74566	MAN	26	145							14	0	+132.5	N42x1.5x9H DIN 5480	75	double bent (medium; R=78 mm)		
79213C	4047	74800	MAN	26	145							14	+26	0	N42x1.5x9H DIN 5480	90	double bent (short; R=65 mm)	79214C	
79214C	4046	74800	MAN	26	145							14	-26	0	N42x1.5x9H DIN 5480	90	double bent (short; R=65 mm)	79213C	
79215C	3226	74887	MAN	26	130							14	0	-38	N42x1.5x9H DIN 5480	30	double bent (short; R=65 mm)		
79216C	4028	74688	MAN	26	130							14	-40	+28	N42x1.5x9H DIN 5480	101	double bent (short; R=65 mm)	79217C	
79217C	4027	74688	MAN	26	130							14	+40	+28	N42x1.5x9H DIN 5480	101	double bent (short; R=65 mm)	79216C	
79218C	4104	74599	MAN	26	130							14	0	0	N42x1.5x9H DIN 5480	105	double bent (short; R=65 mm)		
79219C	3163	74768	MAN	26	130							14	-18	+34	N42x1.5x9H DIN 5480	103	double bent (short; R=65 mm)	79220C	
79220C	3162	74768	MAN	26	130							14	+18	+34	N42x1.5x9H DIN 5480	103	double bent (short; R=65 mm)	79219C	
79221C	3216	74863	MAN	26	215							14	-26	+10.5	N42x1.5x9H DIN 5480	90	double bent (short; R=65 mm)	79222C	
79222C	3217	74863	MAN	26	215							14	+26	+10.5	N42x1.5x9H DIN 5480	90	double bent (short; R=65 mm)	79221C	
79223C	3070	74564	MAN	26	215							14	-45	+10	N42x1.5x9H DIN 5480	100	double bent (short; R=65 mm)	79224C	
79224C	3071	74564	MAN	26	215							14	+45	+10	N42x1.5x9H DIN 5480	100	double bent (short; R=65 mm)	79223C	
79225C	3522	74788	MAN	26	130							14	-15	+120	N42x1.5x9H DIN 5480	75	double bent (short; R=65 mm)		
79226C	3523	74788	MAN	26	130							14	+15	+120	N42x1.5x9H DIN 5480	75	double bent (short; R=65 mm)		
79227C	2752	74689	MAN	26	145							14	0	0	N42x1.5x9H DIN 5480	118	double bent (short; R=65 mm)		
79228C	3163	74512	MAN	26	130							14	-18	+34	N42x1.5x9H DIN 5480	53	double bent (short; R=65 mm)	79229C	
79229C	3162	74512	MAN	26	130							14	+18	+34	N42x1.5x9H DIN 5480	53	double bent (short; R=65 mm)	79228C	
79240C	4097	74167	SAF	10	180	155	140	125				14	0	+20	SAE 1 1/2" 10 C	350	saddle type		*
79241C	3892	74496		19	145							14	-56	-5	A38x34 DIN 5482	55	double bent (short; R=65 mm)	79242C	
79242C	3893	74496		19	145							14	+56	-5	A38x34 DIN 5482	55	double bent (short; R=65 mm)	79241C	

\* Can use 80022S



79209C



79210C



79211C



79212C



79213C



79214C



79215C



79216C



79217C



79218C



79219C



79220C



79221C



79222C



79223C



79224C



79225C



79226C



79227C



79228C



79229C



79240C



79241C



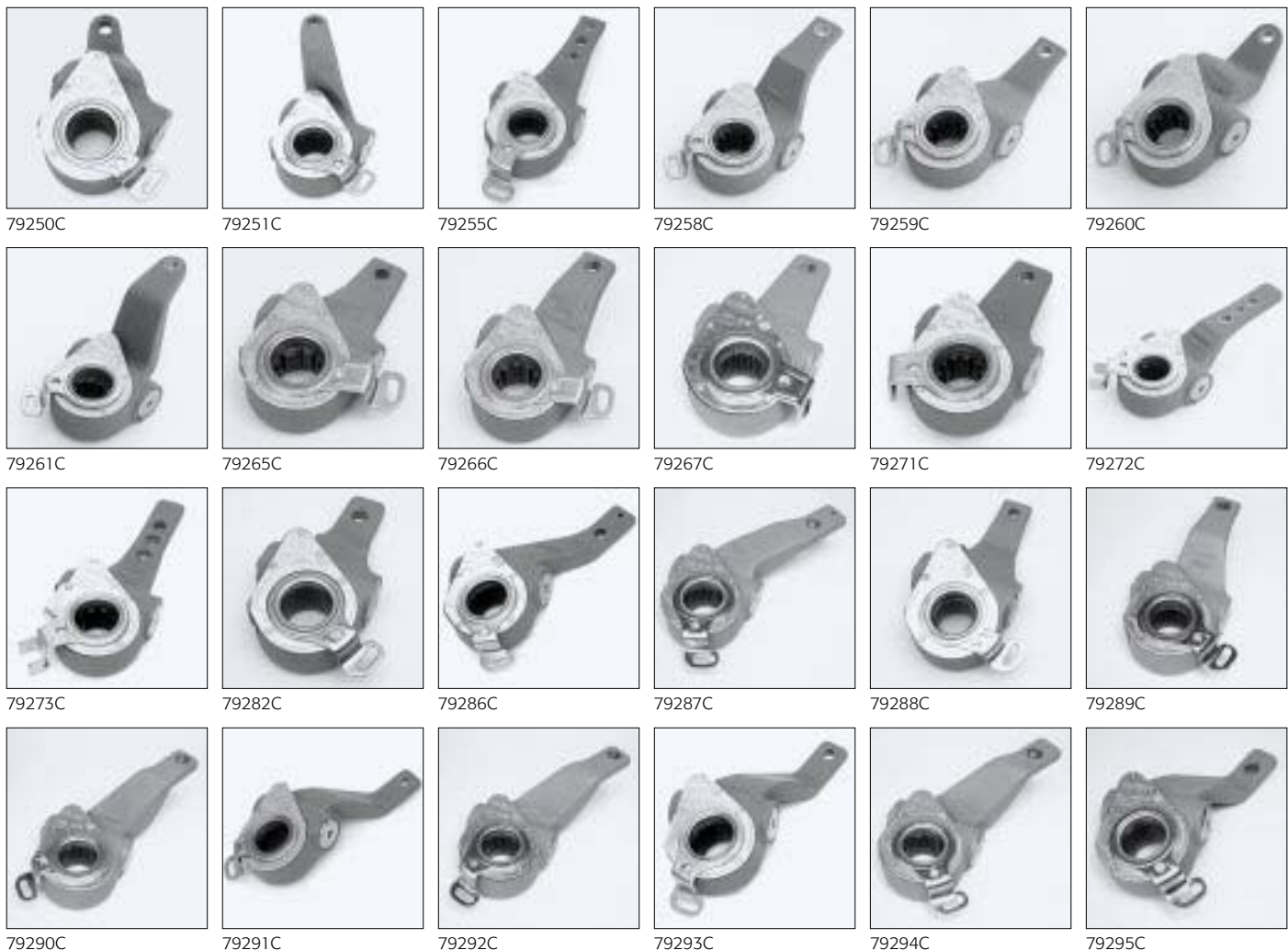
79242C



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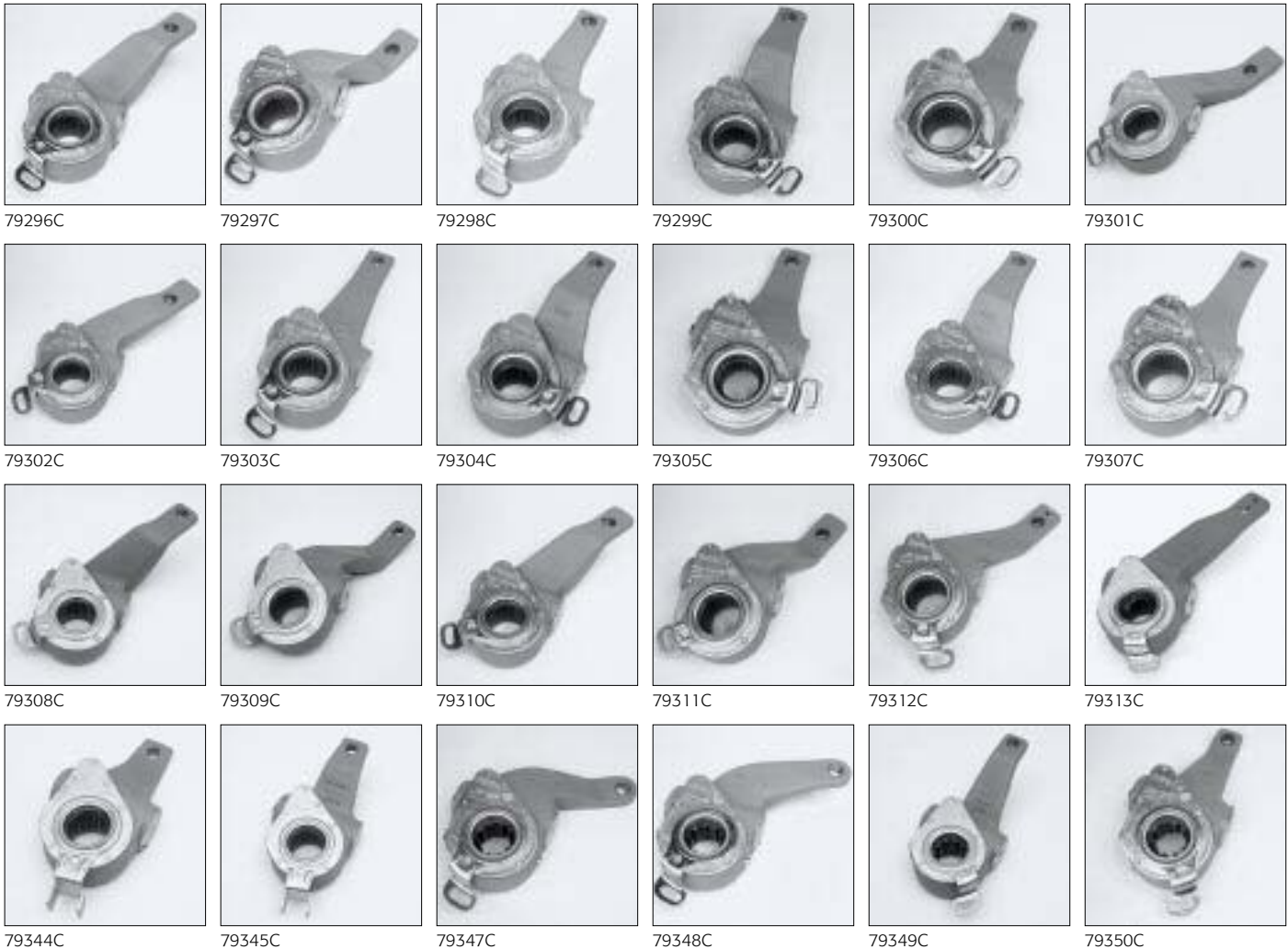
part number	casting	control unit	application	no. of spline teeth							bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
				L1	L2	L3	L4	L5	L6	L7							
79250C	4105	74375		25	150					16	+60	-28	JIS B 1602	5	double bent (short; R=65 mm)	79251C	
79251C	4106	74375		25	150					16	-60	-28	JIS B 1602	5	double bent (short; R=65 mm)	79250C	
79255C	2752	74172		25	190	160	130			14	0	0	JIS B 1602	90	double bent (medium; R=78 mm)		
79258C	2760	74373	Kamaz	10	165					14	-38	0	SAE 1 1/2" 10 C	120	double bent (short; R=65 mm)	79259C	
79259C	2761	74373	Kamaz	10	165					14	+38	0	SAE 1 1/2" 10 C	120	double bent (short; R=65 mm)	79258C	
79260C	4077	74175	Kamaz	10	165					14	+60	-10	SAE 1 1/2" 10 C	128	double bent (short; R=65 mm)	79261C	
79261C	4078	74175	Kamaz	10	165					14	-60	-10	SAE 1 1/2" 10 C	128	double bent (short; R=65 mm)	79260C	
79265C	2754	74147	Dana	10	140					12.7	+22	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	79266C	
79266C	2753	74147	Dana	10	140					12.7	-22	0	SAE 1 1/2" 10 C	339	double bent (medium; R=78 mm)	79265C	
79267C	4104	74444	Mercury	28	140					12.7	0	0	SAE 1 1/2" 28 C	0	bent		
79268C	4085	74444	Reliance Mercury	28	165					12.7	0	0	SAE 1 1/2" 28 C	0	bent		
79269C	3068	74174	Gigant/SAE	10	165					14	-28.5	0	SAE 1 1/2" 10 C	150	double bent (short; R=65 mm)	79270C	
79270C	3069	74174	Gigant/SAE	10	165					14	+28.5	0	SAE 1 1/2" 10 C	150	double bent (short; R=65 mm)	79269C	
79271C	4104	74966	Volvo	10	127					12.7	0	0	SAE 1 1/2" 10 C	150	bent		
79272C	2753	74251	Cardi	8	180	155	130			14	-22	0	32 UNI 222	130	saddle type	79273C	
79273C	2754	74251	Cardi	8	180	155	130			14	+22	0	32 UNI 222	130	saddle type	79272C	
79282C	4047	74187	Jeltz	27	135					14	+26	0	BNA 227 D3.5	16	double bent (short; R=65 mm)	79283C	
79283C	4046	74187	Jeltz	27	135					14	-26	0	BNA 227 D3.5	16	double bent (short; R=65 mm)	79282C	
79286C	4008	74374	Renault	27	160					14	+38	+30	BNA 227 D3.5	63	double bent (short; R=65 mm)	79287C	
79287C	4009	74374	Renault	27	160					14	-38	+30	BNA 227 D3.5	63	double bent (short; R=65 mm)	79286C	
79288C	4095	74489	Renault	28	160					14	+38	0	SAE 1 1/2" 28 C	10	double bent (short; R=65 mm)	79289C	
79289C	4094	74489	Renault	28	160					14	-38	0	SAE 1 1/2" 28 C	10	double bent (short; R=65 mm)	79288C	
79290C	3717	74488	Renault	27	175					14	-56.2	+25	BNA 227 D3.5	130	double bent (short; R=65 mm)	79291C	
79291C	3718	74488	Renault	27	175					14	+56.2	+25	BNA 227 D3.5	130	double bent (short; R=65 mm)	79290C	
79292C	3717	74707	Renault	27	175					14	-56.2	+25	BNA 227 D3.5	100	double bent (short; R=65 mm)	79293C	
79293C	3718	74707	Renault	27	175					14	+56.2	+25	BNA 227 D3.5	100	double bent (short; R=65 mm)	79292C	
79294C	3717	74696	Renault	27	160					14	-56.2	+25	BNA 227 D3.5	35	double bent (short; R=65 mm)	79295C	
79295C	3718	74696	Renault	27	160					14	+56.2	+25	BNA 227 D3.5	35	double bent (short; R=65 mm)	79294C	



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part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
					L1	L2	L3	L4	L5	L6	L7							
79296C	3717	74733	Renault	27	160							14	-56.2	+25	BNA 227 D3.5	105	double bent (short; R=65 mm)	79297C
79297C	3718	74733	Renault	27	160							14	+56.2	+25	BNA 227 D3.5	105	double bent (short; R=65 mm)	79296C
79298C	4085	74860	Renault	28	160							14	0	0	SAE 1 1/2" 28 C	90	double bent (short; R=65 mm)	
79299C	2760	74372	Renault	27	160							14	-38	0	BNA 227 D3.5	10	double bent (short; R=65 mm)	79300C
79300C	2761	74372	Renault	27	160							14	+38	0	BNA 227 D3.5	10	double bent (short; R=65 mm)	79299C
79301C	4008	74716	Renault	27	160							14	+38	+30	BNA 227 D3.5	135	double bent (short; R=65 mm)	79302C
79302C	4009	74716	Renault	27	160							14	-38	+30	BNA 227 D3.5	135	double bent (short; R=65 mm)	79301C
79303C	2752	74719	Renault	27	190							14	0	0	BNA 227 D3.5	103	double bent (short; R=65 mm)	
79304C	4094	74573	Renault	28	160							14	-38	0	SAE 1 1/2" 28 C	350	double bent (short; R=65 mm)	79305C
79305C	4095	74573	Renault	28	160							14	+38	0	SAE 1 1/2" 28 C	350	double bent (short; R=65 mm)	79304C
79306C	4094	74627	Renault	27	175							14	-38	0	BNA 227 D3.5	350	double bent (short; R=65 mm)	79307C
79307C	4095	74627	Renault	27	175							14	+38	0	BNA 227 D3.5	350	double bent (short; R=65 mm)	79306C
79308C	3717	74812	Renault	27	175							14	-56.2	+25	BNA 227 D3.5	145	double bent (short; R=65 mm)	79309C
79309C	3718	74812	Renault	27	175							14	+56.2	+25	BNA 227 D3.5	145	double bent (short; R=65 mm)	79308C
79310C	3717	74812	Renault	27	160							14	-56.2	+25	BNA 227 D3.5	145	double bent (short; R=65 mm)	79311C
79311C	3718	74812	Renault	27	160							14	+56.2	+25	BNA 227 D3.5	145	double bent (short; R=65 mm)	79310C
79312C	4008	74991	Renault	27	175							14	+38	+30	BNA 227 D3.5	63	double bent (short; R=65 mm)	79313C
79313C	4009	74991	Renault	27	175							14	-38	+30	BNA 227 D3.5	63	double bent (short; R=65 mm)	79312C
79344C	3069	74190	PPS	26	140							14	+28.5	0	40x1.5 CSN 014950.1	75	saddle type	79345C
79345C	3068	74190	PPS	26	140							14	-28.5	0	40x1.5 CSN 014950.1	75	saddle type	79344C
79347C	4021	74233	Scania	10	165							16	+25	+40	SAE 1 1/2" 10 C	100	double bent (short; R=65 mm)	79348C
79348C	4020	74233	Scania	10	165							16	-25	+40	SAE 1 1/2" 10 C	100	double bent (short; R=65 mm)	79347C
79349C	3704	74385	Foden	10	165							14	-50	0	SAE 1 1/2" 10 C	43	double bent (short; R=65 mm)	79350C
79350C	3705	74385	Foden	10	165							14	+50	0	SAE 1 1/2" 10 C	43	double bent (short; R=65 mm)	79349C



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part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
					L1	L2	L3	L4	L5	L6	L7							
79351C	4040	74261		14	135						12	+50	+22	JIS D 2001 (40x14)	130	bent	79352C	
79359C	4087	74306	Volvo	10	145						12.7	-45	0	SAE 1 1/2" 10 C	315	double bent (long; R=100 mm)	79360C	
79360C	4088	74306	Volvo	10	145						12.7	+45	0	SAE 1 1/2" 10 C	315	double bent (long; R=100 mm)	79359C	
79364C	2894	74763	Kamaz	10	150						12.7	+47.6	+22.5	SAE 1 1/2" 10 C	110	double bent (short; R=65 mm)	79365C	
79365C	2895	74763	Kamaz	10	150						12.7	-47.6	+22.5	SAE 1 1/2" 10 C	110	double bent (short; R=65 mm)	79364C	
79366C	2894	74781	Van Hool	19	200						14	+47.6	+22.5	A38x34 DIN 5482	135	double bent (short; R=65 mm)	79367C	
79367C	2895	74781	Van Hool	19	200						14	-47.6	+22.5	A38x34 DIN 5482	135	double bent (short; R=65 mm)	79366C	
79368C	4066	74165	Scania	10	165						16	+20	+45	SAE 1 1/2" 10 C	124	double bent (short; R=65 mm)	79369C	
79369C	4067	74165	Scania	10	165						16	-20	+45	SAE 1 1/2" 10 C	124	double bent (short; R=65 mm)	79368C	
79371C	4085	74723	DAF/Sisu	19	152						14	0	0	A38x34 DIN 5482	130	double bent (short; R=65 mm)		
79372C	4085	74385	Sisu	26	145						14	0	0	N42x1.5x9H DIN 5480	43	double bent (short; R=65 mm)		
79393C	4097	74808	Sisu	10	155	141	125	106			14	0	+20	SAE 1 1/2" 10 C	60	saddle type		
79394C	3717	74199	Sisu	10	165						14	-56.2	+25	SAE 1 1/2" 10 C	326	double bent (long; R=100 mm)	79395C	
79395C	3718	74199	Sisu	10	165						14	+56.2	+25	SAE 1 1/2" 10 C	326	double bent (long; R=100 mm)	79394C	
79396C	3049	74736	Sisu	26	165						14	-75	0	N42x1.5x9H DIN 5480	355	double bent (short; R=65 mm)	79397C	
79397C	3050	74736	Sisu	26	165						14	+75	0	N42x1.5x9H DIN 5480	355	double bent (short; R=65 mm)	79396C	
79398C	4079	74204	Sisu	26	180						14	-73	0	N42x1.5x9H DIN 5480	101	double bent (short; R=65 mm)	79399C	
79399C	4080	74204	Sisu	26	180						14	+73	0	N42x1.5x9H DIN 5480	101	double bent (short; R=65 mm)	79398C	
79402C	2753	74164	Raba	20	155						14	-22	0	A40x36 DIN 5482	135	bent	79403C	
79403C	2754	74164	Raba	20	155						14	+22	0	A40x36 DIN 5482	135	bent	79402C	
79407C	3717	74203	Sisu	26	165						14	-56.2	+25	N42x1.5x9H DIN 5480	122	double bent (short; R=65 mm)	79408C	
79408C	3718	74203	Sisu	26	165						14	+56.2	+25	N42x1.5x9H DIN 5480	122	double bent (short; R=65 mm)	79407C	
79428C	3226	74267	Volvo	10	140						12.7	0	-38	SAE 1 1/2" 10 C	175	double bent (long; R=100 mm)		
79429C	3863	74778	ZF	19	145						14	-25	-30	A38x34 DIN 5482	50	double bent (short; R=65 mm)	79430C	
79430C	3864	74778	ZF	19	145						14	+25	-30	A38x34 DIN 5482	50	double bent (short; R=65 mm)	79429C	
79431C	3214	74978	Renault	27	270						14	-45	+10	BNA 227 D3.5	100	bent	79432C	
79432C	3215	74978	Renault	27	270						14	+45	+10	BNA 227 D3.5	100	bent	79431C	
79440C	3717	74627	Renault	27	160						14	-56.2	+25	BNA 227 D3.5	350	double bent (short; R=65 mm)	79441C	



79351C      79364C      79365C      79368C      79369C      79371C



79393C      79394C      79395C      79397C      79402C      79403C



79407C      79408C      79429C      79430C      79431C      79432C



79440C

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part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
					L1	L2	L3	L4	L5	L6	L7							
79441C	3718	74627	Renault	27	160							14	+56.2	+25	BNA 227 D3.5	350	double bent (short; R=65 mm)	79440C
79442C	4083	74235	Scania	10	165							16	-65	0	SAE 1 1/2" 10 C	84	double bent (short; R=65 mm)	79443C
79443C	4084	74235	Scania	10	165							16	+65	0	SAE 1 1/2" 10 C	84	double bent (short; R=65 mm)	79442C
79444C	2752	74250	Comauto	10	203							14	0	0	SAE 1 1/2" 10 C	127	double bent (short; R=65 mm)	
79453C	3884	74501	Scania	10	130							16	+35	0	SAE 1 1/2" 10 C	73	double bent (short; R=65 mm)	79625C
79454C	4085	74781	JP Spain	24	160							14	0	0	SAE 1 1/4" 24 C	135	double bent (short; R=65 mm)	
79455C	3068	74574	JP Spain	10	160							14	-28.5	0	SAE 1 1/2" 10 C	90	double bent (short; R=65 mm)	79456C
79456C	3069	74574	JP Spain	10	160							14	+28.5	0	SAE 1 1/2" 10 C	90	double bent (short; R=65 mm)	79455C
79459C	4097	74808		10	152	140	127	115				14	0	+20	SAE 1 1/2" 10 C	60	saddle type	
79461C	3226	74176	Foden	28	140							12.7	0	-38	SAE 1 1/2" 28 C	75	double bent (medium; R=78 mm)	
79462C	4040	74628		19	152							14	+50	+22	A38x34 DIN 5482	142	double bent (short; R=65 mm)	
79463C	3068	74373		19	152							14	-28.5	0	A38x34 DIN 5482	120	double bent (short; R=65 mm)	
79474C	3717	74723	Renault	27	175							14	-56.2	+25	BNA 227 D3.5	130	double bent (short; R=65 mm)	79475C
79475C	3718	74723	Renault	27	175							14	+56.2	+25	BNA 227 D3.5	130	double bent (short; R=65 mm)	79474C
79476C	3717	74747	Renault	27	160							14	-56.2	+25	BNA 227 D3.5	35	double bent (short; R=65 mm)	79477C
79477C	3718	74747	Renault	27	160							14	+56.2	+25	BNA 227 D3.5	35	double bent (short; R=65 mm)	79476C
79478C	3717	74890	Renault	27	160							14	-56.2	+25	BNA 227 D3.5	105	double bent (short; R=65 mm)	79479C
79479C	3718	74890	Renault	27	160							14	+56.2	+25	BNA 227 D3.5	105	double bent (short; R=65 mm)	79478C
79491C	3068	74453	Motoral	19	170							14	-28.5	0	A38x34 DIN 5482	305	double bent (long; R=100 mm)	79492C
79492C	3069	74453	Motoral	19	170							14	+28.5	0	A38x34 DIN 5482	305	double bent (long; R=100 mm)	79491C
79493C	2760	74581	Meihoku	14	150							12.7	-38	0	JIS D 2001 (40x14)	65	double bent (medium; R=78 mm)	79494C
79494C	2761	74581	Meihoku	14	150							12.7	+38	0	JIS D 2001 (40x14)	65	double bent (medium; R=78 mm)	79493C
79499C	4042	74634	Tatra	26	175							14	-45	-30	40x1.5 CSN 014950.1	25	bent	79500C
79500C	4043	74634	Tatra	26	175							14	+45	-30	40x1.5 CSN 014950.1	25	bent	79499C
79501C	4085	74378	Sisu	10	165							14	0	0	SAE 1 1/2" 10 C	115	double bent (short; R=65 mm)	
79503C	3863	74357	ROR	28	152	127						12.7	-25	-30	SAE 1 1/2" 28 C	355	double bent (long; R=100 mm)	79504C
79504C	3864	74357	ROR	28	152	127						12.7	+25	-30	SAE 1 1/2" 28 C	355	double bent (long; R=100 mm)	79503C



79441C



79442C



79443C



79453C



79454C



79455C



79456C



79459C



79461C



79462C



79463C



79474C



79475C



79476C



79477C



79491C



79492C



79501C



79503C

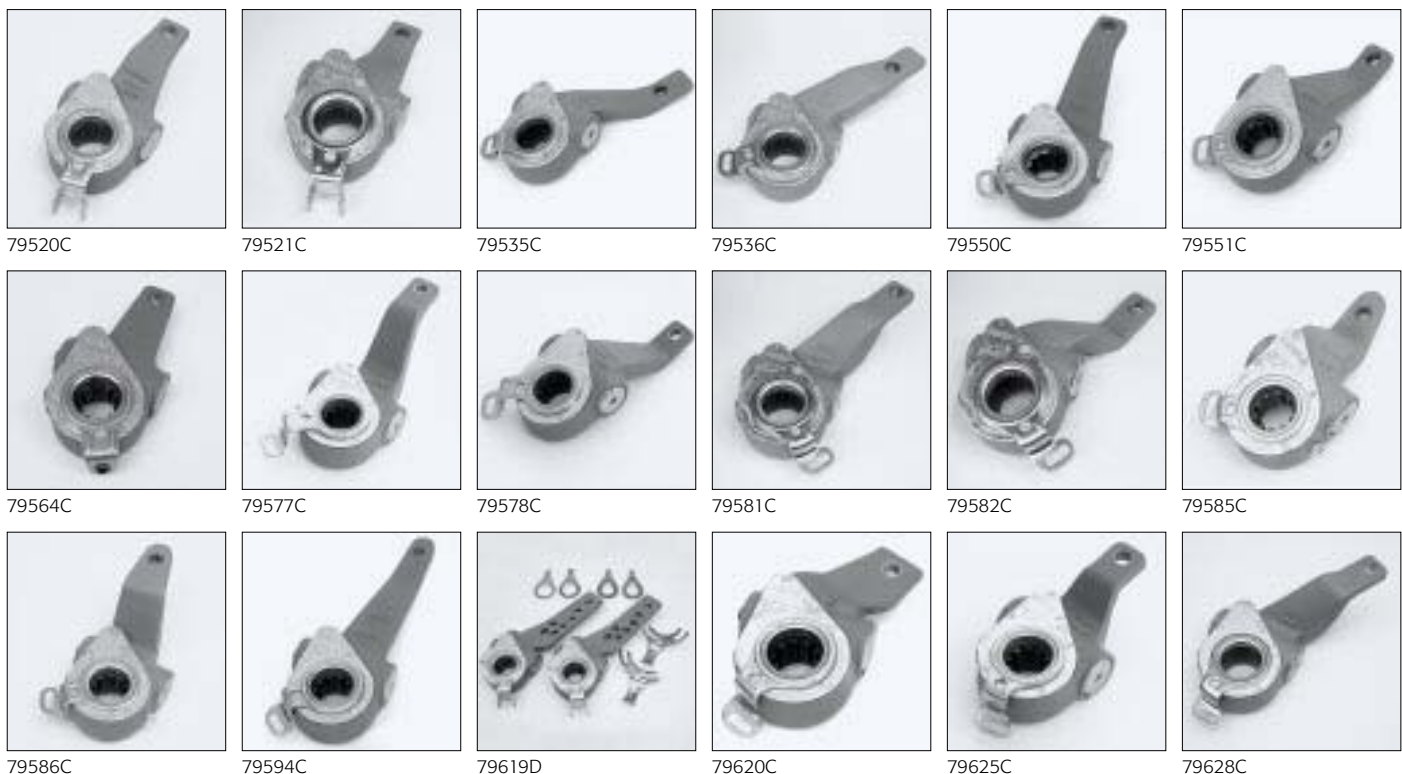


79504C

## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
					L1	L2	L3	L4	L5	L6	L7							
79510C	2760	74310	Tatra	26	175							14	-38	0	40x1.5 CSN 014950.1	35	bent	79511C
79511C	2761	74310	Tatra	26	175							14	+38	0	40x1.5 CSN 014950.1	35	bent	79510C
79514C	3185	74565	MAN	26	145							14	-56	+4	N42x1.5x12H DIN 5480	144	double bent (short; R=65 mm)	
79515C	3186	74565	MAN	26	145							14	+56	+4	N42x1.5x9H DIN 5480	144	double bent (short; R=65 mm)	
79520C	3068	74246	Neocar	26	150							14	-28.5	0	40x1.5 CSN 014950.1	71	saddle type	79521C
79521C	3069	74246	Neocar	26	150							14	+28.5	0	40x1.5 CSN 014950.1	71	saddle type	79520C
79535C	4008	74992	Renault	27	160							14	+38	+30	BNA 227 D3.5	155	double bent (short; R=65 mm)	79536C
79536C	4009	74992	Renault	27	160							14	-38	+30	BNA 227 D3.5	155	double bent (short; R=65 mm)	79535C
79542C	4097	74251	SAE	10	180	155	140	125	105			14	0	+20	SAE 1 1/2" 10 C	130	saddle type	
79543C	2752	74316		25	155	129						12.7	0	0	JIS B 1602 L=29.4	56	double bent (medium; R=78 mm)	
79546C	3522	74724	Albion	28	130							14	-15	+120	SAE 1 1/2" 28 C	85	double bent (short; R=65 mm)	79547C
79550C	4083	74732	Scania	10	165							16	-65	0	SAE 1 1/2" 10 C	140	double bent (short; R=65 mm)	79551C
79551C	4084	74732	Scania	10	165							16	+65	0	SAE 1 1/2" 10 C	140	double bent (short; R=65 mm)	79550C
79564C	4104	74921	Volvo	10	140							12.7	0	0	SAE 1 1/2" 10 C	60	bent	
79574C	2752	74743		10	180	155	130					14	0	0	SAE 1 1/2" 10 C	127	double bent (short; R=65 mm)	
79577C	3049	74321	DAF	10	165							14	-75	0	SAE 1 1/2" 10 C	120	double bent (medium; R=78 mm)	79578C
79578C	3050	74321	DAF	10	165							14	+75	0	SAE 1 1/2" 10 C	120	double bent (medium; R=78 mm)	79577C
79579C	4086	74984		10	203	165	140	115				14	0	+20	SAE 1 1/2" 10 C	50	bent	
79581C	3717	74696	Renault	27	175							14	-56.2	+25	BNA 227 D3.5	35	double bent (short; R=65 mm)	79582C
79582C	3718	74696	Renault	27	175							14	+56.2	+25	BNA 227 D3.5	35	double bent (short; R=65 mm)	79581C
79585C	4077	74812	Bertova	10	152							14	+60	-10	SAE 1 1/2" 10 C	145	double bent (short; R=65 mm)	79586C
79586C	4078	74812	Bertova	10	152							14	-60	-10	SAE 1 1/2" 10 C	145	double bent (short; R=65 mm)	79585C
79593C	3719	74723		10	265							14	-33.1	0	SAE 1 1/2" 10 C	130	double bent (short; R=65 mm)	79594C
79594C	3720	74723		10	265							14	+33.1	0	SAE 1 1/2" 10 C	130	double bent (short; R=65 mm)	79593C
79619D	4076	74808	ROR/VH	10	238	203	178	152	140	127	114	14 (L1:w/o)	0	+20	SAE 1 1/2" 10 C	60	saddle type	
79620C	4086	74763		10	125							12.7	0	+20	SAE 1 1/2" 10 C	110	double bent (short; R=65 mm)	
79625C	3883	74501	Scania	10	130							16	-35	0	SAE 1 1/2" 10 C	73	double bent (short; R=65 mm)	79453C
79628C	3717	74579	Renault	27	175							14	-56.2	+25	BNA 227 D3.5	90	double bent (short; R=65 mm)	79629C

FOUNDATION BRAKE



### FOUNDATION BRAKE

FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth								bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
					L1	L2	L3	L4	L5	L6	L7								
79629C	3718	74579	Renault	27	175							14	+56.2	+25	BNA 227 D3.5	90	double bent (short; R=65 mm)	79628C	
79630C	4086	74635	SMB	10	215	153	129	105				14 (L1: 16)	0	+20	SAE 1 1/2"-10	130	saddle type		*
79639C	3068	74507	Sisu	10	165							14	-28.5	0	SAE 1 1/2" 10 C	305	double bent (long; R=100 mm)	79640C	
79640C	3069	74507	Sisu	10	165							14	+28.5	0	SAE 1 1/2" 10 C	305	double bent (long; R=100 mm)	79639C	
79641C	3068	74411	Volvo	10	185							12.7	-28.5	0	SAE 1 1/2" 10 C	75	bent	79642C	
79642C	3069	74411	Volvo	10	185							12.7	+28.5	0	SAE 1 1/2" 10 C	75	bent	79641C	
79643C	4086	74385	Sisu	10	215	181	153	129	105			14	0	+20	SAE 1 1/2" 10 C	43	double bent (short; R=65 mm)		
79649C	4076	74617	SAE	10	250	180	165	150	135	120	105	14	0	+20	SAE 1 1/2" 10 C	110	saddle type		
79650C	4008	74991	Kynos	10	165							14	+38	+30	SAE 1 1/2" 10 C	63	double bent (short; R=65 mm)	79651C	
79651C	4009	74991	Kynos	10	165							14	-38	+30	SAE 1 1/2" 10 C	63	double bent (short; R=65 mm)	79650C	
79662C	3049	74204	Sisu	26	165							14	-75	0	N42x1.5x12H DIN 5480	101	double bent (short; R=65 mm)	79663C	
79663C	3050	74204	Sisu	26	165							14	+75	0	N42x1.5x12H DIN 5480	101	double bent (short; R=65 mm)	79662C	
79674C	2901	74164	Hino	12	150							12.7	+60.3	+22.5	JIS D 2001 35x12x2.5	135	bent		
79675C	2902	74164	Hino	12	150							12.7	-60.3	+22.5	JIS D 2001 35x12x2.5	135	double bent (long; R=100 mm)		
79677C	3704	74181	Volvo	10	165							12.7	-50	0	SAE 1 1/2" 10 C	334	double bent (long; R=100 mm)	79678C	
79678C	3705	74181	Volvo	10	165							12.7	+50	0	SAE 1 1/2" 10 C	334	double bent (long; R=100 mm)	79677C	
79682C	3226	74357	Foden	28	143							14	0	-38	SAE 1 1/2"-28	355	double bent (long; R=100 mm)		
79683C	2760	74573		27	160							14	-38	0	BNA 227 D3.5	350	double bent (short; R=65 mm)	79684C	
79684C	2761	74573		27	160							14	+38	0	BNA 227 D3.5	350	double bent (short; R=65 mm)	79683C	
79691C	2985	74335		26	179							12	-38	-34	40x1.5 CSN 014950.1	29	bent	79692C	
79692C	2987	74335		26	179							12	+38	-34	40x1.5 CSN 014950.1	29	bent	79691C	
79693C	4057	74563	MAN	26	190							14	+35	-29	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)	79694C	
79694C	4056	74563	MAN	26	190							14	-35	-29	N42x1.5x9H DIN 5480	339	double bent (medium; R=78 mm)	79693C	
79695C	2752	74613	MAN	26	145							14	0	0	N42x1.5x12H DIN 5480	135	double bent (short; R=65 mm)		
79696C	4085	74284	GKN	10	155	127						12.7	0	0	SAE 1 1/2" 10 C	30	bent		●
79697C	3069	74907	Volvo	10	152							16	-28.5	0	SAE 1 1/2"-10	30	bent		
79698C	3068	74907	Volvo	10	152							16	-28.5	0	SAE 1 1/2"-10	30	bent		
79713C	4087	74309	Volvo	10	145							12.7	-45	0	SAE 1 1/2"-10	345	double bent (long; R=100 mm)	79714C	
79714C	4088	74309	Volvo	10	145							12.7	+45	0	SAE 1 1/2"-10	345	double bent (long; R=100 mm)	79713C	

\* Can use 80023D

● Can use 72329C



79629C



79641C



79642C



79649C



79650C



79651C



79662C



79677C



79678C



79682C



79683C



79684C



79691C



79692C



79693C



79694C



79713C



79714C

## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth							bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)		control arm	other side	information
				L1	L2	L3	L4	L5	L6	L7									
79724C	3226	74308	Volvo	10	125						12.7	0	-38	SAE 1 1/2" 10 C	55	bent			
79725C	4018	74742	MAN	26	145						14	-37	+34	N42x1.5x12H DIN 5480	339	double bent (medium; R=78 mm)	79726C		
79726C	4019	74742	MAN	26	145						14	+37	+34	N42x1.5x12H DIN 5480	339	double bent (medium; R=78 mm)	79725C		
79786C	4083	74730	Scania	10	165						16	-65	0	SAE 1 1/2" 10 C	62	double bent (short; R=65 mm)	79787C		
79787C	4084	74730	Scania	10	165						16	+65	0	SAE 1 1/2" 10 C	62	double bent (short; R=65 mm)	79786C		
79799C	4038	74448	Volvo	10	155						12.7	-15	-24	SAE 1 1/2" 10 C	5	bent		79800C	
79800C	4039	74448	Volvo	10	165						12.7	+15	-24	SAE 1 1/2" 10 C	5	bent		79799C	

FOUNDATION BRAKE



79724C



79725C



79726C



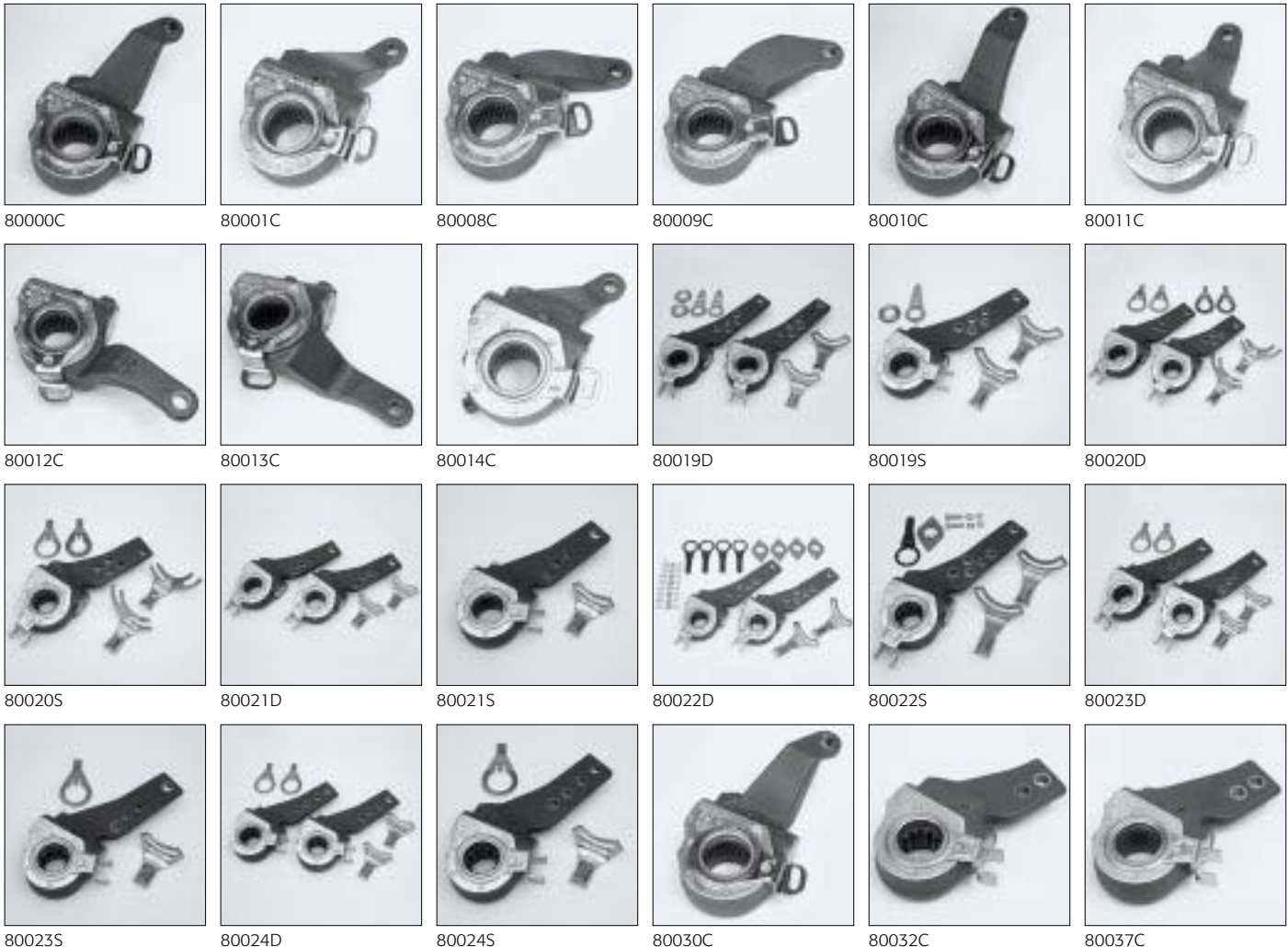
79799C



79800C

### FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth	L1	L2	L3	L4	L5	L6	L7	bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side	information
80000C	5018	74527	D-C	26	145							14	-56	+15	N42x1.5x9H DIN 5480	S-ABA	double bent (short; R=65 mm)	80001C	
80001C	5017	74527	D-C	26	145							14	+56	+15	N42x1.5x9H DIN 5480	S-ABA	double bent (short; R=65 mm)	80000C	
80008C	5016	74528	D-C	26	145							14	+37	+34	N42x1.5x9H DIN 5480	S-ABA	double bent (medium; R=78 mm)	80009C	
80009C	5015	74528	D-C	26	145							14	-37	+34	N42x1.5x9H DIN 5480	S-ABA	double bent (medium; R=78 mm)	80008C	
80010C	5020	74527	D-C	26	145							14	-56	-5	N42x1.5x9H DIN 5480	S-ABA	double bent (short; R=65 mm)	80011C	
80011C	5019	74527	D-C	26	145							14	+56	-5	N42x1.5x9H DIN 5480	S-ABA	double bent (short; R=65 mm)	80010C	
80012C	5032	74527	D-C	26	145							14	-42	+105	N42x1.5x9H DIN 5480	S-ABA	double bent (short; R=65 mm)	80013C	
80013C	5033	74527	D-C	26	145							14	+42	+105	N42x1.5x9H DIN 5480	S-ABA	double bent (short; R=65 mm)	80012C	
80014C	5031	74527	D-C	26	145							14	+56	+15	N42x1.5x9H DIN 5480	S-ABA	double bent (short; R=65 mm)	80030C	
80019D	5027	74530	BPW	10	250	180	165	150	135	120		14	0	+20	SAE 1 1/2" 10 C	S-ABA	saddle type		
80019S	5027	74530	BPW	10	250	180	165	150	135	120		14	0	+20	SAE 1 1/2" 10 C	S-ABA	saddle type		
80020D	5027	74530	ROR	10	205	153	140	127	115			14	0	+20	SAE 1 1/2" 10 C	S-ABA	saddle type		
80020S	5027	74530	ROR	10	205	153	140	127	115			14	0	+20	SAE 1 1/2" 10 C	S-ABA	saddle type		
80021D	5027	74530	Fruehauf	37	215	153	129	105				14 (L1: 16)	0	+20	SAE J 498	S-ABA	saddle type		
80021S	5027	74530	Fruehauf	37	215	153	129	105				14 (L1: 16)	0	+20	SAE J 498	S-ABA	saddle type		
80022D	5027	74530	SAF	10	250	180	155	140	125	105		14	0	+20	SAE 1 1/2" 10 C	S-ABA	saddle type		
80022S	5027	74530	SAF	10	250	180	155	140	125	105		14	0	+20	SAE 1 1/2" 10 C	S-ABA	saddle type		
80023D	5027	74530	SMB	10	215	153	129	105				14 (L1: 16)	0	+20	SAE 1 1/2" 10 C	S-ABA	saddle type		
80023S	5027	74530	SMB	10	215	153	129	105				14 (L1: 16)	0	+20	SAE 1 1/2" 10 C	S-ABA	saddle type		
80024D	5027	74530	Trailor	10	210	180	150	125				14	0	+20	SAE 1 1/2" 10 C	S-ABA	saddle type		
80024S	5027	74530	Trailor	10	210	180	150	125				14	0	+20	SAE 1 1/2" 10 C	S-ABA	saddle type		
80030C	5018	74527	D-C	26	145							14	-56	+15	N42x1.5x9H DIN 5480	S-ABA	double bent (short; R=65 mm)	80014C	
80032C	5027	74530	Go-Axles/ Henred-Fruehauf	10	150	125						12.7	0	+20	SAE 1 1/2" 10 C	S-ABA	saddle type		
80037C	5027	74530	Go-Axles/ Henred-Fruehauf	37	150	125						12.7	0	+20	SAE J 498	S-ABA	saddle type		





## FOUNDATION BRAKE

part number	casting	control unit	application	no. of spline teeth							bushing (mm)	offset	inclination (deg)	spline type	alpha (deg)	control arm	other side information
				L1	L2	L3	L4	L5	L6	L7							
80039C	5016	74527	Kamaz	10	145						14	+37	+34	SAE 1 1/2" 10 C	S-ABA	double bent (short; R=65 mm)	80040C
80040C	5015	74527	Kamaz	10	145						14	-37	+34	SAE 1 1/2" 10 C	S-ABA	double bent (short; R=65 mm)	80039C
80041C	5027	74530	SAF	10	180	155	140	125			14	0	+20	SAE 1 1/2" 10 C	S-ABA	saddle type	
80109C	475-20000	74529	SouthAfrica	10	140						12.7	0	0	SAE 1 1/2"-10	S-ABA	bent	
80126C	5027	74530	SAE	10	105	120	135	150	165	180	14	0	+20	SAE 1 1/2"-10	S-ABA	saddle type	
80163C	5018	74527	D-C	26	145						14	-56	+15	N42x1.5x9H DIN 5480	S-ABA	double bent (short; R=65 mm)	80164C
80164C	5017	74527	D-C	26	145						14	+56	+15	N42x1.5x9H DIN 5480	S-ABA	double bent (short; R=65 mm)	80163C
80165C	5016	74528	D-C	26	145						14	+37	+34	N42x1.5x9H DIN 5480	S-ABA	double bent (medium; R=78 mm)	80166C
80166C	5015	74528	D-C	26	145						14	-37	+34	N42x1.5x9H DIN 5480	S-ABA	double bent (medium; R=78 mm)	80165C
80167C	5031	74527	D-C	26	145						14	+56	+15	N42x1.5x9H DIN 5480	S-ABA	double bent (short; R=65 mm)	
80176C	5018	74535	MAN	26	145						14	-56	+15	N42x1.5x12H DIN 5480	S-ABA	double bent (short; R=65 mm)	80177C
80177C	5017	74535	MAN	26	145						14	+56	+15	N42x1.5x12H DIN 5480	S-ABA	double bent (short; R=65 mm)	80176C
80178C	5016	74536	MAN	26	145						14	+37	+34	N42x1.5x12H DIN 5480	S-ABA	double bent (medium; R=78 mm)	
80179C	5015	74536	MAN	26	145						14	-37	+34	N42x1.5x12H DIN 5480	S-ABA	double bent (medium; R=78 mm)	
80180C	5020	74537	MAN	26	145						14	-56	-5	N42x1.5x9H DIN 5480	S-ABA	double bent (short; R=65 mm)	80181C
80181C	5019	74537	MAN	26	145						14	+56	-5	N42x1.5x9H DIN 5480	S-ABA	double bent (short; R=65 mm)	80180C
80183C	5031	74535	MAN	26	145						14	+56	+15	N42x1.5x12H DIN 5480	S-ABA	double bent (short; R=65 mm)	

FOUNDATION BRAKE



FOUNDATION BRAKE

A Manual Slack Adjuster is installed as the lever linking the actuator to the camshaft, in a drum brake system. Regular manual adjustment is required to maintain a constant clearance between the brake linings and the drum.

Ball & Spring – uses spring force to push a ball bearing into a counter sink to lock the mechanism in place. When manually adjusting, it is possible to overcome the spring resistance, therefore allowing adjustment of the worm shaft.

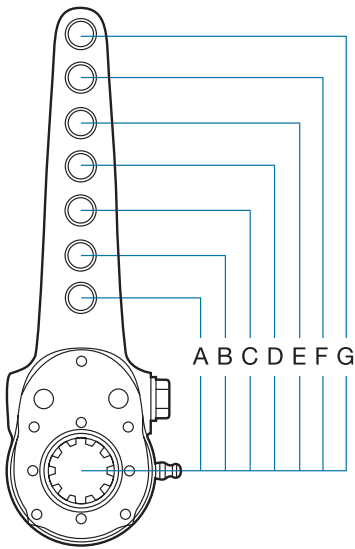
Posi-lock – uses a bi-hexagonal locking collar that must be depressed to enable manual adjustment of the worm shaft.



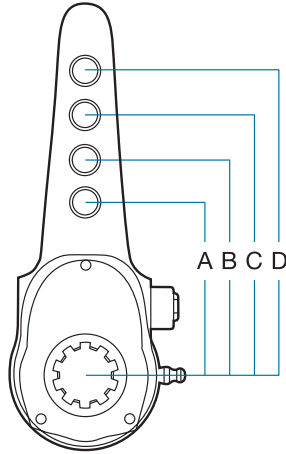
Posi-Lock

Ball & Spring

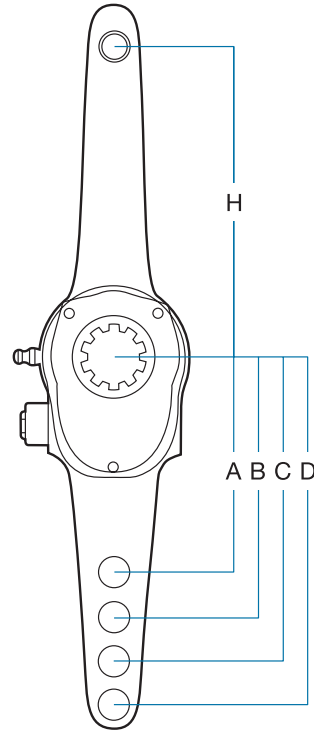
Double Arm



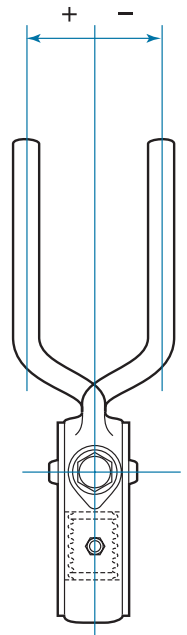
Ball & Spring



Posi-Lock



Double Arm



Offset Arm

part number	mechanism	lever type	no. of spline teeth	Dimensions (mm)								I (offset)	bushing	lever length (mm)	spline type	application
				A	B	C	D	E	F	G	H					
100 001 021	ball & spring	straight	10	120	150	180							w/o, 14	218	SAE 1 1/2"-10 C	BPW
100 001 023	ball & spring	straight	10	140	165								w/o, 1/2"	218	SAE 1 1/2"-10 C	
100 001 025	ball & spring	straight	10	150	170	190							w/o, 14	218	SAE 1 1/2"-10 C	BPW
100 001 027	ball & spring	straight	10	127	152	178	203						w/o, 14	218	SAE 1 1/2"-10 C	ROR/Trailer
100 001 030	ball & spring	straight	10	125	150	175	200						w/o, 14	218	SAE 1 1/2"-10 C	SAE
100 001 122	ball & spring	straight	10	120	150	180	200	230	260	290			w/o, 14 (G: w/o, 17)	310	SAE 1 1/2"-10 C	
100 001 125	ball & spring	straight	10	120	150	180	200	230	260	290			w/o, 14	310	SAE 1 1/2"-10 C	BPW
100 001 128	ball & spring	straight	10	175	230	260	290						w/o, 14 (A: w/o, 22)	310	SAE 1 1/2"-10 C	



100 001 021



100 001 025



100 001 027



100 001 122



100 001 125



100 001 128

## FOUNDATION BRAKE

part number	mechanism	lever type	no. of spline teeth	A	B	C	D	E	F	G	H	I (offset)	bushing	lever length (mm)	spline type	application
100 001 721	ball & spring	straight	10	120	150	180	220	250					w/o, 14	272	SAE 1 1/2"-10 C	BPW
100 001 760	ball & spring	straight	10	120	135	150	165	180	195	250			w/o, 14	272	SAE 1 1/2"-10 C	BPW
100 002 163	ball & spring	straight	37	120	150	180	200	230	260	290			w/o, 14	310	A36x40 DIN 5481	Kässbohrer
100 002 166	ball & spring	straight	37	120	150	180	290						w/o, 14 (D: w/o, 18)	310	A36x40 DIN 5481	Kässbohrer
100 002 167	ball & spring	straight	37	120	135	150	165	180	290				w/o, 14 (F: w/o, 18)	310	A36x40 DIN 5481	
100 002 568	ball & spring	straight	37	120	150	180	230						w/o, 14 (D: w/o, 18)	246	A36x40 DIN 5481	
100 012 345	ball & spring	straight	39	105	125	150	170	190					w/o, 14	218	E22-151 BNA 227 30x39 x 0.75	
100 012 346	ball & spring	straight	39	170	190								w/o, 14	218	E22-151 BNA 227 30x39 x 0.75	
100 012 901	ball & spring	straight	39	105	125	150							w/o, 14	168	E22-151 BNA 227 30x39 x 0.75	
100 012 911	ball & spring	straight	39	105	125	150							w/o, 14	170	E22-151 BNA 227 30x39 x 0.75	
100 014 750	ball & spring	straight	37	105	130	150	180	215					w/o, 14 (E: w/o, 18)	233	ANSI B92 1A-1976, 24/48	Fruehauf
100 014 753	ball & spring	straight	37	105	130	150	180	215					w/o, 14 (E: w/o, 16)	233	ANSI B92 1A-1976, 24/48	Trallor
100 016 170	ball & spring	straight	8	152	192	230	260	290					w/o, 14 (A: w/o, 8)	310	32 UNI 222	
100 016 970	posi-lock	straight	8	127	152	178							w/o, 14	220	32 UNI 222	
100 101 003	ball & spring	straight	10	127	152	178	203						w/o, 16	218	SAE 1 1/2"-10 C	
100 101 006	posi-lock	straight	10	145									14	161	SAE 1 1/2"-10 C	
100 101 007	posi-lock	straight	10	152	178								16	218	SAE 1 1/2"-10 C	
100 101 008	posi-lock	straight	10	127	152	178	203						14	218	SAE 1 1/2"-10 C	ROR/Trallor
100 101 009	posi-lock	straight	10	140									1/2"	156	SAE 1 1/2"-10 C	
100 101 040	ball & spring	straight	10										-	218	SAE 1 1/2"-10 C	
100 101 041	ball & spring	straight	10	120	150	180							w/o, 14	218	SAE 1 1/2"-10 C	BPW/ROR
100 101 042	ball & spring	straight	10	127	152	178	203						w/o, 1/2"	218	SAE 1 1/2"-10 C	ROR/Trallor
100 101 045	ball & spring	straight	10	150	170	190							w/o, 14	218	SAE 1 1/2"-10 C	
100 101 047	ball & spring	straight	10	127	152	178	203						w/o, 14	218	SAE 1 1/2"-10 C	ROR/Trallor
100 101 070	ball & spring	straight	10	127	152	178	203						14	218	SAE 1 1/2"-10 C	ROR
100 101 071	ball & spring	straight	10	114	140	165	191						14	218	SAE 1 1/2"-10 C	ROR
100 101 072	ball & spring	straight	10	127	152	178	203						1/2"	218	SAE 1 1/2"-10 C	ROR
100 101 145	ball & spring	straight	10	120	150	180	200	230	260	290			w/o, 14	310	SAE 1 1/2"-10 C	

FOUNDATION BRAKE



FOUNDATION BRAKE

FOUNDATION BRAKE

part number	mechanism	lever type	no. of spline teeth									l (offset)	bushing	lever length (mm)	spline type	application
				A	B	C	D	E	F	G	H					
100 101 364	ball & spring	straight	10	140									14	156	SAE 1 1/2"-10 C	DAF
100 101 365	ball & spring	straight	10	140									w/o, 22	163	SAE 1 1/2"-10 C	
100 101 366	ball & spring	straight	10	165									14	181	SAE 1 1/2"-10 C	
100 101 367	ball & spring	straight	10	140									14	163	SAE 1 1/2"-10 C	
100 101 741	ball & spring	straight	10	120	150	180	220	250					w/o, 14	272	SAE 1 1/2"-10 C	ROR
100 101 743	ball & spring	straight	10	127	152	178	203	230					w/o, 14 (E: w/o, 18)	272	SAE 1 1/2"-10 C	Sauer
100 106 005	ball & spring	straight	19	122									w/o, 14	140	A38x34 DIN 5482	
100 114 075	ball & spring	straight	37	105	130	150	180	206					w/o, 14 (E: w/o, 16)	218	ANSI B92 1A-1976, 24/48	Propar/Fruehauf
100 213 749	ball & spring	straight	27	170	210	240	260						w/o, 14	272	E22-151 BNA 227 42x27 x 1.5	Titan
100 215 921	ball & spring	straight	27	125	150	175	200						w/o, 14	218	E22-151 BNA 227 ø33	Colaert
100 313 749	ball & spring	straight	27	170	210	240	260						w/o, 14	272	E22-151 BNA 227 42x27 x 1.5	Titan
100 315 921	ball & spring	straight	27	125	150	175	200						w/o, 14	218	E22-151 BNA 227 ø33	Colaert
100 401 204	ball & spring	offset	10	140								+38mm	14	156	SAE 1 1/2"-10 C	DAF
100 501 204	ball & spring	offset	10	140								-38mm	14	156	SAE 1 1/2"-10 C	DAF
102 060 001	posi-lock	straight	10	5"	6"	7"	8"						1/2"	218	SAE 1 1/2"-10 C	ROR/Trailer
102 060 031	posi-lock	straight	10	4.5"	5.5"	6.5"	7.5"						1/2"	218	SAE 1 1/2"-10 C	DAF/ROR
102 060 291	posi-lock	straight	10	120	140	200							1/2"	218	SAE 1 1/2"-10 C	
102 062 201	posi-lock	double	10	5"	6"	7"	8"					7.5"	1/2" (H: 17/32")	218	SAE 1 1/2"-10 C	Trailer
102 066 001	posi-lock	straight	37	5"	6"	7"	8"						1/2"	218	ANSI B92 1A-1976, 24/48	Trailer
102 172 001	posi-lock	straight	10	127	152	178	203						14	218	SAE 1 1/2"-10 C	ROR/Trailer
102 172 031	posi-lock	straight	10	115	140	165	190						14	218	SAE 1 1/2"-10 C	ROR
102 315 271	posi-lock	straight	10	105	130	150	200						w/o, 14	218	SAE 1 1/2"-10 C	
102 315 291	posi-lock	straight	10	120	140	200							w/o, 14	218	SAE 1 1/2"-10 C	
102 315 341	posi-lock	straight	10	105	130	200							w/o, 14	218	SAE 1 1/2"-10 C	



## FOUNDATION BRAKE

FOUNDATION BRAKE

part number	mechanism	lever type	no. of spline teeth	Spline Dimensions										I (offset)	bushing	lever length (mm)	spline type	application
				A	B	C	D	E	F	G	H							
102 317 201	posi-lock	double	10	127	152	178	203							191	w/o, 14 (H: 17/32")	220	SAE 1 1/2"-10 C	
102 904 281	posi-lock	straight	10	6.25"											1/2"	181	SAE 1 1/2"-10 C	
102 915 351	posi-lock	double	37	105	130	150								165	w/o, 14 (H: 16.5)	220	ANSI B92 1A-1976, 24/48	
102 916 351	posi-lock	double	37	105	130	150								200	w/o, 14 (H: 16)	220	ANSI B92 1A-1976, 24/48	
102 917 371	posi-lock	double	10	120	140									200	w/o, 14 (H: 16)	220	SAE 1 1/2"-10 C	
102 922 291	posi-lock	straight	10	120	140	200									w/o, 14 (C: w/o, 16)	218	SAE 1 1/2"-10 C	
102 923 341	posi-lock	straight	10	105	130	200									w/o, 14 (C: w/o, 16)	218	SAE 1 1/2"-10 C	
102 925 111	posi-lock	straight	10	140											1/2"	165	SAE 1 1/2"-10 C	
102 925 394	posi-lock	straight	10	127											1/2"	165	SAE 1 1/2"-10 C	
103 001 001	ball & spring	offset	10	165										-11.5mm	14	181	SAE 1 1/2"-10 C	
103 002 001	ball & spring	offset	10	165										+11.5mm	14	181	SAE 1 1/2"-10 C	
103 003 001	ball & spring	straight	10	5"	6"	7"	8"	10"							1/2"	310	SAE 1 1/2"-10 C	
103 004 001	ball & spring	straight	8	120	150	180	220	250							w/o, 14	272	32 UNI 222	
103 005 001	posi-lock	straight	8	126	148	178									w/o, 14	218	32 UNI 222	
103 006 001	ball & spring	straight	10	5"	6"	7"	8"								1/2"	218	SAE 1 1/2"-10 C	ROR/Trailer
103 007 001	ball & spring	straight	10	127	152	178	203								14	218	SAE 1 1/2"-10 C	ROR/Trailer
103 009 001	ball & spring	straight	37	105	130	150	215								1/2" (D: 16)	233	ANSI B92 1A-1976, 24/48	
103 010 001	ball & spring	straight	10	120	135	150	165	180	195	250					w/o, 14	272	SAE 1 1/2"-10 C	
103 011 001	ball & spring	straight	10	140	165										14	218	SAE 1 1/2"-10 C	
103 012 001	ball & spring	straight	10	127	152	178	220								w/o, 14 (D: 17)	272	SAE 1 1/2"-10 C	
103 013 001	posi-lock	straight	10	5"	6"	7"	8"								w/o, 17	218	SAE 1 1/2"-10 C	
103 014 001	ball & spring	straight	10	127	152	178	203	248							w/o, 14 (E: 18)	272	SAE 1 1/2"-10 C	
103 016 001	ball & spring	straight	20	150	175	200	225	250							w/o, 14	272	A40x36 DIN 5482	
103 017 001	ball & spring	straight	10	105	129	153	181	215							w/o, 14 (E: 16)	233	SAE 1 1/2"-10 C	
103 018 001	ball & spring	straight	10	105	129	151	181	215							w/o, 14 (E: 16)	233	SAE 1 1/2"-10 C	
103 019 001	ball & spring	straight	37	105	129	151	181	215							w/o, 14 (E: 16)	233	ANSI B92 1A-1976, 24/48	
103 020 001	ball & spring	offset	10	140										+56mm	14	161	SAE 1 1/2"-10 C	
103 021 001	ball & spring	offset	10	140										-56mm	14	161	SAE 1 1/2"-10 C	
104 401 051	ball & spring	offset	10	152										+38mm	w/o, 1/2"	200	SAE 1 1/2"-10 C	Volvo
104 401 053	ball & spring	offset	10	140	165									+38mm	w/o, 1/2"	200	SAE 1 1/2"-10 C	Volvo
104 401 201	ball & spring	offset	10	140										+38mm	w/o, 14	156	SAE 1 1/2"-10 C	Volvo



FOUNDATION BRAKE

FOUNDATION BRAKE

part number	mechanism	lever type	no. of spline teeth									l (offset)	bushing	lever length (mm)	spline type	application	
				A	B	C	D	E	F	G	H						
104 401 401	posi-lock	offset	10	145													
104 406 401	ball & spring	offset	19	145													
104 407 401	ball & spring	offset	26	145													D-C
104 414 402	ball & spring	offset	37	145													ANSI B92 1A-1976, 24/48
104 501 051	ball & spring	offset	10	152													Volvo/DAF
104 501 053	ball & spring	offset	10	140	165												Volvo
104 501 201	ball & spring	offset	10	140													Volvo
104 501 401	posi-lock	offset	10	145													SAE 1 1/2"-10 C
104 506 401	ball & spring	offset	19	145													A38x34 DIN 5482
104 507 401	ball & spring	offset	26	145													D-C
104 514 402	ball & spring	offset	37	145													ANSI B92 1A-1976, 24/48
KN44051	posi-lock	straight	28	5.0"	6.0"												Meritor
KN44061	posi-lock	straight	28	5.5"	6.5"												Meritor



104 401 401



104 406 401



104 407 401



104 501 051



104 501 053



104 501 201



104 501 401



104 506 401



104 507 401



KN44051



KN44061

## FOUNDATION BRAKE

The new ModulX family of Haldex Disc Brakes includes brakes for 19.5" and 22.5" wheel sizes. The ModulX concept includes:

- a modular design concept,
- a two-piece calliper,
- a housing which incorporates the application module (factory sealed),
- the application module can be supplied separately for local assembly of complete brakes or as a spare part,
- a more compact disc brake with a lower weight than previous versions.

The brake slides on quadruple stainless steel slide pins that give us an unhandred brake (good for stock handling) and superior calliper guidance. A wear indicator and wear sensor are both optional, and can be retrofitted.



ModulX

FOUNDATION BRAKE

part number	application	carrier holes	type	version	pads	note	can use
92200	SAF	6	DB22	ModulX	w/o	(2 x 92503, boxed individually)	
92201	SMB	4	DB22	ModulX	w/o	(2 x 93840, boxed individually)	
92202	SMB	6	DB22	ModulX	w/o	(2 x 93839, boxed individually)	
92203	SAE	6	DB22	ModulX	w/o	(2 x 93837, boxed individually)	
92502	SAF	6	DB22	ModulX	c/w		92503
92503	SAF	6	DB22	ModulX	w/o		92502
92559	SAF	6	DB19	ModulX	c/w		92560
92560	SAF	6	DB19	ModulX	w/o		92559
92808	SMB	4	DB22	ModulX	c/w		93840
93030	SAE	6	DB19	ModulX	c/w		
93835	SMB	6	DB22	ModulX	c/w		
93836	SAE	6	DB22	ModulX	c/w		
93837	SAE	6	DB22	ModulX	w/o		
93839	SMB	6	DB22	ModulX	w/o		
93840	SMB	4	DB22	ModulX	w/o		



92200



92201



92202



92203



92502



92503

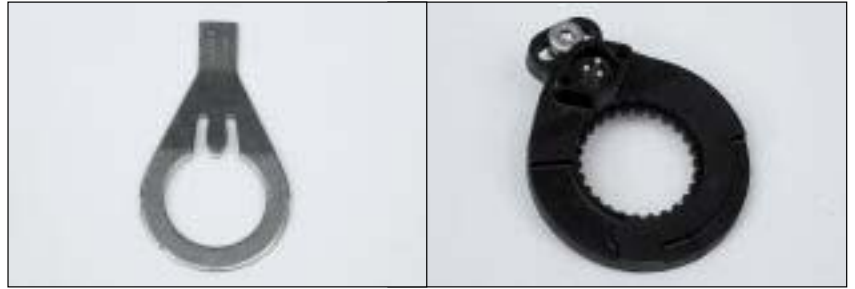


92808

FOUNDATION BRAKE

A Visual Lining Wear Indicator (VLWI) is a mechanical device that rotates as the brake linings wear.

An Electronic Lining Wear Sensor (ELWS) continuously measures the lining wear, allowing brake lining wear management. The Haldex S-ABA (Self-setting Automatic Brake Adjuster) is designed to integrate with the Haldex ELWS.



Visual Lining Wear Indicator

Electronic Lining Wear Sensor

part number	type	for	spline type	no. of spline teeth	axle	cable	boxed	application
014 114 309	Visual Lining Wear Indicator	ABA	-	-	-	-		ROR
76012	Visual Lining Wear Indicator	ABA	-	-	-	-		SAF
76924	Visual Lining Wear Indicator	ABA	-	-	-	-		ROR
76925	Visual Lining Wear Indicator	ABA	-	-	-	-		BPW
90571	Electronic Lining Wear Sensor	ABA	N42x1.5x9H	26	R/H front or L/H rear	w/o		D-C
90572	Electronic Lining Wear Sensor	ABA	N42x1.5x9H	26	L/H front or R/H rear	w/o		D-C
91010	Visual Lining Wear Indicator	Disc Brake	-	-	-	-		s/n 143xxx->, MkIV/ModulX
91935	Electronic Lining Wear Sensor	ABA	N42x1.5x9H	26	L/H front or R/H rear	w/o		MAN
91936	Electronic Lining Wear Sensor	ABA	N42x1.5x9H	26	R/H front or L/H rear	w/o		MAN
92050	Pad Wear Indicator Kit (PWI)	Disc Brake	-	-	-	195 mm	inc. 91244 & pad retainer bolt	MkIII/IV/ModulX
92051	Pad Wear Indicator Kit (PWI)	Disc Brake	-	-	-	695 mm	inc. 91246 & pad retainer bolt	MkIII/IV/ModulX
92729	Pad Wear Indicator Kit (PWI)	Disc Brake	-	-	-	195 mm	w/o pad retainer	MkIII/IV/ModulX
92730	Pad Wear Indicator Kit (PWI)	Disc Brake	-	-	-	695 mm	w/o pad retainer	MkIII/IV/ModulX



014 114 309



76012



76924



76925



90571



90572



91935



91936

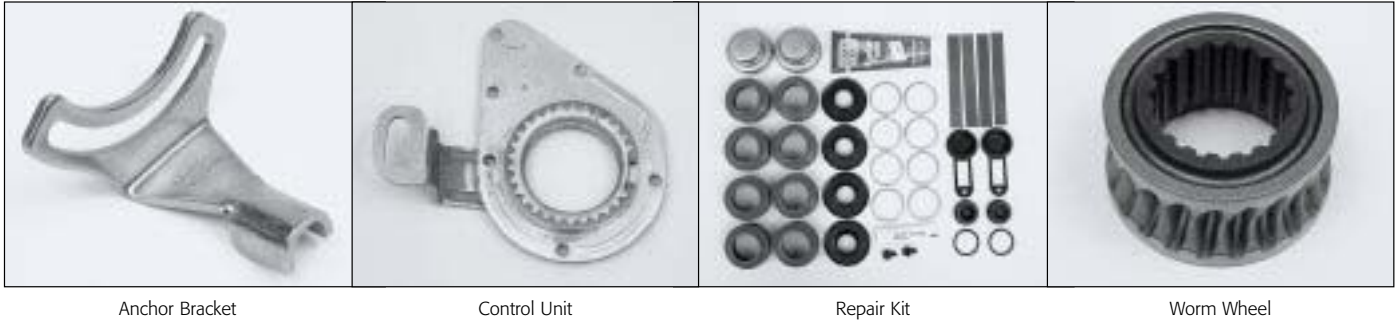


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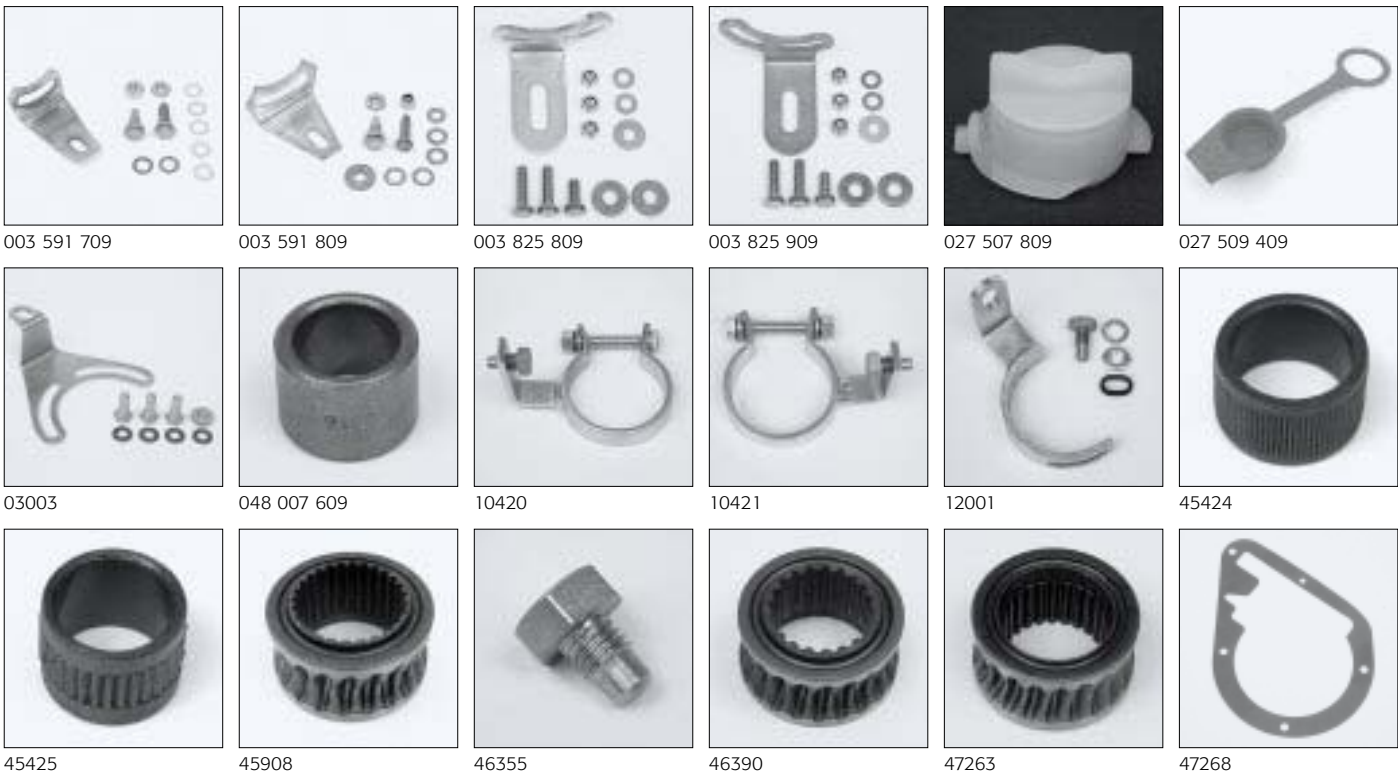


## FOUNDATION BRAKE

FOUNDATION BRAKE



part number	description
003 591 709	Anchor Bracket; for ABA (Grau); bolt type; ROR TM/TE
003 591 809	Anchor Bracket; for ABA (Grau)
003 825 809	Anchor Bracket; for ABA (Grau); bolt type; L/H
003 825 909	Anchor Bracket; for ABA (Grau); bolt type; R/H
027 507 809	Dust Cap; for ABA (Grau); white
027 509 409	Dust Cap; for ABA (Grau); red
03003	Anchor Bracket; for ABA; bolt type; SAF
048 007 609	Bush; for MBA; 17.0mmOD; 12.7mmID
10420	Anchor Bracket; for ABA; bolt type; R/H; Kässbohrer
10421	Anchor Bracket; for ABA; bolt type; L/H; Kässbohrer
12001	Anchor Bracket; for ABA; bolt type; BPW
45424	Bush; for ABA; 20.0mmOD; 16.0mmID
45425	Bush; for ABA; 16.1mmOD; 12.7mmID
45908	Worm Wheel; for ABA; BNA 227, ø39.0
46355	Bolt; for ABA Anchor Bracket; M10; 14mm
46390	Worm Wheel; for ABA; A40x36 DIN 5482
46555	Worm Wheel; for ABA; A36x40 DIN 5481
47263	Worm Wheel; for ABA; N42x1.5x9H DIN 5480
47268	Gasket; for ABA (AA1); x1; for control unit



003 591 709    003 591 809    003 825 809    003 825 909    027 507 809    027 509 409

03003    048 007 609    10420    10421    12001    45424

45425    45908    46355    46390    47263    47268

FOUNDATION BRAKE

FOUNDATION BRAKE

part number	description
47359	Worm Wheel; for ABA; BNA 227, ø39.9
51326	Rack; for ABA (AA1)
51360	Worm Wheel; for ABA; 32 UNI 222
51362	Worm Wheel; for ABA; SAE J 498
51420	Worm Wheel; for ABA; A38x34 DIN 5482
52717	Bush; for ABA; 18.1mmOD; 14.0mmID
63008	Worm Wheel; for ABA; SAE 1 1/2" 10 C
74***S	Control Unit; for ABA
76000	Grease Nipple; for ABA; (No. 580)
76014	Spline Washer; for ABA; c/w O-ring; BPW
76046	Repair Kit; for ABA (AA1)
76050	Anchor Bracket; for ABA; bolt type; Kässbohrer
76078	Anchor Bracket; for ABA; bolt type; SAF/BPW
76080	Anchor Bracket; for ABA; bolt type; SAF/BPW
76086	Distance Washer; for ABA; 38±0.5mmOD; 23±0.2mmID; 6 -0.3mm thick
76087	Distance Washer; for ABA; 42±0.5mmOD; 23±0.2mmID; 3±0.2mm thick
76660	Bush; for ABA; 19.0mmOD; 14.0mmID
76668	Anchor Bracket; for ABA; bolt type; Trailor/Fruehauf
76670	Anchor Bracket; for ABA; bolt type; ROR
76671	Anchor Bracket; for ABA; bolt type; BPW
76672	Anchor Bracket; for ABA; bolt type; ROR
76804	Worm Wheel; for ABA; JIS D 2001 (35x12)
76805	Worm Wheel; for ABA; JIS D 2001 (40x14)
76832	Worm Wheel; for ABA; 40x1.5 CSN 014950.1
76842	Distance Washer; for ABA
76846	Worm Wheel; for ABA; JIS B 1602
76850	Worm Wheel; for ABA; A 30x34 DIN 5481
76859	Worm Wheel; for ABA; PITCH 24/48
76862	Screw; for ABA; Torx; M4
76867	Worm Wheel; for ABA; SAE 1 1/4"-24
76878	Bush; for ABA; for control am; plastic



47359



51326



51420



63008



76000



76014



76046



76050



76078



76080



76086



76087



76660



76668



76670



76671



76672



76832



76862



76878

## FOUNDATION BRAKE

FOUNDATION BRAKE

part number	description
76882	Anchor Bracket; for ABA; bolt type; SAF
76902	Bush; for ABA; for control arm; plastic; c/w screw
76916	Anchor Bracket; for ABA; bolt type; SAF
76918	Anchor Bracket; for ABA; bolt type; SAF
76921	Anchor Bracket; for ABA; bolt type; SAF/Traylor
76922	Anchor Bracket; for ABA; bolt type; SAF/Traylor
76979	Anchor Bracket; for ABA; U-type; SAF/BPW/SMB
76980	Anchor Bracket; for ABA; U-type; SAF/BPW/SMB
76986	Anchor Bracket; for ABA; U-type; Traylor/Fruehauf
76994	Worm Wheel; for ABA; SAE 1 1/2" 28 C
76995	Anchor Bracket; for ABA; U-type; ROR TM/TE
76996	Anchor Bracket; for ABA; U-type; ROR TM/TE
76997	Anchor Bracket; for ABA; U-type; ROR AC
76998	Anchor Bracket Component; for ABA Anchor Bracket (76997)
77885	Front Cover; for ABA (AA1); adjusting nut end; c/w grease nipple; c/w 2xO-ring
77900	Worm Wheel; for ABA; N30x1.5x9H DIN 5480
77975	Anchor Bracket; for ABA; U-type; ROR
78303	Worm Wheel; for ABA; JIS B 1602 L=29.4
78480	Anchor Bracket; for ABA; U-type; ROR AC
78481	Anchor Bracket; for ABA; U-type; ROR AC
81374	Bush; for ABA; 19.0mmOD; 14.0mmID
81658S	Pad Retainer Brace; for Disc Brake (s/n->042..., MkII); for disc brake pad; U-shaped
81927	Cover Plate; for Disc Brake; for brake chamber opening
81928	Pressure Plug Protective Bellows; for Disc Brake
84423	Spacer; for ABA; for chassis to anchor point connection
84579	Bush; for ABA; 19.0mmOD; 12.7mmID
84672	Worm Wheel; for ABA; N38x1.5x9H DIN 5480
86993	Anchor Bracket; for ABA; U-type; SAF



FOUNDATION BRAKE

FOUNDATION BRAKE

part number	description
86994	Anchor Bracket; for ABA; U-type; SAF
87004	Repair Kit; for ABA (S-ABA); position 4; S/N ->347xxx; w/o Torx screws; (DC/MAN)
87005	Repair Kit; for ABA (S-ABA); position 5; S/N ->347xxx; w/o Torx screws; (BPW)
87006	Repair Kit; for ABA (S-ABA); position 6; S/N ->347xxx; c/w Torx screws; (SAF/Fruehauf/ROR/SMB/Trailor)
87405	Adjustment Screw Sealing Kit; for Disc Brake (s/n->142...; MkII & III); 2x below; 2x protection spring
87406	Repair Kit Sliding Function; for Disc Brake (s/n 050220); 4 pieces; c/w slide pins; 8x bellow
87408	Plug Kit; for Disc Brake (s/n->142...; MkII & III)
87680	Repair Kit Sliding Function; for Disc Brake (MkII, III & IV); 4 pieces; w/o slide pins; 8x bellow
87833	Assembly Cup Protective Bellows; for Disc Brake
879165	Pad Retainer; for Disc Brake (s/n 043...->; MkIII & IV); for disc brake pad; flat
89541	Repair Kit Sliding Function; for Disc Brake (s/n 050221->); 4 pieces; c/w slide pins; 8x bellow
89723	Repair Kit Sliding Function; for Disc Brake (MkII, III & IV); 1 piece; w/o slide pins; 2x bellow
89724	Brake Pad; for Disc Brake (DB22 MkII & III); 4 pads; Jurid 539; SAF/BPW; (can also be used on MkIV & ModulX)
89765	Brake Pad; for Disc Brake (DB22 MkII & III); 4 pads; Ferodo 4569; SAE; (can also be used on MkIV & ModulX)
89794	Adjustment Screw Sealing Kit; for Disc Brake (s/n 143...->; MkIV); 2x below; 2x protection spring
89795	Brake Pad; for Disc Brake (DB19); 4 pads; Jurid 539; SAF/BPW
89796	Brake Pad; for Disc Brake (DB19); 4 pads; Ferodo 4569; SAE
89924	Pad Spring; for Disc Brake (s/n 143...->; MkIV); 2x spring
89925	Adjustment Shaft Sealing Kit; for Disc Brake (s/n 043...-142...; MkIII); 2x lip seal; 2x plug
89927	Protection Cap; for Disc Brake (s/n 143...->; MkIV); x2; for slide pin end
90373	Bush; for ABA; x12; for control arm; plastic
90673	Pad Retainer; for Disc Brake (s/n 043...->; MkIII, IV & ModulX); for disc brake pad; flat; x2
90693	Adjustment Shaft Kit; for Disc Brake (s/n 143...->; MkIV & ModulX); for pad clearance adjustment
91011	Piston Seal Kit; for Disc Brake (ModulX); c/w thrust plate
91012	Repair Kit Sliding Function; for Disc Brake (ModulX); 4 pieces; c/w slide pins; 6x bellow



part number	description
91013	Repair Kit Sliding Function; for Disc Brake (ModulX); 4 pieces; w/o slide pins; 6x bellow
91014	Repair Kit Sliding Function; for Disc Brake (ModulX); 1 piece; w/o slide pins; 2x bellow
91015	Caliper Housing; for Disc Brake (ModulX DB22); c/w application mechanism
91018	Caliper Housing; for Disc Brake (ModulX DB19); c/w application mechanism
91019	Protection Cap; for Disc Brake (ModulX); x2; for slide pin end
91133	Gasket; for ABA (AA1); x5; for control unit; c/w Torx screws
91134	Gasket; for ABA (S-ABA); x6; for control unit; c/w Torx screws
91216	Pad Retainer Kit; for Disc Brake (s/n 143...->, MkIV & ModulX); single brake kit; inc. pad retainer, bolt & springs
91236	Thrust Plate; for Disc Brake (Mk IV); c/w 2x clips
91239	Brake Pad; for Disc Brake (DB22 MkII & III); 4 pads; Ferodo 4550; SMB; (can also be used on MkIV & ModulX)
91804	Repair Kit; for ABA (S-ABA); position 4; S/N 348xxx->
91805	Repair Kit; for ABA (S-ABA); position 5; S/N 348xxx->
91806	Repair Kit; for ABA (S-ABA); position 6; S/N 348xxx->
91818	Pad Spring; for Disc Brake (universal); 2x spring
92008	Brake Pad; for Disc Brake (DB22 MkIV & ModulX); 4 pads; Jurid 539; SAF/BPW
92009	Brake Pad; for Disc Brake (DB22 MkIV & ModulX); 4 pads; Ferodo 4550; SMB
92010	Brake Pad; for Disc Brake (DB22 MkIV & ModulX); 4 pads; Ferodo 4569; SAE
92731	Thrust Plate kit; for Disc Brake (MkIII & MkIV)
93299	Repair Kit Sliding Function; for Disc Brake (ModulX); 4 pieces; c/w slide pins; w/o bellow



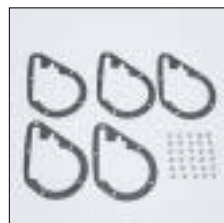
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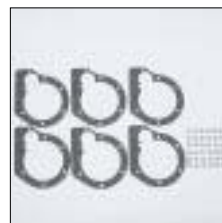
91014



91019



91133



91134



91236



91239



92008



92009



92010



92731

FOUNDATION BRAKE



AA1 Original Tool Set

FOUNDATION BRAKE

part number	description
76025	Peg Spanner; for Automatic Brake Adjuster; ø6 mm; for side cover
76026	Distance Piece; for Automatic Brake Adjuster
76035	End Load Tester; for Automatic Brake Adjuster
76493	Mandrel; for Automatic Brake Adjuster; for wormscrew
76896	Control Arm Bush Tool; for Automatic Brake Adjuster
76952	Universal Spline Key; for Automatic Brake Adjuster
76953	Worm Clearance Guage; for Automatic Brake Adjuster
76987	Hexagon Wrench; for Automatic Brake Adjuster; 10 mm
78333	Screwdriver; for Automatic Brake Adjuster; impact type; for M4 screws
78340	AA1 Original Tool Set; for Automatic Brake Adjuster
78380	Screwdriver; for Automatic Brake Adjuster; Torx type; T20
78396	Hexagon Wrench; for Automatic Brake Adjuster; 8 mm
78402	Bits; for Automatic Brake Adjuster; x2; for Torx screws
78403	Bits; for Automatic Brake Adjuster; x2; for Posidrive screws
78568	Thickness Guage; for Automatic Brake Adjuster
81918	Repair Tool Kit; for Disc Brake; complete
81921	Assembly Cone Sliding Band; for Disc Brake
81922	Bellow Assembly Component; for Disc Brake
83165	Withdrawing Tool; for Automatic Brake Adjuster
83166	Spindle; for ABA Withdrawing Tool (83165)
83167	Threaded Bush; for ABA Withdrawing Tool (83165)
84076	Repair Kit; for ABA Withdrawing Tool (83165); includes spindle & threaded bush



76025



76035



76493



76896



76952



76953



76987



78340



78380



78396



78402



78403



71918



83165



### ABS/EBS SYSTEM


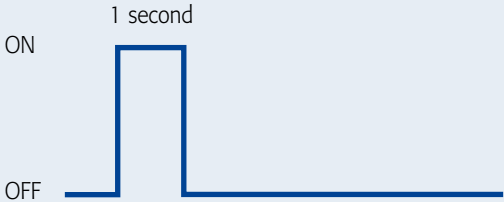

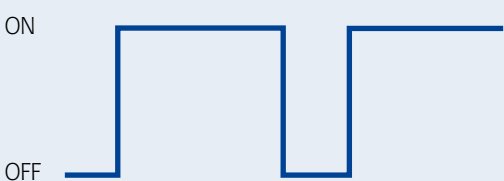

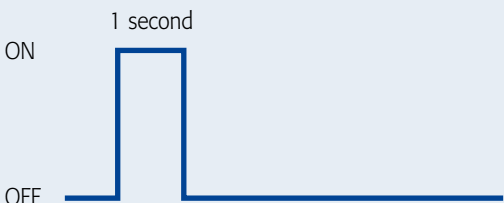
	system	series production	type	sensors/modulators	valve	digital diagnostics	teeth sensed	comment	original OEM ECU p/n
TRUCK/PSV ONLY	ABS GX	1980-1981	analogue	2S/1M & 4S/2M	MCR	-	60	2S/1M - rear axle only 4S/2M - front and rear axles GX-2 = update to GX	75061089
	ABS GX-2	1981-1986							75061089
	ABS DGX	1986	digital	4S/4M	SPS	DDU	60 & 100	update to DGX	364025002/ 364024002
	ABS DGXi	1986-2003							364025.../ 364024...

	system	series production	type	sensors/modulators	valve	digital diagnostics	teeth sensed	comment	original OEM ECU p/n
TRAILER ONLY	ABS MGX	1983-1985	analogue	2S/1M	MCER	-	45-60	blue case	75061172
	ABS MGX-2	1985-2001						black case	75061356
	ABS MGX-2E	1986-2001						grey case	75061413
	ABS MGX-100	1989-2001						green case	364080001
	ABS DGXi-T	1990-2003	digital	2S/2M, 4S/2M, 4S/3M & 4S/4M	SPS	DDU	60 & 100	can also be used on a truck non-powered axle (2S/2M)	364025021/ 364024021
	ABS Modal	1993->	digital	2S/1M, 2S/2M, 4S/2M, 4S/3M & 6S/3M	Modulator Valve (separate REV)	DDU & on-board	80-100		364125.../ 364128.../ 364224...
	ABS Modular 1 Upgrade	1997->	digital	2S/1M	Modulator Valve (separate REV)	Info-centre (inc. odometer) & EOLT	80-100	basic version	364279002
	ABS Modular 1 Plus							supports Colas & VDS	364279101
	ABS Modular 2							2S/2M & 4S/2M	supports Colas & VDS (an ADR version also exists)
	EBS EB+	2001->	digital	2S/1M, 2S/2M, 4S/2M & 4S/3M	EPR Valve (separate REV)	Info-centre (full function) & DIAG+	80-100		812001.../ 812010.../ 812011...


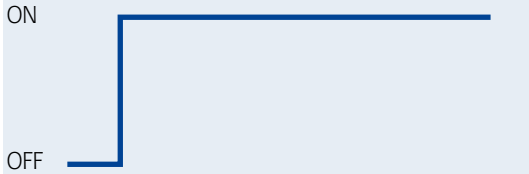

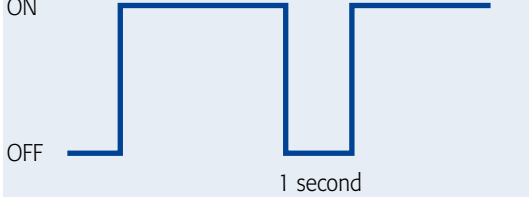

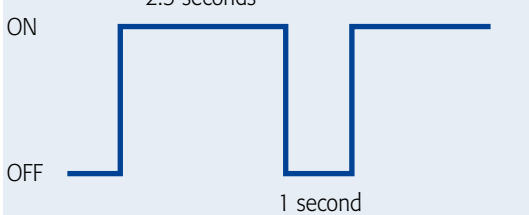

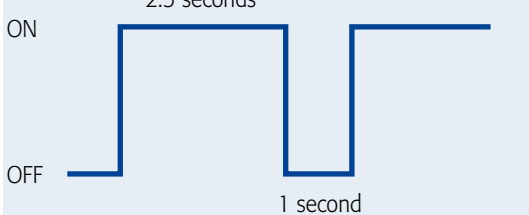

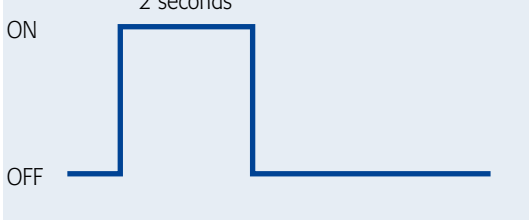
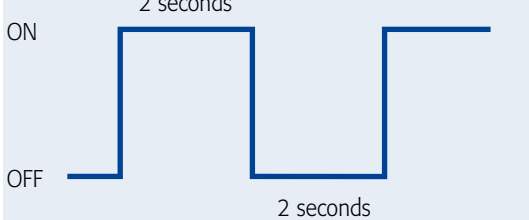
**ABS** is additional to the pneumatic braking system.  
It does not affect the performance of the braking system.  
It is dormant unless a wheel lock occurs.

**EBS** has electrical control of the pneumatics at all times.  
Braking system performance is controlled by software.  
Load sensing and ABS are standard software modules.

**ADR** refers to European petrochemical regulations.

ECU	Warning Lamp Sequence	
<b>ABS GX</b> (all versions) 		red cab dashboard warning lamp
<b>ABS DGX</b> (all versions) 		red cab dashboard warning lamp
<b>ABS MGX &amp; MGX-2</b> (blue or black case) 		green trailer warning lamp*



ECU	Warning Lamp Sequence	
<b>ABS MGX-2E</b> (grey case) 		green trailer warning lamp*
<b>ABS MGX-100</b> (green case) 		green trailer warning lamp*
<b>ABS Modal</b> 		green trailer warning lamp*
<b>ABS Modular</b> (all versions) 		green trailer warning lamp*
<b>EBS EB<sup>+</sup></b> 	<b>OPTION 1</b> 	EBS cab dashboard warning device
	<b>OPTION 2</b> 	EBS cab dashboard warning device

\* To ensure correct operation of the green trailer warning lamp, prior to switching on the ignition, apply foot brake and hold.

In all above lamp sequence sketches:

- Any further lamp display (before driving away) indicates a system fault.
- Lamp on, while moving above 10 km/h, indicates a system fault.

### ABS/EBS SYSTEM

The ECU is the 'brains' behind an ABS or EBS system, and can be analogue or digital. The latest EBS ECU's can control far more than the anti-lock function, including anti-rollover, satellite tracking, diagnostics, brake settings, overload indication and the reading of test point pressures. Some versions allow control of up to 5 additional auxiliary functions, allowing future retrofit of additional hardware, while utilising the original ECU.

Operating temperature range:  
-40°C +80°C



ABS GX-2

ABS DGXI

ABS MGX



ABS Modal

ABS Modular

EBS EB+

part number	system	for excitor teeth	voltage	identification	no. of sensors	valve	Colas compatible	note
950 364 081	ABS Modal	100	24V		2/4/6	modulator x 1/2/3	-	c/w gland fittings
950 364 082	ABS Modal	100	24V		2/4/6	modulator x 1/2/3	yes	
950 364 083	ABS Modal	100	12V		6	modulator x 3	-	
950 364 101	ABS MGX-2	60	24V	black	2	MCER	-	
950 364 102	ABS MGX-2E	60	24V	grey	2	MCER	-	
950 364 103	ABS MGX-100	100	24V	green	2	MCER	-	
950 364 207	ABS DGXI-T	60	24V		4	SPS	-	
950 364 301	ABS GX-2	60	24V		2	MCR	-	axle by axle
950 364 801	ABS Modular 1 Upgrade	100	24V	19 pin	2	modulator x 1	-	
950 364 802	ABS Modular 1 Plus	100	24V	28 pin	2	modulator x 1	yes	
950 364 803	ABS Modular 2	100	24V	28 pin	2/4	modulator x 2	yes	
950 364 804	ABS Modular 2 ADR	100	24V	28 pin	2/4	modulator x 2	yes	
950 800 201	EBS EB+	100	24V		2/4	EPRV x 1/2	yes	5 aux
950 800 202	EBS EB+	100	24V		4	EPRV x 3	yes	3M master (2M); 5 aux
950 800 203	EBS EB+	100	24V		4	EPRV x 3	yes	3M slave (1M); 5 aux
950 800 204	EBS EB+	100	24V		4	EPRV x 2	yes	c/w roll-over protection



950 364 081



950 364 082



950 364 101



950 364 102



950 364 103



950 364 207



950 364 801



950 364 802



950 364 803



950 364 804



950 800 201



950 800 203

ABS/EBS SYSTEM

Info-centre – onboard diagnostics and data collection. The unique qualities of the Haldex Info-centre have always been available for Modular ABS, while the new version has been designed specifically for Haldex EB+. The Haldex Info-centre is much more than a simple diagnostic tool, including an easy to read backlit LCD screen, the main features are:

- Permanently trailer mounted
- Communicates instantly the current ECU data
- Total distance travelled & trip distance
- Service interval & distance to next service
- Tyre scale setting
- Diagnostic code display
- Colas, tacho or retarder detection
- Overload indication (EB+ version)
- Easily retrofit



364 385 001

part number	for	cable (m)	cable material	ADR	note
364 317 001	ABS Modular	1.2	PUR	-	
364 317 011	ABS Modular	0.4	PUR	-	
364 317 021	ABS Modular	0.9	PUR	-	
364 385 001	ABS Modular	1.2	PUR	ADR	
364 385 011	ABS Modular	0.4	PUR	ADR	
815 001 101	EBS EB+	6.5	PUR	-	
815 001 111	EBS EB+	24.0	PUR	-	
815 001 121	EBS EB+	8.0	PUR	-	
815 010 001	EBS EB+	0.5	PUR	-	Side Of Vehicle connection
815 013 001	EBS EB+	6.5	PUR	ADR	
815 014 001	EBS EB+	0.5	PUR	ADR	Side Of Vehicle connection



815 013 001

815 014 001

### ABS/EBS SYSTEM

The ABS/EBS modulator valve controls the air delivered to the brake actuators. If wheel lock is detected, the ECU will signal the valve to release the brakes on the wheel(s) until traction is regained. The valves may be integrated with other functions; for example, the MCER valve combines the Relay Emergency function with the ABS valve. In systems termed 2S/1M, there are 2 sensed wheels and 1 modulator valve present. A single valve permits simultaneous control of all wheels, while a double valve system (e.g. 4S/2M) allows independent control of each axle side, i.e. if wheel lock occurs on one side only, the other side continues braking.



MCER

Modulator Valve

- SPS = Skid Pressure Sensitive (ABS DGX)
- MCER = Memory Controlled Emergency Relay (ABS MGX)
- EPRV = Electronic Proportioning Relay Valve (EBS EB+)



SPS

EPRV

part number	type	for	cable length (m)	solenoid	input restrictor	no. of delivery ports	reservoir port (1) thread	delivery port (2) thread	control port (4) thread	side	voltage	system	ADR version	note
364 157 021	Modulator Valve	ABS Modal	-	M27x1.0	-	2	M22	M22x2	M16	-	12V	2M/3M	yes	
364 161 021	Modulator Valve	ABS Modal	0.8	-	-	6	M22	M16x6	M16	-	12V	1M	yes	
364 251 001	SPS Valve	ABS DGXi	-	bayonet	c/w	4	M22	M22x4	M16	-	24V	2M	-	M22 exhaust
756 120 02	MCER Valve	ABS MGX	0.5	-	-	6	M22	M22x2 & M16x4	M16	-	24V	1M	yes	emergency port M16
950 364 045	Modulator Valve	ABS Modal	0.8	-	-	6	M22	M16x6	M16	-	24V	1M	yes	
950 364 046	Modulator Valve	ABS Modal	0.8	-	-	2	M22	M22x2	M16	-	24V	2M/3M	yes	
950 364 047	Modulator Valve	ABS Modular/Modal	-	M27x1.0	-	6	M22	M16x6	M16	-	24V	1M	yes	
950 364 048	Modulator Valve	ABS Modular/Modal	-	M27x1.0	-	2	M22	M22x2	M16	-	24V	2M/3M	yes	
950 364 076	Modulator Valve	ABS Modal	0.6	-	-	3	M22	M16x3	M16	R/H	24V	2M	yes	
950 364 077	Modulator Valve	ABS Modal	0.6	-	-	3	M22	M16x3	M16	L/H	24V	2M	yes	
950 364 104	MCER Valve	ABS MGX	0.5	-	-	6	M22	M22x2 & M16x4	M16	-	24V	1M	-	emergency port M16
950 364 211	SPS Valve	ABS DGXi	-	bayonet	c/w	4	M22	M22x4	M16	-	24V	2M	-	



364 157 021



364 161 021



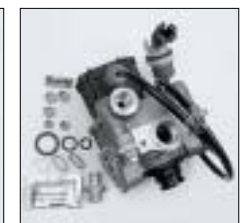
364 251 001



756 120 02



950 364 045



950 364 046



950 364 047



950 364 048



950 364 076



950 364 077



950 364 104



950 364 211

## ABS/EBS SYSTEM

part number	type	for	cable length (m)	solenoid	input restrictor	no. of delivery ports	reservoir port (1) thread	delivery port (2) thread	control port (4) thread	side	voltage	system	ADR version	note
950 364 212	SPS Valve	ABS DGXi	-	bayonet	w/o	4	M22	M22x4	M16	-	24V	2M	-	w/o silencer
950 364 214	SPS Valve	ABS DGXi	-	bayonet	w/o	4	M22	M22x4	M16	-	24V	2M	-	
950 364 215	SPS Valve	ABS DGXi	-	bayonet	w/o	6	M22	M22x6	M16	-	24V	2M	-	
950 364 216	SPS Valve	ABS DGXi	-	bayonet	w/o	4	1/2"NPTF	1/2"NPTF <sub>4</sub>	3/8"NPTF	-	12V	2M	-	
950 364 806	Modulator Valve	ABS Modular	-	M27x1.0	-	3	M22	M16x3	M16	R/H	24V	2M	yes	
950 364 807	Modulator Valve	ABS Modular	-	M27x1.0	-	3	M22	M16x3	M16	L/H	24V	2M	yes	
950 800 302	EPRV	EBS EB+	-	integrated	-	6	M22	M16x6	M16	-	24V	2M	yes	can be used as Master in 3M system
950 800 303	EPRV	EBS EB+	-	integrated	-	6	M22	M16x6	M16	-	24V	1M	yes	
950 800 304	EPRV Slave	EBS EB+	-	integrated	-	6	M22	M16x6	M16	-	24V	1M (slave for 3M system)	yes	

ABS/EBS SYSTEM



950 364 212



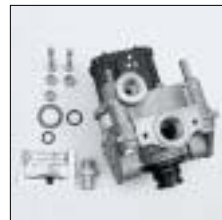
950 364 214



950 364 215



950 364 216



950 364 806



950 364 807



950 800 302



950 800 303

ABS/EBS SYSTEM

An exciter ring is attached directly to the wheel and has a number of teeth or holes. The sensor, attached to the axle, can sense the exciter teeth/holes that pass it, as the wheel rotates. This allows the ECU to determine the wheel speed, acceleration and deceleration.



ABS/EBS SYSTEM

part number	type	cable length (m)	for	for exciter teeth	axle	sleeve	bracket	end connection	note
003 755 509	straight	2.0	ABS MGX	60	-	-	c/w	eyelet	ROR only
003 760 509	angled	3.4	ABS MGX/DGX	60	-	-	c/w	none	
364 094 031	angled	1.0	ABS DGX/MGX/Modal/Modular	80/100	-	w/o	-	Socket	
756 126 35	straight	0.4	ABS MGX	60	-	-	c/w	-	c/w adjuster (assembled)
950 364 501	straight	2.4	ABS GX/DGX/MGX2 & MGX2E	45/60	universal	-	c/w	eyelet	
950 364 502	angled	2.6	ABS GX/DGX/MGX	45/60	universal	-	c/w	eyelet	
950 364 503	angled	0.5	ABS DGX/MGX100/Modal/Modular/EB+	80/100	universal	c/w	-	Socket	standard fit
950 364 504	straight	0.4	ABS GX/DGX/MGX	45/60	universal	-	c/w	in-line crimp & heat-shrink sleeve	
950 364 506	straight	0.5	ABS DGX/MGX100/Modal/Modular/EB+	80/100	universal	c/w	-	Socket	standard fit



003 755 509



003 760 509



364 094 031



950 364 501



950 364 502



950 364 503



950 364 504



950 364 506

## ABS/EBS SYSTEM

An exciter ring is attached directly to the wheel and has a number of teeth or holes. The sensor, attached to the axle, can sense the exciter teeth/holes that pass it, as the wheel rotates. This allows the ECU to determine the wheel speed, acceleration and deceleration.

PCD = 'Pitch Circle Diameter' and is measured from the centre of the hole or tooth.



solid

pressed

part number	type	no. of teeth	inner diameter (mm)	mounting	tooth PCD (mm)	application
016 705 509	solid	100	176	-	-	BPW 12 TM
018 500 309	solid	100	165	-	-	ROR 22.5" TM, Fruehauf
018 500 409	solid	80	162	-	-	ROR 15" TM, Fruehauf
018 500 509	solid	100	150	-	-	ROR 22.5" TE, 22500 series 9.0 tonne
100 000 003	solid	80	152	-	-	9 Tonn
756 108 28	pressed	60	-	6 hole, 350 mm PCD	300	truck, Seddon/Foden/DAF/MB
756 113 84	pressed	60	-	5 hole, 335 mm PCD	250	truck, Seddon
756 118 17	pressed	60	-	10 hole, 335 mm PCD	260	ROR/York 22.5"
756 119 01	pressed	45	-	6 hole, 250 mm PCD	198	York 15"

ABS/EBS SYSTEM



018 500 309

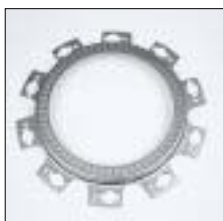
018 500 409

018 500 509

100 000 003

756 108 28

756 113 84

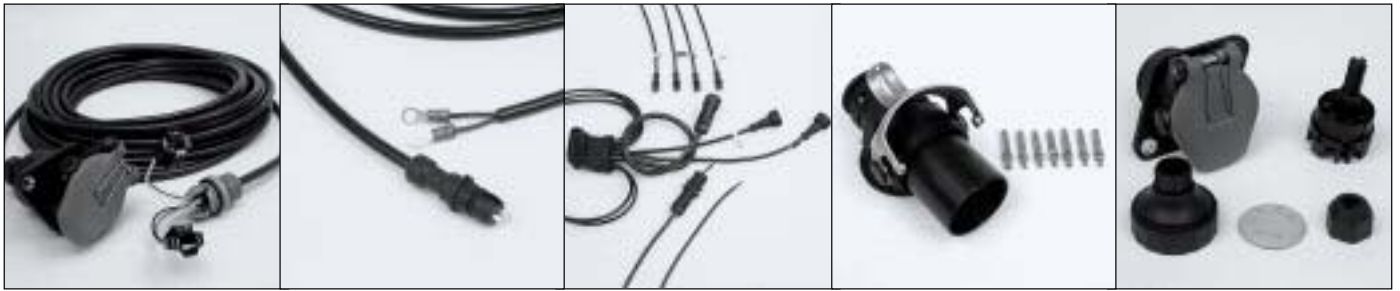


756 118 17



756 119 01

ABS/EBS SYSTEM



Power Cable & Socket

Sensor Extension Cable

Loom

Plug

Socket

Any cable, loom, plug or socket relating to an ABS or EBS system. This includes sensor extension cables, diagnostic cables, power cables, etc.

part number	type	for	system	system configuration	length (m)	colour indication	material	including	fuse	sensor cables (m)	Colas® cable	note	voltage	can use
003 733 509	Loom	ECU connection	ABS DGXi	60 tooth	-	-	-		-	-	-		24V	
003 774 009	Cable	SPS Valve	ABS DGXi	-	9.0	-	(conduit)		-	-	-	rear axle	12/ 24V	
003 824 309	Chassis Loom	ADR reg. connection	ABS DGXi	60 tooth	-	-	-		-	-	-		24V	
003 843 309	Cable	diagnostics	ABS Modular to DDU/ Info-centre	-	24.0	-	PVC		-	-	-		-	
003 846 709	Cable	diagnostics	ABS Modular to DDU/Info-centre	-	2.0	-	PVC		-	-	-		-	
003 852 809	Framatone Connector Kit	power ISO 7638	ABS Modular	-	-	-	-		unfused	-	-	9-way	24V	
003 852 909	Framatone Connector Kit	power ISO 7638	ABS Modular	-	-	-	-		fused	-	-	9-way	24V	
003 854 509	Cable & Socket	power ISO 7638	ABS Modular	-	16.0	-	PVC	pins x 5	fused	-	-	w/o socket	24V	
003 855 209	Framatone Connector Kit	power ISO 1185 (24N)	ABS Modular	-	-	-	-		-	-	-	4-way	24V	
003 863 709	Cable	diagnostics	ABS Modal	-	1.3	-	PVC		-	-	-		-	
003 892 709	Cable	diagnostics	ABS Modal to info-centre	-	18.0	-	PVC		-	-	-		-	
042 022 709	Vehicle Power Connector	drawbar trailers	all	-	-	-	-		-	-	-		12V	
042 022 809	Vehicle Power Connector	semi trailers	all	-	-	-	-		-	-	-		12V	
042 507 709	Cable	diagnostics	ABS Modal to DDU	-	2.0	-	PVC		-	-	-		-	
042 507 809	Cable	diagnostics	ABS Modal to DDU	-	18.0	-	PVC		-	-	-		-	
059 507 609	Cable	power ISO 7638	ABS MGX	-	100.0	-	PVC		-	-	-	5 core (black, red, white, yellow, brown/black)	24V	
059 507 709	Cable	diagnostics	ABS MGX	-	100.0	-	PVC		-	-	-	2 core (black, yellow)	24V	



003 824 309



003 843 309



003 846 709



003 852 809



003 852 909



003 855 209



003 863 709



042 022 809



042 507 709



042 507 809



059 507 609



059 507 709

ABS/EBS SYSTEM



## ABS/EBS SYSTEM

part number	type	for	system	system configuration	length (m)	colour indication	material	including	fuse	sensor cables (m)	Colas® cable	note	voltage	can use
059 507 809	Cable	power ISO 1185 (24N)	ABS MGX	-	100.0	-	PVC	-	-	-	-	2 core (red, white)	24V	
059 508 809	Cable	diagnostics	for green warning lamp	-	14.0	-	PVC	-	-	-	-	2 core (black, yellow)	24V	
059 508 909	Cable	power ISO 1185 (24N)	ABS MGX	-	14.0	-	PVC	-	-	-	-	2 core (red, white)	24V	
059 509 409	Cable	sensor extension	ABS MGX	60 tooth	100.0	-	Hypalon	-	-	-	-	-	-	
059 509 809	Cable	sensor extension	ABS MGX	80/100 tooth	2.5	-	PUR	-	-	-	-	plug to eyelets	-	
059 510 109	Cable	sensor extension	ABS various	60 tooth	20.0	-	PUR	-	-	-	-	-	-	
059 510 409	Cable	sensor extension	ABS MGX	80/100 tooth	3.0	-	PUR	-	-	-	-	plug to eyelets	-	
059 510 609	Cable	sensor extension	ABS various	60 tooth	50.0	-	PUR	-	-	-	-	2 core (black, brown)	-	
059 515 609	Cable	sensor extension	ABS various	60 tooth	100.0	-	PUR	-	-	-	-	2 core (black, brown)	-	
059 521 909	Cable	diagnostics	for green warning lamp	-	9.0	-	PVC	-	-	-	-	2 core (black, yellow)	24V	
364 077 021	Cable	sensor extension	ABS DGXi	100 tooth	8.0	-	PUR	-	-	-	-	-	-	
364 077 031	Cable	sensor extension	ABS DGXi	100 tooth	10.0	-	PUR	-	-	-	-	-	-	
364 096 102	Cable & Socket	power ISO 7638	ABS Modal	-	12.0	green	PVC	pins x 5	fused	-	-	5 core (purple, red, yellow, white, black)	24V	
364 096 112	Cable & Socket	power ISO 7638	ABS Modal	-	16.0	green	PVC	pins x 5	fused	-	-	5 core (purple, red, yellow, white, black)	24V	
364 143 001	Cable & Socket	power ISO 7638	ABS Modal	-	12.0	-	conduit	pins x 5	unfused	-	-	semi-trailer	12V	
364 175 101	Cable & Socket	power ISO 7638	ABS Modal	-	12.0	-	conduit	-	unfused	-	-	Modal only	24V	
364 193 001	Cable	power ISO 1185 (24N)	ABS Modal	-	10.0	-	conduit	-	-	-	-	-	12V	
364 194 001	Cable	power ISO 1185 (24N)	ABS Modal	-	12.0	-	PVC	-	-	-	-	3 core	24V	
364 194 021	Cable	power ISO 1185 (24N)	ABS Modal	-	9.0	-	PVC	-	-	-	-	3 core	24V	
364 212 001	Cable	sensor extension	ABS Modal	-	4.0	red 1A	PUR	-	-	-	-	Modal only	-	
364 212 011	Cable	sensor extension	ABS Modal	-	4.0	red 1B	PUR	-	-	-	-	Modal only	-	
364 212 021	Cable	sensor extension	ABS Modal	-	4.0	blue 3A	PUR	-	-	-	-	Modal only	-	
364 212 031	Cable	sensor extension	ABS Modal	-	4.0	blue 2A	PUR	-	-	-	-	Modal only	-	
364 212 041	Cable	sensor extension	ABS Modal	-	4.0	blue 2B	PUR	-	-	-	-	Modal only	-	
364 212 051	Cable	sensor extension	ABS Modal	-	4.0	yellow 3B	PUR	-	-	-	-	Modal only	-	
364 215 001	Cable	power ISO 3731 (24S)	ABS Modal	-	12.0	-	PVC	-	-	-	-	-	24V	
364 295 001	Loom	ECU connection	ABS Modular 1 Upgrade	2S/1M	-	-	-	-	-	2x3.0	w/o	19 pin	24V	

ABS/EBS SYSTEM



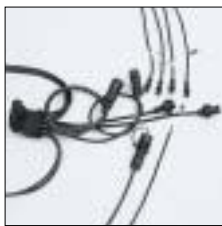
ABS/EBS SYSTEM

part number	type	for	system	system configuration	length (m)	colour indication	material	including	fuse	sensor cables (m)	Colias® cable	note	voltage	can use
364 307 001	Loom	ECU connection	ABS Modular 2	4S/2M	-	-	-	-	-	2x3.0 & 2x6.0	c/w (6.0 m)	28 pin	24V	*
364 307 011	Loom	ECU connection	ABS Modular 2	4S/2M	-	-	-	-	-	4x4.0	c/w (6.0 m)	28 pin	24V	*
364 307 021	Loom	ECU connection	ABS Modular 2	4S/2M	-	-	-	-	-	2x4.0 & 2x6.0	c/w (7.0 m)	28 pin	24V	*
364 307 031	Loom	ECU connection	ABS Modular 2	4S/2M	-	-	-	-	-	2x4.0 & 2x6.0	c/w (7.0 m)	28 pin	24V	*
364 329 001	Loom	ECU connection	ABS Modular 1 Plus	2S/1M	-	-	-	-	-	2x3.0	c/w (4.0 m)	28 pin	24V	●
364 329 011	Loom	ECU connection	ABS Modular 1 Plus	2S/1M	-	-	-	-	-	2x4.0	c/w (6.0 m)	28 pin	24V	●
364 329 021	Loom	ECU connection	ABS Modular 1 Plus	2S/1M	-	-	-	-	-	2x3.0	c/w (7.0 m)	28 pin	24V	●
364 329 031	Loom	ECU connection	ABS Modular 1 Plus	2S/1M	-	-	-	-	-	2x1.5	c/w (4.0 m)	28 pin	24V	●
364 329 041	Loom	ECU connection	ABS Modular 1 Plus	2S/1M	-	-	-	-	-	2x4.0	c/w (7.0 m)	28 pin	24V	●
364 338 001	Loom	ECU connection	ABS Modular 2	2S/2M	-	-	-	-	-	2x3.0	c/w (6.0 m)	28 pin	24V	*
364 338 011	Loom	ECU connection	ABS Modular 2	2S/2M	-	-	-	-	-	2x6.0	c/w (6.0 m)	28 pin	24V	*
364 338 021	Loom	ECU connection	ABS Modular 2	2S/2M	-	-	-	-	-	2x3.0	c/w (7.0 m)	28 pin	24V	*
364 339 001	Loom	ECU connection	ABS Modular 2	4S/2M	-	-	-	-	-	2x3.0 & 2x6.0	w/o	28 pin	24V	*
364 340 001	Loom	ECU connection	ABS Modular 2	4S/2M	-	-	-	-	-	2x3.0 & 2x6.0	c/w (6.0 m)	28 pin; w/o 24N	24V	*
364 340 011	Loom	ECU connection	ABS Modular 2	4S/2M	-	-	-	-	-	4x4.0	c/w (6.0 m)	28 pin; w/o 24N	24V	*
364 341 001	Loom	ECU connection	ABS Modular 2	4S/2M	-	-	-	-	-	2x3.0 & 2x6.0	w/o	28 pin; w/o 24N	24V	*
364 341 011	Loom	ECU connection	ABS Modular 2	4S/2M	-	-	-	-	-	4x4.0	w/o	28 pin; w/o 24N	24V	*
364 343 001	Loom	ECU connection	ABS Modular 2	2S/2M	-	-	-	-	-	2x3.0	w/o	28 pin	24V	*
364 343 011	Loom	ECU connection	ABS Modular 2	2S/2M	-	-	-	-	-	2x6.0	w/o	28 pin	24V	*
364 344 001	Loom	ECU connection	ABS Modular 2	2S/2M	-	-	-	-	-	2x3.0	c/w (6.0 m)	28 pin; w/o 24N	24V	*
364 344 021	Loom	ECU connection	ABS Modular 2	2S/2M	-	-	-	-	-	2x6.0	c/w (6.0 m)	28 pin; w/o 24N	24V	*
364 345 001	Loom	ECU connection	ABS Modular 2	2S/2M	-	-	-	-	-	2x3.0	w/o	28 pin; w/o 24N	24V	*
364 346 001	Loom	ECU connection	ABS Modular 1 Upgrade	2S/1M	-	-	-	-	-	2x3.0	w/o	19 pin; w/o 24N	24V	❖
364 347 001	Loom	ECU connection	ABS Modular 1 Plus	2S/1M	-	-	-	-	-	2x3.0	c/w (6.0 m)	28 pin; w/o 24N	24V	●

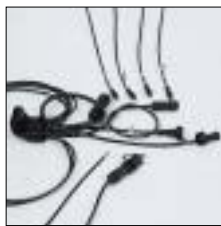
\* Can Use 950 364 419

● Can Use 950 364 418

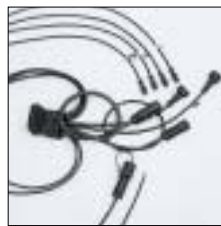
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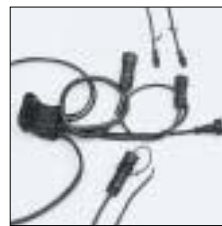
364 307 001



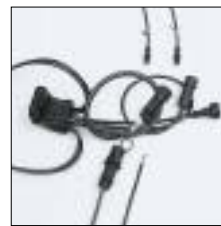
364 307 011



364 307 021



364 329 001



364 329 011



364 329 021



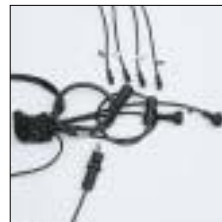
364 338 001



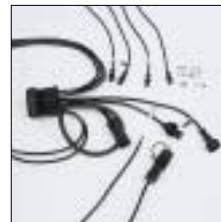
364 338 011



364 338 021



364 339 001



364 340 001



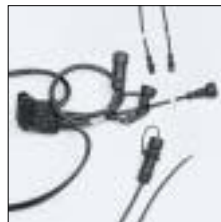
364 340 011



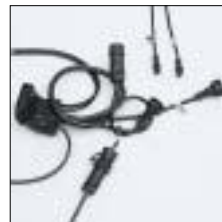
364 341 011



364 343 001



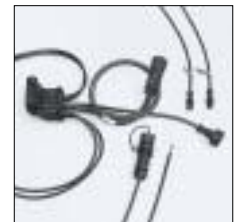
364 344 001



364 345 001



364 346 001



364 347 001

ABS/EBS SYSTEM

## ABS/EBS SYSTEM

part number	type	for	system	system configuration	length (m)	colour indication	material	including	fuse	sensor cables (m)	Coils* cable	note	voltage	can use
364 347 011	Loom	ECU connection	ABS Modular 1 Plus	2S/1M	-	-	-	-	-	2x3.0	c/w (7.0 m)	28 pin; w/o 24N	24V	*
364 348 001	Loom	ECU connection	ABS Modular 1 Plus	2S/1M	-	-	-	-	-	2x3.0	w/o	28 pin	24V	*
364 349 001	Loom	ECU connection	ABS Modular 1 Plus	2S/1M	-	-	-	-	-	2x3.0	w/o	28 pin; w/o 24N	24V	*
364 357 001	Cable & Socket	power ISO 7638	ABS Modular	-	12.0	black	PVC	pins x 5	unfused	-	-	framatone connector fitted	24V	
364 357 011	Cable & Socket	power ISO 7638	ABS Modular	-	9.0	black	PVC	pins x 5	unfused	-	-	framatone connector fitted	24V	
364 358 001	Cable	power ISO 1185 (24N)	ABS Modular 2	-	12.0	-	PVC	-	-	-	-	framatone connector fitted	24V	
364 359 001	Loom	ECU connection	ABS Modular 1 Upgrade	2S/1M	-	-	-	-	-	2x3.0	w/o	19 pin	24V	●
364 359 011	Loom	ECU connection	ABS Modular 1 Upgrade	2S/1M	-	-	-	-	-	2x4.0	w/o	19 pin	24V	●
364 362 011	Cable & Socket	power ISO 7638	ABS Modular	-	9.0	green	PVC	pins x 5	fused	-	-	framatone connector fitted	24V	
364 362 021	Cable & Socket	power ISO 7638	ABS Modular	-	14.0	green	PVC	pins x 5	fused	-	-	framatone connector fitted	24V	
364 364 031	Cable & Socket	power ISO 7638	ABS Modular	-	16.0	green	PVC	pins x 5 (crimp)	fused	-	-	framatone connector loose	24V	
364 366 021	Cable & Socket	power ISO 7638	ABS Modular	-	14.0	black	PUR	pins x 5	unfused	-	-	framatone connector loose	24V	
364 374 001	Cable	diagnostics	Info-centre extension kit	-	6.0	-	PUR	-	-	-	-	framatone bulkhead connector loose	24V	
364 377 001	Cable	diagnostics	Info-centre extension	-	6.0	-	PUR	-	-	-	-	framatone connector fitted	24V	
364 377 011	Cable	diagnostics	Info-centre extension	-	6.0	-	PVC	-	-	-	-	framatone connector fitted	24V	
364 384 001	Cable	sensor extension	ABS Modular	-	3.0	-	PUR	-	-	-	-	for middle sensor	-	
756 12 127	Cable	power ISO 1185 (24N)	ABS MGX	-	12.5	-	PVC	-	-	-	-	2 core (red, white)	24V	
756 12 128	Cable	power ISO 3731 (24S)	ABS MGX	-	12.5	-	PVC	-	-	-	-	2 core (black, brown/black)	24V	
814 001 601	Cable	diagnostics	PC to EBS EB+	-	6.5	-	PUR	-	-	-	-	for direct ECU connection	-	
814 001 611	Cable	diagnostics	PC to EBS EB+	-	15.0	-	PUR	-	-	-	-	for direct ECU connection	-	
814 001 621	Cable	diagnostics	PC to EBS EB+	-	20.0	-	PUR	-	-	-	-	for direct ECU connection	-	

\* Can Use 950 364 418

● Can Use 950 364 417

ABS/EBS SYSTEM



364 347 011



364 348 001



364 349 001



364 357 001



364 357 011



364 358 001



364 359 001



364 359 011



364 362 011



364 362 021



364 364 031



364 366 021



364 377 001



364 377 011



364 384 001



814 001 601



814 001 611



814 001 621

ABS/EBS SYSTEM

part number	type	for	system	system configuration	length (m)	colour indication	material	including	fuse	sensor cables (m)	Colas® cable	note	voltage	can use
814 011 001	Cable	diagnostics	PC to EBS EB+	-	6.5	-	PUR		-	-	-	for Side Of Vehicle connection	-	
814 011 011	Cable	diagnostics	PC to EBS EB+	-	15.0	-	PUR		-	-	-	for Side Of Vehicle connection	-	
815 001 401	PC Interface	diagnostics	PC to EBS EB+	-	-	-	-		-	-	-	-	-	
815 018 001	Head Board Interface	diagnostics	EBS EB+ to Diag+/Info-centre	-	0.45	-	PVC		-	-	-	for ECU -> 08 2005	24V	
950 364 021	Cable	diagnostics	ABS Modal	-	0.3	-	PVC		-	-	-	for inside the ABS Modal gland box	12/24V	
950 364 024	Cable	sensor extension	ABS Modal	-	2.0	-	PUR		-	-	-	Modal only	-	
950 364 026	Cable	sensor extension	ABS Modal	-	6.0	-	PUR	accessories	-	-	-	Modal only	-	
950 364 031	Cable & Socket	power ISO 7638	ABS Modal	-	12.0	green	PUR	pins x 5	fused	-	-	Modal only	24V	
950 364 033	Cable & Plug	power ISO 7638	ABS Modal	-	12.0	-	PUR	pins x 5	-	-	-	drawbar trailers	24V	
950 364 036	Cable	power ISO 3731 (24S)	ABS Modal	-	12.0	-	PUR		-	-	-	Modal only	12/24V	
950 364 042	Cable	power ISO 1185 (24N)	ABS Modal	-	12.0	-	PUR	conduit	-	-	-	Modal only	12/24V	
950 364 043	Cable	power ISO 3731 (24S)	ABS Modal	-	12.0	-	PUR	conduit	-	-	-	Modal only	12/24V	
950 364 050	Cable	Modulator Valve	ABS Modal	-	8.0	-	PUR	accessories	-	-	-	Modal only	24V	
950 364 054	Cable	sensor extension	ABS Modal	-	8.0	-	PUR	accessories	-	-	-	Modal only	-	
950 364 063	Cable	diagnostics	ABS Modal to DDU/Info-centre	-	4.0	-	PVC		-	-	-	for remote DDU	24V	
950 364 072	Socket	power ISO 7638	ABS Modal/Modular	-	-	green	-	pins x 5 (crimp)	fused	-	-		24V	*
950 364 221	Loom	ECU conversion	ABS DGX	60 tooth	-	-	-		-	-	-	conversion from DGX to DGXi 60 tooth	24V	
950 364 402	Socket	power ISO 7638	ABS MGX/Modal/Modular	-	-	black	-	pins x 5 (crimp)	unfused	-	-		24V	*
950 364 403	Plug	power ISO 7638	ABS MGX/Modal/Modular	-	-	-	-	pins x 5, 2x4.0mm, 3x1.5mm	-	-	-		24V	
950 364 404	Cable & Socket	power ISO 7638	ABS MGX	-	12.0	green	PUR	pins x 5	fused	-	-		24V	
950 364 405	Cable & Socket	power ISO 7638	ABS Modal	-	12.0	black	PVC	pins x 5 & conduit	unfused	-	-	Modal only	24V	
950 364 406	Cable & Plug	power ISO 7638	ABS Modal	-	9.0	-	PUR	pins x 5	-	-	-	drawbar trailers	24V	

\* Can Use 950 364 436



814 011 001



814 011 011



815 001 401



950 364 021



950 364 024



950 364 026



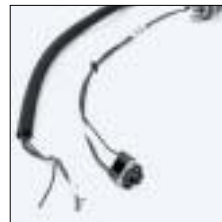
950 364 031



950 364 033



950 364 036



950 364 042



950 364 050



950 364 054



950 364 072



950 364 221



950 364 402



950 364 403



950 364 405



950 364 406

## ABS/EBS SYSTEM

part number	type	for	system	system configuration	length (m)	colour indication	material	including	fuse	sensor cables (m)	Coles® cable	note	voltage	can use
950 364 407	Cable	power ISO 1185 (24N)	ABS Modal	-	12.0	-	PVC	-	-	-	-	Modal only	24V	
950 364 408	Cable	sensor extension	ABS Modal	-	3.0	-	PUR	accessories	-	-	-	Modal only	-	
950 364 410	Cable	sensor extension	ABS Modal	-	10.0	-	PUR	accessories	-	-	-	Modal only	-	
950 364 411	Cable	Modulator Valve	ABS Modal	-	4.0	-	PUR	accessories	-	-	-	Modal only	24V	
950 364 412	Cable	Modulator Valve	ABS Modal	-	6.0	-	PUR	accessories	-	-	-	Modal only	24V	
950 364 413	Cable	Modulator Valve	ABS Modal	-	10.0	-	PUR	accessories	-	-	-	Modal only	24V	
950 364 417	Loom	ECU connection	ABS Modular 1 Upgrade	2S/1M	-	-	-	-	-	2x4.0	w/o	19 pin	24V	
950 364 418	Loom	ECU connection	ABS Modular 1 Plus	2S/1M	-	-	-	-	-	2x4.0	c/w (7.0 m)	28 pin	24V	
950 364 419	Loom	ECU connection	ABS Modular 2	4S/2M	-	-	-	-	-	2x4.0 & 2x6.0	c/w (7.0 m)	28 pin	24V	
950 364 420	Socket	power ISO 7638	ABS Modal/Modular	-	-	red	-	pins x 5 (screw)	unfused	-	-	can replace black socket	24V	*
950 364 421	Cable & Socket	power ISO 7638	ABS Modular	-	12.0	green	PVC	pins x 5	fused	-	-	framatone connector fitted	24V	
950 364 422	Cable & Socket	power ISO 7638	ABS Modular	-	12.0	black	PUR	pins x 5	unfused	-	-	framatone connector fitted	24V	
950 364 423	Cable & Socket	power ISO 7638	ABS Modular	-	12.0	green	PVC	pins x 5	fused	-	-	framatone connector loose	24V	
950 364 424	Cable & Socket	power ISO 7638	ABS Modular	-	12.0	black	PUR	pins x 5	unfused	-	-	framatone connector loose	24V	
950 364 425	Cable	power ISO 1185 (24N)	ABS Modular 1	-	12.0	-	PVC	-	-	-	-	framatone connector fitted	24V	
950 364 426	Cable	power ISO 1185 (24N)	ABS Modular 2	-	12.0	-	PUR	-	-	-	-	framatone connector fitted	24V	
950 364 427	Cable	power ISO 3731 (24S)	ABS Modular	-	12.0	-	PVC	-	-	-	-		24V	
950 364 429	Cable & Plug	power ISO 7638	ABS Modular	-	12.0	-	PVC	pins x 5	-	-	-	framatone connector fitted, drawbar	24V	
950 364 436	Socket	power ISO 7638	universal	-	-	blue	-	pins x 7 unfused	fused+	-	-		24V	
950 364 507	Cable	sensor extension	ABS Modular	-	6.0	-	PUR	-	-	-	-		-	
950 364 818	Framatone Connector Kit	diagnostics	ABS Modular & EB+	-	-	-	-	-	-	-	-	for Side Of Vehicle connection	-	

\* Can Use 950 364 436



ABS/EBS SYSTEM

ABS/EBS SYSTEM

part number	type	for	system	system configuration	length (m)	colour indication	material	including	fuse	sensor cables (m)	Colas <sup>®</sup> cable	note	voltage	can use
950 610 010	Plug	power ISO 7638	EBS EB+	-	-	-	-	pins x 7	unfused	-	-	-	24V	-
950 610 020	Socket	power ISO 7638	EBS EB+	-	-	black	-	pins x 7	unfused	-	-	-	24V	-
950 610 030	Parking Socket	power ISO 7638	EBS EB+	-	-	-	-	pins x 7	-	-	-	-	-	-
950 610 040	Flex Coil (Suzie)	power ISO 7638	EBS EB+	-	4.0	-	PUR	pins x 7	-	-	-	-	24V	-
950 611 010	Flex Coil (Suzie)	power ISO?	all	-	3.5	-	PUR	1x12V & 1x24V metal plug	-	-	-	-	12/24V	-
950 611 030	Flex Coil (Suzie)	power ISO 1185 (24N)	all	-	#	-	PUR	-	-	-	-	-	24V	-
950 611 035	Flex Coil (Suzie)	power ISO 3731 (24S)	all	-	#	-	PUR	-	-	-	-	-	24V	-
950 800 401	Cable & Socket	power ISO 7638	EBS EB+	-	12.0	blue	PUR	pins x 7 & CANBUS ISO 11992	unfused	-	-	-	24V	-
950 800 402	Cable & Socket	power ISO 7638	EBS EB+	-	16.0	blue	PUR	pins x 7 & CANBUS ISO 11992	unfused	-	-	-	24V	-
950 800 403	Cable & Socket	power ISO 7638	EBS EB+	-	18.0	blue	PUR	pins x 7 & CANBUS ISO 11992	unfused	-	-	-	24V	-
950 800 404	Cable & Socket	power ISO 7638	EBS EB+	-	9.0	blue	PUR	pins x 7 & CANBUS ISO 11992	unfused	-	-	-	24V	-
950 800 405	Cable & Socket	power ISO 7638	EBS EB+	-	14.0	blue	PUR	pins x 7 & CANBUS ISO 11992	unfused	-	-	-	24V	-
950 800 406	Cable & Socket	power ISO 7638	EBS EB+	-	6.0	blue	PUR	pins x 7 & CANBUS ISO 11992	unfused	-	-	-	24V	-
950 800 411	Cable & Plug	power ISO 7638	EBS EB+	-	9.0	blue	PUR	pins x 7 & CANBUS ISO 11992	-	-	-	-	24V	-
950 800 412	Cable & Plug	power ISO 7638	EBS EB+	-	12.0	blue	PUR	pins x 7 & CANBUS ISO 11992	-	-	-	-	24V	-
950 800 421	Cable	power ISO 1185 (24N)	EBS EB+	-	12.0	yellow	PUR	-	-	-	-	-	24V	-
950 800 422	Cable	power ISO 1185 (24N)	EBS EB+	-	6.0	yellow	PUR	-	-	-	-	-	24V	-
950 800 423	Cable	power ISO 1185 (24N)	EBS EB+	-	16.0	yellow	PUR	-	-	-	-	-	24V	-
950 800 424	Cable	power ISO 1185 (24N)	EBS EB+	-	4.0	yellow	PUR	-	-	-	-	-	24V	-
950 800 431	Cable	CANBUS (auxillary)	EBS EB+	-	7.0	-	PUR	-	-	-	-	-	24V	-
950 800 432	Cable	CANBUS (auxillary)	EBS EB+	-	18.0	-	PUR	-	-	-	-	-	24V	-
950 800 433	Cable	CANBUS (auxillary)	EBS EB+	-	2.0	-	PUR	-	-	-	-	-	24V	-
950 800 434	Cable	CANBUS (auxillary)	EBS EB+	-	4.0	-	PUR	-	-	-	-	-	24V	-
950 800 441	Cable	sensor extension	EBS EB+	-	3.0	-	PUR	-	-	-	-	-	24V	-
950 800 442	Cable	sensor extension	EBS EB+	-	2.0	-	PUR	-	-	-	-	-	24V	-



950 610 010



950 610 020



950 610 030



950 610 040



950 611 010



950 611 030



950 611 035



950 800 401



950 800 402



950 800 403



950 800 404



950 800 405



950 800 411



950 800 412

ABS/EBS SYSTEM

## ABS/EBS SYSTEM

part number	type	for	system	system configuration	length (m)	colour indication	material	including	fuse	sensor cables (m)	Colas® cable	note	voltage	can use
950 800 443	Cable	sensor extension	EBS EB+	-	6.0	-	PUR		-	-	-		24V	
950 800 444	Cable	sensor extension	EBS EB+	-	10.0	-	PUR		-	-	-		24V	
950 800 445	Cable	sensor extension	EBS EB+	-	14.0	-	PUR		-	-	-		24V	
950 800 446	Cable	sensor extension	EBS EB+	-	8.0	-	PUR		-	-	-		24V	
950 800 447	Cable	sensor extension	EBS EB+	-	12.0	-	PUR		-	-	-		24V	
950 800 451	Cable	REV Pressure Switch	EBS EB+	-	10.0	-	PUR		-	-	-		24V	
950 800 452	Cable	REV Pressure Switch	EBS EB+	-	2.0	-	PUR		-	-	-		24V	
950 800 453	Cable	REV Pressure Switch	EBS EB+	-	0.75	-	PUR		-	-	-		24V	
950 800 454	Cable	REV Pressure Switch	EBS EB+	-	3.0	-	PUR		-	-	-		24V	
950 800 455	Cable	REV Pressure Switch	EBS EB+	-	5.0	-	PUR		-	-	-		24V	
950 800 456	Cable	REV Pressure Switch	EBS EB+	-	8.0	-	PUR		-	-	-		24V	
950 800 461	Cable	diagnostics	EBS EB+ to Diag+/Info-centre	-	6.5	-	PUR		-	-	-	chassis cable	-	
950 800 462	Cable	diagnostics	EBS EB+ to Diag+/Info-centre	-	2.5	-	PUR		-	-	-	chassis cable	-	
950 800 463	Cable	diagnostics	EBS EB+ to Diag+/Info-centre	-	5.0	-	PUR		-	-	-	chassis cable	-	
950 800 464	Cable	diagnostics	EBS EB+ to Diag+/Info-centre	-	15.0	-	PUR		-	-	-	chassis cable	-	
950 800 471	Cable	EB+ 3M link	EBS EB+	-	12.0	white	PUR		-	-	-	(power B - power B link)	-	
950 800 472	Cable	EB+ 3M link	EBS EB+	-	2.0	orange	PUR		-	-	-	(power B - power B link)	-	
950 800 473	Cable	EB+ 3M link	EBS EB+	-	5.0	light beige	PUR		-	-	-	(power B - power B link)	-	
950 800 474	Cable	EB+ 3M link	EBS EB+	-	14.0	red	PUR		-	-	-	(power B - power B link)	-	
950 800 475	Cable	EB+ 3M link	EBS EB+	-	10.0	purple	PUR		-	-	-	(power B - power B link)	-	
950 800 476	Cable	EB+ 3M link	EBS EB+	-	8.0	green	PUR		-	-	-	(power B - power B link)	-	
950 800 481	Cable	auxilliary connection	EBS EB+	-	7.0	-	PUR		-	-	-	for Colas/ILAS-E; DIN 72585	-	
950 800 482	Cable	auxilliary connection	EBS EB+	-	18.0	-	PUR		-	-	-	for Colas/ILAS-E; DIN 72585	-	
950 800 483	Cable	auxilliary connection	EBS EB+	-	1.0	-	PUR		-	-	-	for Colas/ILAS-E; DIN 72585	-	
950 800 484	Cable	auxilliary connection	EBS EB+	-	2.0	-	PUR		-	-	-	for Colas/ILAS-E; DIN 72585	-	
950 800 485	Cable	auxilliary connection	EBS EB+	-	5.0	-	PUR		-	-	-	for Colas/ILAS-E; DIN 72585	-	
950 800 901	Socket	power ISO 7638	EBS EB+	-	-	black	-	pins x 7 (crimp)	unfused	-	-		24V	

ABS/EBS SYSTEM



950 800 443



950 800 451



950 800 455



950 800 901

### ABS/EBS SYSTEM



Junction Box

Service Manual

Warning Lamp

Warning Lamp Controller

part number	description
000 700 042	Service Manual; for ABS Modal
000 700 080	Service Manual; for ABS Modular
003 616 009	Printed Circuit Board; for ABS Modal; for connection of 2 ECU's
003 768 209	Junction Box; for ABS MGX; Printed Circuit Board; ISO 7638, 24S & 24N; for semi-trailer; unfused
003 786 109	Junction Box; for ABS MGX; Printed Circuit Board; ISO 7638, 24S & 24N; for semi-trailer; fused; c/w conduit
003 794 209	Junction Box; for ABS MGX; Printed Circuit Board; ISO 7638, 24S & 24N; for semi-trailer; fused
028 042 409	Load Plate Label; for EPV & EB+; (use only on laser printer)
028 506 809	Label; for ABS general; for ABS; c/w Haldex Brake Systems logo
028 518 909	Label; for ABS Modular; pictoral (replace the diagnostic cap when not in use)
028 525 709	Label; for ABS general; pictoral (>10 km/h + lamp = ABS failure); plastic
028 526 209	Label; for EBS EB+; pictoral (must connect the ISO 7638)
028 527 609	Label; for EBS EB+; 'Haldex EB+'; 32x7.5cm
028 527 709	Label; for EBS EB+; 'Haldex EB+'; 21.5x15cm
028 530 109	Label; for EBS EB+; Load Plate Data
042 507 409	Case; for the original Diagnostic Display Unit
311 067 007	Warning Lamp; green; c/w 11m cable (ADR)
364 328 001	ABS Kit; ECU Modular 1 Plus & modulator valve kit; 2S/1M
393 670 001	ABS Kit; ECU Modular 1 Upgrade & modulator valve kit; 2S/1M; to replace MGX system
750 612 98	ABS Kit; ECU MGX 2 & MCER valve kit; c/w bracket; c/w power cables; to replace Bendix MDR
750 613 34	Warning Lamp; Cab mounted kit



000 700 042

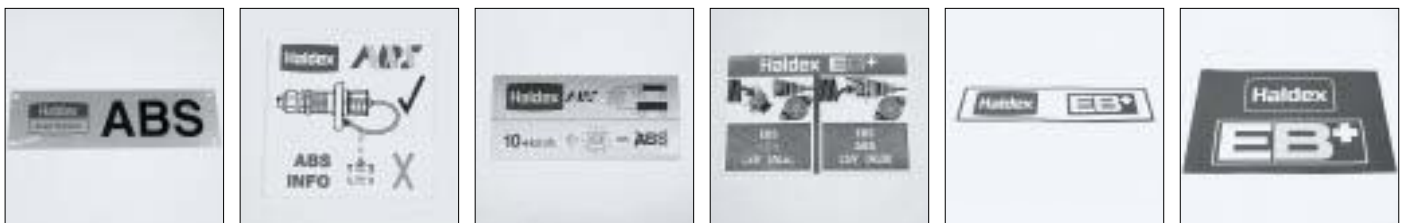
000 700 080

003 616 009

003 768 209

003 786 109

028 042 409



028 506 809

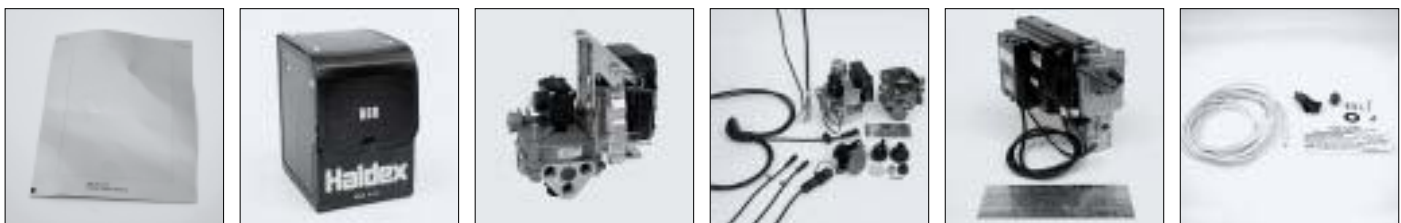
028 518 909

028 525 709

028 526 209

028 527 609

028 527 709



028 530 109

042 507 409

364 328 001

393 670 001

750 612 98

750 613 34



part number	description
756 116 75	Junction Box; for ABS MGX; standard; 24S & 24N
756 121 08	Label; for ABS MGX; ABS instruction (Fruehauf)
756 121 09	Label; for ABS MGX; ABS instruction
759 611 12	Monitor Unit Conversion Kit; for ABS GX; Mark I to Mark II conversion
815 012 001	Stability Sensor (Accelerometer); cable (m): 2.5
815 015 001	Lining Wear Sensor Interface; for EBS EB+; c/w various cables (PUR); standard version
815 016 001	Lining Wear Sensor Interface; for EBS EB+; c/w various cables (PUR); Meritor version
950 364 111	Warning Lamp Controller; for ABS MGX; ballast & relay
950 364 303	Monitor Unit; for ABS GX; Mark II; 24V
950 364 602	Sensor & Exciter Kit; for ROR 22.5" brake; c/w 60 tooth pressed exciter
950 364 607	Sensor & Exciter Kit; for BPW 10-12 tonne axle
950 364 701	Label; for ABS DGX; ABS instruction
950 364 702	Label; for ABS general; pictoral (>10 km/h + lamp = ABS failure)
950 364 710	Warning Lamp; green; not assembled; w/o bracket; w/o bulb
964 009 001	Sensor & Exciter Kit; (2x 950364503 & 1x 100000001); for BPW 9 tonne axle

ABS/EBS SYSTEM



756 116 75



756 121 08



756 121 09



759 611 12



815 012 001



815 015 001



815 016 001



950 364 111



950 364 303



950 364 607



950 364 701



950 364 702



950 364 710

ABS/EBS SYSTEM



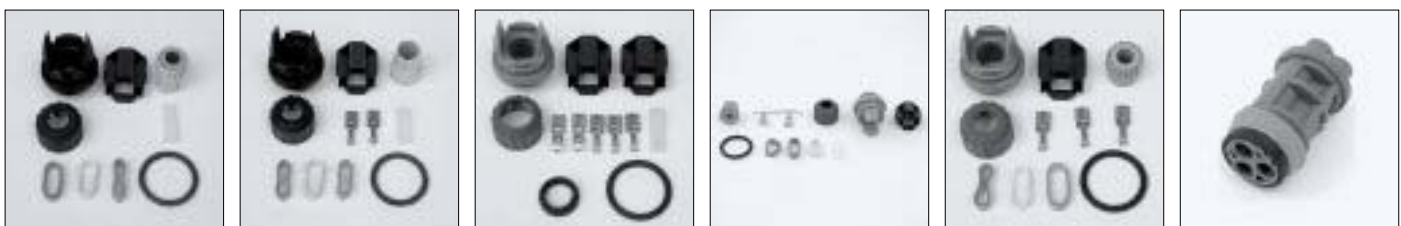
Pin

Sensor Sleeve

Manifold Kit

Bulb

part number	description
003 787 409	Click-fit Connector Kit; for ABS Modal ECU gland box (4S/2M system)
003 787 509	Click-fit Connector Kit; for ABS Modal ECU gland box (4S/3M system)
003 791 909	Click-fit Connector Kit; for ABS Modal ECU gland box; for ISO 7638 cable
003 792 009	Click-fit Connector Kit; for ABS Modal ECU gland box; for sensor cable
003 792 109	Click-fit Connector Kit; for ABS Modal ECU gland box; for modulator valve cable
003 918 409	Blanking Plug; for EBS EB+ ECU (universal); for positions S2A, S2B, PSW & AUX1-5
014 700 809	Bracket; for ABS Sensor (ABS DGX); for axle connection
014 700 909	Bracket; for ABS Sensor (ABS DGX); for axle connection
014 705 709	Bracket; for ABS Sensor (ABS DGX); for axle connection
014 717 109	Bracket; for ABS Sensor (ABS DGX); for axle connection; for 60 tooth sensor
015 502 909	Bracket; for ABS Modular (1M system); for valve & ECU chassis connection
016 700 809	Stud; for ABS Sensor (ABS DGX); for axle connection
024 500 309	O-ring; for ABS Modal ECU click-fit blanking plug (027503209); for ABS Modal ECU gland box
025 049 209	Washer; for SPS Valve Elbow Connector (ABS DGX); rubber
026 500 009	Blanking Plug; for DDU socket
027 503 109	Click-fit Connector; for ABS Modal ECU gland box
027 503 209	Click-fit Blanking Plug; for ABS Modal ECU gland box
027 503 309	Inhibit Key; for ABS Modal; for ABS Modal cables
027 503 509	3-way Connector Housing; for ABS Modal; for ABS Modal cables
027 504 309	Nut; for ABS Modal ECU click-fit connector; for 5 core cable



003 787 409

003 787 509

003 791 909

003 792 009

003 792 109

003 918 409



014 700 809



014 705 709



014 717 109



016 700 809



024 500 309



025 049 209



026 500 009



027 503 109



027 503 209



027 503 309



027 503 509



027 504 309

ABS/EBS SYSTEM

part number	description
027 504 409	Cable Grip; for ABS Modal ECU click-fit connector; for 3 core cable; 5-9mm
027 504 509	Cable Grip; for ABS Modal ECU click-fit connector; for 5 core cable; 6-12mm
027 526 009	Blanking Plug; for EBS EB+ Lining Wear Sensor Interface (815015001)
042 011 309	Pin; for ISO 7638 Plug; female; 6.0 mm
042 011 409	Pin; for ISO 7638 Plug; female; 6.0 mm
042 507 909	Soldered Connector; for ABS DGXi Loom; for DDU connection
042 516 609	Nut; for ABS Modal ECU click-fit connector; for ISO 7638 cable
042 516 709	Washer; for ABS Modal ECU click-fit connector; rubber; for ISO 7638 cable
042 516 809	Nut Gland; for ISO 7638 Socket
042 548 009	Spade Connector; for electrical connection; x1; for 1.5 mm cable
042 548 109	Spade Connector; for electrical connection; x1; for 6.0 mm cable
042 549 509	Spade Connector; for electrical connection; x1; for 2.5 mm cable
042 566 409	Pin; for ISO 7638 Socket; x1; 1.5 mm
042 572 209	Pin; for ISO 7638 Socket; male; 1.5 mm; fused
056 501 009	Bail Latch; for ABS Modular; old type
056 501 109	Bail Latch; for ABS Modular; new type
059 511 409	Cable Marker; 1A
059 511 509	Cable Marker; 1B
059 511 609	Cable Marker; 3A
059 511 709	Cable Marker; 2A
059 511 809	Cable Marker; 2B
059 511 909	Cable Marker; 3B
059 512 309	Sensor Sleeve; for ABS Sensor (80 & 100 tooth); pressed type
059 512 409	Cable Marker (elastic band); red
059 512 509	Cable Marker (elastic band); blue
756 102 45	Heat Shrink Sleeve; for electrical connection; for crimp connectors
756 113 39	Flag Receptacle; for ABS GX ECU connector
756 117 15	Bolt; for ABS Sensor (60 tooth); M5x20



### ABS/EBS SYSTEM

part number	description
756 117 59	Exhaust Valve Piston; for MCER Valve (ABS MGX)
756 118 18	Bracket; for ABS Sensor (ABS MGX); for axle connection
756 118 20	Bracket; for ABS MGX; for MCER Valve & ECU chassis connection
756 123 02	Spade Connector; for electrical connection; x1; for ABS DGX diagnostic interface
756 124 09	Sensor Adaptor; for ABS Sensor (ABS MGX); In-axle sensor
756 124 11	Drive Shaft; for In-hub Sensor (ABS MGX)
756 126 53	Bar Jumper; for ABS MGX ECU (green, black & grey casing); straight (dog bone)
756 130 41	Connector Housing; for SPS Valve Elbow Connector (ABS DGX); elbow section
756 130 56	Nut; for SPS Valve Elbow Connector (ABS DGX)
756 130 57	Grommet; for SPS Valve Elbow Connector (ABS DGX); rubber; for crimp connectors
756 132 18	Connection Box; for electrical connection (ABS MGX); orange
759 610 02	Heat Shrink Sleeve; for electrical connection; x10
759 610 04	In-line Crimp; for electrical connection; x10
950 364 018	Manifold Kit; for ABS Modal (3M system)
950 364 023	Bracket; for ABS Modal (1M system); for valve & ECU chassis connection
950 364 061	Click-fit Connector Kit; for ABS Modal ECU gland box; c/w connectors & blanking plugs
950 364 074	Silencer Kit; for ABS Modulator Valve
950 364 075	Manifold Kit; for ABS Modal (2M system); c/w input restrictor
950 364 108	Polar Fuse Board; for ABS MGX ECU (universal)
950 364 110	Flow Control Valve; for MCER Valve (ABS MGX); male to female; tandem axle trailers with mechanical suspension only
950 364 112	Lid; for ABS MGX ECU; black
950 364 218	Repair Kit; for SPS Valve (ABS DGX)
950 364 219	Valve Base Kit; for SPS Valve (ABS DGX)
950 364 220	Electrical Connector Kit; for SPS Valve (ABS DGX)
950 364 401	Pin; for ISO 7638 Socket (green cover); fused
950 364 430	Pin Kit; for ISO 7638 Socket; fused
950 364 711	Bulb; for ABS trailer warning lamp; 24V, 5W; double pole
950 800 903	Pressure Switch Kit; for Relay Emergency Valve (EBS EB+); c/w O-ring & Backing Washer
LAMPMOD	Bulb Kit; for ABS Modal



part number	description
750 613 74	Reset Tool; for ABS MGX
815 001 001	PC Interface Software Kit; for EBS EB+; DIAG+; version II; for direct ECU & Side Of vehicle connection
903 030 001	Test Set; for ABS MGX; c/w loom
903 045 001	ABS Diagnostic Display Unit (DDU); for ABS DGX/Modal; to replace old DDU
903 046 001	PC Interface Software Kit; for ABS Modular; End Of Line Test (EOLT); Windows version; c/w guide
905 030 001	Loom; for ABS MGX; c/w bag; part of ABS MGX ECU test kit 903030001



750 613 74



815 001 001



903 030 001



903 045 001



903 046 001



905 030 001

**AIR SUSPENSION/LIFT AXLE**

Also known as Container Valve.

Raise/Lower Valves are fitted to commercial vehicles with air suspension and allow the operator to raise or lower the chassis height. Their main function is to allow vehicles to be raised or lowered to the same height as loading bays, to allow easy access to the vehicle.

Electro-Pneumatic Raise/Lower Valves are similar to the above but the circuits are controlled electrically. It is also possible to operate the function directly from the cabin.



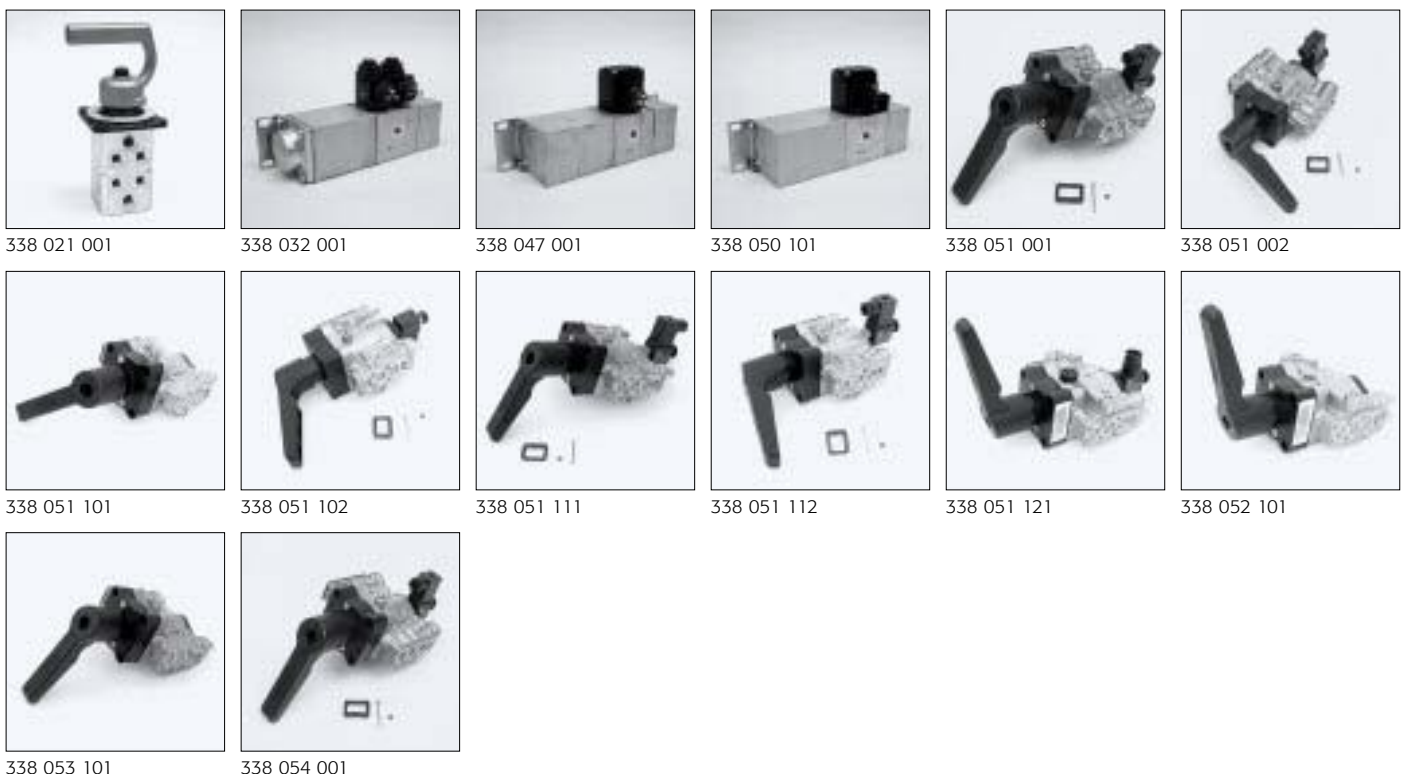
Aluminium

Electro-magnetic

Colas®

The Colas® Valve has many additional optional features, including a 'dead mans handle' and automatic reset to ride height.

part number	type	ports	push-in fittings	return to ride height	dead man's handle	handle at 90 degrees	voltage	electrical connection	dual circuit	note
338 021 001	pneumatic (Aluminium)	4xM12x1.5 & 2xM14x1.5	w/o	w/o	w/o	no	-	-	yes	
338 031 611	electro-magnetic	-	-	w/o	w/o	-	24V	1x M27, 3 pin	yes	
338 032 001	electro-magnetic	-	-	w/o	w/o	-	24V	2x M27, 3 pin	yes	
338 047 001	electro-magnetic	-	-	w/o	w/o	-	24V	1x M27, 3 pin	yes	
338 050 101	electro-magnetic	-	-	w/o	w/o	-	24V	1x square, 4 pin	yes	
338 051 001	Colas®	8mm	c/w	c/w	c/w	no	24V	flat x 3	yes	
338 051 002	Colas®	8mm	c/w	c/w	c/w	yes	24V	flat x 3	yes	
338 051 101	Colas®	8mm	c/w	c/w	c/w	no	24V	flat x 3	yes	
338 051 102	Colas®	8mm	c/w	c/w	c/w	yes	24V	flat x 3	yes	
338 051 111	Colas®	8mm	c/w	c/w	c/w	no	24V	flat x 3	yes	c/w 13-4 pneumatic port
338 051 112	Colas®	8mm	c/w	c/w	c/w	yes	24V	flat x 3	yes	c/w 13-4 pneumatic port
338 051 121	Colas®	8mm	c/w	c/w	c/w	no	24V	DIN bayonett, 2 pin	yes	c/w filter
338 051 122	Colas®	8mm	c/w	c/w	c/w	yes	24V	DIN bayonett, 2 pin	yes	
338 051 131	Colas®	8mm	c/w	c/w	c/w	no	24V	DIN bayonett, 2 pin	yes	c/w 13-4 pneumatic port
338 051 132	Colas®	8mm	c/w	c/w	c/w	yes	24V	DIN bayonett, 2 pin	yes	c/w 13-4 pneumatic port
338 051 141	Colas®	8mm	c/w	c/w	c/w	no	24V	flat x 3	yes	c/w filter
338 052 101	Colas®	8mm	c/w	w/o	c/w	no	-	-	yes	
338 052 102	Colas®	8mm	c/w	w/o	c/w	yes	-	-	yes	
338 053 002	Colas®	8mm	c/w	w/o	w/o	yes	-	-	yes	
338 053 101	Colas®	8mm	c/w	w/o	w/o	no	-	-	yes	
338 054 001	Colas®	10mm	c/w	c/w	c/w	no	24V	flat x 3	yes	



338 021 001

338 032 001

338 047 001

338 050 101

338 051 001

338 051 002

338 051 101

338 051 102

338 051 111

338 051 112

338 051 121

338 052 101

338 053 101

338 054 001

## AIR SUSPENSION/LIFT AXLE

part number	type	ports	push-in fittings	return to ride height	dead man's handle	handle at 90 degrees	voltage	electrical connection	dual circuit	note
338 054 002	Colas®	10mm	c/w	c/w	c/w	yes	24V	flat x 3	yes	
338 055 002	Colas®	8mm	c/w only	pneumatic	c/w	yes	-	-	yes	c/w 13-4 pneumatic port
338 055 101	Colas®	8mm	c/w only	pneumatic	c/w	no	-	-	yes	c/w 13-4 pneumatic port
338 056 001	Colas®	10mm	c/w	w/o	c/w	no	-	-	yes	
338 056 002	Colas®	10mm	c/w	w/o	c/w	yes	-	-	yes	
338 057 001	Colas®	8mm	c/w	c/w	c/w	no	24V	flat x 3	no	
338 057 002	Colas®	8mm	c/w	c/w	c/w	yes	24V	flat x 3	no	
338 057 101	Colas®	8mm	c/w	c/w	c/w	no	24V	flat x 3	no	
338 058 101	Colas®	8mm	c/w	c/w	c/w	no	24V	DIN bayonett, 2 pin	no	
338 059 101	Colas®	8mm	c/w	w/o	c/w	yes	-	-	no	
960 151 005	Colas® Valve Kit	8mm	c/w	c/w	c/w	no	24V	flat x 3	yes	(338051101+000800004+ PLATINE COLAS®)

AIR SUSPENSION/LIFT AXLE



338 055 101



338 056 001



338 057 001



338 057 101



338 058 101



338 059 101

AIR SUSPENSION/LIFT AXLE

Also known as Height Control Valve.

Fitted to vehicles with air suspension, Levelling Valves control the volume in the suspension air bags to maintain a constant height between the chassis and axle. Variations in the height of the chassis, resulting from load variations, are equalized by inflation or deflation of the air bags, in proportion to the respective load carried by the vehicle.

A height limitation feature allows a maximum vehicle height to be set.

Some versions include a dual ride height. This is used on, for example, "Mega" trailers, lift axles, "kneeling" on buses, etc.

EGP = Engineering Grade Plastic

CR = Controlled Response

IR = Immediate Response

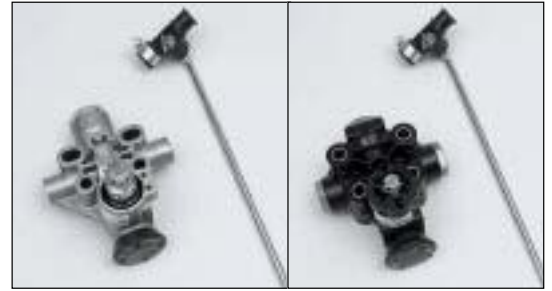
CF = Controlled Flow



CR

IR

CF



Aluminium

EGP

part number	version	type	main ports	lever	restricted flow	height limitation	fittings	note
612 017 001	aluminium	1.25	M12x1.5	w/o (round)	w/o	w/o		
612 017 061	aluminium	1.25	M12x1.5	loose/round	w/o	w/o		
612 017 071	aluminium	1.25	M12x1.5	loose/round	w/o	w/o		
612 017 091	aluminium	3.0	M12x1.5	loose/round	w/o	w/o		
612 031 001	aluminium	1.3	M12x1.5 & M16x1.5	w/o (flat)	w/o	c/w		w/o protection cap
612 031 011	aluminium	1.3	M12x1.5 & M16x1.5	w/o (flat)	w/o	c/w		c/w protection cap
612 032 001	aluminium	1.3	M12x1.5 & M16x1.5	loose/round	c/w	c/w		
612 035 001	EGP	1.25	M12x1.5	w/o (round)	c/w	w/o		
612 035 011	EGP	1.25	M12x1.5	loose/round	c/w	w/o		
612 035 021	EGP	3.0	M12x1.5	loose/round	c/w	w/o		
612 035 031	EGP	4.0	M12x1.5	loose/round	c/w	w/o		
612 035 041	EGP	1.25	8 mm push-in	loose/round	c/w	w/o		
612 035 051	EGP	3.0	8 mm push-in	loose/round	c/w	w/o		
612 035 061	EGP	4.0	8 mm push-in	loose/round	c/w	w/o		
612 035 071	EGP	5.0	8 mm push-in	loose/round	c/w	w/o		
612 036 001	EGP	1.25	1/4"-18NPTF	w/o (round)	c/w	w/o		
612 046 011	EGP	3.0	8 mm push-in	loose/round	c/w	c/w		c/w 2nd ride height @ 20 degrees
612 046 031	EGP	3.0	8 mm push-in	loose/round	c/w	c/w		c/w 2nd ride height @ 35 degrees
612 046 111	EGP	3.0	8 mm push-in	loose/round	c/w	c/w		c/w 2nd ride height @ 20 degrees
612 048 101	EGP	1.25	M12x1.5	assembled/flat/straight/120mm	c/w	w/o		EvoBus



612 017 001

612 017 061/071/091

612 031 001

612 031 011

612 032 001

612 035 011/021/031



612 035 041/051

612 035 061/071

612 036 001

612 046 011

612 046 111

612 048 101



## AIR SUSPENSION/LIFT AXLE

part number	version	type	main ports	lever	restricted flow	height limitation	fittings	note
612 048 111	EGP	3.0	M12x1.5	assembled/flat/60mm offset/160mm	c/w	w/o		EvoBus
612 048 121	EGP	4.0	M12x1.5	assembled/flat/straight/120mm	c/w	w/o		EvoBus
612 048 131	EGP	1.25	M12x1.5	assembled/flat/60mm offset/160mm	c/w	w/o		EvoBus
612 048 141	EGP	1.25	8 mm push-in	assembled/flat/straight/120mm	c/w	w/o		EvoBus
612 048 151	EGP	3.0	8 mm push-in	assembled/flat/60mm offset/160mm	c/w	w/o		EvoBus
612 048 161	EGP	4.0	8 mm push-in	assembled/flat/straight/120mm	c/w	w/o		EvoBus
612 048 171	EGP	3.0	M12x1.5	assembled/flat/30mm offset/70mm	c/w	w/o		EvoBus
612 048 181	EGP	1.25	M12x1.5	assembled/flat/60mm offset/120mm	c/w	w/o		EvoBus
612 048 191	EGP	3.0	M12x1.5	assembled/flat/60mm offset/120mm	c/w	w/o		EvoBus
900 540 07	CR (Zinc)	-	1/8" NPT	assembled/flat/offset	w/o	w/o	1/4"	
905 541 14	CR (Zinc)	-	1/4" NPT	assembled/flat/offset	w/o	w/o		
905 541 47	CR (Zinc)	-	1/8" NPT	assembled/flat/offset	w/o	w/o	M10	Iveco Eurocargo 60-10
905 541 83	CR (Zinc)	-	1/8" NPT	assembled/flat/offset	w/o	w/o	3/8"	
905 542 41	IR (Zinc)	-	1/4" NPT	w/o (round)	w/o	w/o		
905 542 73	IR (Zinc)	-	M12x1.5	w/o (round)	w/o	w/o		dump valve normally open
905 543 34	CR (Zinc)	-	1/8" NPT	assembled/flat/offset	w/o	w/o	1/4" & 3/8"	dump valve normally open
905 544 57	CR (Zinc)	-	1/8" NPT	assembled/flat/offset	w/o	w/o	M10	dump valve normally open
905 546 48	CR (Zinc)	-	1/8" NPT	assembled/flat/offset	w/o	w/o	1/4" & 3/8"	dump valve normally closed
905 546 60	CF (plastic)	-	1/4" NPT	w/o (flat)	w/o	w/o		for truck cab suspension
905 546 63	CF (plastic)	-	M12x1.5	w/o (flat)	w/o	w/o		for truck cab suspension

AIR SUSPENSION/LIFT AXLE



612 048 111



612 048 131



612 048 171



612 048 181



900 540 07



905 541 47



905 542 41



905 542 73



905 544 57

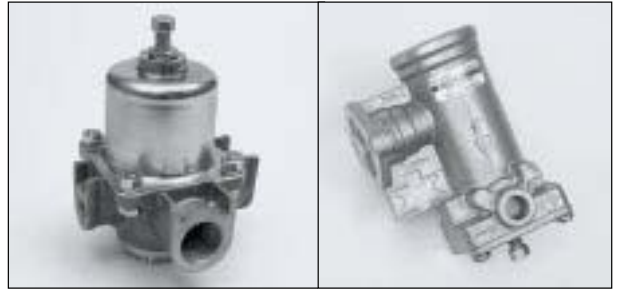


905 546 63

**AIR SUSPENSION/LIFT AXLE**

Also known as Pressure Reducing Valve or Pressure Regulator.

Pressure Limiting Valves are used mainly in lift axle systems, where the air bags operate at a pressure lower than the system pressure. They can also be used to supply pressure limited pressurised air to other ancillary devices.



part number	pre-set pressure (bar)	setting range (bar)	ports	max. operating pressure (bar)
357 001 002	0.8	0.0-1.6	M22x1.5	8
357 001 004	0.2	0.0-1.6	M22x1.5	10
357 004 021	6.0	0.0-7.5	M22x1.5	10
357 004 024	3.5	0.0-7.5	M22x1.5	10
357 004 025	4.5	0.0-7.5	M22x1.5	10
357 004 051	5.0	5.0-10.0	M22x1.5	10
357 012 021	7.3	6.5-8.5	M22x1.5	12
357 012 022	7.5	6.5-8.5	M22x1.5	12
357 012 031	5.0	0.0-8.5	M22x1.5	12
357 012 032	6.0	0.0-8.5	M22x1.5	12
567 002 002	1.5	0.0-1.5	M12 & M16x1.5	10
567 006 001	0.3	-	M12x1.5	8

AIR SUSPENSION/LIFT AXLE



357 001 002



357 004 021



357 004 024



357 004 025



357 012 021



357 012 022



357 012 031



567 002 002

## AIR SUSPENSION/LIFT AXLE

ILAS® (Integrated Lift-Axle System) integrates a number of valves, required to control a lift-axle, into one compact unit. Depending on the selected option, it can be configured to operate fully automatically to control the lift-axle, or to manually lift the axle with automatic drop function. It ensures correct axle positioning, with all loads, minimising the cost of wear on tyres and running gear. The traction-support function allows manual axle-lower, for extra traction in slippery conditions.

ILAS® is the original 2 circuit, 6 port system.

ILAS® III is the next generation, smaller, single circuit, 5 port system.

ILAS®-E is designed specifically to work with electronically controlled air brake systems (EB+ or EPV).



ILAS®

ILAS® III

ILAS®-E

part number	version	control	auto-lower setting (bar)	auto-lower range (bar)	auto-raise setting (bar)	auto-raise range (bar)	manual operation	ports	note
352 028 001	ILAS®	pneumatic/manual	2.5	2.5(+/-0.3)	-	-	raise & lower	6x 8mm push-in	
352 028 011	ILAS®	pneumatic/manual	3.0	3.0-5.0	-	-	raise & lower	6x 8mm push-in	
352 028 012	ILAS®	pneumatic/manual	3.5	3.0-5.0	-	-	raise & lower	6x 8mm push-in	
352 028 013	ILAS®	pneumatic/manual	4.0	3.0-5.0	-	-	raise & lower	6x 8mm push-in	
352 028 014	ILAS®	pneumatic/manual	4.5	3.0-5.0	-	-	raise & lower	6x 8mm push-in	
352 032 030	ILAS®	pneumatic/manual	3.0	3.0-5.0	-	-	raise only	6x 8mm push-in	
352 032 035	ILAS®	pneumatic/manual	3.5	3.0-5.0	-	-	raise only	6x 8mm push-in	
352 032 045	ILAS®	pneumatic/manual	4.5	3.0-5.0	-	-	raise only	6x 8mm push-in	
352 035 A35	ILAS®	pneumatic only	3.5	3.0-5.3	0.7	0.7-3.1	none	6x 8mm push-in	
352 035 C42	ILAS®	pneumatic only	4.2	2.1-2.9	0.9	0.9-1.9	none	6x 8mm push-in	
352 035 H30	ILAS®	pneumatic only	3.0	3.0-5.3	1.4	0.7-3.1	none	6x 8mm push-in	
352 035 P36	ILAS®	pneumatic only	3.6	3.6-6.0	2.2	1.5-3.2	none	6x 8mm push-in	
352 037 I32	ILAS®	pneumatic/manual/electric	3.2	3.0	1.5	0.7-2.2	raise & lower	6x 8mm push-in	Schwarzmueller
352 037 Z51	ILAS®	pneumatic/manual/electric	5.1	3.6-6.0	3.2	0.7-3.2	raise & lower	6x 8mm push-in	Schwarzmueller
352 047 025	ILAS® III	pneumatic/manual	2.5	1.5-2.9	-	0.9-1.9	raise & lower	5x 8mm push-in	basic version
352 047 030	ILAS® III	pneumatic/manual	3.0	3.0-5.3	-	-	raise & lower	5x 8mm push-in	
352 047 032	ILAS® III	pneumatic/manual	3.2	3.0-5.3	-	-	raise & lower	5x 8mm push-in	
352 047 035	ILAS® III	pneumatic/manual	3.5	3.0-5.3	-	-	raise & lower	5x 8mm push-in	
352 047 040	ILAS® III	pneumatic/manual	4.0	3.6-6.0	-	-	raise & lower	5x 8mm push-in	
352 047 045	ILAS® III	pneumatic/manual	4.5	3.6-6.0	-	-	raise & lower	5x 8mm push-in	
352 047 048	ILAS® III	pneumatic/manual	4.8	3.6-6.0	-	-	raise & lower	5x 8mm push-in	
352 047 100	ILAS® III	pneumatic/manual	unset	3.0-5.3	-	-	raise & lower	5x 8mm push-in	
352 047 200	ILAS® III	pneumatic/manual	unset	1.5-2.9	-	-	raise & lower	5x 8mm push-in	
352 049 000	ILAS® III	pneumatic/manual	unset	3.6-6.0	-	-	raise & lower	6x M12x1.5	
352 049 100	ILAS® III	pneumatic/manual	unset	3.0-5.3	-	-	raise & lower	6x M12x1.5	
352 049 200	ILAS® III	pneumatic/manual	unset	1.5-2.9	-	-	raise & lower	6x M12x1.5	
352 051 000	ILAS® III	pneumatic only	unset	3.6-6.0	unset	1.5-3.0	none	5x 8mm push-in	
352 051 100	ILAS® III	pneumatic only	unset	3.0-5.3	unset	0.8-3.5	none	5x 8mm push-in	



352 028 014



352 032 045



352 035 A35



352 037 Z51



352 047 200



352 049 100



352 049 200

AIR SUSPENSION/LIFT AXLE

**AIR SUSPENSION/LIFT AXLE**

part number	version	control	auto-lower setting (bar)	auto-lower range (bar)	auto-raise setting (bar)	auto-raise range (bar)	manual operation	ports	note
352 051 200	ILAS® III	pneumatic only	unset	2.5-2.9	unset	0.8-3.5	none	5x 8mm push-in	
352 051 I40	ILAS® III	pneumatic only	4.0	3.0-5.3	1.5	0.7-3.1	none	5x 8mm push-in	
352 054 E35	ILAS®	pneumatic only	3.5	3.0-5.3	1.1	0.7-3.1	none	6x 8mm push-in	
352 054 I33	ILAS®	pneumatic only	3.3	3.0-5.3	1.5	0.7-3.1	none	6x 8mm push-in	
352 054 X53	ILAS®	pneumatic only	5.3	2.5-6.0	3.0	0.8-3.5	none	6x 8mm push-in	Schmitz
352 061 101	ILAS®-E	electric	-	-	-	-	none	4x M16x1.5	blade terminal 3-pins
352 061 111	ILAS®-E	electric	-	-	-	-	none	4x M16x1.5	DIN Bayonet DIN 72585-A1-2.1-SN/K1
352 062 101	ILAS®-E	electric	-	-	-	-	none	4x 8mm push-in	blade terminal 3-pins
352 062 111	ILAS®-E	electric	-	-	-	-	none	4x 8mm push-in	DIN Bayonet DIN 72585-A1-2.1-SN/K1

AIR SUSPENSION/LIFT AXLE



352 051 I40



352 054 E35



352 054 I33



352 054 X53



352 061 101



352 061 111



352 062 101



352 062 111

# Multi-Way Valve



## AIR SUSPENSION/LIFT AXLE

Multi-way valves are used for charging or discharging in pneumatic control systems.

3/2-Way Valves are used to switch an air supply from one port to another, or cut off an air supply. They are commonly used to control lift axles on air suspension systems, and rear steer axles. The lift axle of an unladen vehicle can be raised manually but will be automatically lowered when the vehicle is laden.

3/2-Way Solenoid Valves are as above but electronically controlled.

3-Way Pilot Valves are also used for manual or automatic charging/discharging in pneumatic control systems, and for lift axle control.



Push-Button Valve

Push Pull Valve



3/2-Way Solenoid Valve

3-Way Pilot Valve

AIR SUSPENSION/LIFT AXLE

part number	type	way	control	knob	ports	bellow	mounting point	filter	nominal diameter (mm)	voltage	cable exit	max. operating pressure (bar)	note
332 005 021	Push Button Valve	3/2-way	manual	round	M12x1.5	w/o	-	inlet	-	-	-	8.0	
332 005 141	Push Button Valve	3/2-way	manual	round	M12x1.5	w/o	-	w/o	-	-	-	8.0	knob ±6 degrees pivotable
352 022 001	Control Valve	3/2-way	pneumatic	w/o	M16x1.5 & M22x1.5	w/o	c/w	w/o	-	-	-	8.5	2.5 bar operating pressure
352 022 011	Control Valve	3/2-way	pneumatic	w/o	M16x1.5 & M22x1.5	w/o	c/w	w/o	-	-	-	8.5	3.0 bar operating pressure
352 042 001	Control Valve	3/2-way	manual (auto-drop)	black, round, c/w label	M16x1.5 & M22x1.5	c/w	w/o	w/o	-	-	-	8.5	1.5 bar operating pressure
352 042 011	Control Valve	3/2-way	manual (auto-drop)	black, square, c/w label	M16x1.5 & M22x1.5	c/w	c/w	w/o	-	-	-	8.5	0.6 bar operating pressure
352 053 001	3/2-Way Valve	3/2-way	pneumatic	w/o	M16x1.5 & M22x1.5	w/o	c/w	w/o	-	-	-	8.5	2.0 bar switch pressure
352 057 001	Control Valve	3/2-way	manual (auto-drop)	black, square, c/w label	M16x1.5 & M22x1.5	c/w	w/o	w/o	-	-	-	8.5	1.5 bar control pressure
352 057 011	Control Valve	3/2-way	manual (auto-drop)	black, square, c/w label	M16x1.5 & M22x1.5	c/w	w/o	w/o	-	-	-	8.5	0.6 bar control pressure
360 009 141	3/2-Way Solenoid Valve	3/2-way	electronic	-	-	-	-	exhaust	-	12-24V	above	8.0	normally exhausting
360 009 241	3/2-Way Solenoid Valve	3/2-way	electronic	-	-	-	-	w/o	-	12-24V	above	8.0	exhausting or charging, c/w connection for 6mm tube
360 009 341	3/2-Way Solenoid Valve	3/2-way	electronic	-	-	-	-	w/o	-	12-24V	above	8.0	exhausting or charging, basic version
551 018 001	3/2-Way Valve	3/2-way	manual	plunger	M14x1.5	-	-	-	6.0	-	-	8.0	
554 005 001	3/2-Way Valve	3/2-way	pneumatic	w/o	M14x1.5	-	-	-	6.0	-	-	8.0	charge @ 2.7 Bar, discharge @ 0.9-0.15 Bar



332 005 021

332 005 141

352 022 001

352 022 011

352 042 001

352 042 011



352 053 001

360 009 141

360 009 241

360 009 341

551 018 001

554 005 001

**AIR SUSPENSION/LIFT AXLE**

part number	type	way	control	knob	ports	bellow	mounting point	filter	nominal diameter (mm)	voltage	cable exit	max. operating pressure (bar)	note
554 020 001	3/2-Way Valve	3/2-way	pneumatic	w/o	M16x1.5	-	-	-	-	-	-	10.0	
905 54 614	3-Way Pilot Valve	3/2-way	pneumatic	-	A=M12 B=M10	-	c/w	-	-	-	-	8.5	
905 54 615	3-Way Pilot Valve	3/2-way	pneumatic	-	1/4" NPT	-	c/w	-	-	-	-	8.5	
905 54 977	3-Way Pilot Valve	3/2-way	pneumatic	-	3/8" push-in & 1/4" push-in	-	c/w	-	-	-	-	8.5	
905 54 990	3-Way Pilot Valve	3/2-way	pneumatic	-	3/8" push-in	-	c/w	-	-	-	-	8.5	

AIR SUSPENSION/LIFT AXLE



554 020 001



905 54 614



905 54 615

# Shut-Off Cock



## AIR SUSPENSION/LIFT AXLE

Shut-Off Cocks are used to switch off an air supply. They are commonly used on lift axle systems to lower the lift axle for servicing. The exhaust is used to exhaust the line behind the cock; in the example of a lift-axle, the lift-axle air bag would deflate through the cock exhaust.



part number	type	turn	exhaust	ports
334 047 001	DIN 74293	1/4	c/w	M22x1.5
334 077 001	type B	1/4	c/w	M22x1.5

AIR SUSPENSION/LIFT AXLE



334 047 001



334 077 001

**AIR SUSPENSION/LIFT AXLE**

part number	description
003 607 619	Timer Relay Kit; for ILAS® 352032...; 24V
014 707 109	Data Plate; for raise/lower valve 338021001
014 707 209	Data Plate; for raise/lower valve 338021001
028 030 309	Information Label; for raise/lower valve 338036006; general instruction for 'raise & lower' & 'drive'
028 035 509	Data Plate; for ILAS® 352035.../ 037...; auto-raise & auto-lower pressure setting data
028 041 019	Information Label; for Colas®; general instruction for 'raise & lower' & 'drive'

AIR SUSPENSION/LIFT AXLE



003 607 619



028 035 509



## AIR SUSPENSION/LIFT AXLE



Knob

Linkage

Silencer

Dump Valve

part number	description
002 0530 090	Knob; for Lift Axle Valve; black; square; c/w label (diagramatic)
003 575 709	Linkage; for Levelling Valve (612.....); for valve connection; round
003 587 409	Silencer; for Colas® Valve (352018021); M16x150
003 603 309	Connection Kit; for ILAS®
003 607 009	Connection Kit; for ILAS® (352028.../ 352033.../ 352035.../ 352037.../ 352054...); push-in fittings
003 607 709	Connection Kit; for Electro-magnetic Raise/Lower Valve (338047001)
003 607 909	Connection Kit; for ILAS® Solenoid (360014001)
003 614 419	Cable Connector; for ILAS®
003 614 509	Connection Kit; for ILAS® (352037Z51)
003 624 309	Solenoid Mounting Kit; for ILAS®-E
015 102 609	Washer; for Electro-magnetic Raise/Lower Valve (338050101/ 338047001)
016 313 309	Cover; for Electro-magnetic Raise/Lower Valve (338050101/ 338031611/ 338032001/ 338047001)
016 354 509	Tube; for ILAS® (various)
016 357 909	Square Piece; for Levelling Valve (612035...)
016 358 409	Support Ring; for Electro-magnetic Raise/Lower Valve (338050101/ 338047001)
021 048 309	Spring; for Raise/Lower Valve (338021001/ 338048001)
021 067 609	Spring; for ILAS®
021 067 709	Spring; for ILAS® (352022011)
023 014 809	Gasket; for Electro-Magnetic Raise/Lower Valve Solenoid
023 015 609	Gasket; for Electro-Magnetic Raise/Lower Valve Solenoid
024 007 409	O-ring; for Raise/Lower Valve (338021001/ 338048001)
024 025 509	O-ring; for ILAS® (various)
024 027 709	O-ring; for Electro-magnetic Raise/Lower Valve (338047001/ 338050101)
024 055 009	O-ring; for ILAS® (various)
024 055 109	O-ring; for Electro-magnetic Raise/Lower Valve (338031611/ 338032001/ 338047001)
024 055 509	O-ring; for Electro-magnetic Raise/Lower Valve (338050101/ 338031611/ 338032001/ 338047001)
024 062 009	O-ring; for Electro-magnetic Raise/Lower Valve (338050101/ 338047001)
024 063 509	O-ring; for Electro-magnetic Raise/Lower Valve (338031611/ 338047001/ 338050101/ 360014001)
024 063 609	O-ring; for Electro-magnetic Raise/Lower Valve (338031611/ 338047001/ 338050101/ 352037Z51/ 360014001)
024 065 609	O-ring; for ILAS®

AIR SUSPENSION/LIFT AXLE



002 0530 090

003 575 709

003 587 409

003 603 309

003 607 909

003 614 509

003 624 309

016 358 409

021 048 309

021 067 709

023 014 809

023 015 609

**AIR SUSPENSION/LIFT AXLE**

part number	description
025 007 509	Valve Poppet; for Pressure Limiting Valve (321010101)
025 011 909	Diaphragm; for Pressure Limiting Valve
025 012 209	Gasket Ring; for Pressure Limiting Valve (357012021/ ..022/ ..031/ ..032/ ..033)
025 031 309	Valve Seat; for Electro-magnetic Raise/Lower Valve (338021001/ 338047001)
025 033 709	Flap Exhaust Seal; for ILAS® III (321019001/ 352047.../ 352049100)
025 046 609	Lever Connector; for Levelling Valve (612.....); elbow piece
025 052 409	Protection Cap; for Push Button Valve (332005141)
025 053 709	Washer; for ILAS®; watertight
025 056 509	Bellow; for ILAS®; rubber
026 013 709	Disc; for Raise/Lower Valve (338050101/ 338031611/ 338032001/ 338047001); for Disc Valve 026015409
026 015 409	Disc Valve; for Raise/Lower Valve (338050101/ 338031611/ 338032001/ 338047001)
026 015 609	Valve Plate Complete; for Unloader Valve (31201....)
027 049 009	Knob; for ILAS®; black; round; w/o label
027 050 209	Knob; for Lift Axle Valve; black; square; w/o label
027 050 309	Purge Valve; for Levelling Valve (352061001 & ..011/ 352062001/ 612031001 & ..011/ 612032001)
027 053 009	Washer; for Raise/Lower Valve (338050101/ 338047001)
027 054 409	Sleeve; for Raise/Lower Valve (338050101/ 338047001)
027 055 309	Sleeve; for Raise/Lower Valve (338050101/ 338047001)
027 066 509	Restrictor; for Colas® Valve (338051...); 0.8 mm throttle; white; where hight limitation is required
028 023 509	Instruction Plate; for Raise/Lower Valve (aluminium); English & German language; circular
031 000 909	Silencer; for ILAS®; for exhaust; M22x1.5
031 001 309	Silencer; for ILAS®; for exhaust; R1/8"
032 071 409	Fitting; for Colas® Valve
041 009 809	Solenoid; for Electro-magnetic Raise/Lower Valve (338.....)
041 011 009	Solenoid; for Electro-Magnetic Raise/Lower Valve & ILAS® (338032001/ 352037...)
041 011 509	Solenoid; for Electro-magnetic Raise/Lower Valve (338031611/ 338047001/ 360014001); double piston
041 011 909	Solenoid; for Electro-magnetic Raise/Lower Valve (338050101)
042 002 009	Connector Housing; for 3/2-Way Solenoid Valve (360009141/ ..241/ ..341)
042 018 009	Nut; for ILAS® I (352037Z51)



AIR SUSPENSION/LIFT AXLE

## AIR SUSPENSION/LIFT AXLE

part number	description
042 021 009	Angular Cone; for ILAS® I (352037Z51)
045 006 309	Protection Cap; for Raise/Lower Valve (338021001/ 338048001); to protect the handle screw
051 004 909	Bolt; for Levelling Valve (612035...); hexagon type; M6x10; ISO 4017
051 009 909	Bolt; for Levelling Valve (612032001); hexagon type; M8x12; ISO 4017
051 063 009	Bolt; for Raise/Lower Valve (338021001); hexagon type; M8x12; DIN 933
051 063 109	Screw; for Colas® Valve Handle
054 002 509	Washer; for Pressure Limiting Valve; aluminium; 18x22
054 009 409	Washer; for Raise/Lower Valve; M8; aluminium
055 002 809	Toothed Disc; for Colas® Valve; 8 teeth
056 028 909	Circlips; for ILAS®
059 046 009	Silencer; for ILAS®
059 046 409	Port Insert Sleeve; for ILAS®; for push-in fitting
059 521 709	Exhaust Filter; for Colas® Valve; screw-in; plastic
360 014 001	Solenoid Kit; for ILAS® (352032...); c/w push-in fitting base; 24V
393 477 001	Mounting Kit; for Colas® Valve; (1x 027066509, 1x 032071409)
481 002 24	Linkage; for Levelling Valve (90554...); SRK 167; max length: 15-7/8"; (for type CR)
481 002 25	Linkage; for Levelling Valve (90554...); SRK 168; max length: 19-5/8"; (for type CR)
481 002 67	Linkage; for Levelling Valve (90554...); SRK 205; max length: 13-1/2"; c/w 8" control arm; (for type IR)
481 002 87	Linkage; for Levelling Valve (90554...); SRK 225; max length: 13-1/2"; c/w 12" control arm; (for type IR)
481 003 67	Linkage; for Levelling Valve (90554...); SRK 503 strap linkage; max length: 13-1/2"; c/w 12" control arm; (for type IR)
612 025 001	Linkage; for Levelling Valve (612.....); chassis connection; M8
900 545 20	Linkage; for Levelling Valve (90054007)
900 546 30	Lever Connector; for Levelling Valve (90.....); elbow piece
905 541 48	Filter; for Levelling Valve Dump Valve (90554461); metric
905 543 35	Dump Valve; for Levelling Valve; normally open; (for type CR); imperial fittings
905 544 61	Dump Valve; for Levelling Valve; normally open; (for type CR); metric fittings
905 549 02	Dump Valve; for Levelling Valve; normally closed; (for type CR); imperial fittings
950 338 001	Repair Kit; for Raise/Lower Valve (338007...)

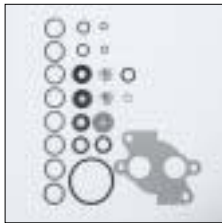
AIR SUSPENSION/LIFT AXLE



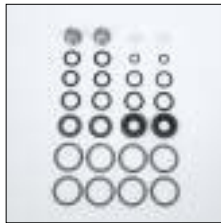
AIR SUSPENSION/LIFT AXLE

part number	description
950 338 002	Repair Kit; for Raise/Lower Valve (338020001)
950 338 004	Repair Kit; for Raise/Lower Valve (338023...)
950 338 005	Repair Kit; for Raise/Lower Valve (338021.../ 338036...)
950 338 006	Repair Kit; for Raise/Lower Valve (338029001)
950 338 008	Repair Kit; for Raise/Lower Valve (338032001)
950 338 013	Solenoid Kit; for Electro-magnetic Raise/Lower Valve (338031...)
950 338 014	Repair Kit; for Electro-magnetic Raise/Lower Valve (338031111)
950 338 022	Repair Kit; for Electro-magnetic Raise/Lower Valve (338045001/ 338049.../ 338050001)
950 338 023	Assembly Kit; for Colas® Solenoid
950 338 027	Handle Kit; for Colas® Valve (338051.../ 338056...); c/w spindle
950 338 030	Repair Kit; for Colas® Valve (338053001); c/w valve, fixing material, exhaust filter
950 338 031	Repair Kit; for Colas® Valve (338052001); c/w valve, fixing material, exhaust filter
950 338 032	Handle Kit; for Colas® Valve (338051.../ 338056...); w/o spindle
950 338 100	Handle Kit; for Raise/Lower Valve (338021001)
950 352 010	Solenoid Kit; for ILAS®-E & Colas® (352061001/ 352062001 / Colas); c/w 003618709
950 352 011	Solenoid Kit; for ILAS®-E (352061011/ 352062011)
950 357 001	Repair Kit; for Pressure Limiting Valve (357004...)
950 551 002	Repair Kit; for Hand Lever 3/2-Way Valve (551012...)
950 612 001	Repair Kit; for Levelling Valve (612017.../ 612023.../ 612033...)
950 612 004	Repair Kit; for Levelling Valve (612018.../ 612022...)
950 612 006	Repair Kit; for Levelling Valve (612031...)
950 612 007	Repair Kit; for Levelling Valve (612032...)
950 612 009	Repair Kit; for Levelling Valve (612025001)
960 338 021	Handle Kit; for Raise/Lower Valve (338021001); aluminium; (1x 054009409, 1x 011115109, 1x 051009909, 1x 021048309, 1x 045006309)

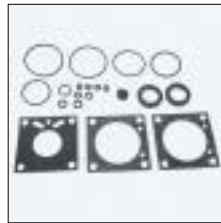
AIR SUSPENSION/LIFT AXLE



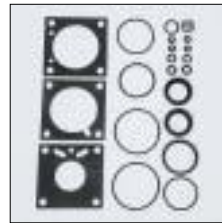
950 338 002



950 338 004



950 338 006



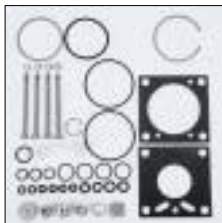
950 338 008



950 338 013



950 338 014



950 338 022



950 338 023



950 338 027



950 338 032



950 338 100



950 352 010



950 352 011



950 357 001



950 551 002



950 612 001



950 612 004



950 612 006



950 612 009

part number	description
904 053 001	Pressure Regulating/Setting Tool; for ILAS® III (352047.../ 352049.../ 352051...)
904 054 001	Adjusting Key; for Levelling Valve (612031.../ 612032...)

AIR SUSPENSION/LIFT AXLE



904 053 001

AIR TREATMENT

Air driers remove water, carbon, oil and dirt impurities from compressed air before it enters the air tanks. Regular maintenance of the air drier, particularly changing the cartridge, will help increase the service life of brake components.

The SDX version uses a Multi-Treatment Cartridge (MTC) helping reduce overall size, while allowing outstanding drying performance. The MTC has a higher capacity, greater efficiency and a longer service life than rival air-drying units.



part number	cut-out (bar)	cut-out tolerance	range	inlet 1 / outlet 21	outlet 22	heating element	port 4 signal outlet	silencer port 3 exhaust outlet	Blackbox No.	application	note
77055	w/o governor	-	-	1/2"NPTF	1/4"NPTF	w/o	1/4"NPTF	c/w	86792S	USA basic unit	
77304	9.5	±0.2	0.6+0.4	Voss 12	Voss 8	24V Costal	-	c/w	77411S	D-C	
77316	8.1	±0.2	0.6+0.4	M22x1.5	M12x1.5	w/o	-	c/w	71847S	DAB	
77497	10.0	+0.2	1.0+0.2	M22x1.5	-	24V Costal	M12x1.5	c/w	78141S	Sisu	
78124	12.5	±0.2	1.3±0.2	M22x1.5	-	w/o	M12x1.5	c/w	78709S	Iveco/Karosa	
78127	8.9	±0.2	1.3±0.2	1/2"NPTF	-	24V Costal	1/4"NPTF	c/w	78712S	Foden Trucks	
78128	w/o governor	-	-	M22x1.5	M12x1.5	w/o	M12x1.5	w/o (ø25)	78175S	Terex 2566C/3066C (Post '98)	c/w 3 screws M12x35
78130	w/o governor	-	-	Voss 12	Voss 8	24V Costal	Voss 8	c/w	78186S	D-C	M-B
78209	10.0	±0.2	1.0+0.3	M22x1.5	-	w/o	-	c/w	78169S	Renault	
78210	12.5	-0.5	1.0+0.3	M22x1.5	-	w/o	-	c/w	78170S	Renault	
78211	8.7	+0.3	1.0+0.3	M22x1.5	-	w/o	-	c/w	78171S	Renault	
78217	10.0	±0.2	1.0+0.3	M22x1.5	-	w/o	-	w/o (quick)	78728S	Renault	
78219	8.7	+0.3	1.0+0.3	M22x1.5	-	w/o	-	w/o (ø20)	78730S	Renault	
78286	8.6	±0.2	1.4+0.3/-0.1	1/2"NPTF	1/4"NPTF	w/o	1/4"NPTF	c/w	86791S	USA basic unit	
78648	8.8	±0.2	0.6+0.4	M22x1.5	M12x1.5	24V Costal	-	c/w	78699S	Van Hool	
78649	9.9	-0.3	1.2+0.4	M22x1.5	-	24V Costal	-	c/w	78716S	Vogel	
78752	8.7	+0.3	1.0+0.3	M22x1.5	-	w/o	-	w/o (quick)	78945S	Renault	
78753	10.2	+0.3	1.0±0.3	M22x1.5	M12x1.5	w/o	M12x1.5	c/w	78704S	Volvo	
78754	10.0	±0.2	1.0+0.2	M22x1.5	M12x1.5	24V Costal	M12x1.5	c/w	78141S	Sisu	
78757	8.5	+0.4	0.8±0.3	M22x1.5	-	w/o	-	c/w	78947S	Otosan	
78758	w/o governor	-	-	M22x1.5	M12x1.5	24V Costal	M12x1.5	c/w	87333S	Kockums	
78982	w/o governor	-	-	M22x1.5	M12x1.5	w/o	Voss 8	c/w	78186S	Volvo	to replace Wabco TD
78983	w/o governor	-	-	M22x1.5	M12x1.5	w/o	M12x1.5	c/w	87333S	Oudsten Bussen	



77304 77316 77497 78124 78127 78130



78209 78211 78219 78648 78649 78754



78982 78983

part number	cut-out (bar)	cut-out tolerance	range	inlet 1/ outlet 21	outlet 22	heating element	port 4- signal outlet	silencer port 3 exhaust outlet	Blackbox No.	application	note
78984	9.3	±0.2	0.9±0.3	M22x1.5	M12x1.5	24V Deutsch	M12x1.5	w/o (ø20)	87346S	Scania	
78985	12.2	±0.2	0.9+0.7	M22x1.5	M12x1.5	24V Deutsch	M12x1.5	w/o (ø20)	87347S	Scania	
78986	10.3	±0.2	0.9±0.3	M22x1.5	M12x1.5	24V Deutsch	M12x1.5	w/o (ø20)	87348S	Scania	
78988	8.5	±0.2	0.8±0.2	M22x1.5	M12x1.5	w/o	M12x1.5/plugged	c/w	78717S	Volvo	
78990	12.0	±0.2	1.0±0.3	M22x1.5	M12x1.5	w/o	M12x1.5/plugged	c/w	78703S	Volvo	
83327	11.0	±0.2	1.3±0.3	M22x1.5	M12x1.5	24V Costal	-	c/w	83341S	Jeltz	
83392	8.1	±0.2	0.6+0.4	M22x1.5	M12x1.5	w/o	-	c/w	71847S	El Detalle	
83493	8.0	+0.3	1.5±0.2	M22x1.5	M12x1.5	24V Costal	-	c/w	86575S	Kamaz	
86576	10.0	±0.2	0.8±0.2	M22x1.5	M12x1.5	24V Costal	M12x1.5/plugged	c/w	86583S	Dennis Bus	
87189	10.0	±0.2	1.4±0.3	M22x1.5	-	w/o	M12x1.5/plugged	c/w	78949S	Dennis Bus	
87194	8.1	±0.2	1.0±0.2	M22x1.5	M12x1.5	w/o	-	c/w	89477S	Nasco Cairo	
87282	10.8	±0.2	1.3±0.2	M22x1.5	M12x1.5	w/o	M12x1.5/plugged	c/w	87332S	Volvo	
87295	10.3	±0.2	0.9±0.3	M22x1.5	M12x1.5	24V Deutsch	M12x1.5	w/o (ø20)	87348S	Scania	
87296	8.5	±0.2	0.8±0.2	M22x1.5	M12x1.5	w/o	M12x1.5/plugged	c/w	78717S	Volvo	
87297	11.5	+0.3	1.0±0.3	M22x1.5	M12x1.5	w/o	M12x1.5/plugged	c/w	78104S	Volvo	
87298	w/o governor	-	-	M22x1.5	M12x1.5	w/o	M12x1.5	c/w	87333S	Volvo	
87337	10.0	±0.2	1.4±0.3	M22x1.5	M12x1.5	w/o	M12x1.5/plugged	c/w	78949S	Volvo	
89104	10.0	±0.2	1.0+0.5	Voss 12	Voss 8	w/o	-	c/w	89125S	Volks Wagen	
89274	9.8	+0.3	1.0+0.3	1/2"NPTF	1/4"NPTF	24V Packard	1/4"NPTF/plugged	w/o (ø20)	89275S	Caterpillar	
89464	w/o governor	-	-	M22x1.5	M12x1.5	24V Deutsch	M12x1.5	w/o (ø20)	89446S	Scania	
90026	9.1	+0.4	1.3+0.1/-0.3	M22x1.5	M12x1.5	24V Costal	M12x1.5	c/w	90039S	Tensa	
90201	8.0	±0.2	0.8±0.2	M22x1.5	M12x1.5	24V Costal	M12x1.5	c/w	91323S	Optare	
90215	9.5	±0.2	0.9±0.3	M22x1.5	M12x1.5	24V Deutsch	M12x1.5	w/o (ø20)	90216S	Scania	
90268	8.5	±0.2	0.8±0.2	1/2"NPTF	1/4"NPTF	w/o	-	c/w	90269S	Volvo	
90451	8.5	±0.2	0.8±0.2	M22x1.5	M12x1.5	24V Costal	-	w/o (quick)	90453S	Liebherr	
90474	w/o governor	-	-	1/2"NPTF	1/4"NPTF	w/o	1/4"NPTF	c/w	86792S	USA basic unit	
90475	8.6	+0.2	1.4+0.3/-0.1	1/2"NPTF	1/4"NPTF	w/o	1/4"NPTF	c/w	86791S	USA basic unit	
90498	w/o governor	-	-	1/2"NPTF	1/4"NPTF	24V Packard	1/4"NPTF	c/w	86792S	Van Hool	

AIR TREATMENT



**AIR TREATMENT**

part number	cut-out (bar)	cut-out tolerance	range	inlet 1/ outlet 21	outlet 22	heating element	port 4 signal outlet	silencer port 3 exhaust outlet	Blackbox No.	application	note
90548	12.0	±0.2	1.0±0.3	M22x1.5	M12x1.5	w/o	M12x1.5	c/w	90549S	Volvo	
90994	w/o governor	-	-	1/2"NPTF	1/4"NPTF	w/o	1/4"NPTF	w/o (ø20)	90995S	USA basic unit	
90996	8.6	+0.2	1.4+0.3/-0.1	1/2"NPTF	1/4"NPTF	w/o	1/4"NPTF	w/o (ø20)	90997S	USA basic unit	
91309	w/o governor	-	-	1/2"NPTF	1/4"NPTF	24V Packard	1/4"NPTF	c/w	86792S	Van Hool	
91379	w/o governor	-	-	M22x1.5	-	24V Costal	1/4"NPTF	c/w	86792S	CRMS	
91390	8.5	±0.3	1.0±0.3	M22x1.5	M12x1.5	w/o	M12x1.5	w/o (ø20)	91598S	Transdev	
92060	8.1	±0.2	1.0±0.2	M22x1.5	M12x1.5	w/o	-	c/w	89477S	Volvo	
92196	8.5	±0.2	0.8±0.2	1/2"NPTF	1/4"NPTF	30V Packard	1/4"NPTF	c/w	92223S	Nova Bus	
92925	12.0	±0.2	1.0±0.3	M22x1.5	M12x1.5	w/o	M12x1.5	w/o M12x1.5	92923S	Volvo	Sealed valve unit
92926	8.5	±0.2	0.8±0.2	M22x1.5	M12x1.5	w/o	M12x1.5	w/o (ø20)	92924S	Volvo	Sealed valve unit
93179	9.8	±0.2	0.9+0/-0.2	M22x1.5	M12x1.5	24V Costal	M12x1.5/plugged	w/o (quick)	93440S	VDL Jonckheere	c/w SVU & MTC+
93363	8.5	±0.2	0.6+0.4	M22x1.5	M12x1.5	w/o	M12x1.5	c/w	93362S	TAT, SA	c/w MTC+
93096	10.8	±0.2	1.3±0.2	M22x1.5	M12x1.5	w/o	M12x1.5	w/o (ø20)	93101S	Volvo	Sealed Valve Unit (SVU) & MTC+
93572	9.3	±0.2	1.4±0.3	1/2"NPTF	1/4"NPTF	30V Packard	-	c/w	93671S	MCI Coach	
93680	8.3	±0.2	1.0±0.2	M22x1.5	M12x1.5	12V Deutsch	M12x1.5	c/w	93679S	BMC	c/w MTC+
93729	10.3	±0.2	0.9±0.3	M22x1.5	M12x1.5	30V Deutsch	M12x1.5	w/o (ø20)	93728S	Scania	c/w MTC+

AIR TREATMENT



90548



91309



91379



93179



# Air Drier, Single (SD)



## AIR TREATMENT

Air driers remove water, carbon, oil and dirt impurities from compressed air before it enters the air tanks. Regular maintenance of the air drier, particularly changing the cartridge, will help increase the service life of brake components.

The SD version was the original Haldex Single Drier.



part number	cut-out (bar)	cut-out tolerance	range	safety valve	chassis connection	inlet 1 / outlet 2	heating element	electrical connection	regeneration	purge tank connection	silencer/ exhaust outlet	unloading valve/ governor signal inlet	governor valve connection	note	application
71230	w/o governor	-	-	w/o	M12x1.75	M22x1.5	plug-in, 24V/90W	w/o	on-line	-	c/w	M10x1	-		*
71232	8.1	±0.2	0.6+0.4	13 bar	M12x1.5	M22x1.5	M24, 24V/90W	M24	off-line	M10x1	c/w M22x1.5	connected	connected		
71233	w/o governor	-	-	13 bar	M12x1.5	M22x1.5	M24, 24V/90W	M24	off-line	M10x1	c/w M22x1.5	M10x1	M10x1	c/w governor valve bracket	
71239	w/o governor	-	-	w/o	M12x1.75	M22x1.5	plug-in, 24V/90W	w/o	off-line	M10x1	c/w	M10x1	M10x1		*
71240	w/o governor	-	-	13 bar	M12x1.5	M22x1.5	w/o	w/o	off-line	M10x1	c/w M22x1.5	M10x1	M10x1	c/w governor valve bracket	●
71247	w/o governor	-	-	w/o	M12x1.75	M22x1.5	plug-in, 24V/90W	w/o	off-line	M10x1	c/w M22x1.5	M10x1	M10x1		❖

- \* Volvo Truck
- D-C Evobus/Volvo/Terex (Pre '98) 2566C & 3066C Truck
- ❖ Volvo

AIR TREATMENT



71230



71233



71239



71240

**AIR TREATMENT**

Air driers remove water, carbon, oil and dirt impurities from compressed air before it enters the air tanks. Regular maintenance of the air drier, particularly changing the cartridge, will help increase the service life of brake components.

Of the Twin Drier (TD) version, only series 200 remains in production.



part number	series	cut-out (bar)	cut-out tolerance	range	safety valve	chassis connection	inlet / outlet 21	heating element	unloading valve/governor signal inlet	drain valve/ exhaust outlet	silencer/ exhaust outlet	gasket unloading valve	max. operating pressure (bar)	application
71200	200	8	+0.4	0.7+0.5	13 bar	M12x1.75	M22x1.5	M27, 24V/90W	c/w (connected)	c/w	c/w (ø18)	w/o	10	Renault
71201	200	8.9	+0.4	0.7+0.5	13 bar	M12x1.75	M22x1.5	M27, 24V/90W	c/w (connected)	c/w	c/w (ø18)	w/o	10	Renault
71202	200	8.5	±0.2	0.6+0.4	13 bar	M12x1.5	M22x1.5	M27, 24V/90W	c/w (connected)	c/w	c/w (ø18)	w/o	10	D-C
71203	200	w/o governor	-	-	13 bar	M12x1.5	M22x1.5	w/o	c/w (M10x1)	c/w	w/o	w/o	10	
71206	200	w/o governor	-	-	w/o	M12x1.75	M22x1.5	M24, 24V/90W	w/o	c/w nipple ø10 (R 1/4")	w/o	w/o	10	Scania Bus
71208	200	10	±0.2	0.7+0.5	13 bar	M12x1.75	M22x1.5	M27, 24V/90W	c/w (connected)	c/w	c/w (ø18)	w/o	13	Renault
71209	200	9.5	±0.2	0.6+0.4	13 bar	M12x1.5	M22x1.5	M27, 24V/90W	c/w (connected)	c/w	c/w (ø18)	w/o	10	D-C
71215	200	w/o governor	-	-	w/o	M12x1.5	M22x1.5	M24, 24V/90W	w/o	c/w nipple ø10 (R 1/4")	w/o	w/o	10	Fiat Tramway
71216	200	8.9	+0.4	0.7+0.5	13 bar	M12x1.75	M22x1.5	M27, 24V/90W	c/w (connected)	c/w	c/w (ø18)	c/w	10	Renault Truck R285/R340/R385/R420
83377	200	8	+0.4	0.7+0.5	13 bar	M12x1.75	M22x1.5	M27, 24V/90W	c/w (connected)	c/w	c/w (ø18)	c/w	10	Renault
83378	200	10	±0.2	0.7+0.5	13 bar	M12x1.75	M22x1.5	M27, 24V/90W	c/w (connected)	c/w	c/w (ø18)	c/w	13	Renault
83379	200	8.9	+0.4	0.7+0.5	13 bar	M12x1.75	M22x1.5	M27, 24V/90W	c/w (connected)	c/w	c/w (ø18)	c/w	10	Renault
90028	200	w/o governor	-	-	w/o	M12x1.75	M22x1.5	M24, 24V/90W	w/o	c/w nipple ø10 (R 1/4")	w/o	w/o	10	Gothenburg Tramway

AIR TREATMENT



71200



71201



71203



71206

AIR TREATMENT

The ECAM (Electronically Controlled Air Management) unit is used on trucks and buses with airbrakes (with or without air suspension), and other pneumatic equipment. It combines many valves required for pneumatic air management and drying, into one compact unit.

Features :

- Air Drier
- Electrical unloader (with back-up)
- 4 circuit protection valve
- Pressure limiting valves
- Safety valve
- Pressure protection valve
- Adaptive regeneration control without reservoir
- Connection for external feeding
- Heater (option)
- Full pneumatic back-up system
- Parking brake control in accordance (ECE R13, A.8, 2.3) CAN-Bus
- ISO 9141 MAN-Cats
- Integral ECU



part number	software	ports	electric plug standard	operating voltage ECU	operating pressure (bar)	cut-out (bar)
950 310 014	D3/V5.01	Voss 232/M16x1.5/M22x1.5	DIN 72585	16.8-32V DC	14.0	12.5

### AIR TREATMENT

The Drain Valve is fitted to allow venting and draining of the air tanks.

The Automatic Drain Valve (ADV) automatically discharges the condensate collected in the air tanks. The 'Elec' version uses an electronic signal (e.g. brake lights) to initiate the discharge, while the 'P Diff' version uses air tank pressure differential. Both can be drained manually, if required. The 'Elec' version includes heated options to prevent freezing.

Manual Drain Valves allow manual discharge only.

The Drain Tap is spring loaded to close automatically after use.



ADV (Elec)

ADV (P Diff)

ADV (In-Tank)



Manual

Drain Tap

part number	type	version	connection thread	cable length (m)	pressure variation Dp (bar)	electrical connection	relay	max. operating pressure (bar)	note	application
206 001 001	Automatic Drain Valve (ADV)	P Diff	1/4" NPTF	w/o	-	-	-	-		
206 001 011	Automatic Drain Valve (ADV)	P Diff	M22x1.5	w/o	-	-	-	-		
206 001 401	Automatic Drain Valve (ADV)	P Diff	1/4" NPTF	1.2	-	-	-	-		
206 001 601	Automatic Drain Valve (ADV)	P Diff	1/4" NPTF	1.8	-	-	-	-		
206 001 611	Automatic Drain Valve (ADV)	P Diff	M22x1.5	1.8	-	-	-	-	c/w reducer	
206 002 001	Manual Drain Valve	-	1/4" NPTF	w/o	-	-	-	-		
206 002 401	Manual Drain Valve	-	1/4" NPTF	1.2	-	-	-	-		
206 004 001	Drain Tap	-	1/4" NPTF	-	-	-	-	-	petcock type	
206 005 401	Manual Drain Valve	-	M22x1.5	1.2	-	-	-	-		
206 005 751	Manual Drain Valve	-	M22x1.5	2.3	-	-	-	-	c/w ring	
315 016 001	Automatic Drain Valve (ADV), In-Tank	-	M22x1.5	-	0.2-0.5 bar	-	-	8/15		*
315 016 011	Automatic Drain Valve (ADV), In-Tank	-	M22x1.5	-	0.8 bar	-	-	8		*
315 016 021	Automatic Drain Valve (ADV), In-Tank	-	M22x1.5	-	0.2 bar	-	-	8		*

\* For all trucks (excluding Volvo)



206 001 001



206 001 011



206 001 601



206 001 611



206 002 001



206 002 401



206 004 001



206 005 401



206 005 751



315 016 001



315 016 011



315 016 021

## AIR TREATMENT

part number	type	version	connection thread	cable length (m)	pressure variation Dp (bar)	electrical connection	relay	max. operating pressure (bar)	note	application
315 018 001	Manual Drain Valve	-	1/2" NPTF	w/o	-	-	-	-		
315 019 001	Manual Drain Valve	-	M22x1.5	w/o	-	-	-	-		
315 019 011	Manual Drain Valve	-	M22x1.5	w/o	-	-	-	-	c/w ring	
315 031 001	Automatic Drain Valve (ADV), In-Tank	-	M22x1.5	-	0.2-0.4 bar	-	-	20		
71311	Automatic Drain Valve (ADV)	Elec	M22x1.5	-	-	M24, 24V/0.5A	w/o	20		Scania
71313	Automatic Drain Valve (ADV)	Elec	1/4" NPTF	-	-	M24, 24V/0.5A	w/o	20	strainer Ø 5.5; w/o nut SW 30	
71315	Automatic Drain Valve (ADV)	Elec	1/4" NPTF	-	-	M24, 12V/1A	w/o	20	strainer Ø 5.5; w/o nut SW 30	
71317	Automatic Drain Valve (ADV)	Elec	M22x1.5	-	-	M24, 12V/1A	w/o	20		
71318	Automatic Drain Valve (ADV)	Elec	1/2" NPTF	-	-	M24, 24V/0.5A	w/o	20	w/o nut SW 30	
71323	Automatic Drain Valve (ADV)	Elec	M22x1.5	-	-	M27, 24V/0.5A	w/o	20		D-C
71325	Automatic Drain Valve (ADV)	Elec	M22x1.5	-	-	M24, 24V/0.5A	w/o	20	w/o nut SW 30	DAF
71341	Automatic Drain Valve (ADV)	Elec	M22x1.5	-	-	M24, 24V/0.5A	c/w	20	c/w Electrical Contact & Relay	
71345	Automatic Drain Valve (ADV)	Elec	1/4" NPTF	-	-	M24, 12V/1A	c/w	20	c/w Electrical Contact & Relay	
71347	Automatic Drain Valve (ADV)	Elec	M22x1.5	-	-	M24, 12V/1A	c/w	20	c/w Electrical Contact & Relay	
89179	Automatic Drain Valve (ADV)	Elec	1/4" NPTF	-	-	24V/0.5A	w/o	20	c/w pigtail (0.3m cable); strainer Ø 5.5	USA
89180	Automatic Drain Valve (ADV)	Elec	1/4" NPTF	-	-	12V/1A	w/o	20	c/w pigtail (0.3m cable); strainer Ø 5.5	USA

AIR TREATMENT



AIR TREATMENT

The Consep Condenser is fitted in the compressor's discharge line to prevent oil, liquid water, carbon and dirt entering the brake system. It helps to significantly increase the Air Drier Cartridge life. Oil entering the Air Drier desiccant cartridge would render the desiccant useless. Consep can be easily retrofitted.



part number	version	thread connection	voltage/current	electrical connection	drain collector	ADV No	ADV info.	max. operating pressure (bar)	note	application
77278	6-screw	M22x1.5	-	-	-	-	w/o ADV	20	outlet 3 = M22x1.5	
78968	6-screw	M22x1.5	24V/0.5A	M24x1	c/w	78696S	ADV turned 180 degrees	20		Iveco Cityclass Euro 2
91790	Quick-fit	(1) M22x1.5, (2) Voss 232 NG12	24V/0.5A	M27x1	c/w	92003S		20		EvoBus
92573	Quick-fit	M22x1.5	24V/0.5A	M24x1	c/w	92569S		20		Scania
92573S	Quick-fit	M22x1.5	24V/0.5A	M24x1	c/w	92569S		20	c/w electrical contact assembly kit (inc. relay)	Scania
92671	Quick-fit	M22x1.5	24V/0.5A	M27x1	c/w	92003S		20		EvoBus
92693	Quick-fit	M22x1.5	24V/0.5A	M27x1	w/o	92692S		20		DC
92695	Quick-fit	M22x1.5	24V/0.5A	M24x1	w/o	92694S		20		Volvo
92751	Quick-fit	1/2"NPTF	24V/0.5A	pigtail, cable L=0.3m	w/o	92749S		20	Anodized housing	USA
92752	Quick-fit	1/2"NPTF	12V/1A	pigtail, cable L=0.3m	w/o	92750S		20	Anodized housing	USA
92793	Quick-fit	M22x1.5	24V/0.5A	pigtail, cable L=1m, DIN contact	w/o	92790S		20		Volvo
92794	Quick-fit	M22x1.5	24V/0.5A	M24x1	c/w	92569S	draining box turned 180 degrees	20		
92795	Quick-fit	M22x1.5	12V/1A	M24x1	w/o	92791S		20		
92796	Quick-fit	M22x1.5	24V/0.5A	M24x1	w/o	92694S	ADV turned 180 degrees	20		Iveco
92797	Quick-fit	M22x1.5	24V/0.5A	pigtail, cable L=1m, Deutsch contact	c/w	92997S	draining box turned 60 degrees	20		Scania
92838	Quick-fit	M22x1.5	-	-	-	-	w/o ADV	20	outlet 3 = M22x1.5	
92939	Quick-fit	M22x1.5	24V/0.5A	pigtail, cable L=1m, DIN contact	c/w	92996S	swivel draining box	20		Volvo
92992	Quick-fit	M22x1.5	24V/0.5A	pigtail, cable L=1m, DIN contact	c/w	92993S	draining box turned 60 degrees	20		Scania



77278



78968



91790



92573S



92671



92695



92796

In-line Filters are used to protect valves in air brake systems from rust and dirt particles. The filter is placed into the pipe-lines of compressed air installations, particularly on trailers, before the Relay Emergency Valve. The system will remain operable in either direction of flow, even if the filter should become blocked.



part number	thread connection	filter	max. operating pressure (bar)	note
310 005 001	M16x1.5	clip-in	20.0	for pipe circuits to DIN 74347
310 005 011	M22x1.5	clip-in	20.0	for pipe circuits to DIN 74347, standard OE fit

AIR TREATMENT



310 005 001



310 005 011

**AIR TREATMENT**

The Antifreeze Injector permits an antifreeze agent to be injected into the compressor's discharge line, in order to prevent freezing or the formation of ice in the reservoirs, pipes, valves, etc. This helps, in cold countries, on vehicles without an Air Drier or Condenser.



part number	operation	reservoir volume (litres)	switching positions	output quantity (cc)	cut-off device	ports	max. operating pressure (bar)
313 019 011	automatic	0.5	2	0.50	w/o	M22x1.5	18.0
313 019 021	automatic	0.25	w/o	0.50	w/o	M22x1.5	18.0

AIR TREATMENT



313 019 011



313 019 021



part number	description
90066	Air Drier Kit, Single (SDX); for Volvo F Truck; to replace Wabco TD; contains SDX 78990
KN33000	Air Drier, Pure Air; 12V
KN33010	Air Drier, Pure Air; 24V
KN33500	Air Drier, Areo II

AIR TREATMENT



KN33010

AIR TREATMENT



Black Box

Air Drier Cartridge

Repair Kit

part number	description
016 025 219	Threaded Joint; for Anti-Freeze Injector
022 000 109	Circlip; for In-line Filter
024 016 509	O-ring; for Anti-Freeze Injector (329020281/ ..301/ ..321)
024 027 609	O-ring; for ECAM
024 044 309	O-ring; for Anti-Freeze Injector
024 064 109	O-ring; for Air Drier Cartridge (031004109)
025 015 409	Washer; for Anti-Freeze Injector
026 003 309	Valve Poppet; for Anti-Freeze Injector; complete lower section
027 001 309	Reservoir; for Anti-Freeze Injector; 0.25l
027 010 909	Reservoir Lid; for Anti-Freeze Injector
027 011 019	Bracket; for Anti-Freeze Injector
027 044 509	Filter; for Anti-Freeze Injector
029 000 309	Filter; for In-line Filter
041 013 609	Time & Brake Relay; for Automatic Drain Valve/Consep; side & brake light; 24V
041 013 709	Time & Brake Relay; for Automatic Drain Valve/Consep; side & brake light; 12V
05001	Time Relay; for Automatic Drain Valve; heated; 24V
059 003 209	Pull-ring; for Manual Drain Valve
173709	Crimp; for Manual Drain Valve; to secure cable
541835	Valve Lifter; for Automatic Drain Valve/Consep; for ADV/Consep w/o drain collector
71020	Repair Kit; for Twin Air Drier Drain Valve (733335)
71034	Air Drier Cartridge Kit; for Twin Air Drier (series 100 & 200); x2; 10 bar
71036	Centre Section Repair Kit; for Twin Air Drier (series 100); 10 bar
71038	Repair Kit; for Twin Air Drier Shuttle Valve (series 100 & 200)
71039	Centre Section Repair Kit; for Twin Air Drier (series 100); 13 bar
71053	Unloading Valve & Repair Kit; for Single Air Drier (series 100); (c/w unloading valve 73400)



016 025 219

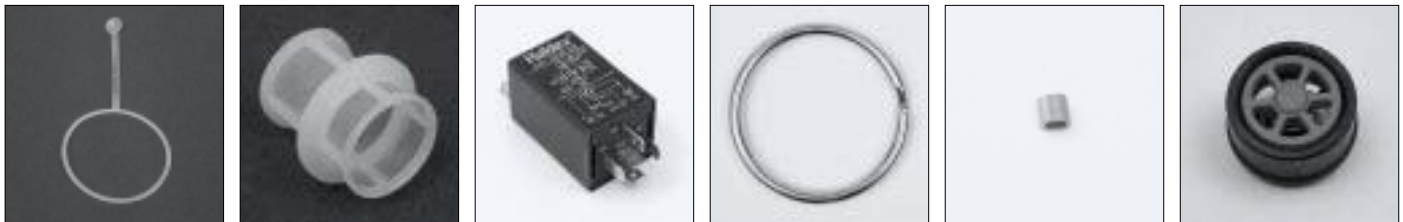
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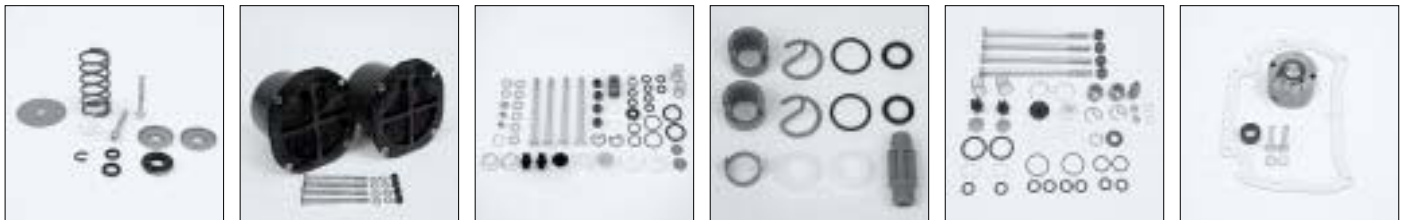
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059 003 209

173709

541835



71020

71034

71036

71038

71039

71053

part number	description
71054	Air Drier Cartridge & Repair Kit; for Single Air Drier (series 100 & 200)
71057	Repair Kit; for Single/Twin Air Drier Unloading Valve (73400, 73343S & 73342); series 100
71058	Repair Kit; for Twin Air Drier Non-Return Valve (universal)
71059	Air Drier Cartridge Kit; for Single Air Drier (series 100 & 200)
71060	Repair Kit; for Single Air Drier Non-return Valve Outlet (universal)
71136S	Regeneration Tank; 6 litre
71137S	Regeneration Tank Strap; x2
71139S	Regeneration Tank; 5 litre; c/w straps
71327	Repair Kit; for Automatic Drain Valve (universal, 1.3 & 2.0 MPa); complete
71376	Repair Kit; for Consep (original 6-screw); Condenser side; complete
71378	Lower Part / Pick Up; for Consep; 1/4" NPTF
71847S	Black Box; for Single Air Drier SDX
71868S	Cartridge Grip Ring Kit; for Single Air Drier SDX
73084S	Gasket; for Single/Twin Air Drier (series 100 & 200)
73096	O-ring; for Single/Twin Air Drier (series 100 & 200); 150x4
73148S	Sleeve; for Single/Twin Air Drier (series 100 & 200); 15mm
73176S	Non-return Valve Outlet; for Twin Air Drier (series 100 & 200); thread: M22; length: 33mm
73198	Canister; for Single/Twin Air Drier
73200S	Safety Valve; for Single/Twin Air Drier (series 100); 13 bar; M16x1.5; w/o cap
73268S	Washer; for Twin Air Drier (series 100 & 200); metal bar with hole; (for 13 bar version)
73314S	Hose Connection; for Drain Valve/Unloading Valve; M10x1 (6mm); 90 degrees; c/w nut & cone
73316S	Non-return Valve Outlet; for Twin Air Drier (series 100 & 200); thread: M22; length: 70mm
73333S	Drain Valve; for Twin Air Drier (series 100 & 200); aluminium; (yellow)
73340S	Diaphragm; for Single/Twin Air Drier (series 100 & 200)
73342	Unloading Valve; for Twin Air Drier (series 100); aluminium; (yellow); c/w adapter
73343S	Unloading Valve; for Twin Air Drier (series 100); aluminium; (yellow)
73351	Non-return Valve Outlet; for Single Air Drier (series 100); thread: M22; length: 33mm; c/w feed back
73354S	Inlet Nipple; for Single Air Drier (series 100); thread: M22; length: 33mm



**AIR TREATMENT**

part number	description
73436S	Plastic Tightening; for Twin Air Drier (series 100 & 200)
73444	Silencer Kit; for Twin Air Drier (series 100 & 200)
73481S	Heating Element; for Single/Twin Air Drier (series 100 & 200); 24V/90W; connection: M24
73482S	Non-return Valve Inlet; for Twin Air Drier (series 100 & 200); thread: M22/M24; length: 70mm
73483S	Non-return Valve Inlet; for Twin Air Drier (series 100 & 200); thread: M22/M24; length: 33mm
73492S	Heating Element; for Single/Twin Air Drier (series 100 & 200); 24V/90W; connection: 2 pin plug
73561S	Inlet Valve; for Twin Air Drier (series 100 & 200); thread: M22/M24; length: 70mm; w/o non-return valve
73568	Adapter; for Single/Twin Air Drier, Automatic Drain Valve & Consep; for heating element/coil; M27; eye screw
73574S	Unloading Valve; for Single Air Drier (series 200); plastic/aluminium
73582S	Governor Valve Bracket; for Single/Twin Air Drier (series 200)
73589S	Drain Valve; for Twin Air Drier (series 200); plastic
73614	Repair Kit; for Twin Air Drier Drain Valve (73589S & 73666S)
73615	Air Drier Cartridge Kit; for Twin Air Drier (series 100 & 200); x2; 13 bar
73616	Repair Kit; for Single/Twin Air Drier Unloading Valve (73574S & 73686S)
73618	Unloading Valve & Repair Kit; for Single Air Drier (series 200); (c/w unloading valve 73574S)
73620	Centre Section Repair Kit; for Twin Air Drier (series 200); 10 bar
73622	Centre Section Repair Kit; for Twin Air Drier (series 200); 13 bar
73666S	Drain Valve; for Twin Air Drier (series 100 & 200); plastic; R 1/4" outlet
73686S	Unloading Valve; for Twin Air Drier (series 200); plastic/aluminium
73687S	Adapter; for Twin Air Drier Unloading Valve (series 200); aluminium; M16x1.5
73716S	Heating Element; for Single/Twin Air Drier (series 200); 24V/90W; connection: M27
73775	Silencer Kit; for Twin Air Drier (series 200); c/w gasket & unloading valve
76281S	Relay; for Automatic Drain Valve/Consep; 24V
76282S	Relay; for Automatic Drain Valve/Consep; 12V
76283S	Electrical Connection Kit; for Automatic Drain Valve/Consep; M24; (can be used on air driers)

AIR TREATMENT



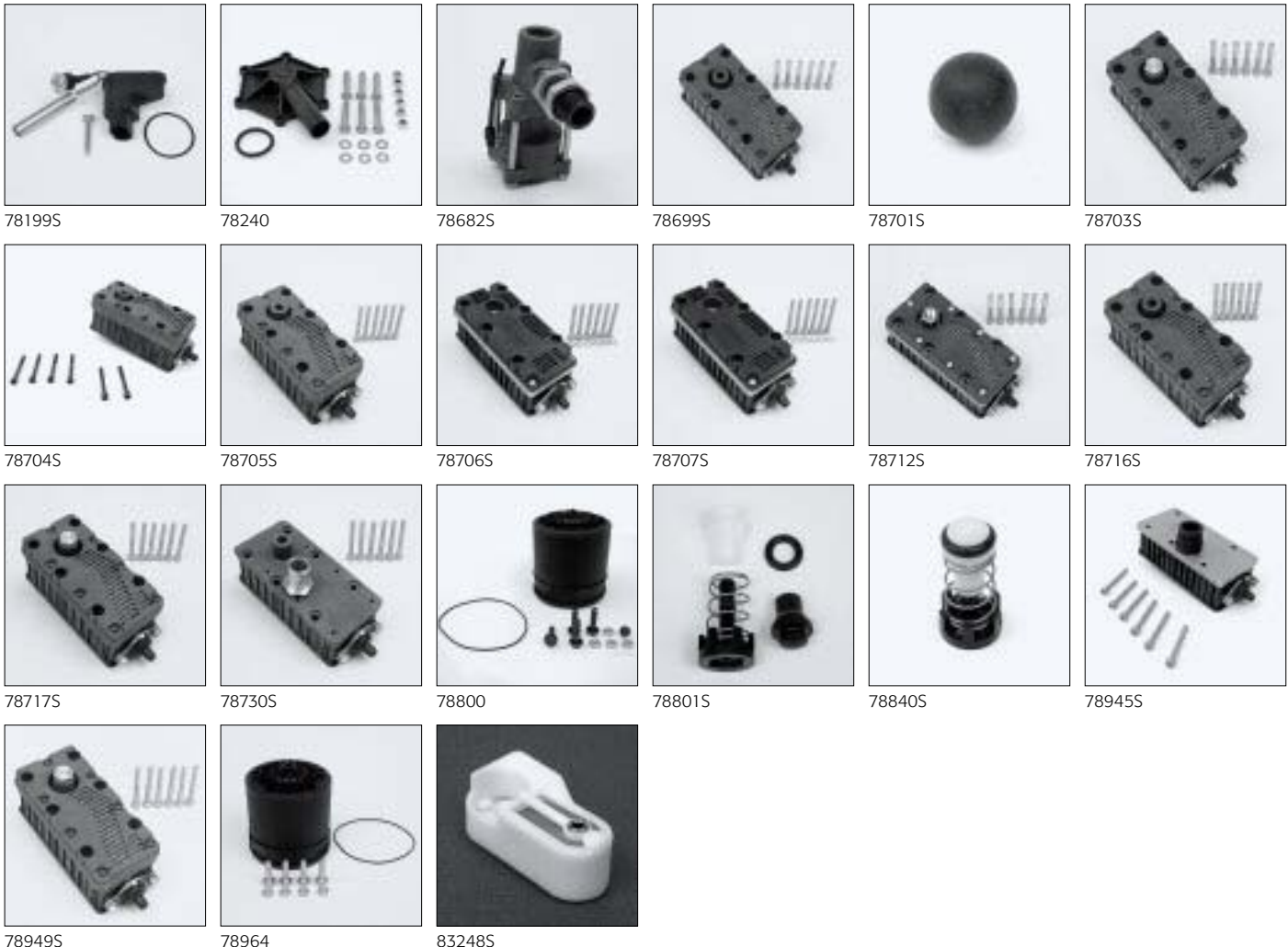
part number	description
76284S	Electrical Connection Kit; for Automatic Drain Valve/Consep; M27; (can be used on air driers)
77112S	Regeneration Valve; for Single Air Drier SDX; ø0.7
77244S	Heating Element; for Single Air Drier SDX; 24V/90W; connection: M27; Costal Kit
77359S	Turbo Protection Valve; for Single Air Drier SDX; connection: M22x1.5; 2.7 bar; (cut off valve)
77362	Automatic Drain Valve Kit; for Consep; 24V; M27; w/o drain collector
77362S	Automatic Drain Valve Kit; for Consep; 24V; M27; w/o drain collector
77411S	Black Box; for Single Air Drier SDX
77412S	Black Box; for Single Air Drier SDX
77434S	Regeneration Valve; for Single Air Drier SDX; ø0.9
77435S	Regeneration Valve; for Single Air Drier SDX; ø1.1
77484S	Blind Plug Kit; for Single Air Drier SDX; for plugged port 5
78104S	Black Box; for Single Air Drier SDX
78106S	Turbo Protection Valve; for Single Air Drier SDX; connection: 1/2" NPTF; 2.7 bar; (cut off valve)
78133S	Black Box; for Single Air Drier SDX
78140S	Black Box; for Single Air Drier SDX
78141S	Black Box; for Single Air Drier SDX
78150S	Heating Element; for Single Air Drier SDX; 24V/90W; cable length: 0.5m; Deutsch kit
78164	Repair Kit; for Consep (original 6-screw); Condenser side; c/w O-rings, 6 nuts & bolts; w/o cyclone
78165	Coil Kit; for Automatic Drain Valve/Consep; 24V; connection: M27
78166	Coil Kit; for Automatic Drain Valve/Consep; 12V; connection: M24
78169S	Black Box; for Single Air Drier SDX
78170S	Black Box; for Single Air Drier SDX
78171S	Black Box; for Single Air Drier SDX
78175S	Black Box; for Single Air Drier SDX
78186S	Black Box; for Single Air Drier SDX
78190	Drain Valve; for Twin Air Drier (series 200); plastic; (as 73589S)
78193	Drain Valve; for Twin Air Drier (series 100 & 200); plastic; R 1/4" outlet; (as 73666S)



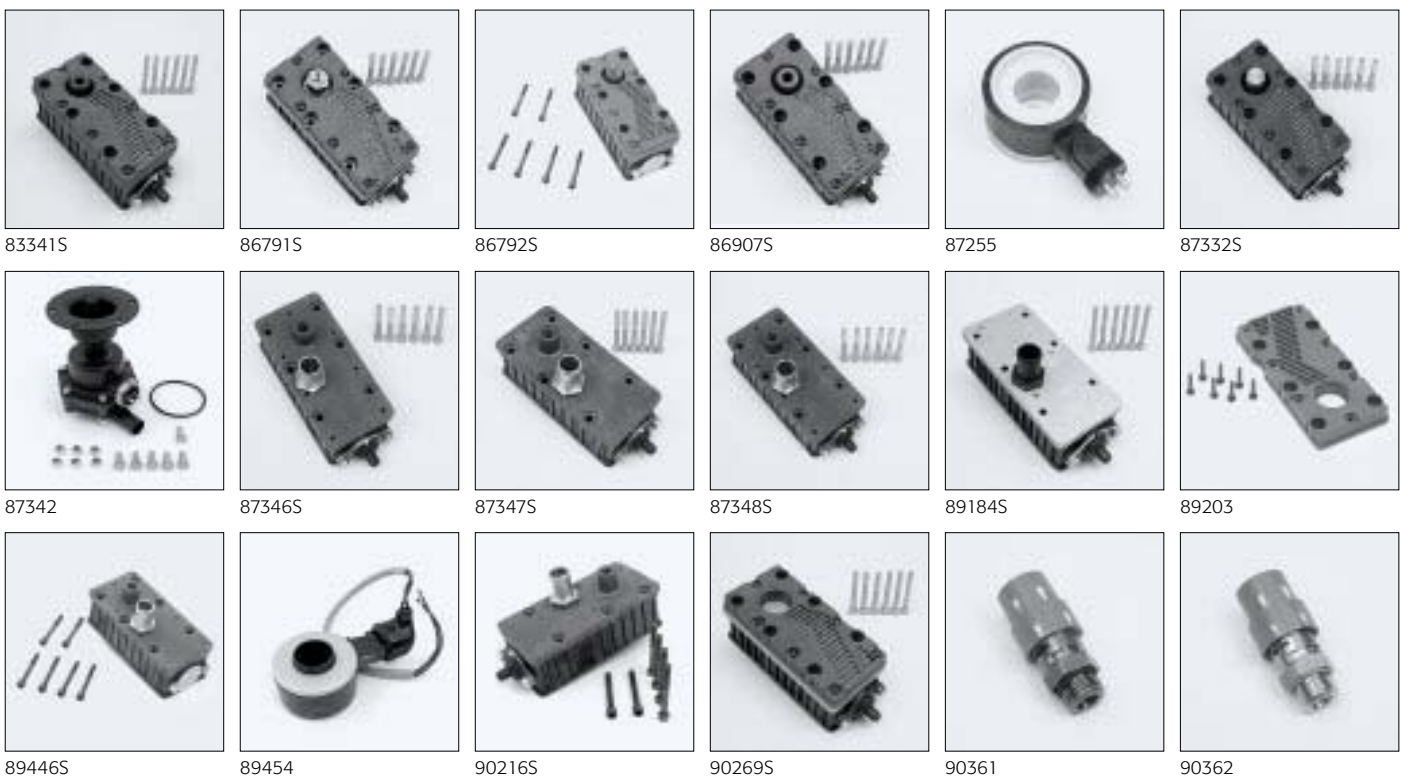
**AIR TREATMENT**

part number	description
78199S	Heating Element; for Single Air Drier SDX; 24V/90W; Packard kit
78223S	Heating Element; for Single Air Drier SDX; 12V/90W; Packard kit
78240	Draining Box Kit; for Automatic Drain Valve/Consep (universal)
78682S	Depot Valve; for Single Air Drier SDX; fits air driers with inlet port M22x1.5
78699S	Black Box; for Single Air Drier SDX
78701S	Ball Non-return Valve Inlet; for Single Air Drier SDX; for air driers with regeneration valve
78703S	Black Box; for Single Air Drier SDX
78704S	Black Box; for Single Air Drier SDX
78705S	Black Box; for Single Air Drier SDX
78706S	Black Box; for Single Air Drier SDX
78707S	Black Box; for Single Air Drier SDX
78708S	Black Box; for Single Air Drier SDX
78712S	Black Box; for Single Air Drier SDX
78716S	Black Box; for Single Air Drier SDX
78717S	Black Box; for Single Air Drier SDX
78720S	Black Box; for Single Air Drier SDX
78728S	Black Box; for Single Air Drier SDX
78730S	Black Box; for Single Air Drier SDX
78780S	Silencer Kit; for Single Air Drier (series 100 & 200)
78800	Air Drier Cartridge Kit; for Single Air Drier SDX (MTC version); for air driers with regeneration valve; c/w ball
78801S	Non-return Valve Outlet; for Single Air Drier SDX (universal); 2x check valve cone
78831S	O-ring; for Single Air Drier SDX; 150x3
78840S	Non-return Valve Outlet; for Single Air Drier SDX; for air driers with serial no. after week 7 09
78945S	Black Box; for Single Air Drier SDX
78947S	Black Box; for Single Air Drier SDX
78949S	Black Box; for Single Air Drier SDX
78954S	Black Box; for Single Air Drier SDX
78964	Air Drier Cartridge Kit; for Single Air Drier SDX (MTC version); for air driers w/o regeneration valve
83248S	Safety Valve Protector; for Single Air Drier SDX (with safety valve)

AIR TREATMENT



part number	description
83341S	Black Box; for Single Air Drier SDX
83376S	Black Box; for Single Air Drier SDX
86512	Cap c/w Fixing Flange; for Consep
86575S	Black Box; for Single Air Drier SDX
86583S	Black Box; for Single Air Drier SDX
86791S	Black Box; for Single Air Drier SDX
86792S	Black Box; for Single Air Drier SDX
86907S	Black Box; for Single Air Drier SDX
87219S	Black Box; for Single Air Drier SDX
87255	Coil Kit; for Automatic Drain Valve/Consep; 24V; connection: M24
87332S	Black Box; for Single Air Drier SDX
87333S	Black Box; for Single Air Drier SDX
87342	Automatic Drain Valve Kit; for Consep; 24V; M27; c/w drain collector
87346S	Black Box; for Single Air Drier SDX
87347S	Black Box; for Single Air Drier SDX
87348S	Black Box; for Single Air Drier SDX
89125S	Black Box; for Single Air Drier SDX
89184S	Black Box; for Single Air Drier SDX
89185S	Black Box; for Single Air Drier SDX
89203	Silencer Kit; for Single Air Drier SDX
89275S	Black Box; for Single Air Drier SDX
89446S	Black Box; for Single Air Drier SDX
89454	Coil Kit; for Automatic Drain Valve/Consep; 24V; c/w pigtail (cable length: 0.3m)
89455	Coil Kit; for Automatic Drain Valve/Consep; 12V; c/w pigtail (cable length: 0.3m)
89477S	Black Box; for Single Air Drier SDX
90027	Core Complete; for Automatic Drain Valve/Consep
90039S	Black Box; for Single Air Drier SDX
90216S	Black Box; for Single Air Drier SDX
90269S	Black Box; for Single Air Drier SDX
90361	Safety Valve; for Single Air Drier SDX; 11 bar; M16x1.5; red cap
90362	Safety Valve; for Single Air Drier SDX/Single/Twin Air Drier (series 200); 13 bar; M16x1.5; green cap



AIR TREATMENT

part number	description
90363	Safety Valve; for Single Air Drier SDX; 17 bar; M16x1.5; yellow cap
90364	Repair Kit; for Consep (original 6-screw); ADV side; complete
90453S	Black Box; for Single Air Drier SDX
90549S	Black Box; for Single Air Drier SDX
90821	Coil Kit; for Automatic Drain Valve/Consep; 24V; c/w pigtail (cable length: 1m); AMP
90968	Air Drier Cartridge Kit; for Air Drier USA (Purest); (MTC cartridge & grip ring)
90969	Air Drier Cartridge; for Air Drier USA (Purest); MTC Cartridge
90995S	Black Box; for Single Air Drier SDX
90997S	Black Box; for Single Air Drier SDX
91164	Repair Kit
91286	Turbo Protection Valve; for Single Air Drier SDX; connection: M27x1.5; 2.7 bar; (built in)
91323S	Black Box; for Single Air Drier SDX
91436S	Black Box; for Single Air Drier SDX
91598S	Black Box; for Single Air Drier SDX
91917	Coil Kit; for Automatic Drain Valve/Consep; 24V; c/w pigtail (cable length: 1m); DIN
91918	Coil Kit; for Automatic Drain Valve/Consep; 24V; c/w pigtail (cable length: 1m); Deutsch kit
91919	Coil Kit; for Automatic Drain Valve/Consep; 24V; c/w pigtail (cable length: 1m); Packard
92003S	Automatic Drain Valve Kit; for Consep (91790/ 92671); 24V; M27; c/w drain collector
92078	Air Drier Cartridge Kit; for Single Air Drier SDX (MTC-light)
92223S	Black Box; for Single Air Drier SDX
92534S	Black Box; for Single Air Drier SDX
92569S	Automatic Drain Valve Kit; for Consep (92573/ 92794); 24V; M24; c/w drain collector; ADV to be at 180 degrees when fitted to 92794
92692S	Automatic Drain Valve Kit; for Consep (92693); 24V; M27; w/o drain collector
92750S	Automatic Drain Valve Kit; for Consep (92752); 12V; c/w pigtail, cable L=0.3m; w/o drain collector
92790S	Automatic Drain Valve Kit; for Consep (92793); 24V; c/w pigtail, cable L=1m, DIN contact; w/o drain collector
92791S	Automatic Drain Valve Kit; for Consep (92795); 12V; M24; w/o drain collector
92794S	Automatic Drain Valve Kit; for Consep (92751); 24V; c/w pigtail, cable L=0.3m; w/o drain collector
92826	Repair Kit; for Consep (Quick-fit); Condenser side; complete
92832	Repair Kit; for Consep (Quick-fit); Condenser side; c/w O-rings & 4 locking collar nuts; w/o cyclone
92833	Repair Kit; for Consep (Quick-fit); ADV side; complete
92923S	Black Box; for Single Air Drier SDX
92924S	Black Box; for Single Air Drier SDX
92993S	Automatic Drain Valve Kit; for Consep (92992); 24V; c/w pigtail, cable L=1m, DIN contact; c/w drain collector; draining box turned 60 degrees
92996S	Automatic Drain Valve Kit; for Consep (92939); 24V; c/w pigtail, cable L=1m, DIN contact; c/w swivel draining box
92997S	Automatic Drain Valve Kit; for Consep (92797); 24V; c/w pigtail, cable L=1m, Deutsch contact; c/w drain collector; draining box turned 60 degrees
93100	Draining Box Kit; for Automatic Drain Valve/Consep (universal); c/w swivel
93337S	Heating Element; for Single Air Drier SDX; 24V/90W; DIN
93362S	Black Box; for Single Air Drier SDX
93440S	Black Box; for Single Air Drier SDX
93522	Air Drier Cartridge Kit; for Single Air Drier SDX (MTC+)
93734S	Heating Element; for Single Air Drier SDX; 12V/90W; connection: M27; Costal Kit
93735S	Heating Element; for Single Air Drier SDX; 12V/90W; cable length: 0.5m; Deutsch kit
950 310 009	Air Drier Cartridge; for ECAM
950 313 001	Repair Kit; for Anti-Freeze Injector (313001001)
950 313 002	Repair Kit; for Anti-Freeze Injector (313002../ 313005../ 313007..)
950 313 003	Repair Kit; for Anti-Freeze Injector (313014011)
950 782 090	Repair Kit; for Single Air Drier SDX (78209); for Renault; c/w 78169S, 78800 & 78801S
950 782 100	Repair Kit; for Single Air Drier SDX (78210); for Renault; c/w 78170S, 78800 & 78801S
950 782 110	Repair Kit; for Single Air Drier SDX (78211); for Renault; c/w 78171S, 78800 & 78801S
950 782 170	Repair Kit; for Single Air Drier SDX (78217); for Renault; c/w 78728S, 78800 & 78801S



90363



90364



90549S



92003S



92826



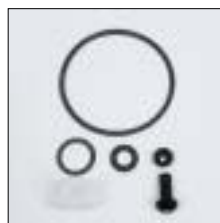
92832



92833



950 310 009



950 313 001



950 313 002



950 313 003



part number	description
950 782 190	Repair Kit; for Single Air Drier SDX (78219); for Renault; c/w 78730S, 78800 & 78801S
950 787 520	Repair Kit; for Single Air Drier SDX (78752); for Renault; c/w 78945S, 78800 & 78801S
950 787 530	Repair Kit; for Single Air Drier SDX (78753); for Volvo; c/w 78704S, 78964 & 78801S
950 789 880	Repair Kit; for Single Air Drier SDX (78988); for Volvo; c/w 78717S, 78964 & 78801S
950 789 900	Repair Kit; for Single Air Drier SDX (78990); for Volvo; c/w 78703S, 78964 & 78801S
950 834 910	Repair Kit; for Single Air Drier SDX (83491); for Iveco Bus
950 872 820	Repair Kit; for Single Air Drier SDX (87282); for Volvo; c/w 87332S, 78964 & 78801S
950 872 960	Repair Kit; for Single Air Drier SDX (87296); for Volvo; c/w 78717S, 78964 & 78801S
950 872 970	Repair Kit; for Single Air Drier SDX (87297); for Volvo; c/w 78104S, 78964 & 78801S
950 873 370	Repair Kit; for Single Air Drier SDX (87337); for Volvo; c/w 78949S, 78964 & 78801S
950 902 680	Repair Kit; for Single Air Drier SDX (90268); for Volvo; c/w 90269S, 78964 & 78801S
DA33120	Air Drier Cartridge; for Air Drier USA (Pure Air Plus); 6.5" tall
DQ6026	Air Drier Cartridge & Repair Kit; for Air Drier USA (Pure Air Plus)
KN31250	Pressure Relief Valve; for Air Drier USA (Pure Air); short body; thread: 3/8"; 150 PSI; (OEM N1178AB)
RN60A	Service Kit; for Air Drier USA (Pure Air); complete
RN60E	Lower Cover Repair Kit; for Air Drier USA (Pure Air); 24V
RN60F	Purge Valve Repair Kit; for Air Drier USA (Pure Air)
RN60K	Drainer Elbow; for Air Drier USA (Pure Air)
RN969	Bulk Recharge Kit; for Air Drier USA (Aerofiner II)
RN970	Purge Valve Repair Kit; for Air Drier USA (Aerofiner II)
RN973	Recharge Canister Kit; for Air Drier USA (Aerofiner II)

AIR TREATMENT



950 789 880



DA33120



DQ6026



KN31250



RN60A



RN60E



RN60F



RN60K



RN969



RN970

## AIR TREATMENT

part number	description
73651S	Tool; for Twin Air Drier; for 'G' ring (shuttle valve)
73653S	Dismantling Tool; for Single/Twin Air Drier (78183S); for governor valve (to adjust governor screw)
73654S	Tool; for Twin Air Drier; for valve locating screw

AIR TREATMENT



73651S



73654S

## AIR BRAKE

Compressors harness the energy of the engine, either belt or gear driven, to compress air for supply to the air brake and air suspension systems. The compressed air is passed, via. an Air Drier, into truck or trailer air tanks for storage, until required.



single cylinder

twin cylinder

part number	type	cooling medium	no. of cylinders	version	voltage	ports	stroke volume (cm <sup>3</sup> )	output capacity (l/min)	max. speed (rpm)	max. operating pressure (bar)	weight (kg)	flap valve	hydraulic pump bracket for ZF pump	note	application
301 109 003	Compressor	air cooled	1	KS100 DLU	-	M22x1.5	100	150	3000	8	8.4	c/w	-	universal version Konus 20	
301 110 028	Compressor	air cooled	1	KS100 DLU	-	M22x1.5	100	150	3000	8	8.6	c/w	-	universal version Konus 25	
301 111 011	Compressor	air cooled	1	KS100 DLPB	-	M22x1.5	100	150	3000	8	9.0	c/w	-		
301 112 003	Compressor	air cooled	1	KS100 DLE	-	M22x1.5	100	150	3000	8	8.4	w/o	-	Eicher + Hanomag Ölrücklauf	
301 114 001	Compressor	air cooled	1	KS100 TL	-	M22x1.5	100	150	3000	8	8.4	w/o	-		
301 205 101	Compressor	air cooled	1	K225 DLPZ	-	M26x1.5	229	330	3000	8	11.5	c/w	c/w		
306 012 011	Electro-compressor	air cooled	1	-	12V	3/8"	-	52	2400	10	25.0	c/w	-	c/w freeze protection	
330 600 06	Compressor	water cooled	2	EL 13020 (N7002A)	-	exhaust: 1/2" NPT; water in/out: 1/2" NPT; governor: 1/8" NPT; oil feed: 1/8" NPT; inlet: 0.8"x1.8"	292	525.6	3000	10	22.7	-	-	base mounted; pulley driven	Leyland Titan/ Gardner
330 600 07	Compressor	water cooled	2	EL 16020 (N7202)	-	exhaust: 1/2" NPT; water in/out: 1/2" NPT; governor: 1/8" NPT; oil feed: 1/8" NPT; inlet: 0.8"x1.8"	365	657	3000	10	22.7	-	-	base mounted; pulley driven	Leyland Olympian/ Victory Nationals 2/ Gardner
330 600 32	Compressor	water cooled	2	EL16100 (NT7210-E)	-	exhaust: 1/2" NPT; water in/out: 1/2" NPT; governor: 1/8" NPT; oil feed: 1/8" NPT; inlet: 0.8"x1.8"	365	657	3000	10	22.7	-	-	flange mounted; (1x 33060034, 1x SN3711K)	DDC
330 600 39	Compressor	water cooled	2	EL 1300 (NT7015D)	-	exhaust: 1/2" NPT; water in/out: 1/2" NPT; governor: 1/8" NPT; oil feed: 1/8" NPT; inlet: 0.8"x1.8"	292	525.6	3000	10	22.7	-	-		Caterpillar
EL16060	Compressor	water cooled	2	(N7206)	-	exhaust: 1/2" NPT; water in/out: 1/2" NPT; governor: 1/8" NPT; oil feed: 1/8" NPT; inlet: 0.8"x1.8"	365	657	3000	10	22.7	-	-	base mounted	
NT7022N	Compressor	water cooled	2	EL 1300	-	exhaust: 1/2" NPT; water in/out: 1/2" NPT; governor: 1/8" NPT; oil feed: 1/8" NPT; inlet: 0.8"x1.8"	292	525.6	3000	10	22.7	-	-		John Deere
NT7204	Compressor	water cooled	2	EL 16040	-	exhaust: 1/2" NPT; water in/out: 1/2" NPT; governor: 1/8" NPT; oil feed: ø0.34"; inlet: 0.8"x1.8"	365	657	3000	10	22.7	-	-		Cummins



301 109 003

301 110 028

301 111 011

301 112 003

301 114 001

301 205 101



330 600 07

330 600 32

330 600 39

NT7204

AIR BRAKE

Compressors, usually belt or gear driven directly from the engine or gearbox, have no means of temporary disengagement. Therefore, since a vehicles air requirement is not constant, some means of disconnecting the compressor from the reservoirs is necessary in order to prevent dangerously high pressures from building up. The system should also allow the compressor to replace air as it is used.

The two most common methods of controlling the charging and maximum pressure of the air system are:

- An Unloader Valve, mounted in series between the compressor and the air reservoirs.
- A Governor Valve, mounted in parallel with the compressor, and connected to an integrated unloader device in the compressor.

The safety valve prevents build-up of excessive pressure. The tyre inflator connection provides a means of filling tyres and external air brake installations or, vice versa, filling the vehicles own system (in case of failure) from an external source of compressed air. A connection for ancillary equipment facilitates, for instance, antifreezing the brake system.



part number	cut-out (bar)	switching range (bar)	safety valve op. pressure (bar)	signal (22/23)	ancillary port	tyre inflator connection	application
312 013 012	7.3±0.2	0.6+0.4	10-12	cut-in	plugged	c/w	Kass
312 013 014	8.1±0.2	0.6+0.4	10-12	cut-in	plugged	c/w	Volvo/Kass/Iveco/MAN/D-C
312 013 015	7.8±0.2	0.6+0.4	10-12	cut-in	plugged	c/w	Iveco
312 013 031	9.5±0.2	0.6+0.4	10-12	cut-in	plugged	c/w	Iveco
312 017 012	7.3±0.2	0.6+0.4	10-12	cut-in	plugged	c/w	Kass/Iveco/MAN/D-C
312 017 014	8.1±0.2	0.6+0.4	10-12	cut-in	plugged	c/w	Renault/Iveco/MAN/D-C
312 017 041	10.0±0.2	0.7+0.5	10-12	cut-in	plugged	c/w	MAN/D-C
312 019 011	5.3-5.6	4.8	9-11	-	w/o	c/w	
312 019 012	7.35±0.2	6.2-6.6	9-11	-	w/o	c/w	
312 029 014	8.1±0.2	0.6+0.4	9-11	cut-out	w/o	c/w	
312 030 001	8.1±0.2	0.6+0.4	9-11	cut-out	open	c/w	Kass/DAF/D-C
312 030 002	10.0±0.2	0.6+0.4	10-12	cut-out	open	c/w	
312 041 001	8.1±0.2	0.6+0.4	9-11	cut-out	open	w/o	
312 041 002	9.5±0.2	0.6+0.4	10-12	cut-out	open	w/o	
312 042 001	8.1±0.2	0.6+0.4	9-11	cut-out	open	w/o	



312 013 012      312 013 014      312 013 015      312 013 031      312 017 012      312 017 014



312 019 011      312 019 012      312 029 014      312 030 001      312 041 001      312 041 002



312 042 001

Compressors, usually belt or gear driven directly from the engine or gearbox, have no means of temporary disengagement. Therefore, since a vehicles air requirement is not constant, some means of disconnecting the compressor from the reservoirs is necessary in order to prevent dangerously high pressures from building up. The system should also allow the compressor to replace air as it is used.

The two most common methods of controlling the charging and maximum pressure of the air system are:

- An Unloader Valve, mounted in series between the compressor and the air reservoirs.
- A Governor Valve, mounted in parallel with the compressor, and connected to an integrated unloader device in the compressor.

Governor valves operate when a pre-set air reservoir storage pressure is reached. It activates the unloader mechanism in the air compressor to maintain the required system pressure.



part number	cut-in (bar)	nominal range	unloader port	note
312 040 011	7.2 +0.34	1.6±0.5	1/8" 27 NPTF	c/w gaskets & plugs
73183S	8.1±0.2	0.8±0.2	M10x1.0	for the Haldex Air Drier (series 100/200)
N30190Y	7.2 +0.34	1.6±0.5	1/8" 27 NPTF	

AIR BRAKE



312 040 011



73183S



N30190Y

**AIR BRAKE**

Also known as Pressure Relief Valve.

Safety Valves protect air brake systems from excessive air pressure build-up should the compressor unloading device fail.



part number	pre-set opening pressure (bar)	setting range opening pressure (bar)	dust cap	thread
315 004 001	11.0	7.0-12.0	w/o	M22x1.5
315 004 002	8.0	7.0-12.0	w/o	M22x1.5
315 004 003	9.5	7.0-12.0	w/o	M22x1.5
315 004 022	1.0	0.9-1.4	w/o	M22x1.5
315 004 031	0.6	0.5-0.65	w/o	M22x1.5
315 004 121	1.3	0.9-1.4	c/w	M22x1.5
N1178BB	10.3	-	w/o	3/8-18 NPTF

AIR BRAKE



315 004 003



315 004 022



315 004 031



315 004 121



N1178BB

Also known as 4-Way Protection Valve and Quadruple Protection Valve.

The Multi-Circuit Protection Valve is installed to charge 4 independent circuits with compressed air. In modern applications, the service brake system is charged first to a high pressure before the parking brake (spring brake) is charged. If one circuit fails (pressure loss) it protects the other circuits against complete pressure loss. It also allows sequential charging of reservoirs.

Those ports not used can be closed pressure-tight.



part number	no. of circuits	type	opening pressure (bar)	closing pressure (bar)	no. of ports	priority on circuit 1 or 2	non-return valve on circuits 3 & 4	supply port	delivery ports	max. operating pressure (bar)	application
314 059 001	4	Diaphragm	7.0-0.3	4.5	5	yes	yes	1xM22x1.5	4xM16x1.5	18	MAN/DAF
314 060 001	4	Diaphragm	7.0-0.3	4.5	5	yes	yes	1xM22x1.5	4xM16x1.5	18	MAN
314 067 001	4	Diaphragm	7.0-0.3	4.5	5	no	no	1xM22x1.5	4xM16x1.5	18	Iveco
314 096 501	4	Diaphragm	7.0-0.3	4.5	5	no	no	1xM22x1.5	4xM16x1.5	18	D-C

AIR BRAKE



314 059 001



314 067 001



314 096 501

### AIR BRAKE

Also known as Charge Valve, Overflow Valve & Pressure Safeguard Valve.

The Pressure Protection Valve protects air brake circuits; if one circuit fails (pressure loss) it protects the other circuits against complete pressure loss.

There are three types:

- **With backflow**, is installed, for instance, between two reservoirs when compressed air for the brake system is drawn from both reservoirs. When the pressure drops in the first reservoir, a balancing of pressure in both reservoirs takes place.
- **Without backflow**, is designed for brake systems where ancillary equipment is operated from a separate reservoir. An example of this would be a suspension tank, which would empty if a suspension air bag burst, but the brake system air tank would be protected.
- **With limited backflow**, is used where only a limited amount of backflow is required. Applications are the same as 'without backflow'.



part number	opening pressure (bar)	closing pressure (bar)	backflow	ports	max. operating pressure (bar)	DIN 74279
314 012 001	4.5-0.3	-	w/o	M22x1.5	20.0	C4.5-22
314 012 002	5.0-0.3	-	w/o	M22x1.5	20.0	C5.0-22
314 012 003	5.5-0.4	-	w/o	M22x1.5	20.0	C5.5-22
314 012 004	6.0-0.4	-	w/o	M22x1.5	20.0	C6.0-22
314 012 005	6.5-0.4	-	w/o	M22x1.5	20.0	C6.5-22
314 012 104	6.2-0.2	-	w/o	M22x1.5	10.0	C6.0-22
314 013 001	4.5-0.3	-	c/w	M22x1.5	20.0	A4.5-22
314 013 002	6.0-0.4	-	c/w	M22x1.5	20.0	A6.0-22
314 013 003	5.5-0.4	-	c/w	M22x1.5	20.0	A5.5-22
314 013 005	6.5-0.4	-	c/w	M22x1.5	20.0	A6.5-22
314 013 006	3.5-0.3	-	c/w	M22x1.5	20.0	A3.5-22
314 013 008	7.3-0.4	-	c/w	M22x1.5	20.0	A7.3-22
314 013 012	0.8-0.3	-	c/w	M22x1.5	20.0	A0.8-22
314 013 023	8.3-0.4	-	c/w	M22x1.5	20.0	A8.3-22
314 014 001	4.5-0.3	3.5	limited	M22x1.5	20.0	B4.5-22
314 014 002	6.0-0.4	5.0	limited	M22x1.5	20.0	B6.0-22
314 014 003	6.2-0.2	5.7±0.2	limited	M22x1.5	20.0	B6.2-22
314 014 005	5.5-0.4	-	limited	M22x1.5	20.0	B5.5-22
314 014 008	7.3-0.3	-	limited	M22x1.5	20.0	B7.3-22
314 014 012	0.5±0.2	0.8±0.2	limited	M22x1.5	20.0	B0.5-22
314 014 031	10.0-0.4	-	limited	M22x1.5	20.0	B10.0-22
314 110 001	4.5	-	c/w	M22x1.5	20.0	A4.5-22
514 007 011	-	0.5...2.8	w/o	M10x1.0	7.5	-
905 541 07	75 PSIG	70 PSIG	c/w	1/4" NPT	10.0	-
905 541 51	6.1	5.2	c/w	M12	10.0	-
905 541 74	5.1	4.2	c/w	M12	10.0	-
905 542 66	6.1	5.2	c/w	M16	10.0	-
KN31000	6.5	4.5	w/o	1/4" FPT	10.0	-



314 \*\*\* \*\*



905 541 07



905 541 51



905 541 74



905 542 66



## AIR BRAKE

Also known as Foot Brake Valve.

The Service Brake Valve is used for progressive pressure control, in pneumatic or hydraulic braking systems. It controls a fully gradual supply of air to the brake actuators, during both the application and release of the brakes.

With dual circuit systems (on-road vehicles), in case of failure in one braking circuit, the other circuit will remain fully effective.



with pedal

plunger operated

part number	no. of circuits	pedal	operation	reduction	pressure variation Dp (bar)	no. of ports	ports	front axle regulation	max. operating pressure (bar)	application
320 003 103	single circuit	@ 20 degrees	pneumatic	w/o	w/o	3	M22x1.5	w/o	8.0	
320 052 011	double circuit	w/o (plunger)	pneumatic	2.0:1	0.1	5	M16x1.5	front axle regulation exhaust port	10	MAN/VW
320 053 001	double circuit	w/o (plunger)	pneumatic	w/o	0.3	4	M16x1.5	w/o	10	MAN/VW/Nissan
320 059 001	double circuit	w/o (plunger)	pneumatic	w/o	0.5	4	M16x1.5	w/o	10	
320 060 101	double circuit	w/o (plunger)	pneumatic	1.5:1	0.4	5	M22x1.5 & M16x1.5	front axle regulation exhaust port GWN 00.025	10	
320 060 102	double circuit	w/o (plunger)	pneumatic	1.5:1	0.2	5	M22x1.5 & M16x1.5	front axle regulation exhaust port GWN 00.025	10	
320 060 103	double circuit	w/o (plunger)	pneumatic	1.5:1	0.1	5	M22x1.5 & M16x1.5	front axle regulation exhaust port GWN 00.025	10	
320 060 111	double circuit	w/o (plunger)	pneumatic	2.0:1	0.4	5	M22x1.5 & M16x1.5	front axle regulation exhaust port GWN 00.025	10	
320 060 112	double circuit	w/o (plunger)	pneumatic	2.0:1	0.2	5	M22x1.5 & M16x1.5	front axle regulation exhaust port GWN 00.025	10	
320 060 113	double circuit	w/o (plunger)	pneumatic	2.0:1	0.1	5	M22x1.5 & M16x1.5	front axle regulation exhaust port GWN 00.025	10	
320 060 121	double circuit	w/o (plunger)	pneumatic	2.7:1	0.4	5	M22x1.5 & M16x1.5	front axle regulation exhaust port GWN 00.025	10	
320 060 122	double circuit	w/o (plunger)	pneumatic	2.7:1	0.2	5	M22x1.5 & M16x1.5	front axle regulation exhaust port GWN 00.025	10	
320 060 123	double circuit	w/o (plunger)	pneumatic	2.7:1	0.1	5	M22x1.5 & M16x1.5	front axle regulation exhaust port GWN 00.025	10	
320 062 111	double circuit	w/o (plunger)	pneumatic	2.0:1	0.3	5	M22x1.5 & M16x1.5	front axle regulation exhaust port	10	
320 063 101	double circuit	w/o (plunger)	pneumatic	1.5:1	0.4	5	M22x16 & M16x1.5	front axle regulation exhaust port	10	
320 063 102	double circuit	w/o (plunger)	pneumatic	1.5:1	0.2	5	M22x16 & M16x1.5	front axle regulation exhaust port	10	
320 063 103	double circuit	w/o (plunger)	pneumatic	1.5:1	0.1	5	M22x16 & M16x1.5	front axle regulation exhaust port	10	
320 063 104	double circuit	w/o (plunger)	pneumatic	1.5:1	0.6	5	M22x16 & M16x1.5	front axle regulation exhaust port	10	MAN
320 063 111	double circuit	w/o (plunger)	pneumatic	2.0:1	0.4	5	M22x16 & M16x1.5	front axle regulation exhaust port	10	
320 063 112	double circuit	w/o (plunger)	pneumatic	2.0:1	0.2	5	M22x16 & M16x1.5	front axle regulation exhaust port	10	
320 063 113	double circuit	w/o (plunger)	pneumatic	2.0:1	0.1	5	M22x16 & M16x1.5	front axle regulation exhaust port	10	
320 063 114	double circuit	w/o (plunger)	pneumatic	2.0:1	0.6	5	M22x16 & M16x1.5	front axle regulation exhaust port	10	



320 003 103

320 052 011

320 053 001

320 059 001

320 060 101

320 060 102



320 060 103

320 060 111

320 060 112

320 060 122

320 060 123

320 063 101



320 063 103

320 063 112

320 063 114

AIR BRAKE

AIR BRAKE

part number	no. of circuits	pedal	operation	reduction	pressure variation Dp (bar)	no. of ports	ports	front axle regulation	max. operating pressure (bar)	application
320 063 121	double circuit	w/o (plunger)	pneumatic	2.7:1	0.4	5	M22x16 & M16x1.5	front axle regulation exhaust port	10	
320 063 122	double circuit	w/o (plunger)	pneumatic	2.7:1	0.2	5	M22x16 & M16x1.5	front axle regulation exhaust port	10	
320 063 123	double circuit	w/o (plunger)	pneumatic	2.7:1	0.1	5	M22x16 & M16x1.5	front axle regulation exhaust port	10	
320 065 001	double circuit	w/o (plunger)	pneumatic	w/o	w/o	4	M16x1.5 & M12x1.5	w/o	10	D-C
320 066 001	double circuit	w/o (plunger)	hydraulic	w/o	w/o	4	M16x1.5 & M14x1.5	w/o	80/8.0	
560 002 133	single circuit	@ 45 degrees	pneumatic	w/o	w/o	2	M22x1.5	w/o	5.5	for excavators
560 025 041	single circuit	@ 27 degrees	hydraulic	w/o	w/o	3	M14x1.5	w/o	30...40	for excavators
560 030 001	single circuit	@ 45 degrees	hydraulic	w/o	w/o	3	M14x1.5	w/o	40	for excavators
560 035 001	single circuit	@ 22 degrees	hydraulic	w/o	w/o	3	M14x1.5	w/o	30...40	for excavators
560 037 001	single circuit	@ 27 degrees	hydraulic	w/o	w/o	3	M14x1.5	w/o	30...40	for excavators
KN22100	single circuit	w/o (plunger)	pneumatic	w/o	w/o	8	supply 2x 1/2" & 2x 1/4"; delivery 4x 1/2"	w/o	9	USA
KN22150	double circuit	w/o (plunger)	pneumatic	w/o	w/o	8	3/8 18NPTF	w/o	9	USA
KN22501	double circuit	@ 45 degrees	pneumatic	w/o	w/o	8	3/8 18NPTF	w/o	9	USA
KN22600	single circuit	@ 45 degrees	pneumatic	w/o	w/o	8	3/8 18NPTF	w/o	9	USA
N30099LA	double circuit	w/o (plunger)	pneumatic	w/o	w/o	8	3/8 18NPTF	w/o	9	USA



320 063 121



320 063 122



320 063 123



320 065 001



560 002 133



KN22501

Also known as Hand Control Valve.

Hand Brake Valves are sensitive and progressive charge/exhaust valves, used to control the spring brake. In the emergency position, if the lever is released, the valve automatically switches to the release position. In the parking brake position, the lever is locked in place.



part number	lever length (mm)	handle type	gate position	test position	no. of ports	ports	max. operating pressure (bar)
328 008 031	160	smooth	w/o	w/o	3	M12x1.5	5.5
328 026 001	105	lipped	R/H	c/w	6	M14x1.5	8

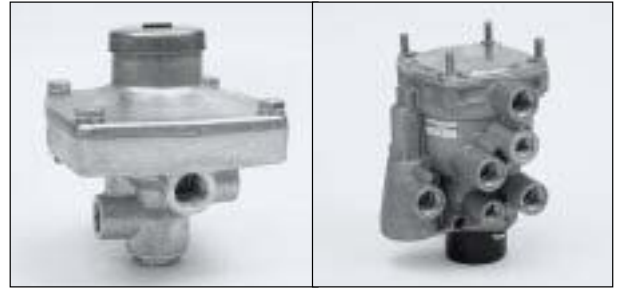


328 008 031

AIR BRAKE

The single circuit Trailer Control Valve controls the single-line inverted system of the trailer, in conjunction with the service brakes of the towing vehicle.

The double circuit Trailer Control Valve controls the twin line air brake system of the towed vehicle in twin-line/double circuit air brakes with spring loaded brake chambers. It acts as a relay valve with 3 control ports and delivers compressed air to the red coupling head (emergency line).



Single circuit

Double circuit

part number	no. of lines	service pressure (bar)	pressure limitation Pe (bars)	predominance (bar)	pressure lead	plug connection	cut-off valve	integrated 2/2-way throttle valve	ports	note	application
329 006 121	1	<7.3	5.3	-	-	-	-	-	M22x1.5	for inverted trailer system	
329 006 341	1	>7.3	5.3	-	-	-	-	-	M22x1.5	for inverted trailer system	
329 006 361	1	>7.3	5.3	-	-	-	-	-	M22x1.5	for inverted trailer system	
329 024 071	1	7.3-8.5	5.3	-	-	-	-	-	M22x1.5	for inverted trailer system	
355 029 501	2	10.0	-	w/o	w/o	w/o	w/o	c/w	M16x1.5		tractor
355 094 001	2	11.0	-	0.15	c/w	c/w	c/w	c/w	4xM22x1.5 & 2xM16x1.5	c/w silencer	D-C
355 094 011	2	11.0	-	0.15	c/w	c/w	c/w	c/w	4xM22x1.5 & 2xM16x1.5	c/w exhaust supply	D-C

AIR BRAKE



329 006 121



329 006 341



329 006 361



329 024 071



355 029 501



355 094 001

## AIR BRAKE

Trailer Control Valves (hydraulic control) serve in conjunction with the hydraulic master-cylinder of the motor vehicle to control the air brake system on the trailer



Single circuit

Double circuit

part number	no. of circuits	control pressure @ 6 bar	medium	hydr. control volume	control lever	hydraulic ports	pneumatic ports	max. hydraulic pressure (bar)	max. pneumatic pressure (bar)
329 017 241	single circuit	40±10%	mineral oil	1.2 cm <sup>3</sup>	looped	M12x1.5	M16x1.5	150	10
329 020 201	double circuit	60±10%	brake fluid	1.2 cm <sup>3</sup>	looped	M12x1.25	M16x1.5	150	10
329 020 241	double circuit	60±10%	brake fluid	1.2 cm <sup>3</sup>	flat	M12x1.25	M16x1.5	150	10
329 020 251	double circuit	86±10%	brake fluid	1.2 cm <sup>3</sup>	flat	M12x1.25	M16x1.5	150	10
329 020 261	double circuit	8±10%	mineral oil	2.5 cm <sup>3</sup>	flat	M12x1.0	M16x1.5	150	10
329 020 271	double circuit	8±10%	brake fluid	2.5 cm <sup>3</sup>	flat	M12x1.0	M16x1.5	150	10
329 020 281	double circuit	60±10%	mineral oil	1.2 cm <sup>3</sup>	looped	M12x1.0	M16x1.5	150	10
329 020 291	double circuit	15±10%	brake fluid	1.2 cm <sup>3</sup>	flat	M12x1.0	M16x1.5	150	10
329 020 301	double circuit	15±10%	mineral oil	1.2 cm <sup>3</sup>	flat	M12x1.0	M16x1.5	150	10
329 020 311	double circuit	20±10%	brake fluid	1.2 cm <sup>3</sup>	flat	M12x1.0	M16x1.5	150	10
329 020 321	double circuit	20±10%	mineral oil	1.2 cm <sup>3</sup>	flat	M12x1.0	M16x1.5	150	10
329 020 331	double circuit	30±10%	brake fluid	1.2 cm <sup>3</sup>	flat	M12x1.0	M16x1.5	150	10
329 020 341	double circuit	30±10%	mineral oil	1.2 cm <sup>3</sup>	flat	M12x1.0	M16x1.5	150	10
329 020 371	double circuit	40±10%	brake fluid	1.2 cm <sup>3</sup>	looped	M12x1.0	M16x1.5	150	10
329 020 401	double circuit	8.5±10%	mineral oil	2.5 cm <sup>3</sup>	flat	M12x1.0	M16x1.5	150	10
329 020 421	double circuit	60±10%	brake fluid	1.2 cm <sup>3</sup>	flat	M12x1.0	M16x1.5	150	10
329 020 471	double circuit	60±10%	mineral oil	1.2 cm <sup>3</sup>	looped	M12x1.0	M16x1.5	150	10

AIR BRAKE



329 017 241

329 020 201

329 020 241

329 020 251

329 020 261

329 020 271



329 020 281

329 020 291

329 020 301

329 020 311

329 020 321

329 020 331



329 020 401

329 020 421

AIR BRAKE

Couplings allow air lines to be connected between the towing vehicle and trailer. Tractor couplings have a self-seal valve to automatically close the air supply when disconnected.

Palm Couplings are original equipment throughout Europe, except for the UK where C & CA couplings are the norm. On UK trailer headboards:

- Emergency line = Male C Coupling
- Service line = Female C Coupling
- Auxiliary line = Male CA Coupling

Many Palm Couplings have a cam on the housing to prevent incorrect connection of the emergency and service couplings.

Dummy Couplings are used to store and seal the Palm Coupling head when not in use, to prevent damage and dirt ingress.



Palm Coupling

Dummy Coupling

Male C

Female C

part number	type	colour indication	for line	cover	port	automatic shut-off	connection cam	valve lifter	check valve	test point	filter	standard	max. operating pressure (bar)	note	can use
200 015 001	Male C Coupling	-	emergency	-	1/2" NPTF	-	-	w/o	-	w/o	w/o	BSAU138a	10.0		*
200 016 011	Male CA Coupling	-	secondary	-	M22x1.5	-	-	w/o	-	w/o	w/o	BSAU138a	10.0		
200 017 041	Female C Coupling	-	service	-	M22x1.5	-	-	c/w	-	w/o	w/o	BSAU138a	10.0		●
200 018 001	Female CA Coupling	-	secondary	-	1/2" NPTF	-	-	w/o	-	w/o	w/o	BSAU138a	10.0		
334 004 001	Palm Coupling	black	emergency	plastic	M22x1.5	automatic	w/o	-	-	w/o	w/o	DIN 74294-A	8.0		
334 007 001	Palm Coupling	black	emergency	plastic	M22x1.5	w/o	w/o	-	-	w/o	w/o	DIN 74294-B	8.0		
334 025 031	Palm Coupling	yellow	service	plastic	M16x1.5	w/o	c/w	-	-	w/o	w/o	ISO 1728	10.0		
334 026 031	Palm Coupling	red	emergency	plastic	M16x1.5	w/o	c/w	-	-	w/o	w/o	ISO 1728	10.0		
334 028 001	Dummy Palm Coupling	-	service/emergency	-	-	-	-	-	-	-	-	-	-	for couplings w/o self-seal valve	
334 043 001	Palm Coupling	black	service/emergency	plastic	M22x1.5	automatic	w/o	-	-	w/o	w/o	DIN 74294	10.0		
334 053 201	Palm Coupling	black	service/emergency	plastic	M16x1.5	w/o	w/o	-	-	w/o	w/o	ISO 1728	10.0		
334 053 211	Palm Coupling	-	service/emergency	w/o	M16x1.5	w/o	w/o	-	-	w/o	w/o	ISO 1728	10.0		

\* 339022001

● 339023001



200 015 001

200 016 011

200 017 041

200 018 001

334 004 001

334 007 001



334 025 031

334 026 031

334 028 001

334 043 001

334 053 201

334 053 211

## AIR BRAKE

part number	type	colour indication	for line	cover	port	automatic shut-off	connection cam	valve lifter	check valve	test point	filter	standard	max. operating pressure (bar)	note	can use
334 053 221	Palm Coupling	black	service/emergency	plastic	M22x1.5	w/o	w/o	-	-	w/o	w/o	ISO 1728	10.0		
334 053 231	Palm Coupling	-	service/emergency	w/o	M22x1.5	w/o	w/o	-	-	w/o	w/o	ISO 1728	10.0		
334 053 261	Palm Coupling	-	service/emergency	w/o	1/2" NPTF	w/o	w/o	-	-	w/o	w/o	ISO 1728	10.0		
334 053 301	Palm Coupling	-	service/emergency	w/o	M22x1.5	w/o	w/o	-	-	w/o	w/o	ISO 1728	10.0		
334 053 311	Palm Coupling	-	service/emergency	w/o	1/2" NPTF	w/o	w/o	-	-	w/o	w/o	ISO 1728	10.0		
334 054 201	Palm Coupling	yellow	service	plastic	M16x1.5	locating pin	c/w	-	-	w/o	w/o	ISO 1728	10.0		
334 054 211	Palm Coupling	yellow	service	plastic	M22x1.5	locating pin	c/w	-	-	w/o	w/o	ISO 1728	10.0		
334 054 231	Palm Coupling	yellow	service	plastic	1/2" NPTF	locating pin	c/w	-	-	w/o	w/o	ISO 1728	10.0		
334 054 241	Palm Coupling	yellow	service	plastic	M16x1.5	locating pin	c/w	-	-	c/w	w/o	ISO 1728	10.0		
334 055 201	Palm Coupling	red	emergency	plastic	M16x1.5	locating pin	c/w	-	-	w/o	w/o	ISO 1728	10.0		
334 055 211	Palm Coupling	red	emergency	plastic	M22x1.5	locating pin	c/w	-	-	w/o	w/o	ISO 1728	10.0		
334 055 231	Palm Coupling	red	emergency	plastic	1/2" NPTF	locating pin	c/w	-	-	w/o	w/o	ISO 1728	10.0		
334 055 401	Palm Coupling	red	emergency	plastic	M16x1.5	locating pin	c/w	-	-	w/o	c/w	ISO 1728	10.0		
334 063 001	Palm Coupling	red	emergency	steel	M16x1.5	automatic	c/w	-	-	w/o	w/o	ISO 1728	10.0		
334 063 011	Palm Coupling	red	emergency	plastic	M16x1.5	automatic	c/w	-	-	w/o	w/o	ISO 1728	10.0		
334 064 001	Palm Coupling	yellow	service	steel	M16x1.5	automatic	c/w	-	-	w/o	w/o	ISO 1728	10.0		
334 064 011	Palm Coupling	yellow	service	plastic	M16x1.5	automatic	c/w	-	-	w/o	w/o	ISO 1728	10.0		
334 066 001	Dummy Palm Coupling	-	service/emergency	-	-	-	-	-	-	-	-	-	-	for couplings c/w self-seal valve	
334 071 001	Palm Coupling	red	emergency	steel	M22x1.5	automatic	c/w	-	-	w/o	w/o	ISO 1728	10.0		
334 072 001	Palm Coupling	yellow	service	steel	M22x1.5	automatic	c/w	-	-	w/o	w/o	ISO 1728	10.0		
339 018 001	Female C Coupling	red	emergency	-	M22x1.5	-	-	w/o	-	w/o	w/o	BSAU138b	10.0	c/w self-seal valve	
339 019 001	Male C Coupling	yellow	service	-	M22x1.5	-	-	w/o	-	w/o	w/o	BSAU138b	10.0	c/w self-seal valve	
339 020 001	Female C Coupling	red	emergency	-	M16x1.5	-	-	w/o	-	w/o	w/o	BSAU138b	10.0	c/w self-seal valve	
339 021 001	Male C Coupling	yellow	service	-	M16x1.5	-	-	w/o	-	w/o	w/o	BSAU138b	10.0	c/w self-seal valve	

AIR BRAKE



**AIR BRAKE**

part number	type	colour indication	for line	cover	port	automatic shut-off	connection cam	valve lifter	check valve	test point	filter	standard	max. operating pressure (bar)	note	can use
339 022 001	Male C Coupling	red	emergency	-	M22x1.5	-	-	w/o	-	w/o	w/o	BSAU138b	10.0		
339 023 001	Female C Coupling	yellow	service	-	M22x1.5	-	-	c/w	-	w/o	w/o	BSAU138b	10.0		
N20415NB	Palm Coupling	red	emergency	w/o	1/2" NPTF	w/o	c/w	-	w/o	w/o	c/w	EST-3119	10.0	USA	
N20415PB	Palm Coupling	blue	service	w/o	1/2" NPTF	w/o	c/w	-	w/o	w/o	c/w	EST-3119	10.0	USA	

**AIR BRAKE**



339 022 001



339 023 001



N20415NB



N20415PB



The Trailer Control Module (TrCM) is a combined park & shunt valve with integrated pressure protection and emergency function.

Advantages:

- Minimal installation effort due to integrated design.
- Emergency function operates the service brake, or the spring loaded parking brake in case of pressure loss.
- Complies with international/national brake regulations (EEC/ECE/StVZO).
- Fix points match the current Integrated Park & Shunt Valve.
- Universal trailer use.



part number	pressure protection valve	opening pressure (bar)	closing pressure (bar)	medium	op. temp (deg C)	weight (kg)	max. operating pressure (bar)	note
352 067 001	C6-22	6.2	5.2	air	-40...+70	1.8	10.0	c/w label (028044309)

**AIR BRAKE**

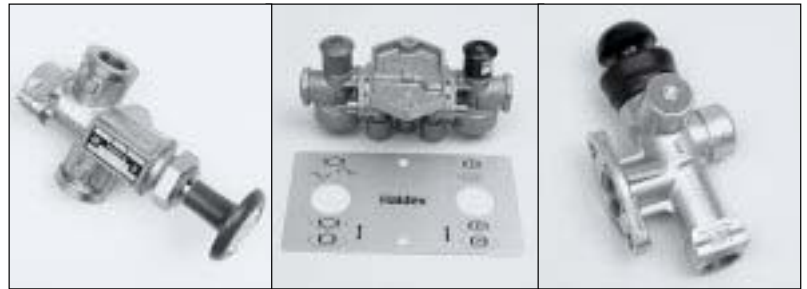
In general, 3/2-Way Valves are used for charging or discharging purposes in pneumatic control systems.

Park Valves are used to apply or release the spring portion on diaphragm spring brakes. Pulling the knob outwards releases the air from the spring, which allows the spring to expand, which, in turn applies the brakes. The brakes are released by pushing the knob inwards, which allows air to compress the springs.

Shunt Valves are used to release the brakes on a trailer when it is uncoupled from a tractor unit. The shunt valve is operated by pushing the knob in; this releases the service brakes and allows the trailer to be manoeuvred around the yard without the emergency (red) line being coupled. Brakes are re-applied by pulling the knob out. Also, the valve automatically resets when the emergency line is re-connected.

Combined Park and Shunt Valves combine the park and shunt functions into one single unit.

Auto Release Valves have the same function as Shunt Valves but are connected directly to the Relay Emergency Valve.

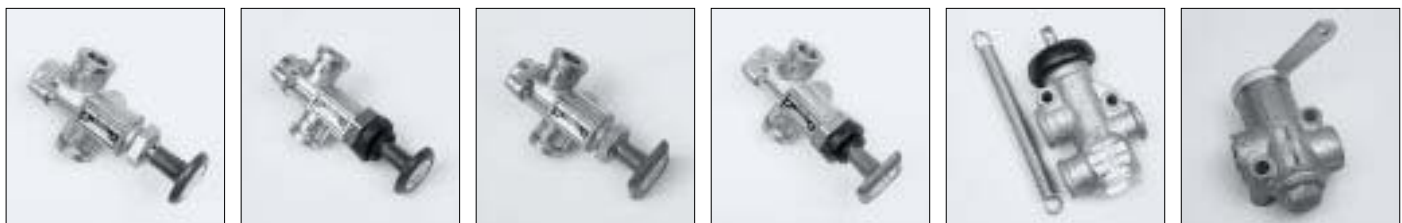


Shunt Valve

Combined Park & Shunt

Release Valve

part number	type	control	knob	bellow	return spring	mounting point	ports	for	max. operating pressure (bar)	note
207 012 001	Shunt Valve	manual	blue, round, UK label	w/o	w/o	w/o	M16x1.5	-	8.5	ports do not have flush faces
207 012 021	Shunt Valve	manual	blue, round, UK label	c/w	w/o	w/o	M16x1.5	-	8.5	
207 013 001	Park Valve	manual	red, square, UK label	w/o	-	w/o	M16x1.5	-	8.5	ports do not have flush faces
207 013 021	Park Valve	manual	red, square, UK label	c/w	-	w/o	M16x1.5	-	8.5	
329 007 001	Trailer Brake Control Valve	mechanical	w/o	-	-	c/w	M22x1.5	-	8.0	service pressure (bar): 5.6; c/w spring
329 015 001	Trailer Brake Control Valve	mechanical	w/o	-	-	c/w	M22x1.5	-	8.0	
352 001 001	Release Valve, for REV Europa	automatic	black, round, w/o label	-	-	c/w	M22x1.5	350001... & 351006...	8.0	
352 005 401	Release Valve	automatic	black, round button	-	-	c/w	M22x1.5	-	8.0	
352 006 201	Release Valve	automatic	black, round button	-	-	c/w	M22x1.5	-	8.0	3-way
352 007 401	Release Valve	automatic	black, round button	-	-	c/w	M22x1.5	-	8.0	
352 012 001	Release Valve, for REV	automatic	black, round button	-	-	c/w	M22x1.5	351008.. & 351009..	10.0	c/w seals
352 012 101	Release Valve, for REV	automatic	black, round button	-	-	c/w	M22x1.5	351008.. & 351009..	10.0	



207 012 001

207 012 021

207 013 001

207 013 021

329 007 001

329 015 001



352 001 001



352 005 401



352 006 201



352 007 401



352 012 001



352 012 101

# 3/2-Way Valve



## AIR BRAKE

part number	type	control	knob	bellow	return spring	mounting point	ports	for	max. operating pressure (bar)	note
352 018 001	Shunt Valve	manual	blue, round, c/w label	w/o	w/o	w/o	M16x1.5	-	8.5	ports do not have flush faces
352 018 011	Shunt Valve	manual	blue, round, c/w label	c/w	w/o	w/o	M16x1.5	-	8.5	
352 018 021	Shunt Valve	manual	black, round, w/o label	c/w	w/o	w/o	M16x1.5	-	8.5	army application
352 018 031	Shunt Valve	manual	black, round, w/o label	c/w	w/o	w/o	M16x1.5	-	8.5	army application, c/w flap valve
352 019 001	Park Valve	manual	red, square, c/w label	w/o	-	w/o	M16x1.5	-	8.5	ports do not have flush faces
352 019 011	Park Valve	manual	red, square, c/w label	c/w	-	w/o	M16x1.5	-	8.5	ports do not have flush faces
352 019 031	Park Valve	manual	red, square, w/o label	c/w	-	w/o	M16x1.5	-	8.5	
352 019 041	Park Valve	manual	red, round, w/o label	c/w	-	w/o	M16x1.5	-	8.5	
352 025 011	Shunt Valve	automatic	black, round button	w/o	c/w	w/o	M16x1.5	-	8.5	
352 026 011	Park Valve	automatic	w/o	w/o	-	w/o	M16x1.5	-	8.5	
352 029 001	Shunt Valve	automatic	w/o	w/o	w/o	w/o	M16x1.5	-	8.5	General Trailer/SDC
352 030 001	Park Valve	manual	w/o	w/o	-	w/o	M16x1.5	-	8.5	D-C/General Trailer/SDC/SESR special
352 044 001	Park & Shunt Valve Combined	manual	black/red	w/o	w/o	c/w	M16x1.5	-	8.5	w/o non-return valve in port11, c/w instruction plate
352 045 001	Park & Shunt Valve Combined	manual	black/red	w/o	w/o	c/w	M16x1.5	-	8.5	c/w non-return valve in port11, c/w instruction plate
352 046 001	Park & Shunt Valve Combined	manual	black/red	w/o	w/o	c/w	M16x1.5	-	8.5	c/w instruction plate; emergency function via parking section of spring brake
352 058 001	Park Valve	manual	red, square, c/w label	c/w	-	w/o	M16x1.5	-	8.5	c/w check valve (for parking brake only)
KN20001	Lever Operated On-Off Valve	manual	-	-	-	c/w	1/8" NPTF	-	8.5	twisted chrome lever; c/w exhaust
N13440DN	Lever Operated On-Off Valve	manual	-	-	-	c/w	M5 (1.5" centres)	-	8.5	twisted chrome lever; c/w exhaust

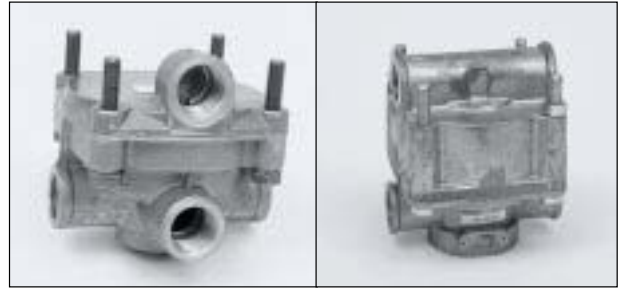
AIR BRAKE



AIR BRAKE

A Relay Valve is designed to speed up the admission and release of large volumes of air, e.g. for the application and release of brakes on a long wheel base vehicle. Positioned close to a compressed air source, it is normally signalled by a small volume of air from a control valve, to which it reacts precisely, quickly releasing a large volume of air.

Dual controlled relay valves, complete with a secondary control line, are fitted on air brake systems with combined diaphragm/spring brake actuators. They prevent simultaneous operation of service and secondary/parking brakes (anti-compound function)



single control line

dual control line

part number	port 1	port 2	port 4	chassis connection	max. operating pressure (bar)	note
355 018 001	M22x1.5	M22x1.5	M16x1.5	2 bolts, c/w nuts & washers	10.0	
355 018 011	M22x1.5	M22x1.5	M22x1.5	4 bolts, w/o nuts & washers	10.0	
355 018 071	M22x1.5	M16x1.5	M16x1.5	4 bolts, w/o nuts & washers	10.0	
355 023 061	M22x1.5	M22x1.5	M22x1.5	2 bolts, c/w nuts & washers	10.0	
355 093 001	M22x1.5	M22x1.5	M22x1.5	4 bolts, w/o nuts & washers	10.0	c/w secondary control line
KN28071	2x 1/2" NPT	2x 1/2" NPT	1x 1/4" & 1x 1/8" NPT	c/w K202000 bracket	9.5	c/w integrated 2-way check valve
KN28300	2x 1/2" NPT	2x 1/2" NPT	3/8" NPT	2x 0.34" dia. on 1.50" centers	9.5	



355 018 001



355 018 011



355 018 071



355 023 061



355 093 001



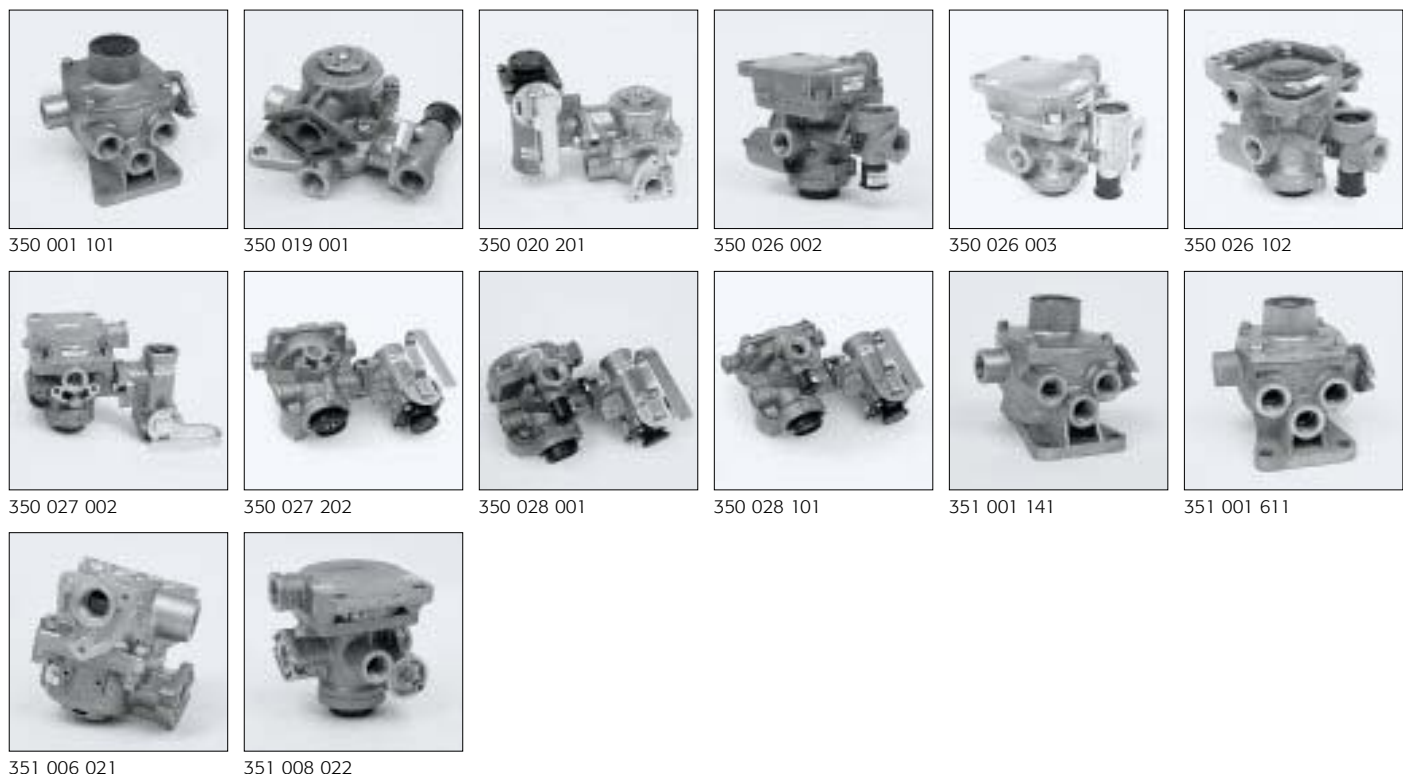
KN28071

A Relay Emergency Valve is fitted to trailers and operates as a Relay Valve during normal service operation. It speeds up the admission and release of large volumes of air, e.g. for the application and release of brakes on a long wheel base vehicle. However, the Relay Emergency Valve has an additional emergency function, which will automatically apply the trailer service brakes if the supply (red) line fails.

A predominance device ensures truck/trailer braking compatibility.



part number	no. of circuits	type	delivery ports	predominance (bar)	auto. release valve	light laden valve	max. operating pressure (bar)	note
350 001 101	single/dual circuit	StVZO/EG	4xM22x1.5	w/o	c/w	w/o	5.5/8.0	(351001131+352001001)
350 019 001	single circuit	StVZO	4xM22x1.5	w/o	c/w	w/o	5.5	(351006011+352001001)
350 020 201	single circuit	StVZO	4xM22x1.5	w/o	w/o	c/w	5.5	(351006001+352011101)
350 023 101	single circuit	StVZO	4xM22x1.5	w/o	w/o	c/w	5.5	(351006001+352011101)
350 026 002	dual circuit	EG	3xM22x1.5/1xM16x1.5	0.0 adjustable	c/w	w/o	10.0	(351008012+352012001)
350 026 003	dual circuit	EG	3xM22x1.5/1xM16x1.5	0.2	c/w	w/o	10.0	(351008013+352012001)
350 026 102	dual circuit	EG	3xM22x1.5/1xM16x1.5	0.0 adjustable	c/w	w/o	10.0	universal version
350 027 002	dual circuit	EG	4xM22x1.5	0.0 adjustable	w/o	empty @ 2.0...2.5 bar, 1/2 @ 4.0...4.5 bar, fully laden @ reservoir pressure	10.0	(351008001+352011102)
350 027 202	dual circuit	StVZO	3xM22x1.5/1xM16x1.5	0.0 adjustable	w/o	empty @ 2.0...2.5 bar, 1/2 @ 4.0...4.5 bar, fully laden @ reservoir pressure	10.0	
350 028 001	dual circuit	Euro	4xM22x1.5	0.5	c/w	empty @ 2.0...2.5 bar, 1/2 @ 4.0...4.5 bar, fully laden @ reservoir pressure	10.0	(351008011+352012001+352011122)
350 028 101	dual circuit	StVZO	4xM22x1.5	w/o	w/o	c/w	10.0	
351 001 141	single/dual circuit	StVZO/EG	4xM22x1.5	w/o	c/w	w/o	5.5/8.0	universal version
351 001 611	single/dual circuit	StVZO/EG	4xM22x1.5	w/o	w/o	w/o	5.5/8.0	universal version
351 006 021	single circuit	StVZO	4xM22x1.5	w/o	w/o	w/o	8.0	universal version
351 008 022	dual circuit	EG	4xM22x1.5	0.0 adjustable	w/o	w/o	10.0	universal version



350 001 101

350 019 001

350 020 201

350 026 002

350 026 003

350 026 102

350 027 002

350 027 202

350 028 001

350 028 101

351 001 141

351 001 611

351 006 021

351 008 022

AIR BRAKE

part number	no. of circuits	type	delivery ports	predominance (bar)	auto. release valve		light laden valve	max. operating pressure (bar)	note
351 008 023	dual circuit	EG	3xM22x1.5/1xM16x1.5	0.2 adjustable	w/o	w/o		10.0	universal version
351 008 024	dual circuit	EG	3xM22x1.5/1xM16x1.5	0.3 adjustable	w/o	w/o		10.0	universal version
351 008 111	dual circuit	EG	3xM22x1.5/1xM16x1.5	0.5 adjustable	w/o	w/o		10.0	universal version
351 008 122	dual circuit	Euro	3xM22x1.5/1xM16x1.5	0.0 adjustable	w/o	w/o		10.0	universal version
351 008 124	dual circuit	Euro	3xM22x1.5/1xM16x1.5	0.3 adjustable	w/o	w/o		10.0	universal version
351 009 021	dual circuit	EG	4xM22x1.5	w/o	w/o	w/o		10.0	universal version
351 009 121	dual circuit	EG	3xM22x1.5/1xM16x1.5	w/o	w/o	w/o		10.0	universal version
351 022 001	dual circuit	EG	4xM16x1.5, 2xM22x1.5	0.2 adjustable	w/o	w/o		10.0	universal version
351 033 001	dual circuit	EG	4xM16x1.5, 2xM22x1.5	w/o	w/o	w/o		10.0	for EBS EB+
N4301AA	single circuit	USA	4x 1/4-18 NPTF	w/o	w/o	w/o		9.0	
N4301AE	single circuit	USA	4x 3/8-18 NPTF	w/o	w/o	w/o		9.0	

AIR BRAKE



351 008 024



351 008 124



351 009 021



351 009 121



351 022 001



351 033 001



N4301AE

The Electronic Proportioning Valve "EPV" is an integration of a Relay Emergency Valve and an electronic load sensing function. Thus, a separate Pneumatic Load Sensing Valve is not required. Features include:

- Cost effective alternative to full EBS
- Integrated ECU, sensors and solenoids
- Integration of lift axle control (up to 2 axles)
- Integrated timing relay function for traction support
- Easier setting procedure (PC)
- Permanent ISO 7638 service
- Failure mode = return to 1:1 pressure supply

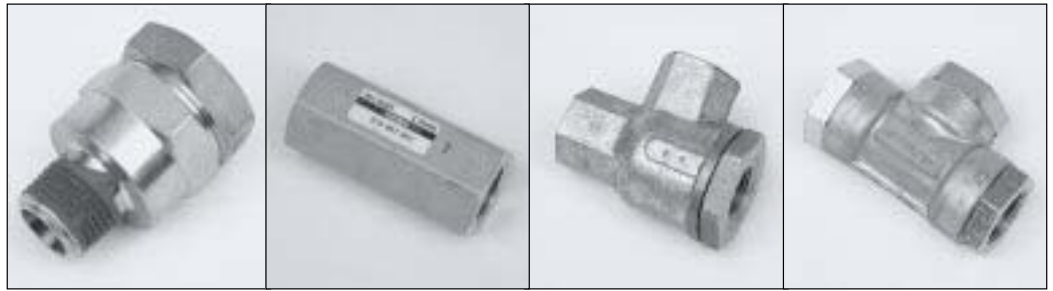


part number	comment	predominance	EPV cable (m)	test point
351 032 031	valve only	0.0-0.5 (set @ 0.0)	w/o	w/o
380 351 007	kit inc. 351032021	w/o predominance	1.5	c/w

AIR BRAKE

Single Check Valves (also known as Non-Return Valves or One Way Valves) allow air to flow only in one direction. A typical installation is an air tank inlet.

Double Check Valves (also known as Anti-Compound Valves) allow an actuator or an air line circuit to be charged from two independent sources; the source not being used is isolated by the internal shuttle or seal.



single

single

double

double

part number	type	version	mounting point	port 1(1)	port 12	port 2	port 22	note	max. operating pressure (bar)
003 839 109	Double Check Valve	piston	c/w	M22x1.5	M22x1.5	M22x1.5	-		10
205 001 001	Single Check Valve	Seal Disc	w/o	1/2" NPTF	-	1/2" NPTF male	-		10
205 001 011	Single Check Valve	Seal Disc	w/o	3/8" NPTF	-	3/8" NPTF male	-		10
205 004 001	Double Check Valve	ball	w/o	M16x1.5	M16x1.5	M16x1.5	-		8.25
314 001 001	Single Check Valve	shuttle piston	w/o	M22x1.5	-	M22x1.5	-		10
333 001 101	Double Check Valve	shuttle piston	c/w	M22x1.5	M22x1.5	M22x1.5	-		10
333 004 001	Double Check Valve	shuttle piston	w/o	M22x1.5	M22x1.5	M22x1.5	-		10
333 007 001	Double Check Valve	shuttle piston	w/o	M16x1.5	M16x1.5	M22x1.5	-		10
905 54 078	Low Pressure Check Valve	shuttle piston	w/o	1/8" NPT male	-	1/8" NPT female	-		8
KN23000	Single Check Valve	shuttle piston	w/o	1/2" male	-	1/2" female	-	USA	10
KN23080	Single Check Valve	shuttle piston	w/o	1/4" female	-	1/4" female	-	USA	10
KN25100	Double Check Valve	shuttle piston	w/o	3/8" FPT	1/2" MPT	3/8" FPT	3/8" FPT	USA	10
N20966G	Double Check Valve	shuttle piston	w/o	3/8" NPTF	1/2" NPTF male	3/8" NPTF	3/8" NPTF	USA	10

AIR BRAKE



205 001 001



205 001 011



205 004 001



314 001 001



333 001 101



333 004 001



333 007 001



KN23000



KN25100



## AIR BRAKE

Quick Release Valves (QRV) have a high flow rate characteristic, allowing downstream air to be rapidly exhausted to atmosphere. They are most commonly used in conjunction with Spring Brake Chambers. When the parking portion of the Spring Brake is applied, the air released from the chamber holding off the spring, exhausts through the QRV.



2 or 4 port parallel

2 port opposite

single delivery port

c/w Double Check Valve

part number	type	port 1	port 2	port 3	mounting point	max. operating pressure (bar)	note	constitutes
350 036 001	4 port parallel	2x M16x1.5	4x M16x1.5	w/o thread	c/w	10.0	c/w double check valve	(356022001+333007001)
350 036 011	4 port parallel	2x M16x1.5	4x M16x1.5	M22x1.5	c/w	10.0	c/w double check valve	(356022031+337007001)
350 037 001	2 port parallel	2x M16x1.5	2x M16x1.5	w/o thread	c/w	10.0	c/w double check valve	(356023001+333007001)
350 037 011	2 port parallel	2x M16x1.5	2x M16x1.5	M22x1.5	c/w	10.0	c/w double check valve	(356023031+333007001)
356 001 001	1 port delivery	M22x1.5	1x M22x1.5	M22x1.5	w/o	7.35		
356 001 011	1 port delivery	M22x1.5	1x M22x1.5	M22x1.5	w/o	7.35	c/w reinforced diaphragm	
356 006 011	2 port opposite	M22x1.5	2x M22x1.5	M22x1.5	c/w	8.0		
356 012 061	2 port opposite	M22x1.5	2x M16x1.5	M16x1.5	c/w	8.0		
356 013 011	4 port crossed	M16x1.5	4x M16x1.5	M16x1.5	c/w	8.0		
356 022 001	4 port parallel	M22x1.5	4x M16x1.5	w/o thread	c/w	10.5		
356 022 011	4 port parallel	M22x1.5	4x M16x1.5	M22x1.5	c/w	10.5		
356 022 021	4 port parallel	1/2" NPTF	4x 1/4" NPTF	w/o thread	c/w	10.5		
356 022 031	4 port parallel	M22x1.5	4x M16x1.5	M22x1.5	c/w	10.5	c/w protected exhaust	
356 023 001	2 port parallel	M22x1.5	2x M16x1.5	w/o thread	c/w	10.5		
356 023 011	2 port parallel	M22x1.5	2x M16x1.5	M22x1.5	c/w	10.5		
356 023 021	2 port parallel	1/2" NPTF	2x 1/4" NPTF	w/o thread	c/w	10.5		
356 023 031	2 port parallel	M22x1.5	2x M16x1.5	M22x1.5	c/w	10.5	c/w protected exhaust	

AIR BRAKE



350 036 001/011



350 037 011



356 001 001/011



356 006 011



356 012 061



356 013 011



356 022 \*\*\*/023 \*\*\*

**AIR BRAKE**

Connected with an electrical switch, this self-relieving two position Solenoid Valve, supplies pilot pressure to dump valves, pilot valves, or other basic accessories.



part number	open or closed	ports	voltage
900 540 74	normally closed	1/4" NPT	12V
900 540 75	normally open	1/4" NPT	12V
900 546 10	normally closed	1/4" NPT	24V

AIR BRAKE



900 540 75



900 546 10

## AIR BRAKE

Air operated pressure switches activate electrical devices in air brake systems. They are the electrical control units to operate electrical devices such as warning signals, visual and audible signals, solenoid valves, etc...

A Stop Light Switch, incorporated in the footbrake circuit, completes an electrical circuit to illuminate the vehicle's stoplights as the brakes are applied.



spade terminals/ male port      screw terminals/ female port      Low Pressure Switch

part number	type	port	cut-in (bar)	cut-out (bar)	terminals	note
303 002 001	Stoplight Switch	1/4" NPTF male	-	-	-	operating pressure (bar): 0.2-0.34
361 006 102	Pressure Switch	M12x1.5 male	-	0.7	Screw	
361 006 201	Pressure Switch	M12x1.5 male	0.5	-	spade	
361 006 302	Pressure Switch	M12x1.5 male	-	5.5	spade	
361 006 305	Pressure Switch	M12x1.5 male	-	4.5	spade	
361 006 306	Pressure Switch	M12x1.5 male	-	2.5	spade	
361 007 001	Pressure Switch	M12x1.5	0.5	-	Screw	
361 007 103	Pressure Switch	M12x1.5	-	3.0	Screw	
361 007 104	Pressure Switch	M12x1.5	-	5.0	Screw	
361 007 201	Pressure Switch	M12x1.5	0.5	-	spade	
361 007 301	Pressure Switch	M12x1.5	-	4.5	spade	
361 007 302	Pressure Switch	M12x1.5	-	5.0	spade	
361 007 305	Pressure Switch	M12x1.5	-	5.5	spade	
40135	Low Pressure Switch	1/8" NPTF male	4.8±0.3 & below	-	2x #10-32 male studs	
900 540 88	Rotational Air Control Switch	1/8" NPT	-	-	-	manually operated

AIR BRAKE



361 006 102



361 006 201/302/305/306



361 007 001/104



361 007 103



361 007 201/302/305



361 007 301



40135

**AIR BRAKE**

Load Sensing Valves are used for self-operated proportioning of the air pressure delivered to the brake chambers, according to the load situation.

Control is exercised by load dependent variations either in the deflection on the suspension springs (mechanical control) or of the pressure in the air suspension bellows (pneumatic control).

The Combined LSV/REV Valve is a single unit comprising a Load Sensing Valve and a Relay Emergency Valve.



pneumatic

mechanical

combined LSV/REV

part number	type	automatic control	lever length (mm)	mount height (mm)	shock absorber	spring assembly	data plate	note	max. operating pressure (bar)
351 012 001	Combined LSV/REV	mechanical	25-90	140-1045	w/o	c/w	c/w		10
351 014 001	Combined LSV/REV	pneumatic	-	-	-	w/o	c/w	universal version; adjustable but unset	10
601 002 001	Load Sensing Valve	mechanical	90-176	140-1045	c/w	c/w	c/w		10
601 002 021	Load Sensing Valve	mechanical	25-50	140-1045	w/o	c/w	c/w		10
601 013 001	Load Sensing Valve	mechanical	50-130	120-1025	w/o	w/o	c/w	c/w special data plate	10
601 013 011	Load Sensing Valve	mechanical	50-130	120-1025	w/o	c/w	c/w		10
602 005 001	Load Sensing Valve	pneumatic	-	-	-	w/o	c/w	universal version; adjustable but unset	10
613 005 001	Variable Load Sensing Valve	mechanical	-	-	-	-	-	c/w linkage	10

AIR BRAKE



351 012 001



351 014 001



601 002 001



601 002 021



601 013 001



601 013 011



602 005 001



613 005 001

Also known as Manual Light Laden Valve.

Manually operated Variable Load Valves can be used to vary the braking pressure of the trailer in relation to load.



part number	positions	@ empty (bar)	@ 1/4 (bar)	@ 1/2 (bar)	@ 3/4 (bar)	@ full (bar)	release position	ports	setting range empty (bar)	setting range 1/4 (bar)	setting range 1/2 (bar)	max. operating pressure (bar)
352 011 101	4	1.5/1.9	-	3.0/3.5	-	tank pressure	c/w	M22x1.5	1.0/2.0	-	3.0/4.5	5.3
352 011 102	4	2.0/2.5	-	4.0/4.5	-	tank pressure	c/w	M22x1.5	1.3/2.5	-	3.0/4.5	7.3
352 011 121	3	1.5/1.9	-	3.0/3.5	-	tank pressure	w/o	M22x1.5	1.0/2.0	-	3.0/4.5	5.3
352 011 122	3	2.0/2.5	-	4.0/4.5	-	tank pressure	w/o	M22x1.5	1.3/2.5	-	3.0/4.5	7.3
352 011 141	5	0.8/1.2	1.2/2.2	3.2/4.0	4.0/4.8	tank pressure	w/o	M22x1.5	0.5/1.2	0.8/2.2	-	7.3
352 011 171	5	1.0/1.3	2.0/2.3	3.0/3.5	4.0/4.5	tank pressure	w/o	M22x1.5	0.8/2.0	1.2/3.0	-	7.3
352 039 001	2	3.3	-	-	-	tank pressure	w/o	M22x1.5	-	-	-	10.0

AIR BRAKE



352 011 101



352 011 102



352 011 122



352 011 141



352 011 171

**AIR BRAKE**

The Regulating Valve serves to adjust the braking pressure in proportion to the dynamic load transfer, in the event of partial brake applications, and to ensure rapid exhaust of the brake chambers. At full braking the system will receive full pressure.



part number	pressure setting (bar)	setting range (bar)	opening to end pressure (bar)	ports	quick release valve	mounting point	test point	max. operating pressure (bar)
356 005 101	3.0	0-4.0	-	M22x1.5	w/o	w/o	w/o	8.0
356 005 102	4.0	0-4.0	-	M22x1.5	w/o	w/o	w/o	8.0
356 005 103	2.5	0-4.0	-	M22x1.5	w/o	w/o	w/o	8.0
356 005 104	3.5	0-4.0	-	M22x1.5	w/o	w/o	w/o	8.0
356 009 011	2.0	0.0-5.5	0.5	M22x1.5	c/w	c/w	w/o	10.0
356 009 012	1.3	0.0-5.5	0.3	M22x1.5	c/w	c/w	w/o	10.0
356 010 011	3.5	0.0-5.5	0.8	M22x1.5	c/w	c/w	VG8 (DIN 74326-B)	8.0
356 010 031	3.5	0.0-5.5	0.8	M22x1.5	c/w	c/w	M16x1.5 (ISO 3583)	8.0
900 540 82	unset	0-8.28	-	1/4" NPT	w/o	c/w	w/o	8.0

AIR BRAKE



356 005 \*\*\*



356 009 011



356 010 011



356 010 031



900 540 82

## AIR BRAKE

Hydraulically operated Clutch Servos give air pressure assistance to reduce the effort required to disengage the clutch.



part number	displacement volume (cm <sup>3</sup> )	hydr. medium	port 3	length (mm)	weight (kg)	op. press. pneu. (bar)	op. press. hydr. (bar)
321 010 101	12.5	brake fluid DOT4+ or DOT4	w/o	275	3.6	8.5	140
321 015 001	16.7	brake fluid DOT4+ or DOT4	snorkel	275	3.6	8.5	140
321 019 001	17.8	brake fluid DOT4+ or super-DOT4	flap valve	235	1.9	10.0	140
321 020 001	16.7	brake fluid DOT4+ or DOT4	snorkel	231	1.9	10.0	140
321 023 001	17.8	brake fluid DOT4+ or super-DOT4	Boot	262	1.9	10.0	140
321 024 001	18.8	brake fluid DOT4+ or super-DOT4	Boot	234	1.9	10.0	140
337 002 001	-	brake fluid DOT4 or super-DOT4 or SAE J 1703	-	-	2.7	-	40

AIR BRAKE



321 010 101



321 015 001



321 019 001



321 020 001

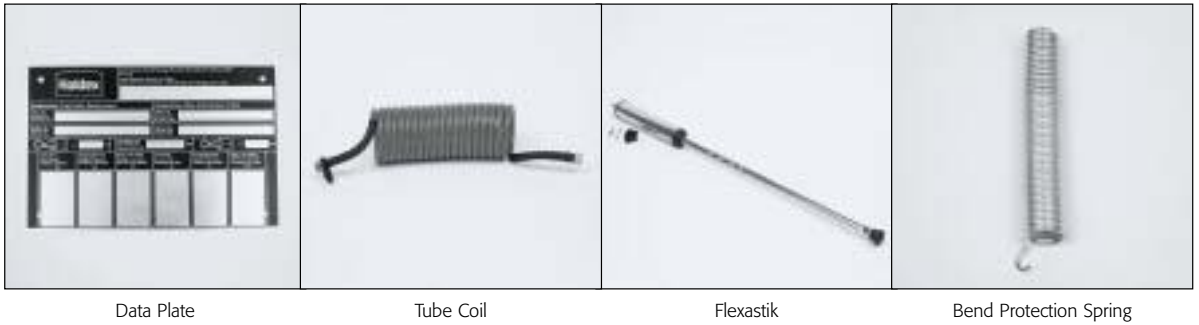


321 023 001



337 002 001

AIR BRAKE



part number	description
013 0503 090	Tube Clamp; for 3/8" tube; 17/64" mounting hole
013 0504 090	Tube Clamp; for 1/2" tube; 17/64" mounting hole
022 018 309	Bend Protection Spring; for air hoses directly connected to couplings; (334054.../ 055...)
025 0501 090	Identification Tag; for airline; yellow; 'SERVICE'
025 0503 090	Identification Tag; for airline; blue; 'AUXILIARY'
028 002 609	Identification Tag; for palm coupling; red; 'EMERGENCY'
028 003 009	Identification Tag; for palm coupling; yellow; 'BREMSE'
028 003 109	Identification Tag; for palm coupling; yellow; 'SERVICE'
028 021 609	Data Plate; for Mechanical Load Sensing Valve; (D/GB/F)
028 027 909	Data Plate; for Mechanical Load Sensing Valve; (D/GB/F)
028 028 009	Data Plate; for Pneumatic Load Sensing Valve; (D/GB/F)
028 037 909	Data Plate; for Pneumatic Load Sensing Valve; (D/GB/PL)
028 038 309	Data Plate; for Combined Park & Shunt Valve (352044001/ 045001); general instructions; pictorial
028 040 509	Data Plate; for Pneumatic Load Sensing Valve; (K/CZ/RU/GB)
028 042 309	Instruction Label; for EPV
028 044 309	Label; for Trailer Control Module
033 001 409	Armoured Hose Connection; M22/M22x1.5; length: 500mm; hi-temperature
033 001 509	Armoured Hose Connection; M22/M22x1.5; length: 650mm; hi-temperature
033 016 009	Suzie (air supply); yellow; 4.0 m useable length
033 016 509	Suzie (air supply); red; 4.0 m useable length
043 0533 090	Nipple; small; for frame; (11315)
11547	Hose Clamp; for Flexastik N30200AE; pack of 10
380 073 490	Air Brake Kit; for 2 axle semi-trailer
850 000 001	Air Brake Kit
940 000 030	Air Brake Kit; type HW 80
N30200AE	Flexastik; 40"; c/w hose clamp



AIR BRAKE



part number	description
N30200AG	Flexastik; 50"; c/w hose clamp
RAUMOTIVE JAUNE	Suzie (air supply); yellow; 4.0 m useable length; -40...+60 degrees
RAUMOTIVE NOIR	Suzie (air supply); black; 4.0 m useable length; -40...+60 degrees
RAUMOTIVE ROUGE	Suzie (air supply); red; 4.0 m useable length; -40...+60 degrees
SPIJAUNE	Suzie (air supply); yellow; 4.0 m useable length
SPINOIR	Suzie (air supply); black; 4.0 m useable length; male end
SPINOIRRV1	Suzie (air supply); black; 4.0 m useable length; Renault
SPIROUGE	Suzie (air supply); red; 4.0 m useable length

AIR BRAKE



N30200AG



RAUMOTIVE JAUNE



RAUMOTIVE NOIR



RAUMOTIVE ROUGE



SPIJAUNE

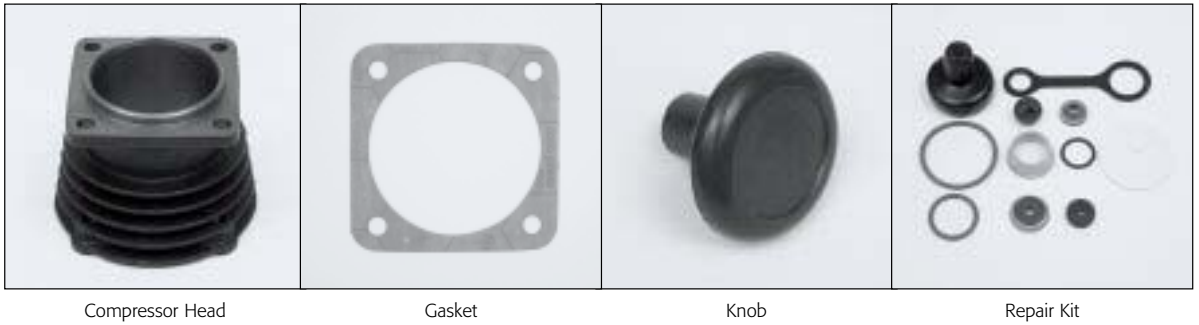


SPINOIR



SPINOIRRV1

### AIR BRAKE



Compressor Head

Gasket

Knob

Repair Kit

part number	description
002 0526 090	Knob; for Park Valve; red; square; c/w UK label ("pull to park")
002 0527 090	Knob; for Shunt Valve; blue; round; c/w UK label ("push to shunt")
003 005 209	Valve Poppet; for Service Brake Valve (320003103/ ..603/ ..114 & 560002303)
003 005 919	Valve Poppet; for Trailer Brake Control Valve (329007001)
003 009 309	Cylinder Head; for Compressor; M26x1.5
003 038 009	Cable Assembly; for Load Sensing Valve (mechanical); c/w cable, cable clamp & spring; 135 mm spring
003 038 609	Cable Assembly; for Load Sensing Valve (mechanical); c/w cable, cable clamp & spring; 120 mm spring
003 416 119	Con Rod; for Compressor
003 480 209	Spring; for Load Sensing Valve (mechanical)
003 485 509	Purge Valve; for Hydrair Clutch Servo (321027001)
003 500 409	Lever; for Trailer Control Valve (329020241/ 251/ 261/ 271/ 291/ 301/ 311/ 321/ 331/ 341/ 401/ 421)
003 508 909	Valve Poppet; for Service Brake Valve
003 535 309	Cable Clamp; for Load Sensing Valve (mechanical)
011 003 609	Cylinder Head; for Compressor
011 009 319	Pedal; for Service Brake Valve (320003103)
011 013 809	Housing; for Service Brake Valve (320003103)
011 100 009	Cover; for Service Brake Valve (320003103)
011 102 409	Handle; for Relay Emergency Valve (350026003)
011 128 209	Pedal; for Service Brake Valve (560002133/ ..303)
012 010 409	Compressor Head; for Compressor; single piston
012 038 919	Compressor Head; for Compressor
014 000 809	Spring Rest; for Load Sensing Valve (mechanical)
014 009 209	Brace Plate; for Trailer Control Valve
014 062 109	Thrust Piece; for Variable Load Valve
014 062 309	Base Casing; for Load Sensing Valve (351012001/ 601002../ 601013..)
014 100 209	Locking Plate; for Manual Light Laden Valve (various)



002 0526 090

002 0527 090

003 005 209

003 005 919

003 038 009

003 038 609

003 480 209

003 485 509

003 508 909

003 535 309

012 010 409

014 000 809

014 009 209

014 062 109

014 062 309

014 100 209

## AIR BRAKE

part number	description
014 101 509	Base Casing; for Load Sensing/ REV Combined (351014001/ 602005..)
014 111 109	Thrust Piece; for Load Sensing/ REV Combined (351012001/ 351014001)
014 718 309	Security Box; for Combined Park & Shunt Valve; prevents unauthorised use
015 052 609	Lever; for Load Sensing Valve (351012001/ 601002021/ 601013001/ 601016001)
016 015 119	Rod; for Service Brake Valve (320003103)
016 167 409	Valve Seat; for Relay Valve
016 186 509	Valve Seat; for Variable Load Valve (601002021/ 601013001/ 601016001/ 602005001/ 602006001)
016 188 609	Handle; for Hand Brake Valve (328011011)
016 310 709	Filter Body; for 3/2-Way Valve (360009141)
017 008 009	Plug; for Compressor
021 016 309	Compression Spring; for Variable Load Valve (601002021/ 601013001/ 601016001/ 602005001/ 602006001)
021 064 509	Spring; for Load Sensing Valve (602005001)
022 006 109	Spring; for Trailer Brake Control Valve (329007001)
022 014 709	Spring; for Load Sensing Valve (601002001); for lever
022 014 809	Spring; for Load Sensing Valve (601002011); for lever
022 018 909	Spring; for Load Sensing Valve (601013...); for lever
022 0501 090	Seal; for Palm Coupling; recessed type (USA)
022 0508 090	Dust Cap; for Pressure Switch (303001001/ 30340135); ø1.76"
023 001 919	Gasket; for Compressor
023 002 209	Gasket; for Compressor
023 002 409	Gasket; for Compressor
023 003 909	Gasket; for Compressor
023 004 009	Gasket; for Compressor
023 004 209	Gasket; for Compressor
023 004 609	Gasket; for Compressor
023 004 909	Gasket; for Compressor
023 005 209	Gasket; for Compressor
023 011 209	Gasket; for Compressor
023 011 409	Gasket; for Compressor (301153..)



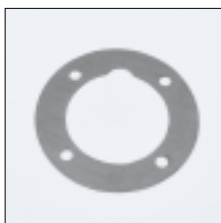
AIR BRAKE

**AIR BRAKE**

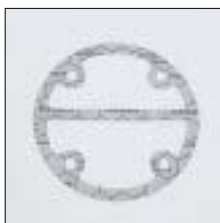
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023 011 809	Gasket; for Compressor
023 011 909	Gasket; for Compressor (301153..)
023 012 009	Gasket; for Compressor (301153..)
023 014 109	Gasket; for Compressor
023 015 809	Gasket; for Compressor
024 000 109	Nut Ring; for Service Brake Valve (320003..)
024 002 109	O-ring; for Relay Valve
024 005 609	Nut Ring; for piston (003598009)
024 006 109	O-ring; for Compressor
024 006 709	O-ring; for Relay Emergency Valve (351008122/ 380351001)
024 006 909	O-ring; for Trailer Control Valve (355094001)
024 007 509	O-ring; for Trailer Control Valve (various)
024 007 909	O-ring; for Variable Load Valve (various)
024 008 509	O-ring; for Relay Emergency Valve (350026003)
024 008 809	O-ring; for Trailer Control Valve (321020001/ 329020331/ 355094001/ 554020001)
024 010 009	O-ring; for Unloader Valve (329020291/ 329020301)
024 010 309	O-ring; for Compressor
024 010 709	O-ring; for 3/2-Way Valve (554005001)
024 014 509	O-ring; for Trailer Control Valve
024 015 009	Nut Ring; for Regulating Valve (613005001/ 613005021)
024 017 209	O-ring; for Compressor
024 018 709	O-ring; for Trailer Control Valve (329020201-329020421)
024 020 509	O-ring; for Trailer Control Valve (329020261-329020401)
024 020 909	O-ring; for Compressor
024 023 309	O-ring; for Trailer Control Valve
024 023 609	O-ring; for Compressor
024 024 709	O-ring; for Relay Emergency Valve
024 025 219	Square Seal; for Relay Emergency Valve (European)
024 030 109	O-ring; for Trailer Control Valve (329020201-329020421)
024 030 809	Nut Ring; for Relay Emergency Valve
024 032 309	O-ring; for Trailer Control Valve (329020201-329020421)
024 032 809	O-ring; for Relay Valve
024 033 509	O-ring; for Variable Load Valve (602006001); M12
024 038 209	O-ring; for Unloader Valve
024 038 309	O-ring; for Unloader Valve
024 047 409	Grooved Ring; for Trailer Control Valve (329020201-329020421)
025 001 209	Valve Disc; for 3-Way Pilot Valve
025 002 109	Washer; for Relay Emergency Valve (350027../ 350028..)
025 003 209	Valve Part; for Pressure Protection Valve (314110001)
025 006 709	Seal; for Trailer Control Valve (329007001)
025 013 109	Cup Seal; for Trailer Control Valve
025 014 109	Protection Cap; for Clutch Servo



023 011 809



023 011 909



023 012 009



023 015 809



024 015 009



024 047 409



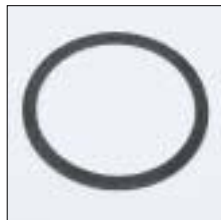
025 001 209



025 002 109



025 003 209



025 006 709



025 013 109



025 014 109

part number	description
025 014 209	Protecting Cover; for Regulating Valve
025 014 409	Diaphragm; for Unloader Valve (312002.../ 312003...)
025 021 309	Sealing Cap; for Load Sensing Valve
025 025 109	Diaphragm; for Pressure Protection Valve (514007011)
025 031 409	Protecting Cover; for Service Brake Valve
025 033 809	Valve Seat; for Unloader Valve
025 033 909	Diaphragm; for Unloader Valve
025 034 109	Dust Cap; for Pressure Switch (361006.../ 361007...)
025 034 409	Knotted Cup Seal; for Trailer Control Valve (329020201-329020421)
025 034 709	Protecting Cover; for Unloader Valve
025 034 809	Washer; for Trailer Control Valve (329020201-329020421)
025 034 909	Tab; for Unloader Valve
025 035 709	Cup Seal; for Trailer Control Valve (351008122/ 380351001)
025 045 509	Protection Cap; for Multi Circuit Protection Valve (314018001/ 314023001)
025 047 809	Protecting Cover; for Load Sensing Valve & Levelling Valve (352011.../ 612.....)
025 048 209	Seal; for Palm Coupling; compression type
025 050 009	Dust Cap; for Pressure Switch
025 052 309	Rubber Boot; for Shunt Valve (352018011)
026 000 509	Rotary Shaft Seal; for Compressor
026 000 709	Cup Seal; for Relay Valve
026 003 209	Cone Cup; for Relay Valve
026 003 409	Valve Disc; for Unloader Valve (312002.../ 312003.../ 312011.../ 312012...)
026 004 709	Cone Cup; for Relay Valve
026 005 319	Valve Poppet; for Trailer Control Valve (003005919/ 329007001)
026 006 509	Valve Seat; for Unloader Valve



AIR BRAKE

**AIR BRAKE**

part number	description
026 012 009	Valve Disc; for Unloader Valve
026 012 109	Valve Part; for Unloader Valve
026 012 909	Valve Body; for Relay Emergency Valve (351008122/ 380351001/ 554020001)
026 016 709	Gasket; for Combined LSV/REV (351014001)
027 002 409	Knob; for Release Valve (352005.../ 352006.../ 352007...); black; round
027 004 809	Blanking Plug; for Unloader Valve (312013.../ 312017.../ 312018.../ 312019.../ 312028.../ 312029.../ 312030...)
027 009 829	Piston Rod; for Relay Valve
027 010 109	Valve Part; for Relay Valve (355018011); upper section
027 010 209	Valve Part; for Relay Valve (355018011); lower section
027 014 209	Cam Segment; for Hand Brake Valve; left
027 018 009	Valve Body; for Trailer Control Valve (329020201-329020421)
027 018 010	Rotary Cap; for Compressor
027 022 209	Knob; for Combined Park & Shunt & REV Release Valve (352044.../ 352045.../ 350026002); black; round
027 023 309	Valve Seat; for Service Brake Valve (003508909)
027 042 109	Cover; for Relay Emergency Valve
027 047 009	Knob; for Park Valve; red; square; w/o label
027 047 109	Knob; for Shunt Valve; blue; round; w/o label
027 0502 090	Return Spring; for Relay Emergency Valve; for 'dead man' function
027 0510 090	Return Spring; for Shunt Valve; for 'dead man' function
027 056 509	Cover; for Relay Emergency Valve (351008122/ 380351001)
027 056 609	Adapter; for Service Brake Valve (32006...)
027 059 409	Knob; for Combined Park & Shunt Valve (352044.../ 352045...); red; round
028 029 419	Sticker; for Shunt Valve (352018...)
029 000 109	Cage filter; for Raise/Lower Valve (various)
029 000 409	Cage filter; for Relay Emergency Valve (various)
029 006 409	Filter; for Unloader Valve
031 000 109	Silencer; for Compressor; for exhaust; M12x1.5
031 000 209	Air Filter; for Compressor; for intake; M22x1.5
031 001 209	Air Filter; for Compressor; for intake; M18x1.5
039 001 909	Suction Valve; for Compressor

AIR BRAKE



## AIR BRAKE

part number	description
039 002 109	Outlet Valve; for Compressor
039 005 309	Reed Valve; for Compressor
039 005 509	Reed Valve; for Compressor
039 005 709	Reed Valve; for Compressor (301153...)
039 005 909	Piston; for Compressor
039 006 109	Piston; for Compressor; ø65mm
039 006 509	Reed Valve; for Compressor (301109003/ 301110028)
039 006 709	Piston; for Compressor (301109003/ 301110028)
042 021 209	Contact Bush; for electrical connection; F7
049 001 409	Gasket; for Load Sensing Valve (613005...); angled
049 004 009	Gasket; for Load Sensing Valve (601002...); angled
051 026 709	Screw; for Hand Brake Valve (328008...); oval head; M8x16; DIN 7985
053 002 209	Hex Nut; for various (321010101/ 329020201)
054 000 709	Washer; for Hand Brake Valve; aluminium
054 002 209	Washer; for brake intallation kits; metal
054 011 509	Disc; for Relay Emergency Valve (various)
056 000 709	Lock Washer; for Variable Load Valve (various)
056 003 309	Safety Clip; for Compressor
059 008 009	Piston Ring; for Compressor; 65x59.2x2.5 mm
059 008 109	Piston Ring; for Compressor; 65x59.2x5 mm
059 008 609	Piston Ring; for Compressor; 65x59.5x2.5 mm
059 009 009	Piston Ring; for Compressor; 50x45.5x2 mm
059 009 109	Piston Ring; for Compressor; 50x4 mm
059 018 309	Piston Ring; for Compressor; 90x82.2x2.5 mm
059 040 909	Con Rod Guide Ring; for Compressor; 20x15.1x5.6 mm
059 043 809	Piston Ring; for Compressor; 65x2.5
059 043 909	Piston Ring; for Compressor (039006109); 65x2.5
059 044 009	Piston Ring; for Compressor; 65x4
059 044 809	Con Rod Guide Ring; for Compressor; 35x5.5x2.5 mm



039 002 109



039 005 309



039 005 709



039 005 909



039 006 109



042 021 209



049 001 409



051 026 709



053 002 209



054 000 709



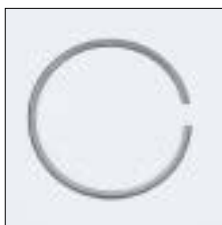
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054 011 509



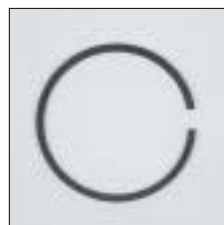
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059 008 009



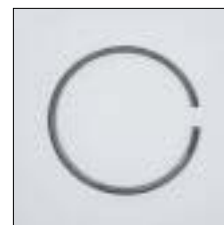
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059 008 609



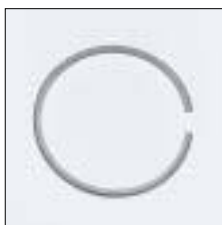
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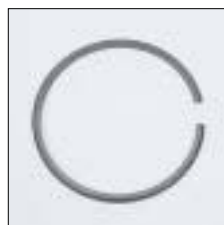
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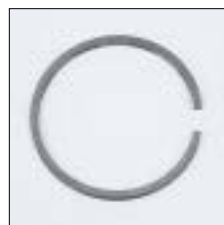
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059 043 909



059 044 009

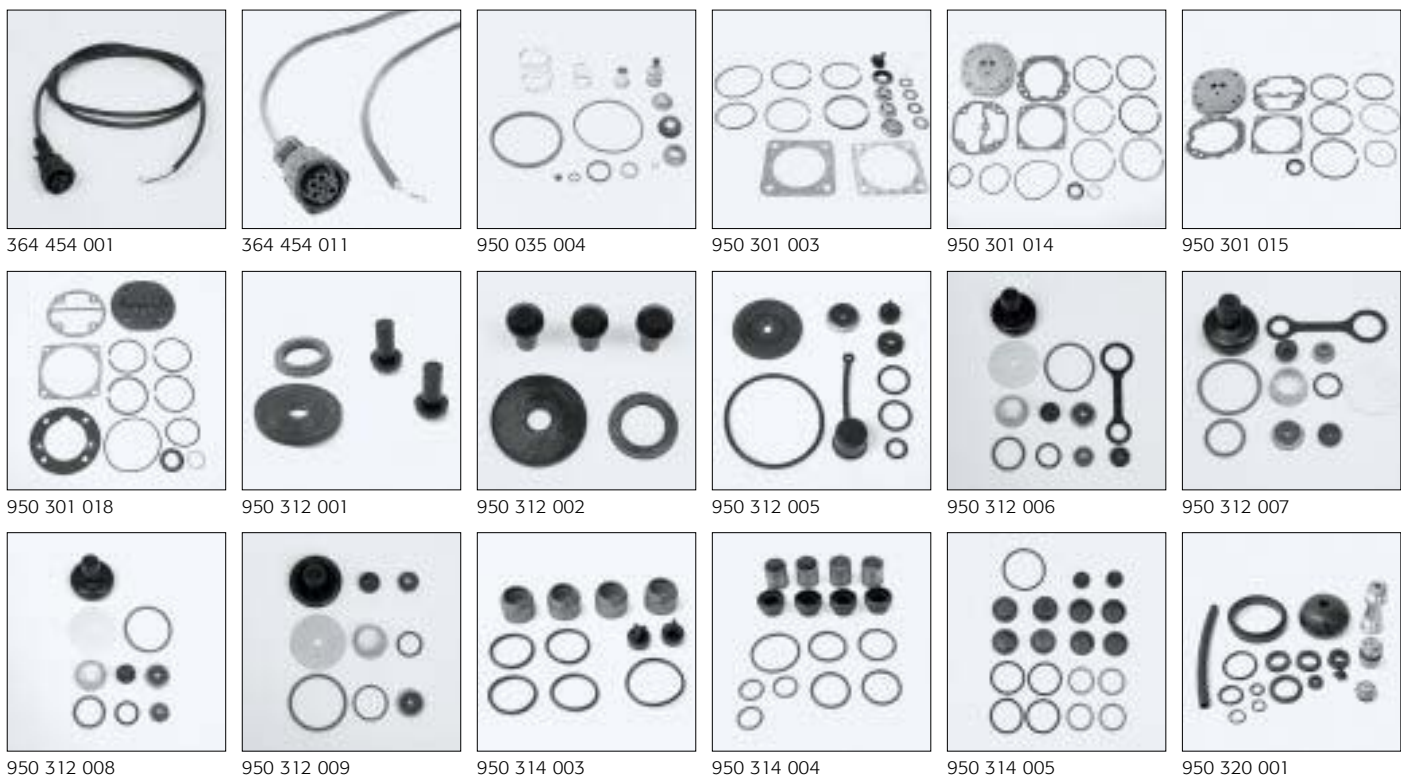
**AIR BRAKE**

part number	description
102428AA	Nut; for Compressor
200 019 001	Self-seal Valve; for C-Coupling (female); 1/2" NPTF; red
200 020 001	Self-seal Valve; for C-Coupling (male); 1/2" NPTF; yellow
200 020 011	Self-seal Valve; for C-Coupling (male); M22; yellow
260 167 09	Gasket; for Combined LSV/REV (351014001)
336 000 06	Cylinder Block; for Compressor; (400202AC)
336 000 07	Ball Bearing Ring; for Compressor
336 000 16	Crankcase; for Compressor; (400066E)
336 000 25	Bearing Cap Assembly; for Compressor; (102373)
336 000 33	Intake Manifold; for Compressor (EL1300/ EL1600); (101012A)
336 000 48	Bolt; for Compressor; for con rod; (102610)
336 000 49	Intake Manifold; for Compressor; (100999B)
336 000 51	Exhaust Manifold; for Compressor; (100691C)
336 002 36	Piston & Con Rod Assembly; for Compressor; (300511-BC)
336 002 44	End Cap Bearing; for Compressor; (200921N)
336 002 60	Gasket; for Compressor; for unloader; (102368BT)
336 002 61	Gasket; for Compressor (E172000); for cylinder head; (102368BK)
336 002 62	Gasket; for Compressor; for cylinder block; (102368BP)
336 002 63	Gasket; for Compressor; for base; (102368CD)
336 002 64	Gasket; for Compressor; for intake manifold; (102368BW)
336 002 65	Gasket; for Compressor; for exhaust manifold; (102368BZ)
336 002 67	Gasket; for Compressor (E172006); x6; for cover plate; (102368CG)
336 002 69	Cylinder Head; for Compressor; (N21048AB)
337 002 84	Castle Nut; for Compressor; 7/8" UNF; (02X5009)
339 000 54	Cylinder Tube; for Compressor; (101644)
351 011 011	3-way Manifold Kit; for Compressor
364 450 001	Cable & Connectors; for EPV Valve; to connect EPV to ILAS <sup>®</sup> -E; branched connector; PUR; 1.5 m cable
364 450 011	Cable & Connectors; for EPV Valve; to connect EPV to ILAS <sup>®</sup> -E; branched connector; PUR; 7.0 m cable





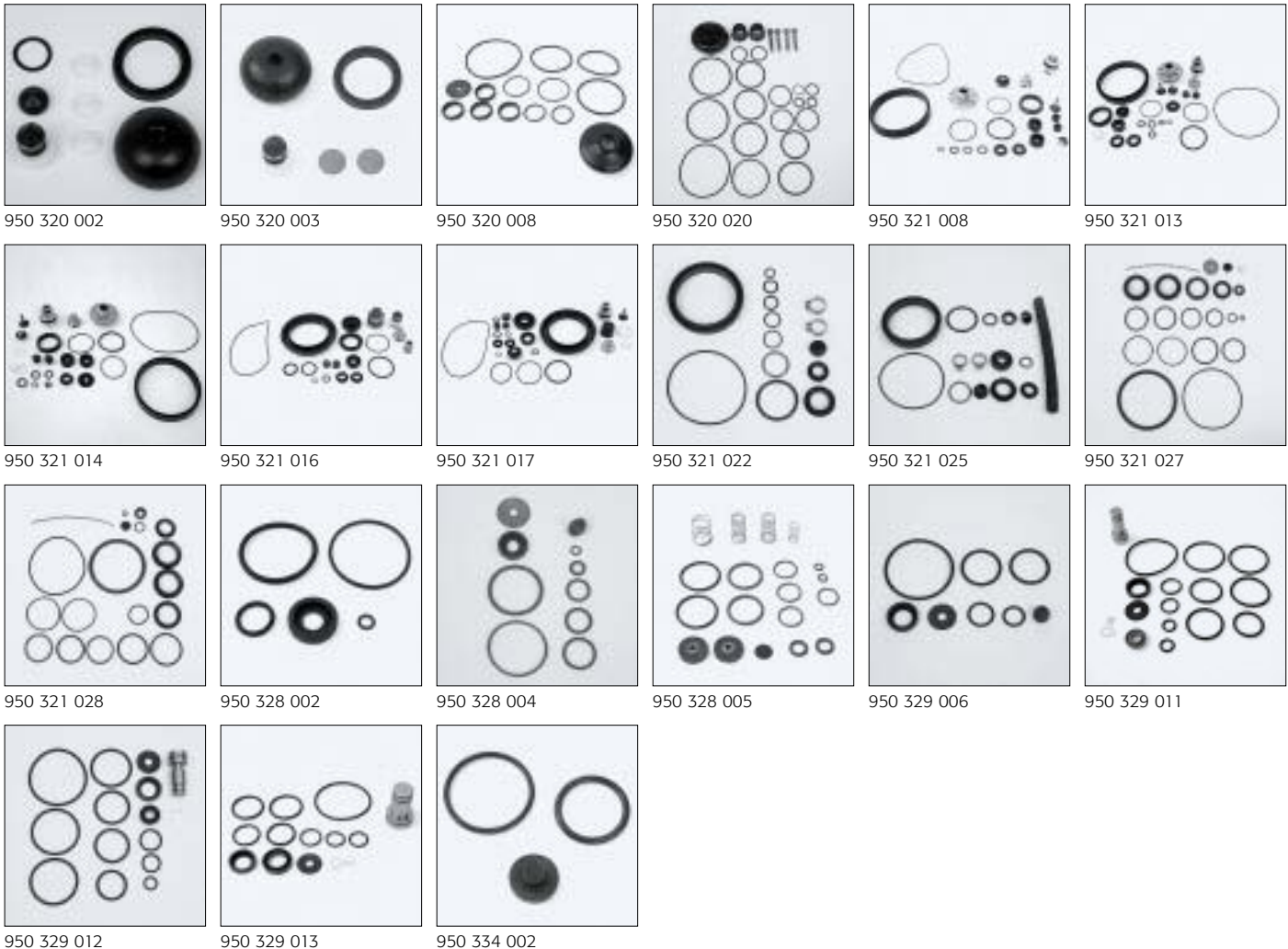
part number	description
364 452 001	Cable & Connectors; for EPV Valve; to connect EPV to PC; socket housing; 7/6 pole
364 453 001	Cable & Connectors; for EPV Valve; to connect EPV to PC; D-sup socket; 9 pole
364 454 001	Cable & Connectors; for EPV Valve; to connect EPV to ILAS-E; single connector; PUR; 1.5 m cable
364 454 011	Cable & Connectors; for EPV Valve; to connect EPV to ILAS-E; single connector; PUR; 7.0 m cable
481 002 00	Air Filter; for Pressure Protection Valve (905541..); SRK143
900 540 83	Handle; for Regulating Valve (90054082)
900 541 23	Bracket; for Hand Control Valve (90054082)
900 542 11	Knob; for Switch (90054088); black; turn type; c/w pointer
950 035 004	Repair Kit; for Relay Emergency Valve (KN30100/ KN30200/ KN30300/ KN30400)
950 301 003	Repair Kit; for Compressor (301031..)
950 301 014	Repair Kit; for Compressor (301052..)
950 301 015	Repair Kit; for Compressor (301053..)
950 301 018	Repair Kit; for Compressor (301105..)
950 301 030	Repair Kit; for Compressor
950 301 031	Repair Kit; for Compressor (301109003/ 301110028)
950 312 001	Repair Kit; for Unloader Valve (312001001)
950 312 002	Repair Kit; for Unloader Valve (312001041/ .091)
950 312 003	Repair Kit; for Unloader Valve (312002../ 312003..)
950 312 005	Repair Kit; for Unloader Valve (312009../ 312010..)
950 312 006	Repair Kit; for Unloader Valve (312013../ 312017../ 312020../ 312021../ 312513014)
950 312 007	Repair Kit; for Unloader Valve (312017..)
950 312 008	Repair Kit; for Unloader Valve (312015032)
950 312 009	Repair Kit; for Unloader Valve (312015132)
950 314 003	Repair Kit; for Multi Circuit Protection Valve (314018001)
950 314 004	Repair Kit; for Multi Circuit Protection Valve (314019../ 314023..)
950 314 005	Repair Kit; for Multi Circuit Protection Valve (314029001)
950 314 007	Repair Kit; for Multi Circuit Protection Valve (314065..-067../ 314096..)
950 314 009	Repair Kit; for Multi Circuit Protection Valve (314037001)
950 320 001	Repair Kit; for Service Brake Valve (320001001)



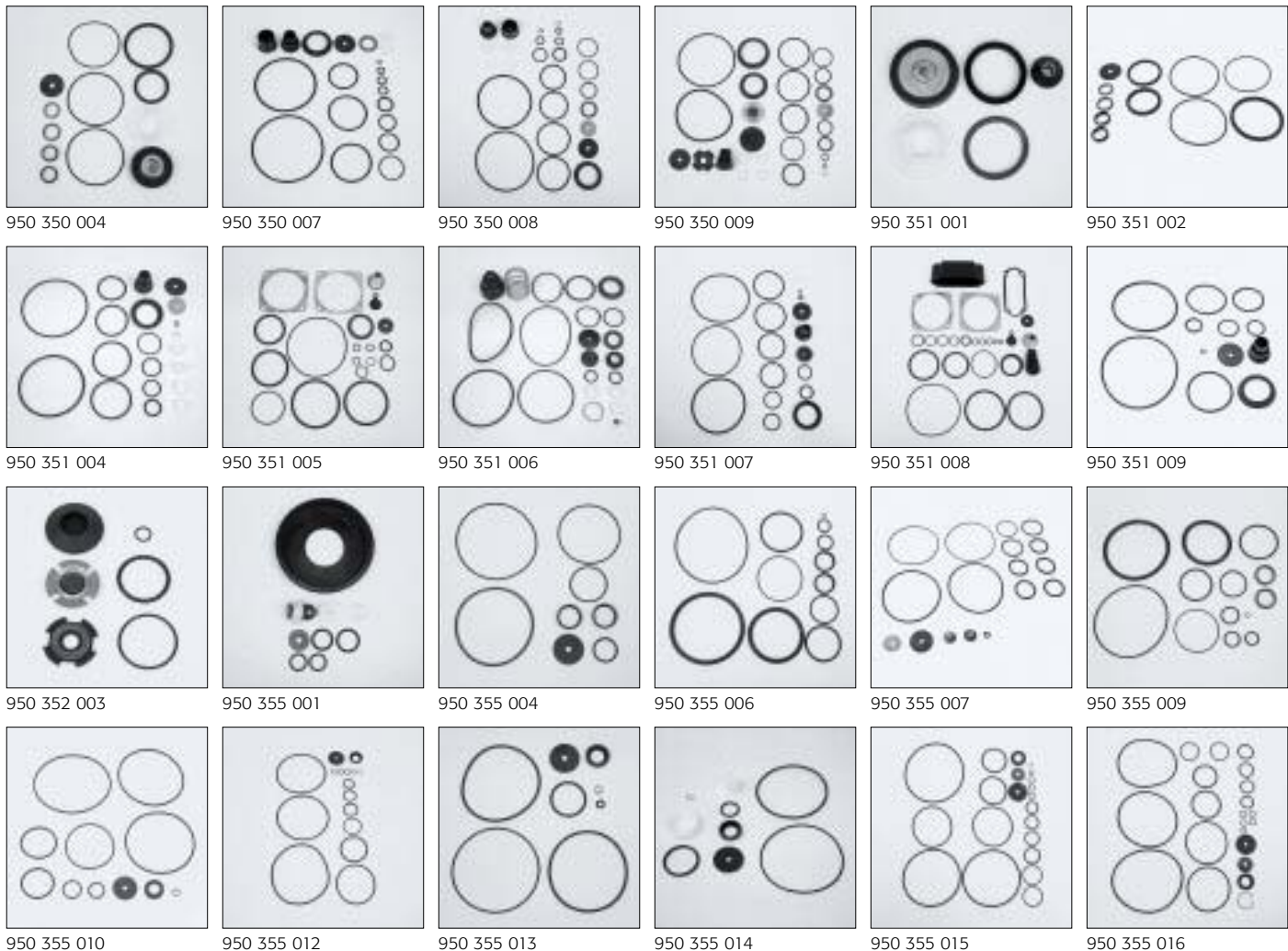
AIR BRAKE

**AIR BRAKE**

part number	description
950 320 002	Repair Kit; for Service Brake Valve (320003...)
950 320 003	Repair Kit; for Service Brake Valve (320004...)
950 320 008	Repair Kit; for Service Brake Valve (320009...)
950 320 010	Repair Kit; for Service Brake Valve (320015.../ 320034...)
950 320 012	Repair Kit; for Service Brake Valve (320018...)
950 320 013	Repair Kit; for Service Brake Valve (320020001)
950 320 014	Repair Kit; for Service Brake Valve (320021001)
950 320 020	Repair Kit; for Service Brake Valve (320060.../ 320062.../ 320063...)
950 321 008	Repair Kit; for Clutch Servo (321009041)
950 321 013	Repair Kit; for Clutch Servo (321009131/ ..161)
950 321 014	Repair Kit; for Clutch Servo (321009141)
950 321 016	Repair Kit; for Clutch Servo (321005001)
950 321 017	Repair Kit; for Clutch Servo (321007001)
950 321 021	Repair Kit; for Clutch Servo (321010001)
950 321 022	Repair Kit; for Clutch Servo (321011021)
950 321 023	Repair Kit; for Clutch Servo (321013001)
950 321 025	Repair Kit; for Clutch Servo (321015...)
950 321 027	Repair Kit; for Clutch Servo (321018.../ 321019...)
950 321 028	Repair Kit; for Clutch Servo (321020001)
950 321 029	Repair Kit; for Clutch Servo (321021001/ 321023001)
950 328 002	Repair Kit; for Hand Brake Valve (328011...)
950 328 004	Repair Kit; for Hand Brake Valve (328016...)
950 328 005	Repair Kit; for Hand Brake Valve (328024001)
950 329 006	Repair Kit; for Trailer Control Valve (329017011)
950 329 011	Repair Kit; for Trailer Control Valve (329020... brake fluid)
950 329 012	Repair Kit; for Trailer Control Valve (329020... mineral oil)
950 329 013	Repair Kit; for Trailer Control Valve (329020261/ ..401/ ..451/ ..452)
950 329 016	Repair Kit; for Trailer Control Valve (329020271)
950 334 002	Repair Kit; for Palm Coupling (334063/ 334064...)



part number	description
950 350 004	Repair Kit; for Relay Emergency Valve (351001...)
950 350 007	Repair Kit; for Relay Emergency Valve (350026011)
950 350 008	Repair Kit; for Relay Emergency Valve (350026001/ ..002)
950 350 009	Repair Kit; for Relay Emergency Valve (350027...)
950 351 001	Repair Kit; for Relay Emergency Valve (351006.../ 351019.../ 351020...)
950 351 002	Repair Kit; for Relay Emergency Valve (351004...)
950 351 004	Repair Kit; for Relay Emergency Valve (351008...)
950 351 005	Repair Kit; for Load Sensing/ REV Combined (351012001)
950 351 006	Repair Kit; for Load Sensing Valve (351015.../ 351018...)
950 351 007	Repair Kit; for Relay Emergency Valve (351022...)
950 351 008	Repair Kit; for Load Sensing/ REV Combined (351014...)
950 351 009	Repair Kit; for Relay Emergency Valve (351009...)
950 352 003	Repair Kit; for Variable Load Valve (352011...)
950 355 001	Repair Kit; for Relay Valve (355001001)
950 355 004	Repair Kit; for Relay Valve (355018...)
950 355 006	Repair Kit; for Relay Valve (355016...)
950 355 007	Repair Kit; for Relay Valve (355017001)
950 355 009	Repair Kit; for Relay Valve (355016241/ ..244)
950 355 010	Repair Kit; for Trailer Control Valve (355021...)
950 355 012	Repair Kit; for Trailer Control Valve (355026...)
950 355 013	Repair Kit; for Relay Valve (355024001)
950 355 014	Repair Kit; for Relay Valve (355023.../ 355028.../ 355029...)
950 355 015	Repair Kit; for Trailer Control Valve (355027...)
950 355 016	Repair Kit; for Trailer Control Valve (355064001)



AIR BRAKE

**AIR BRAKE**

part number	description
950 355 023	Repair Kit; for Relay Valve (355068001)
950 355 024	Repair Kit; for Trailer Control Valve (355045001)
950 355 026	Repair Kit; for Trailer Control Valve (355071.../ 355082...)
950 356 003	Repair Kit; for Quick Release Valve (356001...)
950 560 001	Repair Kit; for Service Brake Valve (560002...)
950 560 003	Repair Kit; for Regulating Valve (560012.../ 560014...)
950 601 004	Repair Kit; for Load Sensing Valve (mechanical 1987+)
950 602 002	Repair Kit; for Load Sensing Valve (602001...)
950 602 004	Repair Kit; for Load Sensing Valve (602002...)
950 602 005	Repair Kit; for Load Sensing Valve (602003...)
950 602 006	Repair Kit; for Load Sensing Valve (602002.../ 602003...)
950 602 008	Repair Kit; for Load Sensing Valve (pneumatic 1987+)
EQ2604	Piston Assembly; for Compressor (EL1300/ EL1600); c/w wrist pin & rings; standard size
EQ2606	Piston Assembly; for Compressor (EL1300/ EL1600); c/w wrist pin & rings; 0.020 over sized
EQ2614	Piston Ring Kit; for Compressor (EL1300/ EL1600); 1 set; standard size
EQ2616	Piston Ring Kit; for Compressor (EL1300/ EL1600); 1 set; 0.020 over sized
EQ2620	Con Rod & Bearing; for Compressor (EL1300/ EL1600); standard size
EQ2630	Bearing Kit; for Compressor (EL1300/ EL1600); 1 set; standard size; for con rod
EQ2631	Bearing Kit; for Compressor; 1 set; 0.010 under sized
EQ2632	Bearing Kit; for Compressor; 1 set; 0.020 under sized
KN17091X	Compressor Head; for Compressor (EL3200); water cooled (rear); remanufactured
KN17092X	Compressor Head; for Compressor (EL3200); water cooled (front); remanufactured
KN17501	Compressor Discharge Line Kit; for Compressor (top discharge); for easy retrofit of Bendix to Midland
KN31025	In-line Filter; for Pressure Protection Valve (KN31000/ KN31001/ KN31002/ KN31003/ KN31010/ KN31011); ports: 1/4" male to 1/4" female
KNT17090	Compressor Head; for Compressor (various EL13 & EL16)
MR3033	Repair Kit; for Compressor; for crankcase
MR3034	Piston & Con Rod Assembly; for Compressor; standard bore; 33600236 (300511-BC)
N10380B	Gasket; for Compressor; metal; for crankcase
N295NB	Crankshaft; for Compressor



AIR BRAKE

part number	description
N295SW	Crankshaft; for Compressor
RN10HK	Repair Kit; for Relay Valve (USA)
RN10HT	Repair Kit; for Relay Valve (N30096PA/ KN28300)
RN10JP	Repair Kit; for Service Brake Valve (N30099LA)
RN26GL	Repair Kit; for Compressor
RN26GY	Gasket & Seal Kit; for Compressor (EL1300/ EL1600/ EL3200); for Flange Mount Compressors; Detroit Diesel application
RN26HA	Gasket & Seal Kit; for Compressor (EL1300/ EL1600); for Flange Mount Compressors
RNT26	Repair Kit; for Compressor Head (EL1300/ EL1600)
RNT26A	Unloader Kit; for Compressor (EL1300/ EL1600/ EL3200)
SN144AY	Compressor Head; for Compressor (KN17091X/ .92X)
SN144F	Installation Kit; for Compressor (EL13080X/ .81X/ EL16080X)
SN144K	Installation Kit; for Compressor (EL13120/ EL16120)
SN144N	Installation Kit; for Compressor (various EL13 & EL16)
SN3072BV	Drive Gear Kit; for Compressor; to replace 320GB11A & 102533A; c/w drive hub & retaining washer
SN3711AD	Manifold Kit; for Compressor; intake; hose: 3/4"

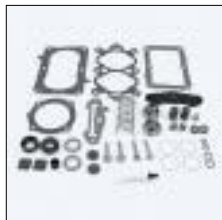
AIR BRAKE



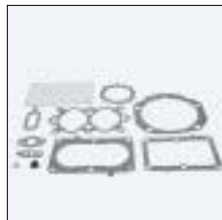
N295SW



RN10JP



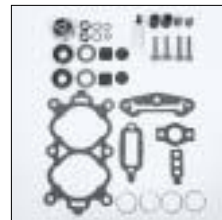
RN26GL



RN26GY



RN26HA



RNT26



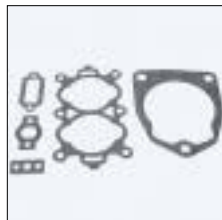
RNT26A



SN144F



SN144K



SN144N

**AIR BRAKE**



Air Pressure Gauge

Pressure Control Test Box

part number	description
009 408 909	Air Pressure Gauge, Single; for Pressure Control Tool Box; 0-16 bar; c/w special connection
037 002 309	Air Pressure Gauge, Single; 0-10 bar; 12V; ø52 mm; reinforced; w/o electrical connector
037 002 429	Air Pressure Gauge, Single; 0-16 bar; M16x150
903 054 241	Pressure Control Tool Box
903 101 001	Pressure Control Test Box; c/w pressure limiter, control tube, Adapter, T-fitting, gauges
903 351 001	End Of Line Test (EOLT); for EPV
904 004 001	Key Lever; for Palm Coupling (334030../ 031...); to unscrew or tighten to threaded ring 16060509
MA0107V16138908	Air Pressure Gauge, Single; 0-25 bar

AIR BRAKE



009 408 909



037 002 429



903 054 241



903 101 001



903 351 001



904 004 001

## ACTUATION

An air-actuated diaphragm Brake Chamber converts air pressure into linear motion and force, primarily for applying the wheel brake in a mechanical actuating system. A single diaphragm chamber applies the brakes when pressure is applied.

Diaphragm Brake Chambers can also be used as control cylinders for other operations.



part number	diaphragm	type	stroke (mm)	push rod (mm)	push rod thread	protection	yoke	central port	side port	screw plug	max. operating pressure (bar)	application	note
120 311 101	single diaphragm	9	57	186	M16x1.5	Boot	w/o	w/o	M16x1.5	w/o	8.0		
120 330 201	single diaphragm	16	80	186	M16x1.5	wiper	w/o	M16x1.5	M16x1.5	w/o	10.0		
120 331 101	single diaphragm	16	80	186	M16x1.5	Boot	w/o	M16x1.5	M16x1.5	c/w	10.0		
120 331 201	single diaphragm	16	80	186	M16x1.5	wiper	w/o	M16x1.5	M16x1.5	c/w	10.0		
120 331 201AC	single diaphragm	16	80	186	M16x1.5	wiper	c/w	M16x1.5	M16x1.5	c/w	10.0		
120 331 291	single diaphragm	16	80	186	M16x1.5	wiper	w/o	M16x1.5	M16x1.5 @ 90deg	c/w	10.0		
120 335 100	single diaphragm	16	80	150	M16x1.5	wiper	w/o	1/4" NPTF	1/4" NPTF	c/w	10.1		
120 340 203	single diaphragm	20	80	210	M16x1.5	wiper	w/o	M16x1.5	M16x1.5	w/o	10.0		
120 341 101	single diaphragm	20	80	186	M16x1.5	Boot	w/o	M16x1.5	M16x1.5	c/w	10.0		
120 341 201	single diaphragm	20	80	186	M16x1.5	wiper	w/o	M16x1.5	M16x1.5	c/w	10.0		
120 341 201AC	single diaphragm	20	80	186	M16x1.5	wiper	c/w	M16x1.5	M16x1.5	c/w	10.0		
120 341 203	single diaphragm	20	80	210	M16x1.5	wiper	w/o	M16x1.5	M16x1.5	c/w	10.0		
120 350 201	single diaphragm	24	80	186	M16x1.5	wiper	w/o	M16x1.5	M16x1.5	w/o	10.0		
120 350 203	single diaphragm	24	80	210	M16x1.5	wiper	w/o	M16x1.5	M16x1.5	w/o	10.0		
120 350 204	single diaphragm	24	80	148	M16x1.5	wiper	w/o	M16x1.5	M16x1.5	w/o	10.0		
120 351 101	single diaphragm	24	80	186	M16x1.5	Boot	w/o	M16x1.5	M16x1.5	c/w	10.0		
120 351 201	single diaphragm	24	80	186	M16x1.5	wiper	w/o	M16x1.5	M16x1.5	c/w	10.0		
120 351 201AC	single diaphragm	24	80	186	M16x1.5	wiper	c/w	M16x1.5	M16x1.5	c/w	10.0		
120 351 291	single diaphragm	24	80	186	M16x1.5	wiper	w/o	M16x1.5	M16x1.5 @ 90deg	c/w	10.0		
120 356 201	single diaphragm	24	80	210	M16x1.5	wiper	c/w	M16x1.5	M16x1.5	10.0		Schmitz	
120 360 201	single diaphragm	30	80	186	M16x1.5	wiper	w/o	M16x1.5	M16x1.5	w/o	10.0		
120 360 291	single diaphragm	30	80	186	M16x1.5	wiper	w/o	M16x1.5	M16x1.5 @ 90deg	w/o	10.0		
120 361 101	single diaphragm	30	80	186	M16x1.5	Boot	w/o	M16x1.5	M16x1.5	c/w	10.0		



120 311 101

120 330 201

120 331 101

120 331 201

120 331 291

120 340 203

120 341 101

120 341 201

120 341 203

120 350 201

120 350 203

120 350 204

120 351 101

120 351 201

120 356 201

120 360 201

120 360 291

120 361 101

ACTUATION

ACTUATION

part number	diaphragm	type	stroke (mm)	push rod (mm)	push rod thread	protection	yoke	central port	side port	screw plug	max. operating pressure (bar)	application	note
120 361 201	single diaphragm	30	80	186	M16x1.5	wiper	w/o	M16x1.5	M16x1.5	c/w	10.0		
120 361 201AC	single diaphragm	30	80	186	M16x1.5	wiper	c/w	M16x1.5	M16x1.5	c/w	10.0		
120 361 203	single diaphragm	30	80	210	M16x1.5	wiper	w/o	M16x1.5	M16x1.5	c/w	10.0		
120 361 291	single diaphragm	30	80	186	M16x1.5	wiper	w/o	M16x1.5	M16x1.5 @ 90deg	c/w	10.0		
120 376 102	single diaphragm	36	75	192	M16x1.5	Boot	w/o	M16x1.5	M22x1.5	c/w	10.0		*
120 434 203	single diaphragm	16	80	210	5/8" UNF	wiper	w/o	central port	1/4" NPTF	w/o	10.0		
120 444 203	single diaphragm	20	80	210	5/8" UNF	wiper	w/o	1/4" NPTF	1/4" NPTF	w/o	10.0		
120 454 203	single diaphragm	24	80	210	5/8" UNF	wiper	w/o	1/4" NPTF	1/4" NPTF	w/o	10.0		
120 464 203	single diaphragm	30	80	210	5/8" UNF	wiper	w/o	1/4" NPTF	1/4" NPTF	w/o	10.0		*
120 912 305	single diaphragm	12	55	82.5	M16x1.5	Boot	c/w (short)	w/o	M16x1.5	w/o	10.0	Lucas D3 & ELSA Disc Brakes (MAN/RVI etc.)	
120 912 307	single diaphragm	12	55	186	M16x1.5	Boot	w/o	M16x1.5	M16x1.5	c/w	10.0		
120 916 306	single diaphragm	16	74	106	M16x1.5	w/o	c/w (short)	M16x1.5	w/o	w/o	10.0		
120 916 309	single diaphragm	16	80	120	M16x1.5	wiper	c/w (short)	M16x1.5	M16x1.5	c/w	10.0	D-C bus	
120 916 310	single diaphragm	16	80	120	M16x1.5	wiper	c/w (short)	M16x1.5	M16x1.5	c/w	10.0	D-C bus	
120 916 311	single diaphragm	16	80	191	M16x1.5	Boot	c/w (short)	M16x1.5	M16x1.5	c/w	10.0		
120 916 312	single diaphragm	16	57	15	rounded	Boot	w/o	w/o	VOSS 230	w/o	10.0	D-C Atego Standard	
120 916 318	single diaphragm	16	80	120	M16x1.5	wiper	c/w (short)	M16x1.5	M16x1.5	c/w	10.0	D-C bus	
120 916 319	single diaphragm	16	80	120	M16x1.5	wiper	c/w (short)	M16x1.5	M16x1.5	c/w	10.0	D-C bus	
120 920 314	single diaphragm	20	80	126	M16x1.5	wiper	c/w (short)	M16x1.5	M16x1.5	c/w	10.0	D-C bus	
120 920 315	single diaphragm	20	80	126	M16x1.5	wiper	c/w (short)	M16x1.5	M16x1.5	c/w	10.0	D-C bus	
120 920 322	single diaphragm	20	64	15	rounded	Boot	w/o	M12x1.5	VOSS 230	w/o	10.2	front axle on D-C Actros/SETRA/EVO/Kasbora	
120 920 323	single diaphragm	20	64	15	rounded	Boot	w/o	M12x1.5	VOSS 230	w/o	10.2	front axle on D-C Actros/SETRA/EVO/Kasbora	
120 920 324	single diaphragm	20	64	15	rounded	Boot	w/o	M12x1.5	VOSS 230	w/o	10.2	front axle on D-C Actros/SETRA/EVO/Kasbora	
120 920 325	single diaphragm	20	64	15	rounded	Boot	w/o	M12x1.5	VOSS 230	w/o	10.2	front axle on D-C Actros/SETRA/EVO/Kasbora	
120 920 326	single diaphragm	20	64	15	rounded	Boot	w/o	w/o	VOSS 230	w/o	10.2	front axle on D-C Actros/SETRA/EVO/Kasbora	
120 920 330	single diaphragm	20	61	15	rounded	Boot	w/o	M12x1.5	VOSS 230	w/o	10.2	front axle on D-C Actros/SETRA/EVO/Kasbora	
120 920 331	single diaphragm	20	61	15	rounded	Boot	w/o	M12x1.5	VOSS 230	w/o	10.2	front axle on D-C Actros/SETRA/EVO/Kasbora	
120 920 334	single diaphragm	20	80	126	M16x1.5	Boot	c/w (short)	M16x1.5	M16x1.5	c/w	10.0	D-C bus	

\* c/w 2 piece clampband

ACTUATION



120 361 201



120 361 203



120 361 291



120 376 102



120 434 203



120 444 203



120 454 203



120 464 203



120 916 309



120 916 311



120 916 312



120 916 318



120 916 319



120 920 314



120 920 315



120 920 326



120 920 331



120 920 334



## ACTUATION

part number	diaphragm	type	stroke (mm)	push rod (mm)	push rod thread	protection	yoke	central port	side port	screw plug	max. operating pressure (bar)	application	note
120 920 335	single diaphragm	20	80	126	M16x1.5	Boot	c/w (short)	M16x1.5	M16x1.5	c/w	10.0	D-C bus	
120 924 306	single diaphragm	24	80	114	M16x1.5	Boot	c/w (short)	M16x1.5	w/o	w/o	10.0	Lucas D3 & ELSA Disc Brakes (MAN/RVI etc.)	
120 924 315	single diaphragm	24	80	116	M16x1.5	Boot	c/w (short)	M16x1.5	w/o	w/o	10.2	Lucas D3 & ELSA Disc Brakes (MAN/RVI etc.)	
120 924 322	single diaphragm	24	64	15	rounded	Boot	w/o	M12x1.5	VOSS 230	w/o	10.2	D-C	
120 924 323	single diaphragm	24	64	15	rounded	Boot	w/o	M12x1.5	VOSS 230	w/o	10.2	D-C	
120 924 327	single diaphragm	24	64	15	rounded	Boot	w/o	w/o	VOSS 230	w/o	10.2	D-C	
120 924 330	single diaphragm	24	80	191	M16x1.5	wiper	w/o	M16x1.5	M16x1.5	c/w	10.0		
120 924 332	single diaphragm	24	60	15	rounded	Boot	w/o	M12x1.5	VOSS 230	w/o	10.2	D-C	
120 924 333	single diaphragm	24	60	15	rounded	Boot	w/o	M12x1.5	VOSS 230	w/o	10.2	D-C	
120 927 303	single diaphragm	27	80	114	M16x1.5	Boot	c/w (short)	M16x1.5	w/o	w/o	10.0	Lucas D3 & ELSA Disc Brakes (MAN/RVI etc.)	
120 936 301	single diaphragm	36	75	60	M16x1.5	wiper	w/o	M16x1.5	M22x1.5	c/w	10.0	Gigant	*
121 140 003	double diaphragm	20	75	210	M16x1.5	w/o	w/o	M16x1.5	M16x1.5	w/o	8.0		
121 150 003	double diaphragm	24	75	210	M16x1.5	w/o	w/o	M16x1.5	M16x1.5	w/o	8.0		
121 234 003	double diaphragm	16	75	210	5/8" UNF	w/o	w/o	1/4" NPTF	1/4" NPTF	w/o	8.0		
121 254 003	double diaphragm	24	75	210	5/8" UNF	w/o	w/o	1/4" NPTF	1/4" NPTF	w/o	8.0		
121 264 003	double diaphragm	30	75	210	5/8" UNF	w/o	w/o	1/4" NPTF	1/4" NPTF	w/o	8.0		●
125 150 001	single diaphragm	15	57	15	rounded	Boot	w/o	M16x1.5	M16x1.5	w/o	10.2		
125 160 001	single diaphragm	16	57	15	rounded	Boot	w/o	M16x1.5	M16x1.5	w/o	10.0		
125 160 003	single diaphragm	16	57	15	rounded	Boot	w/o	w/o	M16x1.5	w/o	10.2	Schmitz	
125 160 400	single diaphragm	16	57	15	rounded	Boot	w/o	w/o	VOSS 232	w/o	10.2	D-C	
125 200 001	single diaphragm	20	64	15	rounded	Boot	w/o	M16x1.5	M16x1.5	w/o	10.0		
125 200 405	single diaphragm	20	61	15	rounded	Boot	w/o	M12x1.5	VOSS 232	w/o	10.2	D-C	
125 200 406	single diaphragm	20	61	15	rounded	Boot	w/o	M12x1.5	VOSS 232	w/o	10.2	D-C	
125 200 407	single diaphragm	20	64	15	rounded	Boot	w/o	w/o	VOSS Contour	w/o	10.2	D-C	
125 200 408	single diaphragm	20	64	15	rounded	Boot	w/o	w/o	VOSS Contour	w/o	10.2	D-C	
125 240 001	single diaphragm	24	64	15	rounded	Boot	w/o	M16x1.5	M16x1.5	w/o	10.0		
125 240 400	single diaphragm	24	64	15	rounded	Boot	w/o	w/o	VOSS 232	w/o	10.2	D-C	
125 240 401	single diaphragm	24	64	15	rounded	Boot	w/o	M12x1.5	VOSS 232	w/o	10.2	D-C	
125 240 402	single diaphragm	24	64	15	rounded	Boot	w/o	M12x1.5	VOSS 232	w/o	10.2	D-C	
125 240 403	single diaphragm	24	64	15	rounded	Boot	w/o	M12x1.5	VOSS 232	w/o	10.2	D-C	
125 240 404	single diaphragm	24	64	15	rounded	Boot	w/o	M12x1.5	VOSS 232	w/o	10.2	D-C	
125 240 405	single diaphragm	24	60	15	rounded	Boot	w/o	M12x1.5	VOSS 232	w/o	10.2	D-C	❖

- \* Liftaxle
- c/w 2 piece clampband
- ❖ other hand of 125240406



ACTUATION

ACTUATION

part number	diaphragm	type	stroke (mm)	push rod (mm)	push rod thread	protection	yoke	central port	side port	screw plug	max. operating pressure (bar)	application	note
125 240 406	single diaphragm	24	60	15	rounded	Boot	w/o	M12x1.5	VOSS 232	w/o	10,2	D-C	*
125 240 407	single diaphragm	24	64	15	rounded	Boot	w/o	M12x1.5	VOSS Contour	w/o	10,2	D-C	
125 240 408	single diaphragm	24	64	15	rounded	Boot	w/o	M12x1.5	VOSS Contour	w/o	10,2	D-C	
345 019 001	single diaphragm	24	57	37	-	Boot	c/w (short)	w/o	M16x1.5	w/o	10.0		
345 019 002	single diaphragm	24	57	37	-	Boot	c/w (short)	w/o	M16x1.5	w/o	10.0		
345 020 001	single diaphragm	20	57	37	-	Boot	c/w (short)	w/o	M16x1.5	w/o	10.0		
345 020 002	single diaphragm	20	57	37	-	Boot	c/w (short)	w/o	M16x1.5	w/o	10.0		
345 100 168	single diaphragm	12	55	227	M16x1.5	Boot	c/w (long)	M16x1.5	M16x1.5	c/w	8.0		●
345 125 110	single diaphragm	12	55	186	M16x1.5	Boot	w/o	M16x1.5	M16x1.5	c/w	8.0		
345 228 158	single diaphragm	16	80	135	M16x1.5	Boot	c/w (short)	M16x1.5	M16x1.5	c/w	8.0		
345 403 157	single diaphragm	24	57	184	M16x1.5	Boot	c/w (short)	w/o	M22x1.5	w/o	10.0		
345 403 158	single diaphragm	24	57	54	-	w/o	c/w (short)	w/o	M22x1.5	w/o	10.0		

\* other hand of 125240405

● c/w 2 piece clampband

ACTUATION



345 019 001



345 019 002



345 020 001



345 020 002



345 100 168



345 125 110



345 228 158



345 403 157



345 403 158

## ACTUATION

Air-actuated Double Diaphragm Spring Brake Chambers are a combination of a service brake chamber and a spring brake chamber. The service brake chamber is always a diaphragm chamber. Function of the spring brake chamber: under normal driving condition, compressed air holds the powerful spring in a compressed state. For parking, or in case of failure of the circuit, the air holding the spring is exhausted, and the brakes are applied by the power of the spring.



Blue Seal

Piston

Maxibrake

Piston Spring Brakes are as above but, the spring brake chamber utilises a piston, rather than a diaphragm, to hold the spring off. The service brake is still operated in the normal manner, utilising a diaphragm.

part number	type	type	stroke (mm)	push rod (mm)	push rod thread	protection	yoke	side ports	mounting thread	breather pipe	max. operating pressure (bar)	application	TÜV Report
135 1624 003	Blue Seal	16/24	57/57	15	rounded	internal boot	-	M16x1.5	M16x1.5	w/o	10.2	Schmitz	BZ165,1
135 1624 004	Blue Seal	16/24	57/57	15	rounded	internal boot	-	M16x1.5	M16x1.5	w/o	10.2		BZ165,1
135 1624 005	Blue Seal	16/24	57/57	15	rounded	internal boot	-	M16x1.5	M16x1.5	w/o	10.2	SMB	BZ165,1
135 1624 006	Blue Seal	16/24	57/57	15	rounded	internal boot	-	M16x1.5	M16x1.5	w/o	10.2	SMB	BZ165,1
135 1624 007	Blue Seal	16/24	57/57	15	rounded	internal boot	-	M16x1.5	M16x1.5	w/o	10.2		BZ165,1
135 1624 008	Blue Seal	16/24	57/57	15	rounded	internal boot	-	M16x1.5	M16x1.5	w/o	10.2		BZ165,1
135 1624 010	Blue Seal	10/24	57/57	15	rounded	internal boot	-	M16x1.5	M16x1.5	w/o	10.2	D-C Trailer Axle	BZ165,1
135 1624 011	Blue Seal	16/24	57/57	15	rounded	internal boot	-	M16x1.5	M16x1.5	w/o	10.2	D-C Trailer Axle	BZ165,1
135 2024 003	Blue Seal	20/24	64/64	15	rounded	internal boot	-	M16x1.5	M16x1.5	w/o	10.2	Schmitz	BZ176,0
135 2024 004	Blue Seal	20/24	64/64	15	rounded	internal boot	-	M16x1.5	M16x1.5	w/o	10.2		BZ176,0
135 2024 005	Blue Seal	20/24	64/64	15	rounded	internal boot	-	M16x1.5	M16x1.5	w/o	10.2		BZ176,0
135 2024 006	Blue Seal	20/24	64/64	15	rounded	internal boot	-	M16x1.5	M16x1.5	w/o	10.2		BZ176,0
135 2024 010	Blue Seal	20/24	64/64	15	rounded	internal boot	-	M16x1.5	M16x1.5	w/o	10.2		BZ176,0
135 2024 011	Blue Seal	20/24	64/64	15	rounded	internal boot	-	M16x1.5	M16x1.5	w/o	10.2		BZ176,0
136 2030 001	Blue Seal	20/30	76/76	246	M16x1.5	wiper	c/w	M16x1.5	M16x1.5	w/o	10.2		BZ166,0
136 2430 001	Blue Seal	24/30	76/76	246	M16x1.5	wiper	c/w	M16x1.5	M16x1.5	w/o	10.2		BZ167,0
136 2430 002	Blue Seal	24/30	76/76	227	M16x1.5	wiper	c/w	M16x1.5	M16x1.5	w/o	10.2	Schmitz	BZ167,0
136 3030 001	Blue Seal	30/30	76/76	246	M16x1.5	wiper	c/w	M16x1.5	M16x1.5	w/o	10.2		BZ168,0
346 022 001	Piston Spring Brake	20/24	57/57	300	M16x1.5	Boot	c/w	M16x1.5	M16x1.5	w/o	8.0	Renault/Iveco	
346 100 002	Piston Spring Brake	24/24	75/75	188	M16x1.5	Boot	c/w	M22x1.5	M16x1.5	c/w	8.0	Evobus	
346 101 001	Piston Spring Brake	27/24	75/75	159	M16x1.5	Boot	c/w	M22x1.5	M16x1.5	c/w	8.0	Evobus	
346 101 002	Piston Spring Brake	27/24	75/75	159	M16x1.5	Boot	c/w	M22x1.5	M16x1.5	c/w	8.0	Evobus	

ACTUATION



135 1624 004

135 1624 005

135 1624 006

135 1624 007

135 1624 008

136 2030 001



136 2430 001

136 3030 001

346 022 001

346 100 002

346 101 001

346 101 002

## ACTUATION

part number	type	type	stroke (mm)	push rod (mm)	push rod thread	protection	yoke	side ports	mounting thread	breather pipe	max. operating pressure (bar)	application	TÜV Report
346 140 001	Maxibrake, Air Spring Brake	Maxi-1 T30	67/67	203.5	5/8"-18UNF	w/o	w/o	M22x1.5	5/8"-18UNF	w/o	8.5		
346 184 001	Piston Spring Brake	36/30	75/67	233	M16x1.5	w/o	c/w	M16x1.5	M16x1.5	c/w	8.5		
346 185 001	Double Diaphragm Spring Brake	18/24	57/57	15	rounded	-	-	M16x1.5	M16x1.5	w/o	8.5		BZ110,0
346 186 001	Double Diaphragm Spring Brake	18/24	64/64	15	rounded	-	-	M16x1.5	M16x1.5	w/o	8.5		BZ117,0
346 187 001	Double Diaphragm Spring Brake	20/24	64/64	15	rounded	-	-	M16x1.5	M16x1.5	w/o	8.5		BZ117,0
MA15777	Maxibrake, Air Spring Brake	Maxi-1 T30	2.5"	8.0"	5/8-18 UNF	w/o	w/o	3/8" NPTF	5/8"-18 UNF	w/o	125 PSI		

ACTUATION



346 140 001



346 184 001



346 185 001



346 187 001



MA15777

## ACTUATION

Piston Cylinders are used as service brake chambers to apply the wheel brake in a mechanical actuating system. Piston Cylinders however, use a piston rather than diaphragm to convert air pressure into linear motion and force. They can also be used as control cylinders for other operations.



Wedge brake version

part number	for	piston ø (mm)	stroke (mm)	main port	yoke width (mm)	boot	bracket hole width (mm)	connection thread	waterproof	length (mm)	note	max. operating pressure (bar)	application
340 005 001	-	100	135	M22x1.5	14	c/w	120	-	-	300		8.0	
340 008 001	-	125	135	M22x1.5	14	c/w	155	-	-	335		8.0	
340 010 031	-	140	135	M22x1.5	14	c/w	155	-	yes	335		8.0	
340 011 001	-	140	155	M22x1.5	14	c/w	175	-	-	355	A 140 DIN 74282	8.0	
340 011 021	-	140	155	M22x1.5	14	c/w	175	-	-	355	special version	8.0	
340 013 001	-	150	155	M22x1.5	14	c/w	175	-	-	355		8.0	
340 026 001	-	80	105	M22x1.5	12	c/w	100	-	-	265		10.0	
340 026 011	-	80	105	M22x1.5	14	c/w	100	-	-	265		10.0	
340 027 001	-	80	105	M22x1.5	12	c/w	100	-	yes	265		8.0	
340 027 011	-	80	105	M22x1.5	14	c/w	100	-	-	265		8.0	
340 029 001	-	65	105	M22x1.5	12	c/w	85	-	-	253		8.0	
340 029 011	-	65	105	M22x1.5	14	c/w	85	-	-	265		8.0	
340 029 031	-	65	105	M22x1.5	12	c/w	85	-	-	253		8.0	
340 029 041	-	65	105	M22x1.5	12	c/w	85	-	-	253		8.0	
340 034 201	wedge brake	90	32	M16x1.5	-	-	-	1.75"x12UNS	no	156		8.5	Iveco
340 034 211	wedge brake	90	32	M16x1.5	-	-	-	1.75"x12UNS	no	136		8.5	Iveco
340 035 201	wedge brake	100	32	M16x1.5	-	-	-	1.75"x12UNS	no	156		8.5	Iveco
340 053 001	wedge brake	100	50	M16x1.5	-	-	-	M48x1.5	yes	184		8.5	MAN
340 058 001	wedge brake	100	50	M16x1.5	-	-	-	1.75"x12UNS	no	167		8.5	Iveco
340 071 001	wedge brake	90	50	M16x1.5	-	-	-	1.75"x12UNS	yes	167		8.5	Iveco



340 005 001

340 008 001

340 011 001

340 011 021

340 013 001

340 026 001

340 026 011

340 027 001

340 027 011

340 029 001

340 029 011

340 029 041

340 034 201

340 034 211

340 035 201

340 053 001

340 058 001

340 071 001

ACTUATION

ACTUATION

part number	for	piston ø (mm)	stroke (mm)	main port	yoke width (mm)	boot	bracket hole width (mm)	connection thread	waterproof	length (mm)	note	max. operating pressure (bar)	application
340 076 001	-	125	70	M16x1.5	14	c/w	-	M16x1.5	yes	198	c/w 2 side ventilation ports (left port plugged)	10.0	MAN
340 076 002	-	125	70	M16x1.5	14	c/w	-	M16x1.5	yes	198	c/w 2 side ventilation ports (right port plugged)	10.0	MAN
340 079 001	-	150	60	M22x1.5	14	c/w	-	M16x1.5	yes	199	c/w 2 front ventilation ports (with ports to left, top port plugged)	10.0	MAN
340 079 002	-	150	60	M22x1.5	14	c/w	-	M16x1.5	yes	199	c/w 2 front ventilation ports (with ports to left, bottom port plugged)	10.0	MAN
340 079 003	-	150	60	M22x1.5	14	c/w	-	M16x1.5	yes	199	c/w 2 front ventilation ports (yoke in-line with mounting points)	10.0	MAN
541 033 011	-	80	70	M12x1.5	-	c/w	100	M12x1.5	no	275		10.0	

ACTUATION



340 076 001



340 079 003



541 033 011

## ACTUATION

Control Cylinders are used primarily to operate the exhaust valve of the engine brake. They may also be used for other switching operations.



part number	piston ø (mm)	stroke (mm)	initial force @ 6 bar (N)	final force @ 6 bar (N)	port	boot	length (mm)	max. operating pressure (bar)	note
341 004 011	35	85	410	220	M12x1.5	c/w	228	8	universal version
341 011 021	35	50	340	240	M12x1.5	w/o	193	8	
341 032 011	35	35	287	284	M12x1.5	c/w	132	8	

ACTUATION



341 004 011



341 011 021



341 032 011

ACTUATION

Spring Brake Actuators are used on trucks or tractors, equipped with air brakes, as brake cylinders for the auxiliary and parking brake.

The "push type" actuators are used primarily for locking purposes, e.g. length adjustable trailers.



Pull type

Push type

part number	type	piston ø (mm)	stroke (mm)	output no stroke (N)	output full stroke (N)	release pressure (bar)	volume (litres)	manual wind off	locking device	ports	push rod thread	yoke	boot	mounting point width (mm)	length (mm)	stroke indicator	note	max. operating pressure (bar)
344 008 051	pull type	100	80	2750	4100	5.3	0.63	w/o	w/o	M22x1.5 central	M16x1.5	w/o	c/w	120	366	-		8.0
344 008 201	pull type	100	80	2000	3000	3.6	0.63	w/o	w/o	M22x1.5 central	M16x1.5	w/o	c/w	120	366	-		8.0
344 008 221	pull type	100	80	2000	3000	3.6	0.63	c/w	w/o	M22x1.5 central	M12	w/o	c/w	120	484	-		8.0
344 008 231	pull type	100	80	2750	4100	5.3	0.63	c/w	w/o	M22x1.5 central	M12x1.5	w/o	c/w	120	484	-		8.0
344 008 251	pull type	100	80	2750	4100	5.3	0.63	w/o	w/o	M16x1.5 central	M16x1.5	w/o	c/w	120	366	-		8.0
344 008 261	pull type	100	80	2500	3300	4.4	0.63	w/o	w/o	M22x1.5 central	M16x1.5	w/o	c/w	120	366	-		8.0
344 008 361	pull type	100	80	880	1270	1.9	0.63	w/o	w/o	M22x1.5 central	M16x1.5	w/o	c/w	120	366	-		8.0
344 008 501	pull type	100	80	2000	3000	3.6	0.63	w/o	w/o	M22x1.5 central	M16x1.5	w/o	c/w	120	366	-		8.0
344 008 521	pull type	100	80	2000	3000	3.6	0.63	c/w	c/w	M22x1.5 central	M12x1.5	w/o	c/w	120	484	-		8.0
344 008 531	pull type	100	80	2750	4100	5.3	0.63	c/w	c/w	M22x1.5 central	M12x1.5	w/o	c/w	120	484	-		8.0
344 008 561	pull type	100	80	2500	3300	4.4	0.63	w/o	w/o	M22x1.5 central	M16x1.5	w/o	c/w	120	366	-		8.0
344 010 001	pull type	150	70	8093	5886	4.9	1.36	c/w	w/o	M16x1.5 central	M14x1.5	w/o	c/w	176	461	-		8.0
344 017 101	pull type	100	80	3100	4800	6.3±0.3	0.63	screwable	c/w	M22x1.5 central	-	c/w	c/w	120	385	-		8.0
344 019 101	pull type	100	80	2000	3000	3.6	0.63	w/o	w/o	M22x1.5 central & M14x1.5 side	M16x1.5	w/o	c/w	120	366	-		8.0
344 019 151	pull type	100	80	2750	4100	5.3	0.63	w/o	w/o	M22x1.5 central & M14x1.5 side	M16x1.5	w/o	c/w	120	366	-		8.0
344 024 001	pull type	100	80	3100	4800	6.3±0.3	0.63	w/o	c/w	M16x1.5 central	-	c/w	c/w	120	385	-		8.0
344 024 101	pull type	100	80	3100	4800	6.3±0.3	0.63	screwable	c/w	M16x1.5 central	-	c/w	c/w	120	385	-		8.0
344 024 501	pull type	100	80	3100	4800	6.3±0.3	0.63	w/o	c/w	M16x1.5 central	-	c/w	c/w	120	385	-		8.0
344 024 601	pull type	100	80	3100	4800	6.3±0.3	0.63	screwable	c/w	M16x1.5 central	-	c/w	c/w	120	385	-		8.0
344 025 001	pull type	100	80	3100	4800	6.3±0.3	0.63	ball locking	c/w	M16x1.5 central	-	c/w	c/w	120	385	-		8.0
344 026 101	pull type	100	80	3100	4800	6.3±0.3	0.63	-	w/o	M22x1.5 central	M16x1.5	w/o	c/w	120	356	-		8.0
344 028 001	push type	137	57	4700	7200	5.6±0.3	0.9	w/o	w/o	M22x1.5 side	w/o (ø40)	w/o	w/o	120.7	159	w/o		8.0

ACTUATION



344 008 051



344 008 201



344 008 221



344 008 231



344 008 261



344 008 501



344 010 001



344 019 101



344 019 151



344 024 001



344 025 001



344 028 001



## ACTUATION

part number	type	piston ø (mm)	stroke (mm)	output no stroke (N)	output full stroke (N)	release pressure (bar)	volume (litres)	manual wind off	locking device	ports	push rod thread	yoke	boot	mounting point width (mm)	length (mm)	stroke indicator	note	max. operating pressure (bar)
344 028 011	push type	137	57	2300	3400	2.7±0.3	0.9	w/o	w/o	M22x1.5 side	w/o (ø40)	w/o	w/o	120.7	159	w/o		8.0
344 028 021	push type	137	57	4700	7200	5.6±0.3	0.9	w/o	c/w	M22x1.5 side	w/o (ø40)	w/o	w/o	120.7	159	c/w		8.0
344 028 031	push type	137	57	2300	3400	2.7±0.3	0.9	w/o	c/w	M22x1.5 side	w/o (ø40)	w/o	w/o	120.7	159	c/w		8.0
344 030 101	pull type	100	80	3100	4500	6.3±0.3	0.63	screwable	c/w	M16x1.5 side	-	c/w	c/w	120	342	-		8.0
344 032 101	pull type	100	80	3100	4500	6.3±0.3	0.63	screwable	c/w	M16x1.5 side	-	c/w	c/w	120	342	-		8.0
344 044 001	pull type	100	80	3100	4800	6.3±0.3	0.63	screwable	c/w	M16x1.5 side	-	c/w	c/w	120	417.5	-		8.0
344 046 001	pull type	100	80	3100	4800	6.3±0.3	0.63	ball locking	c/w	M16x1.5 side	-	c/w	c/w	120	417.5	-		8.0
344 047 101	pull type	100	80	3100	4800	6.3±0.3	0.63	ball locking	c/w	M16x1.5 central	-	c/w	c/w	120	415	-		8.0
344 048 101	pull type	100	80	3300	5500	7.3±0.3	0.63	screwable	c/w	M16x1.5 central	-	c/w	c/w	120	415	-		8.0
344 050 001	pull type	100	80	3300	5500	7.3±0.3	0.63	screwable	c/w	M16x1.5 central	-	c/w	c/w	120	385	-		8.0
344 051 001	pull type	100	80	3300	5500	7.3±0.3	0.63	screwable	c/w	M16x1.5 central	-	c/w	c/w	120	354	-		8.0
KSH202C	Maxibrake H-series - Air	133.3	2.0"	1520	4448	5.86	0.786	w/o	w/o	3/8" NPT side	wedge type	w/o	w/o	-	330.2	w/o	Ford; (MA15504)	125 PSI
KSMR3PH50-800NN	Maxibrake R-series push - Hydraulic	165.1	3.0"	6005	2669	3.65	1.56	w/o	w/o	1/4 NPT side	5/8-18 UNF	w/o	w/o	120.6	371.3	w/o	#50 spring; (MA15621)	125 PSI
KSMR3PH75-800NN	Maxibrake R-series push - Hydraulic	165.1	3.0"	6005	2669	3.65	1.56	w/o	w/o	1/4 NPT side	5/8-18 UNF	w/o	w/o	120.6	371.3	w/o	#75 spring	125 PSI
KSMR3PT60-800NN	Maxibrake R-series pull - Air	165.1	3.0"	7784	5115	4.76	1.8	w/o	w/o	1/4 NPT side	5/8-18 UNF	w/o	w/o	120.6	371.3	w/o	#60 spring; (MA15664)	125 PSI



344 028 011



344 028 031



344 050 001



KSMR3PH75-800NN

**ACTUATION**

The Air over Hydraulic Servo cylinder is used for actuating the master cylinder, in externally powered brake systems with hydraulically actuated wheel brakes.



part number	piston/diaphragm	type	piston $\varnothing$ (mm)	stroke (mm)	fixing support	waterproof	application	max. operating pressure (bar)
343 001 001	piston type	-	65	30	c/w	-		7.5
343 031 061	piston type	-	125	75	c/w	-		8
343 031 062	piston type	-	125	75	c/w	-		8
343 101 001	diaphragm type	12	-	33	-	yes	D-C	10
343 102 001	diaphragm type	12	-	33	-	no	D-C	10
343 201 001	diaphragm type	14	-	63	-	no	D-C	10
343 251 001	diaphragm type	16	-	63	-	no	D-C	10
343 252 001	diaphragm type	16	-	63	-	yes	D-C	10
343 314 001	diaphragm type	20	-	75	-	yes	D-C	10
343 315 001	diaphragm type	20	-	75	-	no	D-C	10
343 410 501	diaphragm type	24	-	75	-	no	D-C	10
343 411 001	diaphragm type	24	-	75	-	no		10

ACTUATION



343 001 001



343 031 061



343 101 001



343 102 001



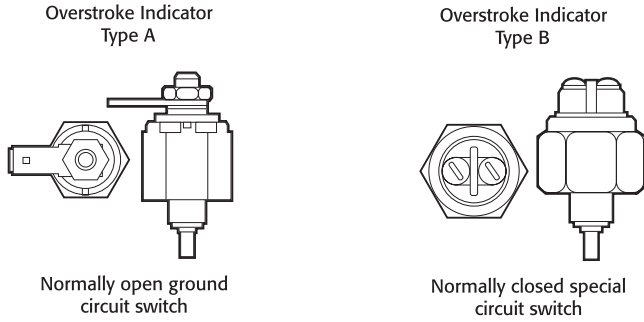
343 315 001



343 411 001

## ACTUATION

Pressure converters are used to split two different hydraulic media in a hydraulic system, or for conversion to a different pressure level.



part number	type	ratio	medium	cubic inch displacement	hydraulic cylinder diameter	pneumatic cylinder diameter	length	electric overstroke indication	overstroke indicator type	application	note
330 900 00	series II	16:1	brake fluid	2.9	1.12"	4.50"	13.25"	@ 88%	A	Aveling Barford	(N4185E)
330 900 09	series II	16:1	brake fluid	5.0	1.12"	4.50"	17.25"	@ 93%	A	Terex	(N4185C)
N4170AB	series I	14.8:1	brake fluid	17.4	1.75"	6.75"	22.81"	c/w	A		
N4170F	series I	14.8:1	brake fluid	17.4	1.75"	6.75"	22.81"	w/o	-		
N4170X	series I	14.8:1	brake fluid	17.4	1.75"	6.75"	22.81"	c/w	B	Caterpillar	(33090006)
N4185C	series II	16:1	brake fluid	5.0	1.12"	4.50"	17.25"	@ 93%	A	Terex	(33090009)
N4185E	series II	16:1	brake fluid	2.9	1.12"	4.50"	13.25"	@ 88%	A	Aveling Barford	(33090000)
N4190C	series I	29:1	brake fluid	12.3	1.25"	6.75"	28.20"	@ 80%	A		
N4194	series I	23:1	brake fluid	8.8	1.25"	6.00"	22.70"	@ 75%	A		
N4194B	series I	23:1	brake fluid	6.3	1.25"	6.00"	18.69"	@ 90%	A		
N4194E	series I	23:1	brake fluid	8.8	1.25"	6.00"	22.70"	w/o	-		
N4274J	series I	14.8:1	mineral oil	17.4	1.75"	6.75"	22.81"	c/w	B	Caterpillar	(33090018)
N4287	series I	6.6:1	mineral oil	38.4	2.62"	6.75"	23.56"	@ 91%	B		
N4295B	series II	13:1	mineral oil	6.1	1.25"	4.50"	17.19"	@ 93%	B		Outlet Port: 1/2-20 Flare
N4295E	series II	13:1	mineral oil	6.1	1.25"	4.50"	17.19"	@ 93%	B		Outlet Port: 9/16-18 O-Ring

ACTUATION



330 900 09      N4170AB      N4170X      N4194      N4194B      N4194E



N4274J      N4287      N4295B      N4295E

ACTUATION

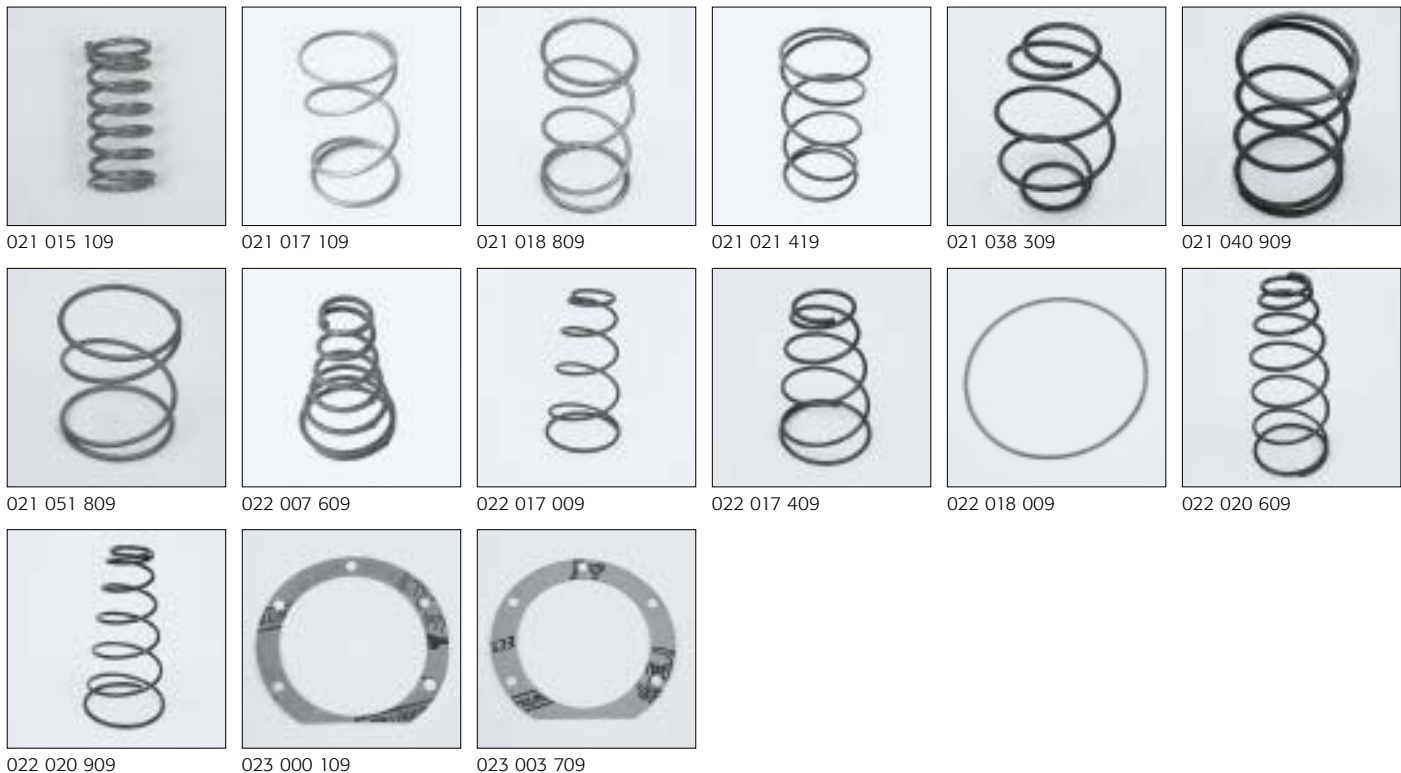


part number	description
003 033 609	Yoke; ø14mm; M16x1.5; deep throat; pressed
003 400 819	Cylinder Casing; galvanised
003 402 009	Bracket
003 402 109	Bracket; for piston cylinder (3400..../ 3410....)
003 437 909	Push Rod
003 561 409	Yoke; ø14mm; M16x1.5; standard throat; forged
003 567 809	Yoke; forged
003 567 909	Yoke
003 568 009	Yoke; forged
003 568 309	Yoke
003 616 409	Yoke; ø14mm; M16x1.5; standard throat; pressed
012 0540 090	Clevis Pin; for Yoke; ø14mm; length: 40 mm; 1 hole
014 083 409	Clampband; for brake chamber (T24)
015 018 109	Gasket; for piston cylinder; metal
016 197 809	Yoke; forged
016 278 909	Yoke; ø14mm; M16x1.5; forged
021 001 909	Compression Spring
021 004 109	Compression Spring
021 005 809	Compression Spring
021 006 509	Compression Spring
021 009 209	Compression Spring
021 010 409	Compression Spring; for piston cylinder (340026.../ 340027...)
021 011 609	Compression Spring
021 013 009	Compression Spring
021 013 209	Compression Spring
021 014 009	Compression Spring



ACTUATION

part number	description
021 015 109	Compression Spring
021 017 109	Compression Spring
021 018 809	Compression Spring
021 021 419	Compression Spring
021 021 509	Compression Spring
021 038 309	Compression Spring
021 040 909	Compression Spring
021 041 509	Compression Spring
021 051 109	Compression Spring
021 051 809	Compression Spring
021 060 809	Compression Spring
021 061 609	Compression Spring
021 069 809	Compression Spring
022 0004 090	Diaphragm; type 12; service; standard stroke
022 0005 090	Diaphragm; type 16; service; standard stroke
022 0007 090	Diaphragm; type 24; service; standard stroke
022 0015 090	Diaphragm; type 24; auxiliary; long stroke
022 0021 090	Diaphragm; type 30; service; long stroke
022 0035 090	Diaphragm; type 16; auxiliary; long stroke
022 0036 090	Diaphragm; type 20; auxiliary; long stroke
022 0037 090	Diaphragm; type 30; auxiliary; long stroke
022 007 609	Compression Spring; for Air over Hydraulic Servo (343001001)
022 009 219	Compression Spring
022 017 009	Compression Spring
022 017 409	Compression Spring
022 018 009	Compression Spring
022 020 609	Compression Spring; for brake chamber
022 020 909	Compression Spring; for brake chamber (type 16/20/24/30)
023 000 109	Gasket; for piston cylinder
023 003 709	Gasket; for piston cylinder
024 001 709	O-ring; for Clutch Servo
024 002 709	O-ring
024 005 709	Nut Ring; for Clutch Servo
024 009 109	O-ring; for Clutch Servo
024 011 609	Washer; watertight; nut seal
024 020 709	O-ring; for Spring Brake
024 026 509	Washer; watertight; nut seal
024 026 609	Washer; for Air over Hydraulic Servo (343021...); watertight; nut seal
024 026 909	Washer; watertight; nut seal
024 031 109	Washer; watertight; nut seal



ACTUATION

**ACTUATION**

part number	description
024 036 009	O-ring
024 039 609	O-ring
024 040 109	Washer; watertight; nut seal
024 040 209	O-ring
024 043 109	O-ring
024 052 809	Washer; watertight
024 053 809	O-ring
024 060 109	Washer; for air-hydraulic servo; watertight; nut seal
025 009 109	Dust Cover
025 009 709	Washer; watertight; nut seal
025 010 209	Washer; watertight; nut seal
025 011 809	Diaphragm; type 36; auxiliary; long stroke
025 012 009	Boot
025 013 409	Guide Ring
025 015 519	Boot
025 015 629	Boot; for spring brake actuator, pull type (344008../ 344019...)
025 015 719	Boot
025 015 819	Boot
025 017 509	Boot
025 022 609	Seal Disc; with hole
025 030 209	Diaphragm; type 16; service; standard stroke
025 033 609	Boot
025 034 009	Boot
025 035 209	Oil Ring; blue
025 038 209	Diaphragm; type 20; service; standard stroke
025 040 709	Diaphragm; type 16; service; long stroke
025 040 809	Diaphragm; type 20; service; long stroke
025 040 909	Diaphragm; type 24; service; long stroke
025 044 719	Boot
025 045 209	Boot
025 045 309	Diaphragm; type 9; service; standard stroke
025 045 409	Diaphragm; type 12; service; standard stroke
025 046 909	Boot
025 050 809	Diaphragm; type 27; service; long stroke
025 052 819	Boot
025 053 209	Oil Ring
025 054 309	Boot; for piston cylinder (541033011)
025 056 409	Boot; groove sealing
027 020 909	Guide Ring
029 006 009	Filter



025 009 109



025 012 009



025 015 519



025 015 629



025 015 719



025 015 819



025 022 609



025 033 609



025 034 009



025 035 209



025 052 819



025 056 409



027 020 909



029 006 009

ACTUATION

part number	description
049 000 809	Yoke; for piston cylinder
056 016 409	Strap
056 020 209	Circlip
056 020 909	Strap
057 000 109	Push Rod
057 009 309	Clevis Pin; for Yoke (piston cylinder)
057 012 109	Clevis Pin; for Yoke; ø14mm; length: 45mm; 2 hole
057 012 209	Clevis Pin; for Yoke; ø14mm; length: 50mm; 2 hole
057 018 009	Spreader Rivet
057 029 809	Clevis Pin; for Yoke; ø14mm; length: 31mm; 1 hole
101977P	Overstroke Indicator; for Pressure Converter; type B
124 100 101	Yoke; ø14mm; M16x1.5; standard throat; forged
124 100 121	Yoke; ø1/2"; M16x1.5; standard throat; forged
124 100 301	Yoke; ø14mm; 5/8" UNF; standard throat; forged
124 100 321	Yoke; ø1/2"; 5/8" UNF; standard throat; forged
124 135 321	Yoke; ø1/2"; 5/8" UNF; standard throat; forged
339 000 01	Diaphragm; service; (102098E)
339 000 09	Piston Indicator; for Pressure Converter (33090000/ ..009); (102521C)
339 000 49	Push Rod; for Pressure Converter (33090000/ ..009); (C14253AM)
339 000 82	Overstroke Indicator; for Pressure Converter; Type A; 3/8"-24 UNF port; 1/4" spade connection (SAE J858A)
378723	Gasket; copper
378731	Gasket; copper; ID: 1/2"
570 299 09	Clevis Pin; for Yoke; ø1/2"; length: 31mm; 1 hole
950 035 008	Repair Kit; for piston cylinder (035014609)
950 340 002	Repair Kit; for piston cylinder (340005../ 340007..)
950 340 003	Repair Kit; for piston cylinder (340008..)
950 340 004	Repair Kit; for piston cylinder (340011..)
950 340 006	Repair Kit; for piston cylinder (340029..)
950 340 009	Repair Kit; for wedge brake piston cylinder (340035..)



**ACTUATION**

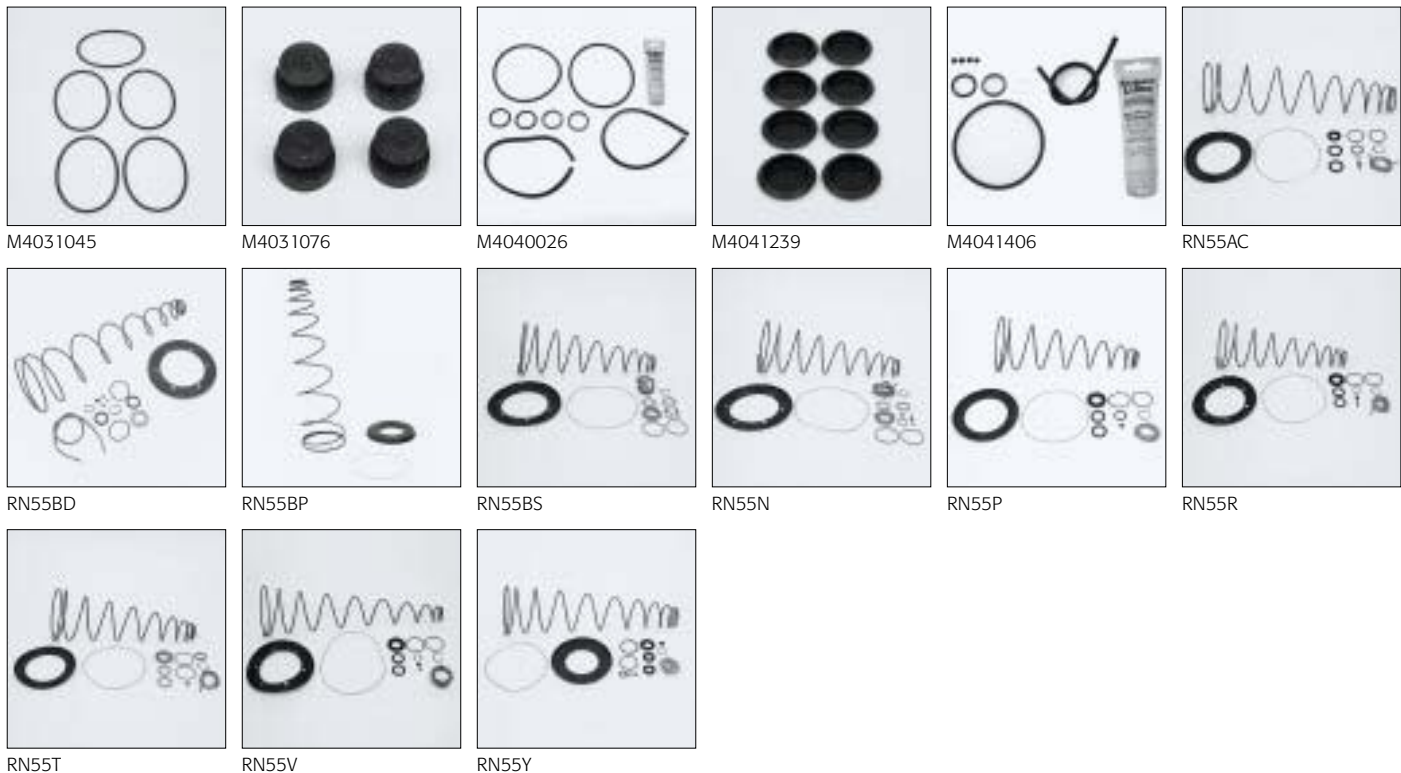
part number	description
950 340 010	Repair Kit; for wedge brake piston cylinder (340034.../ 340044...)
950 340 011	Repair Kit; for wedge brake piston cylinder (340037...)
950 340 013	Repair Kit; for wedge brake piston cylinder (340053...)
950 340 014	Repair Kit; for wedge brake piston cylinder (340056...)
950 340 016	Repair Kit; for piston cylinder (340080001)
950 340 017	Repair Kit; for piston cylinder (340079...)
950 340 018	Repair Kit; for piston cylinder (340076...)
950 341 002	Repair Kit; for Control Cylinder (341001-341004.../ 341011.../ 341017...)
950 343 001	Repair Kit; for Air over Hydraulic Servo (343007...)
950 343 002	Repair Kit; for Air over Hydraulic Servo (343019...)
950 343 005	Repair Kit; for Air over Hydraulic Servo (343200.../ 343201.../ 343251...)
950 343 006	Repair Kit; for Air over Hydraulic Servo (343315001)
950 343 007	Repair Kit; for Air over Hydraulic Servo (343101.../ 343102...)
950 344 002	Boot; for spring brake actuator, pull type (344040...)
950 344 003	Repair Kit; for spring brake actuator, pull type (344016.../ 344024.../ 344047...)
950 344 004	Repair Kit; for spring brake actuator, pull type (344017.../ 344025...)
950 344 005	Repair Kit; for spring brake actuator, pull type (344026...)
950 344 006	Repair Kit; for spring brake actuator, pull type (344008.../ 344019...)
950 344 009	Repair Kit; for spring brake actuator, pull type (344032...)
950 344 010	Repair Kit; for spring brake actuator, pull type (344044...)
950 346 005	Repair Kit; for diaphragm/piston spring brake (346065.../ 346080...)
950 346 006	Repair Kit; for diaphragm/piston spring brake (346082...)
950 346 013	Repair Kit; for Piston Spring Brake (346033001)
950 346 014	Repair Kit; for Piston Spring Brake (346101001)
C14253AN	Push Rod; for Pressure Converter (33090000)
DIN934UNF5/8	Nut; for Maxibrake Spring Brake (KSM...)
KSM4031334	Repair Kit; for Maxibrake (KSMR.../ MA156.); c/w boot
KSM4041094	Repair Kit; for Maxibrake (R series)
M4031002	Compression Spring; for Maxibrake (I & R series); #75; for types 20, 24, 30 & 36



ACTUATION



part number	description
M4031045	O-ring Kit; for Maxibrake (KSMR...../ MA156.); c/w 5 O-rings
M4031063	Repair Kit; for Maxibrake (type 36)
M4031076	Plug Kit; for Maxibrake (KSMR...../ MA156.); c/w 4 plugs; to plug drain hole
M4036048	Yoke; for Maxibrake (KSMR...../ MA156.); 5/8" UNF; 5/8" UNF; standard throat; forged
M4040025	Piston Kit; for Maxibrake (KSMR...../ MA156.); for types 20, 24, 30 & 36; aluminium
M4040026	Repair Kit; for Maxibrake (KSMR...../ MA156.); to repair 2 Maxibrake units
M4041239	Cap Plug Kit; for Maxibrake; c/w 8 cap plugs
M4041406	Repair Kit; for Maxibrake (I & R series)
M4731971	Filter; for Maxibrake (Camtite Series); for types 24, 30 & 36
M4740432	Cylinder; for Maxibrake (Camtite Series); for type 36
RN21AF	Repair Kit; for Maxibrake (T50)
RN55AC	Repair Kit; for Pressure Converter (N4194-)
RN55BD	Repair Kit; for Pressure Converter (N4170X/ AB)
RN55BP	Repair Kit; for Pressure Converter (N4295)
RN55BS	Repair Kit; for Pressure Converter (N4274J)
RN55N	Repair Kit; for Pressure Converter (N4274-)
RN55P	Repair Kit; for Pressure Converter (N4174B/ F)
RN55R	Repair Kit; for Pressure Converter (N4170F/ L/ R / T)
RN55T	Repair Kit; for Pressure Converter (N4270-)
RN55V	Repair Kit; for Pressure Converter (N4170G/ M)
RN55Y	Repair Kit; for Pressure Converter (N4185-)



M4031045

M4031076

M4040026

M4041239

M4041406

RN55AC

RN55BD

RN55BP

RN55BS

RN55N

RN55P

RN55R

RN55T

RN55V

RN55Y

ACTUATION

### HYDRAULICS

Pressure balanced gear pumps, 0.8-5.7 cm<sup>3</sup> displacement and 230 bar. Specially developed for rough conditions on truck applications. Haldex design and manufacturing ensures low noise and high efficiency. Provides a reasonable balance of speed and torque. Designed to fit Hesselman motors.



part number	for Power Pack	cubic capacity	built-in relief valve
1303435	He2000	0.8 cc	w/o
1303436	He2000	1.2 cc	w/o
1303437	He2000	1.6 cc	w/o
1303438	He2000	2.0 cc	w/o
1303439	He2000	2.6 cc	w/o
1303440	He2000	3.2 cc	w/o
1303441	He2000	3.8 cc	w/o
1303442	He2000	4.3 cc	w/o
1303443	He2000	4.8 cc	w/o
1303444	He2000	5.7 cc	w/o
P1-11KD6	Classic	2.0 cc	w/o
P1-13MD6	Classic	2.46 cc	w/o
P1-17MD6	Classic	3.28 cc	w/o
P1-22MD6	Classic	4.3 cc	w/o
P1-30MD6	Classic	5.7 cc	w/o
P1-4MD6	Classic	0.82 cc	w/o
P1-9MD6	Classic	1.64 cc	w/o
PR1-13MD6	Classic	2.46 cc	c/w
PR1-17MD6	Classic	3.28 cc	c/w
PR1-22MD6	Classic	4.3 cc	c/w



P1-9MD6

Compound wound 12 and 24 VDC motors, 1.5 - 3 kW for intermittent duty on truck applications. Low brush wear. Haldex design and development. When fitted to a Gear Pump, the combined unit is termed a Pump Motor Unit.



part number	for Power Pack	voltage	wattage	diameter (mm)	thermal switch	note
12MA42THSWA	Classic	12V	3 kW	125	c/w	
12MB12TP	Classic	12V	2 kW	112	c/w	c/w mounted pump
12MB12TWA	Classic	12V	2 kW	112	c/w	
1303455	He1000	12V	1 kW	80	c/w	(12MG32THE)
1303456	He1000	24V	1 kW	80	w/o	(24MG32HE)
1303457	He1000	24V	1 kW	80	c/w	(24MG32THE)
1303460	He1000	24V	2 kW	112	w/o	(24MD22WA)
1303462	He2000	12V	2 kW	112	w/o	(12MD12WA)
1303464	He2000	24V	2 kW	112	w/o	(24MD22WA)
1303465	He2000	24V	2 kW	112	c/w	(24MD22TWA)
24MA42THSP	Classic	24V	3 kW	125	c/w	
24MA42THSPR	Classic	24V	3 kW	125	c/w	
24MA42THSWA	Classic	24V	3 kW	125	c/w	c/w fan
24MA42TP	Classic	24V	3 kW	125	c/w	
24MA42TWA	Classic	24V	3 kW	125	c/w	
24MB22TP	Classic	24V	2 kW	112	c/w	
24MB22TPR	Classic	24V	2 kW	112	c/w	
24MB22TWA	Classic	24V	2 kW	112	c/w	
24MF22S-HWA	Motor/pump	24V	4.5 kW	125	w/o	
24MG32THE	He1000	24V	1 kW	80	c/w	
48MB82LX-PR	Motor/pump	48V	2 kW	112	w/o	
48MB82LX-WA	Motor/pump	48V	2 kW	112	w/o	



12MB12TWA



1303455



1303457



1303464



24MA42TWA



24MB22TWA

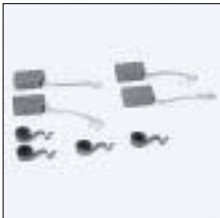
## HYDRAULICS

Keeping control of brush wear, and exchanging when needed, helps maintain superior motor performance. Removing brush dust from the commutator improves lifetime and function.

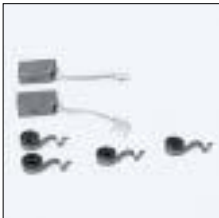


part number	for
60087-00	MA 12/24V motor
60087-01	MC 24V motor
60087-02	MC 12V motor
60194-00	MB 24V motor
60194-01	MB 12V motor

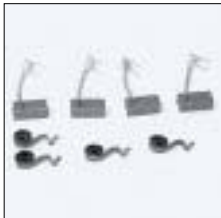
HYDRAULICS



60087-00



60087-02



60194-00

Rotary flow dividers enable parallel movement of cylinders or hydraulic drives, and can also act as pressure intensifiers.



part number	capacity/section	sections	inlet ports	outlet ports
1300095	3.18 cc	1	SAE 3/4-16	SAE 3/4-16
1300096	4.24 cc	1	SAE 3/4-16	SAE 3/4-16
1300159	3.18/8.48 cc	2	1" tube	1/2-14 NPT
1300315	9.5 cc	2	SAE 1 5/16-12	SAE 7/8-14
1300323	9.5 cc	4	SAE 1 5/16-12	SAE 7/8-14
1300352	13.3 cc	2	SAE 1 5/16-12	SAE 1/16-12
1300484	6.36/1.06 cc	2	1/2-14 NPT	1/2-14 NPT
1300636	6.36 cc	2	SAE 7/8-14	SAE 7/8-14
1300637	8.42 cc	2	SAE 7/8-14	SAE 7/8-14
1303144	2.11 cc	2	BSPP 1/2-14	BSPP 1/2-14
1303147	4.24 cc	4	BSPP 1/2-14	BSPP 1/2-14
1303149	4.24 cc	2	BSPP 1/2-14	BSPP 1/2-14
1303157	2.11 cc	4	BSPP 1/2-14	BSPP 1/2-14
1303166	4.24 cc	3	BSPP 1/2-14	BSPP 1/2-14



1300323



1300636



1300637



1303144



1303147



1303149



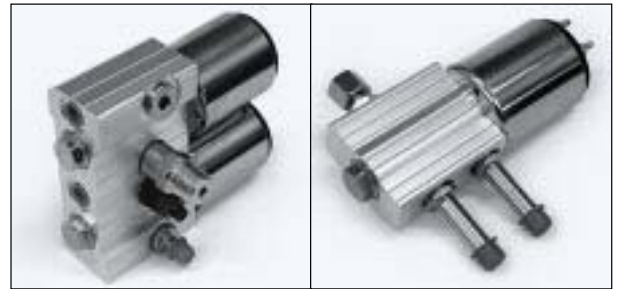
1303157



1303166

**HYDRAULICS**

Directly operated electromagnetic solenoid valve, for distinct and reliable operation.



part number	description	type	solenoid	note
12EM10VE125	Manifold (solenoid, relief valve & check valve)	2x single acting	2x 12V DC (2/2+3/2)	directly operated
12EM15VE124	Manifold (solenoid, relief valve & check valve)	double acting	2x 3/2 12V DC	directly operated
12EM15VE125	Manifold (solenoid, relief valve & check valve)	2x single acting	2x 12V DC (2/2+3/2)	directly operated
12EM15VE127	Manifold (solenoid, relief valve & check valve)	double acting	2x 3/2 12V DC	directly operated
12EM15VE21AH	Manifold (solenoid, relief valve & check valve)	single acting	1x 2/2 12V DC	directly operated
12EM15VE36AH	Manifold (solenoid valve, c/w line body)	diversion type	1x 3/2 12V DC	directly operated
12EM15VE80H	Manifold (solenoid, relief valve & check valve)	single acting (normally open)	1x 2/2 12V DC	directly operated
24EM10VE125	Manifold (solenoid, relief valve & check valve)	2x single acting	2x 24V DC (2/2+3/2)	directly operated
24EM15VE124	Manifold (solenoid, relief valve & check valve)	double acting	2x 3/2 24V DC	directly operated
24EM15VE125	Manifold (solenoid, relief valve & check valve)	2x single acting	2x 24V DC (2/2+3/2)	directly operated
24EM15VE127	Manifold (solenoid, relief valve & check valve)	double acting	2x 3/2 24V DC	directly operated
24EM15VE21AH	Manifold (solenoid, relief valve & check valve)	single acting	1x 2/2 24V DC	directly operated
24EM15VE36AH	Manifold (solenoid valve, c/w line body)	diversion type	1x 3/2 24V DC	directly operated
24EM15VE80H	Manifold (solenoid, relief valve & check valve)	single acting (normally open)	1x 2/2 24V DC	directly operated

HYDRAULICS



24EM15VE124



24EM15VE125



24EM15VE127



24EM15VE21AH



24EM15VE36AH

Electromagnetic solenoid, for operating valves. High weather protection (IP) and silver plated contacts, to avoid component 'welding'.



part number	voltage
12EM15S	12V
24EM15S	24V



24EM15S

**HYDRAULICS**

For convenience and safety, the pressure switch prevents the hydraulic system from being over pressurized. Replace '###' with the required maximum pressure, in bar.



part number	pressure setting (bar)	adjustable	note
30260-00-###-A	preset 2-350	not adjustable	normally closed
30260-01-###-A	preset 2-350	not adjustable	normally open
30325-00-###-A	25-150	adjustable	open and/or closed
30325-01-###-A	100-350	adjustable	open and/or closed
30355-00-###-A	preset 2-350	not adjustable	normally closed
30355-01-###-A	preset 2-350	not adjustable	normally open
30356-00-###-A	25-150	adjustable	open and/or closed
30356-01-###-A	100-350	adjustable	open and/or closed



Steel reservoirs, with a powder coated surface, to withstand salt and water spray when mounted on trucks. The reservoir cover is an integral part of the unit.



part number	capacity (litres)	mounting bracket	for Power Pack
1303510	6.2	horizontal	He2000
315TNK1A	3.2	horizontal	Classic
315TNK1B	3.2	vertical	Classic
315TNK2A	4.9	horizontal	Classic
315TNK2B	4.9	vertical	Classic
315TNK3A	7.8	horizontal	Classic
315TNK3B	7.8	vertical	Classic
400TNK2A	6.2	horizontal	Classic
400TNK2B	6.2	vertical	Classic
400TNK3A	11.2	horizontal	Classic
400TNK3B	11.2	vertical	Classic
400TNK4A	18.7	horizontal	Classic
400TNK4B	18.7	vertical	Classic
445TNK2A	7.0	horizontal	Classic
445TNK2B	7.0	vertical	Classic
445TNK3A	11.3	horizontal	Classic
445TNK3B	11.3	vertical	Classic
445TNK4A	17.1	horizontal	Classic
445TNK4B	17.1	vertical	Classic
570TNK	11.0	vertical	Classic
600TNK	14.9	vertical	Classic

**HYDRAULICS**

The reservoir cover helps protect the Hesselman power pack from gravel, mud, dirt, dust, salt spray, stones, extremely cold weather and uneven roads.



part number	type
20099-01	315 TNK1
20099-02	315 TNK2
20099-03	315 TNK3
20099-04	400 TNK1
20099-05	400 TNK2
20099-06	400 TNK3
20099-07	400 TNK4
20099-08	445 TNK1
20099-09	445 TNK2
20099-10	445 TNK3
20099-11	445 TNK4
20099-12	570 TNK
20099-13	600 TNK

# Starter Solenoid



## HYDRAULICS

High quality starter solenoid, with specially plated contacts to reduce sparks at low voltage. IP65 protection.



part number	SW	voltage	motor
1303519	SW80PE	24V	He 112mm
50002-00	SW180	24V	Classic MB
50131-00	SW80	12V	Classic MB
50132-00	SW80	24V	Classic MB
50216-00	SW80	24V	Classic MA
50275-00	SW80	12V	Classic MA



50002-00



50131-00



50132-00



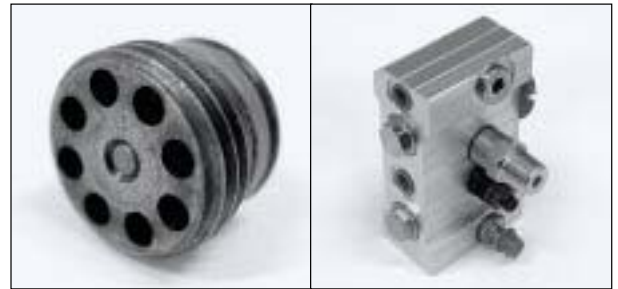
50216-00



50275-00

HYDRAULICS

HYDRAULICS



Check Valve

Manifold

part number	type	Manifold	note	for Power Pack
1303525	Pressure Relief Valve	-	50-250 bar	He2000
30001-00	Flow Control Valve	-		Classic
510401	Cartridge 3/2	-		Classic
VE100-1	Relief Valve	-	15-50 bar	Classic
VE100-2	Relief Valve	-	50-250 bar	Classic
VE118	Check Valve	-		Classic
VE124-125	Manifold	2x 3/2 valve, relief valve & check valve	125 bar	Classic
VE124-150	Manifold	2x 3/2 valve, relief valve & check valve	150 bar	Classic
VE124-175	Manifold	2x 3/2 valve, relief valve & check valve	175 bar	Classic
VE124-200	Manifold	2x 3/2 valve, relief valve & check valve	200 bar	Classic
VE125-125	Manifold	1x 3/2 valve, relief valve & check valve	125 bar	Classic
VE125-150	Manifold	1x 3/2 valve, relief valve & check valve	150 bar	Classic
VE125-175	Manifold	1x 3/2 valve, relief valve & check valve	175 bar	Classic
VE125-200	Manifold	1x 3/2 valve, relief valve & check valve	200 bar	Classic
VE127-125	Manifold	2x 3/2 valve, relief valve & check valve	125 bar	Classic
VE127-150	Manifold	2x 3/2 valve, relief valve & check valve	150 bar	Classic
VE127-175	Manifold	2x 3/2 valve, relief valve & check valve	175 bar	Classic
VE127-200	Manifold	2x 3/2 valve, relief valve & check valve	200 bar	Classic
VE16-1	Cartridge 2/2	-	normally closed	Classic
VE21AH-125	Manifold	1x 2/2 valve, relief valve & check valve	125 bar	Classic
VE21AH-130	Manifold	1x 2/2 valve, relief valve & check valve	130 bar	Classic
VE21AH-135	Manifold	1x 2/2 valve, relief valve & check valve	135 bar	Classic
VE21AH-140	Manifold	1x 2/2 valve, relief valve & check valve	140 bar	Classic
VE21AH-145	Manifold	1x 2/2 valve, relief valve & check valve	145 bar	Classic
VE21AH-150	Manifold	1x 2/2 valve, relief valve & check valve	150 bar	Classic
VE21AH-155	Manifold	1x 2/2 valve, relief valve & check valve	155 bar	Classic
VE21AH-160	Manifold	1x 2/2 valve, relief valve & check valve	160 bar	Classic
VE21AH-165	Manifold	1x 2/2 valve, relief valve & check valve	165 bar	Classic
VE21AH-170	Manifold	1x 2/2 valve, relief valve & check valve	170 bar	Classic
VE21AH-175	Manifold	1x 2/2 valve, relief valve & check valve	175 bar	Classic
VE21AH-180	Manifold	1x 2/2 valve, relief valve & check valve	180 bar	Classic
VE21AH-185	Manifold	1x 2/2 valve, relief valve & check valve	185 bar	Classic
VE21AH-190	Manifold	1x 2/2 valve, relief valve & check valve	190 bar	Classic
VE21AH-195	Manifold	1x 2/2 valve, relief valve & check valve	195 bar	Classic
VE21AH-200	Manifold	1x 2/2 valve, relief valve & check valve	200 bar	Classic

HYDRAULICS



VE100.\*



VE118



VE124-\*\*\*



VE125-\*\*\*



VE127-\*\*\*



VE21AH-\*\*\*

## HYDRAULICS

part number	type	Manifold	note	for Power Pack
VE36AH	Manifold	1x 3/2 valve, c/w line body		Classic
VE50H	Manifold	1x 3/2 valve, c/w line body		Classic
VE78AH-***	Pressure Relief Valve	-		Classic
VE80H-***	Manifold	1x 2/2 valve, relief valve & check valve		Classic



VE36AH

HYDRAULICS



Strap

Driver

Breather

Motor Support

part number	description
18FJ3	Brush Spring
23400	Breather
40139-01	Connection Cable Thermal Protection; for MB-motor
40288-00	Connection Cable; (624KTS1/624KTS3)
40288-01	Connection Cable; (624KTS2)
40292-00	Connection Cable Thermal Protection; for MA-motor
40356-00	Pump Connection; c/w check valve
417606	Support Plate
47200	Rubber Grommet; 26 mm
48000	Motor Support
50448-00	Contactora; 12V DC; connection: plain bracket
50464-00	Contactora; 24V DC; connection: plain bracket
509RR	Hose
510RR	Hose
512FKS3	Mini-test
533HL1	Driver
533HL2	Driver
53600	Strainer
60035-00	Adapter Kit; c/w Relief Valve Seat (USA designed relife)
60078-00	Sealing Kit; P1; for Gear Pump
60294-00	MA-Fan Kit
61TT	Protection Strap
6202-2Z	Ball Bearing
6203-2Z	Ball Bearing
6204-2Z	Ball Bearing
748KTS3	Connection Cable
920097	Sealing Kit
92101	Sealing Kit
AWAB11-17	Clamp
AWAB19-28	Clamp
BK10450-2	Elbow
MC6S8X90	Screw
SP116/21SK	Strap
SP126/21SK	Strap
VE15-3-S	O-ring Kit



23400

417606

48000

50448-00

533HL1

533HL2

53600

920097

92101

BK10450-2

SP126/21SK

VE15-3-S

## AIR DISTRIBUTION (GRAU)

part number	size	length (m)	standard	colour
067 001 101	10x1.5	25	DIN 73378	black
067 001 102	10x1.5	100	DIN 73378	black
067 001 103	10x1.5	500	DIN 73378	black
067 001 501	6x1.0	25	DIN 74324	black
067 001 502	6x1.0	100	DIN 74324	black
067 001 502R	6x1.0	100	DIN 74324	red
067 001 502Y	6x1.0	100	DIN 74324	yellow
067 001 503	6x1.0	500	DIN 74324	black
067 001 601	8x1.0	25	DIN 74324	black
067 001 602	8x1.0	100	DIN 74324	black
067 001 602R	8x1.0	100	DIN 74324	red
067 001 602Y	8x1.0	100	DIN 74324	yellow
067 001 603	8x1.0	500	DIN 74324	black
067 001 701	10x1.0	25	DIN 74324	black
067 001 702	10x1.0	100	DIN 74324	black
067 001 702R	10x1.0	100	DIN 74324	red
067 001 702Y	10x1.0	100	DIN 74324	yellow
067 001 703	10x1.0	500	DIN 74324	black
067 001 801	12x1.5	25	DIN 74324	black
067 001 802	12x1.5	100	DIN 74324	black
067 001 802R	12x1.5	100	DIN 74324	red
067 001 802Y	12x1.5	100	DIN 74324	yellow
067 001 803	12x1.5	500	DIN 74324	black
067 001 901	15x1.5	25	DIN 74324	black
067 001 902	15x1.5	100	DIN 74324	black
067 002 001	16x2.0	25	DIN 74324	black
067 002 002	16x2.0	100	DIN 74324	black
067 002 002R	16x2.0	100	DIN 74324	red
067 002 002Y	16x2.0	100	DIN 74324	yellow
067 002 101	18x2.0	25	DIN 74324	black
067 002 102	18x2.0	100	DIN 74324	black



067 001 101



067 001 102



067 001 501



067 001 502



067 001 503



067 001 601



067 001 602



067 001 602R



067 001 602Y



067 001 603



067 001 701



067 001 702



067 001 703



067 001 801



067 001 802



067 001 802R



067 001 802Y



067 001 803



067 001 901



067 001 902



067 002 001



067 002 002



067 002 101



067 002 102

**AIR DISTRIBUTION (GRAU)**

part number	size	length (m)	standard	colour
067 002 102R	18x2.0	100	DIN 74324	red
067 002 102Y	18x2.0	100	DIN 74324	yellow
067 002 201	4x1.0	25	DIN 74324	black
067 002 202	4x1.0	100	DIN 74324	black
067 002 203	4x1.0	500	DIN 74324	black
067 006 001	10x1.25	25	DIN 74324	black
067 006 002	10x1.25	100	DIN 74324	black
067 006 003	10x1.25	500	DIN 74324	black
067 006 501	15x2.0	25	DIN 73378	black
067 006 502	15x2.0	100	DIN 73378	black
067 006 502R	15x2.0	100	DIN 73378	red
067 006 502Y	15x2.0	100	DIN 73378	yellow
067 006 801	11x1.5	25	DIN 74324	black
067 006 802	11x1.5	100	DIN 74324	black

AIR DISTRIBUTION (GRAU)



067 002 201



067 002 202



067 006 001



067 006 002



067 006 501



067 006 802



## AIR DISTRIBUTION (GRAU)

part number	capacity (litres)	diameter (mm)	full length (mm)	length excl. thread (mm)	no. of ports	thread	standard	colour	max. pressure (bar)
030 350 209	10	206	357	340	4	M22x1.5	EN286-2	black	12.5
030 350 509	20	206	662	645	4	M22x1.5	EN286-2	black	12.5
030 350 609	20	246	502	485	4	M22x1.5	EN286-2	black	12.5
030 350 909	30	246	702	685	4	M22x1.5	EN286-2	black	12.5
030 351 209	40	276	747	730	4	M22x1.5	EN286-2	black	12.5
030 351 309	37	246	852	835	4	M22x1.5	EN286-2	black	12.5
030 351 509	40	246	917	900	4	M22x1.5	EN286-2	black	12.5
030 351 609	60	276	1102	1085	4	M22x1.5	EN286-2	black	12.5
030 351 709	60	396	567	550	4	M22x1.5	EN286-2	black	12.5
030 351 809	60	246	1352	1335	4	M22x1.5	EN286-2	black	12.5
030 352 009	80	396	732	715	4	M22x1.5	EN286-2	black	12.5
030 352 109	85	276	1500	1485	4	M22x1.5	EN286-2	black	12.5
030 352 209	100	396	902	885	4	M22x1.5	EN286-2	black	12.5
030 360 809	60	310	882	864	4	M22x1.5	EN286-2	black	12.5
030 362 009	40	310	602	585	4	M22x1.5	EN286-2	black	12.5
030 363 609	15	206	522	505	4	M22x1.5	EN286-2	black	12.5
032 253 013S	30	246	685	-	5	M22x1.5	EN286-2	black	12.5
032 304 513S	45	246	700	-	5	M22x1.5	EN286-2	black	12.5
032 306 013S	60	300	888	-	5	M22x1.5	EN286-2	black	12.5
032 308 013S	80	396	715	-	5	M22x1.5	EN286-2	black	12.5



AIR DISTRIBUTION (GRAU)

**AIR DISTRIBUTION (GRAU)**

part number	capacity (litres)	diameter (mm)	full length (mm)	length between ridges (mm)	no. of side ports	no. of end ports	standard	note
030 1003 9612C	100	396	906	677	1	3 (1+2)	EN286-2	
030 1020 615C	10	206	356	225	1	3 (1+2)	EN286-2	
030 1520 615C	15	206	535	404	1	3 (1+2)	EN286-2	
030 2024 615C	20	246	505	354	1	3 (1+2)	EN286-2	
030 2524 615C	25	246	599	444	1	3 (1+2)	EN286-2	
030 3024 615C	30	246	730	575	1	3 (1+2)	EN286-2	
030 3030 014C	30	300	501	314	1	3 (1+2)	EN286-2	
030 4027 615C	40	276	745	576	1	3 (1+2)	EN286-2	
030 4031 013C	40	310	617	440	1	3 (1+2)	EN286-2	
030 512 515D	5	125	490	386	1	2 (1+1)	EN286-2	
030 515 215A	5	152	356	260	2	2 (1+1)	EN286-2	
030 515 215B	5	152	356	260	2	2 (1+1)	EN286-2	c/w welding bracket
030 520 615F	5	206	189	66	0	1	EN286-2	
030 6027 615C	60	276	111	942	1	3 (1+2)	EN286-2	
030 6031 013C	60	310	893	716	1	3 (1+2)	EN286-2	
030 6039 612C	60	396	571	342	1	3 (1+2)	EN286-2	
030 8039 612C	80	396	736	507	1	3 (1+2)	EN286-2	

**AIR DISTRIBUTION (GRAU)**



030 1003 9612C



030 1020 615C



030 1520 615C



030 4027 615C



030 6031 013C



030 6039 612C



030 8039 612C

## AIR DISTRIBUTION (GRAU)

part number	for air tank diameter (mm)	strap attached with	painted	note
003 000 809	206	2 nuts	no	
003 000 909	276	2 nuts	no	
003 001 009	246	2 nuts	no	
003 001 109	310	2 nuts	no	
030 200 109	206	1 nut and a hinge	no	
030 200 109F	206	2 nuts	yes	kit of 2
030 200 209	246	1 nut and a hinge	no	
030 200 309	276	1 nut and a hinge	no	
030 200 309F	276	2 nuts	yes	kit of 2
030 200 409	310	1 nut and a hinge	no	
030 200 409F	310	2 nuts	yes	kit of 2
030 200 609	396	1 nut and a hinge	no	
032 400 001S	246	2 nuts	yes	kit of 2
032 500 001S	396	2 nuts	yes	kit of 2



003 000 809



003 000 909



003 001 009



003 001 109



030 200 109



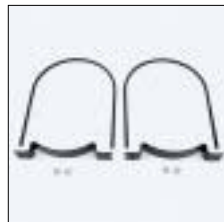
030 200 109F



030 200 209



030 200 309



030 200 309F



030 200 409



030 200 409F



030 200 609



032 400 001S



032 500 001S

MISCELLANEOUS



Shock Absorber

Water Pump

Hydraulic Reservoir

Leak Detection Spray

part number	description
009 002 509	Test Hose
009 405 709	Test Hose; length: 10m; black; plastic; c/w fittings
025 033 409	Protection Cover; for manometer
035 005 609	Shock Absorber
035 014 609	Main Cylinder
050 001 909	Plug; M26x1.5
065 000 109	Hose; 13x25; length: 50m; DIN 74310
065 000 109/40	Hose; 13x25; length: 40m; DIN 74310
065 001 009/40	Hose; 11x18; length: 40m; DIN 74310
073 0501 090	Brake Hose; 19x9.5; length: 40m
330 90 001	Hydraulic Reservoir; brake fluid; 40 cubic inches; w/o fluid level sight gauge; Terex; (N2769H)
531 040 001	Rotary Distributor; top type; 6 way; medium: air; ports: M14; pipe length: 395mm
531 049 021	Rotary Distributor; air 5/hydr 1 way
531 049 041	Rotary Distributor; air 5/hydr 1 way
532 132 011	Rotary Distributor; multiple way
905 002 001	Leak Detection Spray
FLEX6X12MMTR	Test Hose; length: 50m; 6x12mm
N4400EK	Manifold Dash Valve; combined trailer & tractor air supply brake control; USA
RW1162X	Water Pump; for Caterpillar 3208 Engine; remanufactured
RW1194	Water Pump; for Caterpillar 3406B/C Engine
RW4009X	Water Pump; for Caterpillar 3176 Engine; remanufactured



009 405 709

025 033 409

035 005 609

035 014 609

050 001 909

065 000 109



073 0501 090

330 90 001

905 002 001

FLEX6X12MMTR

RW1194

RW4009X

## MISCELLANEOUS



O-ring

Washer

Repair Kit

part number	description
011 085 109	Housing; for Rotary Distributor (531025121)
016 258 009	Rotor; for Rotary Distributor
022 0503 090	O-ring
024 002 609	O-ring
024 002 909	O-ring
024 003 009	O-ring
024 003 409	O-ring
024 003 709	O-ring
024 004 609	O-ring
024 004 809	O-ring
024 005 109	O-ring
024 005 809	Washer; for Nut; watertight
024 006 609	O-ring
024 006 809	O-ring
024 008 009	O-ring
024 009 709	O-ring
024 010 209	O-ring
024 011 209	Washer; for Nut; watertight
024 013 509	O-ring
024 013 709	O-ring
024 015 109	Washer; for Nut; watertight
024 016 309	O-ring
024 023 909	Washer; for Nut; watertight
024 024 809	O-ring
024 030 709	O-ring
024 031 409	O-ring
024 040 509	O-ring
024 041 709	Gasket
024 055 209	O-ring
024 063 409	O-ring
024 072 309	O-ring
025 037 909	Filter; for Solenoid Valve (003055109/ 338051011 & ..012/ 360009141)
025 040 209	Sealing Plate; for Rotary Distributor; 7 holes; watertight
025 040 509	Sealing Plate; for Rotary Distributor; watertight
025 040 609	Sealing Plate; for Rotary Distributor; 8 holes; watertight
025 062 209	O-ring Kit
038 000 619	Valve End Connector; for Test Hose
054 001 309	Washer; aluminium



016 258 009



025 040 209



025 040 509



025 040 609



025 062 209



054 001 309

**MISCELLANEOUS**

part number	description
054 001 409	Washer; M12x15.5; aluminium
054 002 309	Washer; M16x20; aluminium
054 002 409	Washer; M16x22; copper
054 002 909	Washer; M22x27; aluminium
054 003 009	Washer; M22x27; copper
054 010 409	Washer; M14x20; copper
056 007 409	Split Pin; for Drawbar (GHE); DIN 94 4X25-ST-A3C
058 010 709	Steering Ring; for Drawbar
376102	Banjo Bolt; for Hydraulic Fitting
378763	Sealing Washer; for Hydraulic Reservoir; rubber
684 700 20	Adapter; for Hydraulic Fitting; 3-way
950 531 001	Repair Kit; for Rotary Distributor (531021...)
950 531 005	Repair Kit; for Rotary Distributor (531019...)
950 531 010	Repair Kit; for Rotary Distributor (531025.../ 531031...)
950 531 012	Repair Kit; for Rotary Distributor (531040...)
950 531 013	Repair Kit; for Rotary Distributor (531033011)
950 531 014	Repair Kit; for Rotary Distributor (531028001)
950 531 015	Repair Kit; for Rotary Distributor (531034.../ 531035...)
950 531 016	Repair Kit; for Rotary Distributor (531050...)
950 531 017	Repair Kit; for Rotary Distributor (531049021-041)
950 532 005	Repair Kit; for Rotary Distributor (532021001)
950 532 009	Repair Kit; for Rotary Distributor (532030001)
950 532 011	Repair Kit; for Rotary Distributor (532036.../ 532074...)
950 532 014	Repair Kit; for Rotary Distributor (532042.../ 532043.../ 532047.../ 532063.../ 532070.../ 532084...)
950 532 015	Repair Kit; for Rotary Distributor (532044.../ 532045.../ 532048-532060.../ 532064.../ 532071-532075.../ 532085.../ 532105.../ 532115...)
950 532 019	Repair Kit; for Rotary Distributor (532040...)
950 532 022	Repair Kit; for Rotary Distributor (532078.../ 532212...)



054 001 409



054 002 309



054 002 409



054 002 909



054 003 009



054 010 409



056 007 409



058 010 709



376102



378763



684 700 20



950 531 001



950 531 005



950 531 013



950 531 014



950 531 015



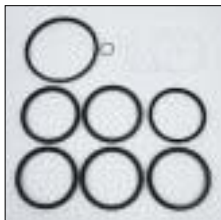
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950 532 005



950 532 009



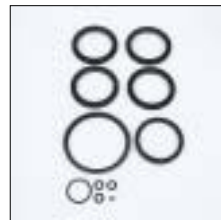
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950 532 015



950 532 019



950 532 022

## MISCELLANEOUS

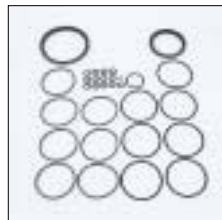
part number	description
950 532 023	Repair Kit; for Rotary Distributor (532081.../ 532119...)
950 532 024	Repair Kit; for Rotary Distributor (532081011)
950 532 026	Repair Kit; for Rotary Distributor (532053...)
950 532 029	Repair Kit; for Rotary Distributor (532082.../ 532112...)
950 532 032	Repair Kit; for Rotary Distributor (532106/ 532124...)
950 532 037	Repair Kit; for Rotary Distributor (532103/ 532146...)
950 532 039	Repair Kit; for Rotary Distributor (532142/ 532148...)
950 532 040	Repair Kit; for Rotary Distributor (532144111)
950 549 001	Repair Kit; for Support Cylinder (549008...); for excavator



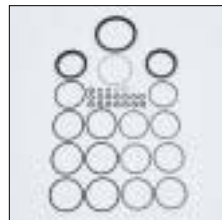
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950 532 024



950 532 026



950 532 039



950 532 040



950 549 001

Reference	Haldex A.M.	Page	Reference	Haldex A.M.	Page	Reference	Haldex A.M.	Page	Reference	Haldex A.M.	Page
00000/00004	0270510090	<b>172</b>	0004204424	340008001	<b>187</b>	0004297344	314013001	<b>142</b>	0007631010	361006201	<b>161</b>
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