



ManuMark



2021 January

Product Range

AIR BRAKE REPAIR KITS

WARNING

Air brake repair kits are potentially hazardous when not correctly assembled and fitted. For this reason, all air brake repair kits should only be fitted by qualified technicians with the necessary skill and expertise to ensure the repair kit's proper and safe operation.

ManuMark's air brake repair kits have been manufactured for use with unmodified OEM valves only.

ManuMark

**is a Level Four
B-BBEE Contributor**

Rubber Compounds and Their Common Uses:

Nitrile - Air

EPDM - Break Fluid

Viton - Mineral Oil

Silicone - Heat Applications



Certificate of Registration

This is to certify that
Quality Management System
 of

MANUMARK (PTY) LTD

32 Henwood Road, Pinetown, 3600,
 Kwa-Zulu Natal, South Africa.

complies with the requirements of

ISO 9001:2015

This certificate is valid concerning all activities related to:

The Sale of Air Brake Repair Kits.

ANZSIC Code: 3504

15658
 Certificate No.

Aug. 21, 2020
 Date of this Certificate

Aug. 20, 2021
 *Next Audit Due Date

Aug. 21, 2020
 Date of Initial Registration

Aug. 20, 2023
 Certification Expiry Date


 Managing Director/Director



TRANSPACIFIC CERTIFICATIONS LIMITED

Website : www.tclcertifications.com E-mail : info@tclcertifications.com
 Accreditation by Joint Accreditation System of Australia and New Zealand (Accreditation No. S2640303IN)
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This certificate is only valid if it is available/valid on TCL website at <http://tclcertifications.com/client-register/>.

The certificate of Registration remains the property of Transpacific Certifications Limited and shall be returned immediately upon request.
 *In case if Surveillance/Recertification Audit is not allowed to be conducted on or before the specified date; the Certificate shall be Suspended/Withdrawn.

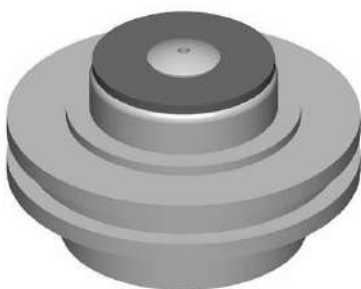
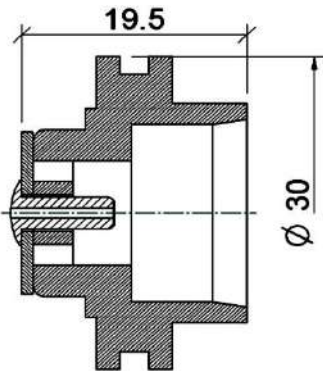


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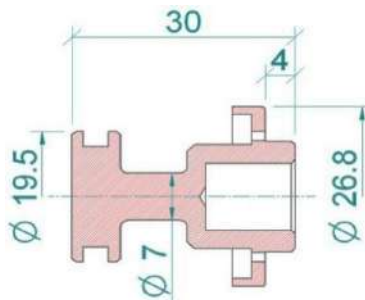
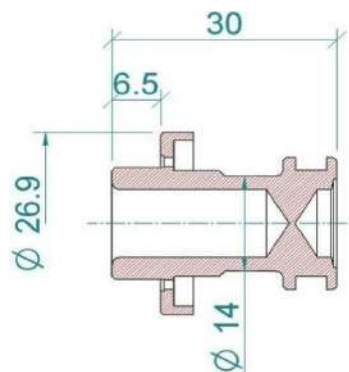
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~ Please refer to the Index at the rear of the catalogue ~

ManuMark (Pty) Ltd
Manufacturing & Marketing

Outlet Check Valve Kit (for MM33066 & MM33066/1)		MM1845
 (1 per Kit)	<u>NOTE:</u> THIS ITEM IS ANODISED ALUMINIUM	
KNORR Air Dryer Adaptor (M39/M30)		MM2579
	FOR SCANIA ALLOWS USE OF COMMON STANDARD AIR DRYER CANISTER IN PLACE OF SPECIAL DEDICATED ORIGINAL PART	
WABCO Air Dyer Adaptor (M24/M39)		MM2579-1
	COURSE THREAD ALLOWS USE OF COMMON STANDARD AIR DRYER CANISTER IN PLACE OF SPECIAL DEDICATED ORIGINAL PART	
KNORR BREMSE Air Dryer For DAF		MM3025
	LA 8130	



WABCO Air Dryer		MM22311/1
	VALVE No. 432410 0002	
	ALTERNATE PART NUMBERS A.S.A. 5698 OLD TYPE LOW PRESSURE (EXCLUDES AIR DRYER CANISTER)	
WABCO ACTROSS Air Dryer		MM22311/3
 INCLUDES O-RINGS	PART No. 932 400 0010 932 400 0030 Multi Circuit 932 400 0240 Axor/Volvo/Actros ONLY 8 Bar For Circuit Protection See MM33134 Piston for kit: MM22311/5 (not included)	
Piston For MM22311/3		MM22311/5
		
Piston for WABCO Air Dryer (AXOR)		MM22311/6
	VALVE No. 932 4000 240 (MM22311/3)	

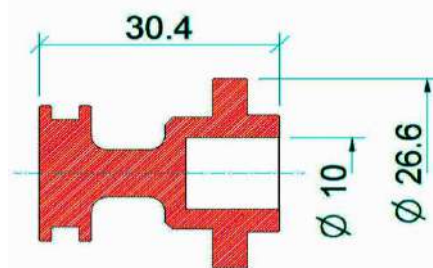
Piston for WABCO Air Dryer

MM22311/7



PART No.
ASA 7070

NEW TYPE
HIGH PRESSURE



Kit for WABCO Air Dryer

MM22311/7A



PART No.
ASA 7070

Repair all valves from
432410 0080 to 432421 0080

High Pressure *

SCANIA
2300777

BUS 9325100100 MultiCircuit

BOSCH Air Dryer

MM33041

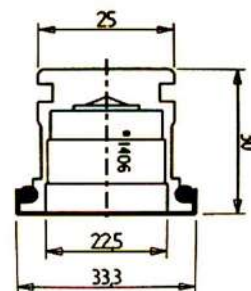


VALVE No.
0484 460 007

ALTERNATE PART NUMBERS
BOSCH: 1487 010 139

(EXCLUDES AIR DRYER CANISTER)

* USE UNLOADER KIT



KNORR Air Dryer (Without Unloader)

MM33065

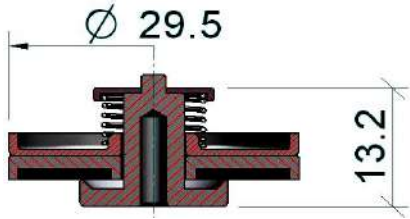


VALVE No.
1 85139/0051
LA 6700/07/11/30/34

661035

(EXCLUDES AIR DRYER CANISTER)



KNORR Air Dryer (With Unloader)		MM33065/1
	VALVE No. 1 851039/0051 LA 6200 LA 6221 LA 8234 611620 631035 (EXCLUDES AIR DRYER CANISTER)	
		MM33066
	VALVE No. 432 413 0010 432 413 0030 (EXCLUDES AIR DRYER CANISTER)	
ROCKWELL / INTERNATIONAL EAGLE (Major Kit)		MM33066/1
	VALVE No. 432 413 0010 432 413 0030 (EXCLUDES AIR DRYER CANISTER)	
Regeneration Poppit Valve		MM33066/2
	To use with: MM33066 MM33066/1	

BENDIX AD9 Air Dryer

MM33086



VALVE No.

5004336

For Check Valve see MM33086/1

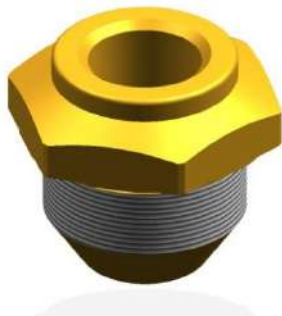
611001 FILTER

611002 PURGE VALVE

(EXCLUDES AIR DRYER CANISTER)

KNORR BREMSE AD9 Check Valve

MM33086/1



PART No.

#107800

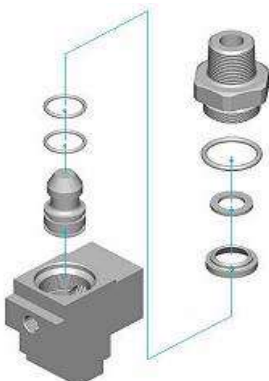
For Air Dryer see MM33086

BENDIX 9800 INT AD9 Airdryer

MM33086/2



Economy Valve Kit



Economy Valve Kit

Economy Valve Complete

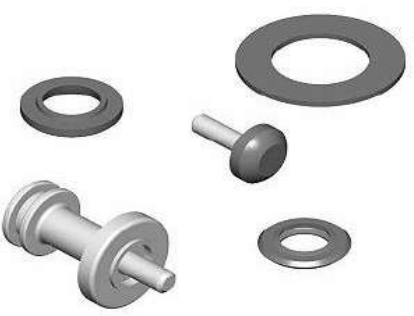
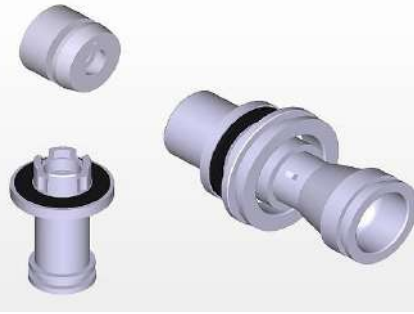
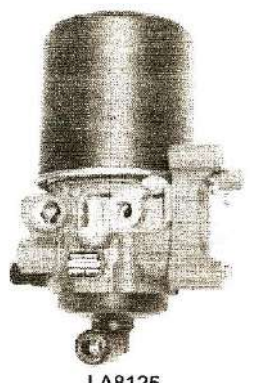
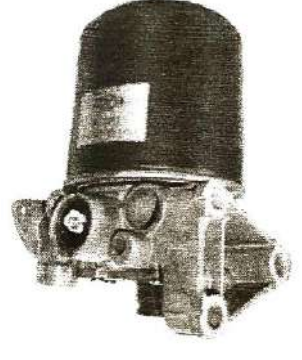
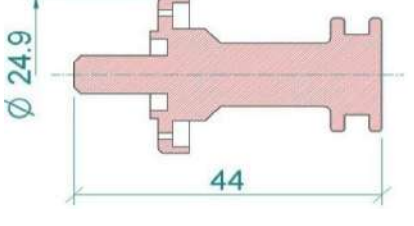
MM33106

MM33106/1

VALVE No.

3558564



KNORR Air Dryer		MM33137
 Includes Springs & O-rings	KIT No. LA 8063 Volvo LA 8207 LA 8211 LA 8234 LA 8271 LA 8509 611 620 Comes with unloader	
D.A.F. Air Dryer (Safety Valve Preset for 13 Bar Max)		MM33151
 Includes Springs & O-rings	LA 6147 LA 8124 IVECO LA 8125 LA 8130	 LA8125
KNORR BREMSE Air Dryer (TEGO)		MM33171
 Includes O-rings	VALVE No. LA 9001 LA 9011 611007-M ACTROS / ATEGO / AXOR Comes with Unloader	 LA9002
KNORR BREMSE Air Dryer		MM33185
	VALVE No. LA 8047 LA 8061 LA 8063 LA 8073 RENAULT	

AD-IS BENDIX Int Airdryer		MM33215
	VALVE No. KO 38530	
ISUZU NABCO FTR 800 850 F Series		MM33216
	Includes Filter Discs DR5	
WABCO Airdryer (HINO)		MM33218
	VALVE No. 4324150150	



Hydraulic Piston for Airmaster



23.8mm	234-11518
25.4mm	233-11501
26.7mm	234-11503
29.0mm	234-11510

Airmaster



Shaft = 13.0mm Piston = 115mm Single	MM33012
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Single/Major 9323-01841 9323-0185 Related Piston 233-11501 (not included)
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Shaft = 13.0mm Single (Minor Kit)	MM33021
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Shaft = 13.0mm Piston = 115mm Double	MM33027
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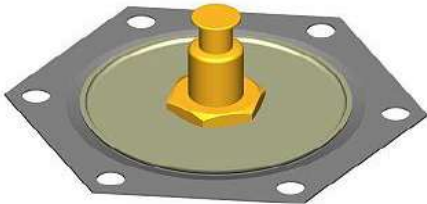
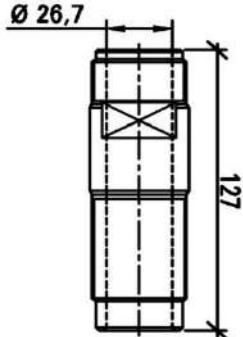
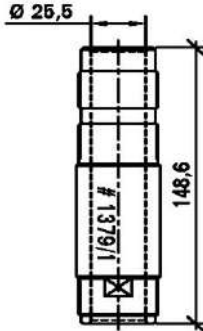
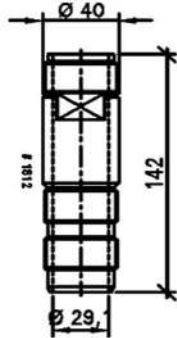
Related Piston 233-11501 (not included)



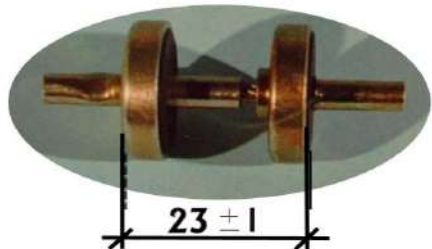
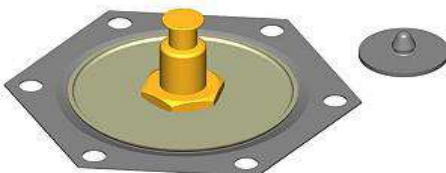
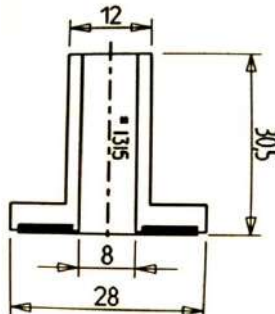
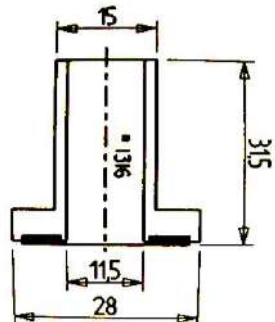
Shaft = 14.5mm Piston = 115mm Single	MM33014
Major 9323-3031 ISUZU / JCR Related Piston 233-11501 (not included)	
Shaft = 14.5mm Single (Minor Kit)	MM33020
	
Shaft = 14.5mm Piston = 115mm Double	MM33015
Double Piston Major 9323-1575 ISUZU / JCR	
Shaft = 16.0mm Piston = 138mm	MM33040
TOYOTA / DAF / FG Series / NISSAN Related Piston 234-11503 (not included) Relay Kit Included (normal piston) No Poppit & No Diaphragm Assembly See MM25026 for Poppit Assembly See MM1812 for 29mm Cylinder See MM1906 for HINO Bull Nose with Quick Release	



Shaft = 16.0mm Piston = 138mm (Modified)		MM33040/1
Airmaster contains NO quick release/relay valve Comes with Poppit Relay NOT included		
Quick release for MM33040/1		MM33040/2
Shaft = 18.5mm Piston = 138mm		MM33016
Related Piston 234-11501 (not included)		
Airmaster Shaft = 18.5mm Piston = 138mm Hex Relay		
		MM33013
		MM33013/1

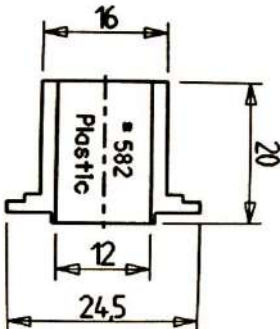
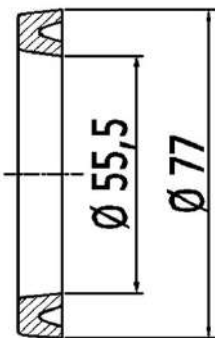
Diaphragm Assembly (138 x 18.5 Hex)		MM33013/2
		
Airmaster Hydraulic Master Cylinder (26.7mm Bore)		MM1379
		
Airmaster Hydraulic Master Cylinder (25.5mm bore)		MM1379/1
		
29mm Clutch Cylinder (29mm Bore)		MM1812
	See MM33040 for Airmaster Kit	



Airmaster Poppit Valve Assembly		MM25026
 23 ± 1 ASSEMBLY POSITION		
Airmaster Relay Valve		MM33018
 INCLUDES O-RINGS		
Airmaster Relay Valve		MM33019
		
ISUZU F8000		
	Shaft = 16.0mm Piston = 138mm Shaft = 16.0mm Piston = 115mm	MM33032
	HINO CH12 HINO 235-06570 HINO 44640-2900 ISUZU OEM 1-85576-1670 JCC 234-06521 J.K.C. - MM33032 NABCO 47250-225007 UNITE 234-0555/47800-396	MM33032/1

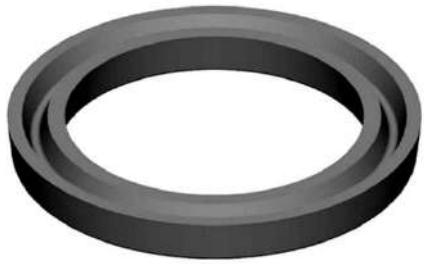
Airmaster ISUZU FTR 800 16mm Shaft		MM33202
	138mm Piston 1-47800-664 236-04159 Includes O-Rings & Oil Seals	
TOYOTA HINO 500 Airmaster		MM33213
	236-02607 236-02645 4464-03291 # 9323 - 3811 Brake Fluid Shaft Size = Ø 12mm Pot Size = Ø 115mm	



BOSCH Brake Servo 180mm		MM22267/1
	VALVE No. 048 300 4701 Main Seal KNORR BREMSE Part Number 1488705044 NOT INCLUDED MERCEDES	
Does not include big main piston		
WABCO Air Pack 3"		MM22432
	VALVE No. 710552 GA 29149 Does not include Main Seal See MM22432/1	
WABCO Air Pack 3" Main Seal		MM22432/1
	KIT No. 710175/1 Seal & Felt Strip only For full kit see MM22432	
Includes Felt Strip		
WABCO Air Pack 4"		MM22433
	VALVE No. 710 621 710 655 ALTERNATE PART NUMBERS: WABCO: GA 29149 Does not include Main Seal See MM22433/1	

WABCO Air Pack 4" Seal

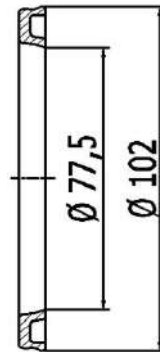
MM22433/1



Includes Felt Strip

KIT No.
710176/2

Seal & Felt Strip only
For full kit see MM22433



BOSCH Brake Servo

MM33115

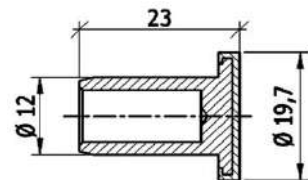


INCLUDES OIL SEALS & O-RINGS

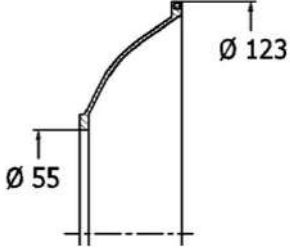
VALVE No.
0483 003 014/7/8/9

ALTERNATE PART NUMBERS:
1 487 010 194

Only Air Side
Seal not included





Calliper Boot		MM2804
		
TWIFLEX Dust Boot EPDM		MM2249
	OD = 95 ID = 43 Height = 16 BRAKE FLUID	
TWIFLEX Seal EPDM		MM2249/1
	OD = 91.3 ID = 81.3 Height = 4.6 BRAKE FLUID	
TWIFLEX Seal (MINERAL OIL)		MM2249/2
	OD = 83 to 84.5 ID = 65.5 Height = 6.5 FOR TWIFLEX 600262 CALLIPER	

TWIFLEX Seal (BRAKE FLUID)		MM2249/2B
	OD = 83 to 84.5 ID = 65.5 Height = 6.5 FOR TWIFLEX 600262 CALLIPER	
CALIPER SEAL KIT FOR MM3621 PISTON		MM3621/1
	HH6 M0 306-2050 R2- 3ACIV00283-0119	
BELL Calliper Seal Kit		
 INCLUDES O-RINGS 4 Off Each Item	Mineral Oil (VOLVO)	MM33089
	Brake Fluid	MM33089B
	(88 x 85.5 x 79 x 2) ROCKWELL For Pistons see MM33089/1 (1 Kit for 4 Pistons)	
Calliper Seal Kit		
 INCLUDES O-RING 2 Off Each Item	Mineral Oil	MM33095
	Brake Fluid	MM33095/B
	BELL CALLIPER KNOTT For Pistons see MM33095/1 1Kit does 2 Pistons	



TCM 4 Cyliner Seal Kit

MM33101



TCM Calliper for Cylinder Seal Kit

MM33107



4 Off Each Item

SPN 008901
(Brake Fluid)

MERITOR (Full Kit)

MM66001



DSB 104

MERITOR (Minor Kit)

MM66001/1



DSB 104
P - 041102

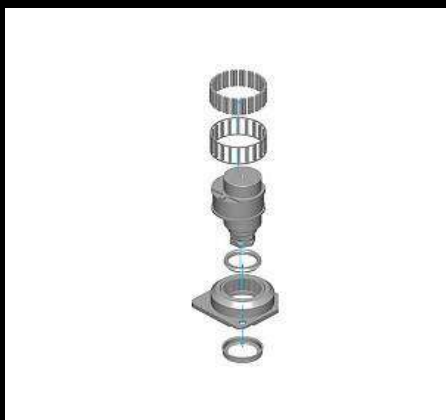
MERITOR (Seal Kit)

MM66001/2



POWERLINE (MERITOR Roller/Cam Kit)

MM66001/3



POWERLINE (MERITOR Kit)

MM66001/4



KNORR BREMSE

MM66002

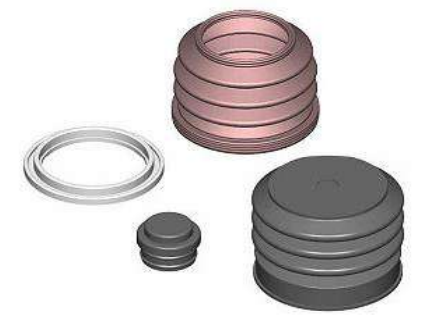


KIT No.
K 000 944
Old Generation

Base of Tappet = Ø 68 mm

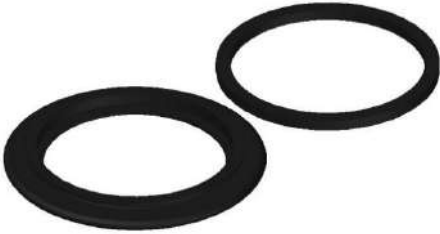
2 Off Each Item

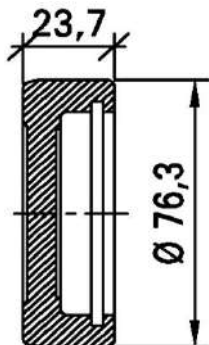
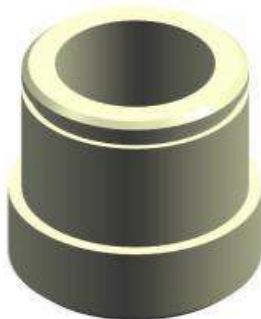
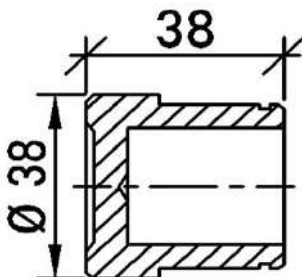
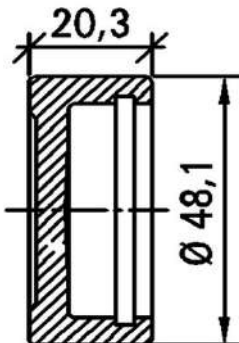
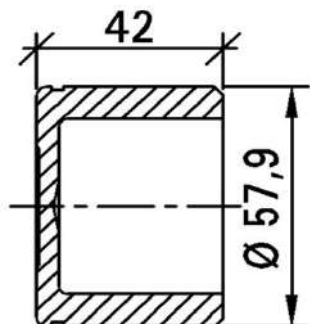


KNORR BREMSE		MM66003
	KIT No. II 328090062 MAN TGA	
KNORR Calliper Minor		MM66003/1
 1 Off Each Item		
Sliding Guide Repair Kit		MM66004
 1 Off Each Item	KIT No. 09.801.06.11.0 RS SB 3745/4345	
KNORR BREMSE Caliper (ACTROSS)		MM66005
	NP1 (Old Generation) AXOR Base of Tappet = Ø 68 mm	

MAN LUCAS Calliper Sevice Kit		MM66007
Large Pin - 35mm x 135mm Small Pin - 35mm x 72mm		
ACTROS New Generation		MM66008
MM66008  #3059(1 off) #2653(1 off) #3051(1 off) #2652(2 off) #3062(2 off) #3063(2 off) #3055(1 off) #2654(1 off) #3057(1 off) #3060(1 off) #3058(1 off) #2658(1 off) L=114 L=80	NP3 ACTROS / AXOR / DAF Z 000 726 A9444 200 101 A 0141 - 7513 SCANIA 500: LH 1928820 & 1946327 RH 1928821 & 1946326 Base of Tappet = Ø 65.2 mm	
ACTROS New Generation (Soft Kit)		MM66008/1
	Base of Tappet = Ø 65.2 mm	
BELL Calliper Kit (Mineral Oil)		
 4 off each		
	MINERAL OIL	MM66009
	BRAKE FLUID	MM66009B
	BELL B17 / 20D 79 x 49 Piston 1 Kit does 4 Pistons	

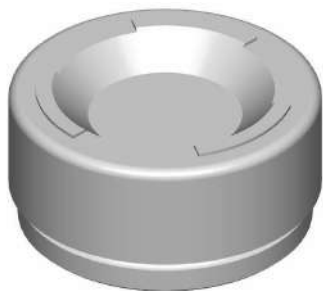
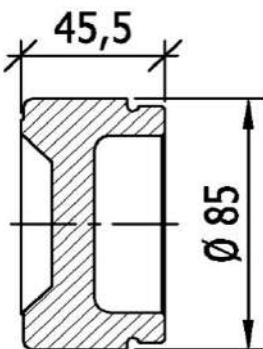
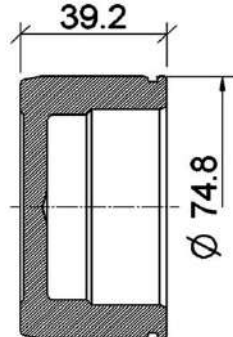
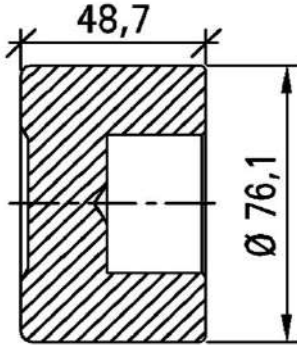
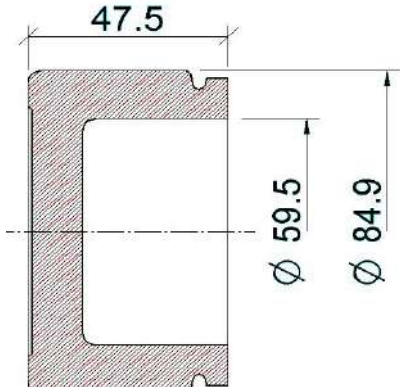


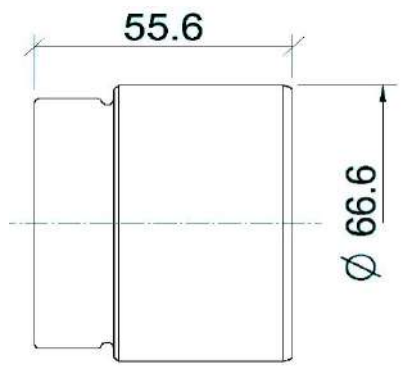
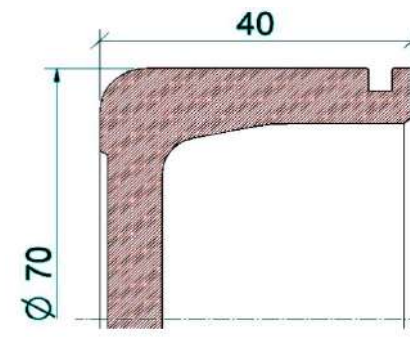
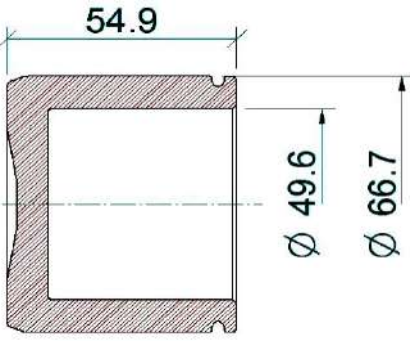
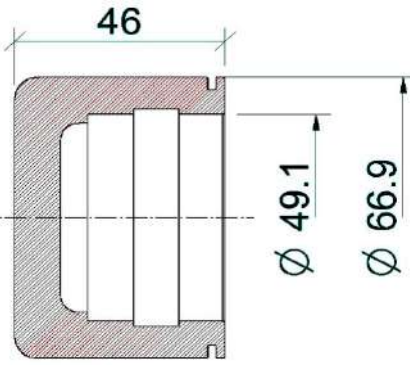
LIUGONG Calliper Kit (Brake Fluid)		MM66010/B
 4 off each Includes O-rings	78.5 OD x 68.5 ID x 3.7 Thick #CLG-SP103881 (NO Piston) Piston Dimensions: Ø 70 OD x 40 High with Lip Piston MM66010/1 on Request 1 Kit does 4 Pistons	
Seal Kit for FURUKAWA/LUIGONG (Brake Fluid)		MM66011/B
 4 off each Includes O-rings	85 x 75 x 5 Square O-ring (Piston is MM3045) 1 Kit does 4 Pistons	

Calliper Main Piston (D=76.29; L=23.7)		MM1975/1
		
Calliper Inner Piston (D=38; L=38)		MM2051
		
Calliper Main Piston (D=48; L=20.3)		MM2058
		
Calliper Inner Piston (D=58; L=42)		MM2061-4
		

CALLIPER PISTONS



BELL Calliper Piston (D=85 x 45)		MM2781
	KNOTT Calliper BELL B35D B40D KIT 33095	
FURUKAWA Piston (74.8x39.2)		MM3045
	Goes with MM66011/B	
Calliper Main Piston (D=76.1; L=48.7)		MM33089/1
	BELL B30 BELL B25 (218439) For Kit see MM33089 or MM33089/B (4 Pistons per Kit) ROCKWELL	
Calliper Main Piston (D=85; L=47)		MM33095/1
	BELL CALLIPER For Kit see MM33095 or MM33095/B	

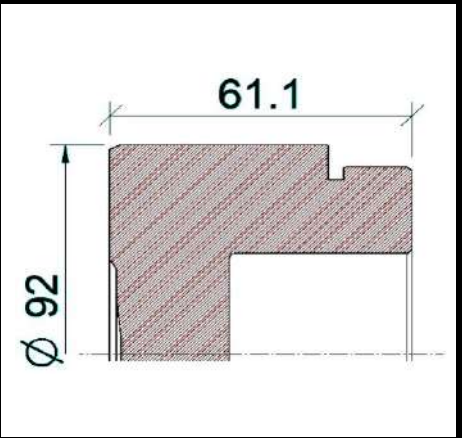
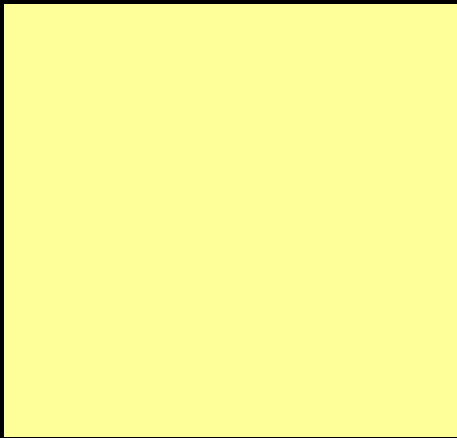
MERITOR Piston Assembly (D=66.6)		MM66006
		
LIUGONG Calliper Piston (70x40)		MM66010/1
		
Calliper Piston (D=66.7 x 54.9)		MM3621
	(SEE MM3621/1 FOR THE SEAL KIT)	
Calliper Piston (D=67 x 49 x 46)		MM3658
		

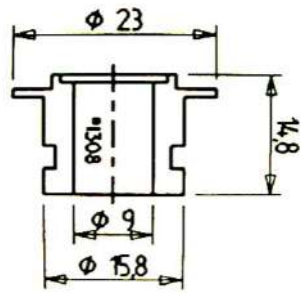
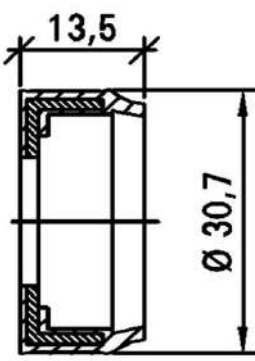
CALLIPER
PISTONS



Calliper Piston (D=92 L=61.1)

MM3830



Slotted Plastic Ring	MM1680
	For MM22288 & MM22288/1
KNORR 4 Circuit	MM22288
	VALVE No. AE 4158/69/70/78/86 ALTERNATE PART NUMBERS KNORR: I 70615/0051 I 81171-Major W/H: 639005-M
KNORR 4 Circuit c/w Piston	MM22288/1
	VALVE No. AE 4158/69/70/78/86 
BOSCH 4 Circuit Valve	MM22289
	VALVE No. 0481 062 005 ALTERNATE PART NUMBERS BOSCH: 1487 010 236 W/H: 69004-M 

PROTECTION VALVES



BOSCH 4 Circuit (5 Port)

MM22290



VALVE No.
481 062 201

ALTERNATE PART NUMBERS:

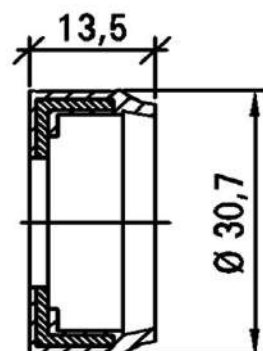
BOSCH: 1487 010 237

W/H: 639003-M

1729 MERC POWER LINER 22mm

NISSAN UD440 NABCO

1845-110702-9702 VOS



BOSCH 4 Circuit (7 Port)

MM22330

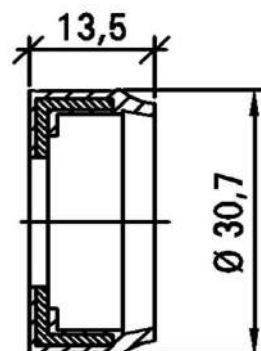


VALVE No.
0481 062 104/5

ALTERNATE PART NUMBERS

BOSCH: 1487 010 234

W/H: 639002-M



WABCO 4 Circuit

MM22499



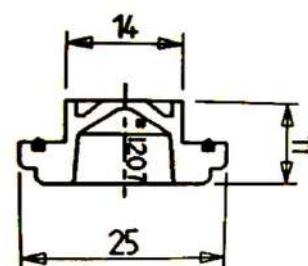
VALVE No.
934 702***0

ALTERNATE PART NUMBERS

WABCO: 934 702 005 2 / 3000/3500

A.S.A. 5394

W/H: 639001-M



WABCO 4 Circuit

MM22499/1



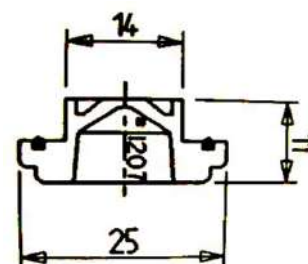
VALVE No.
934702 100 0

7 Port

ALTERNATE PART NUMBERS

WABCO: 934 702 001 2

A.S.A. 5393

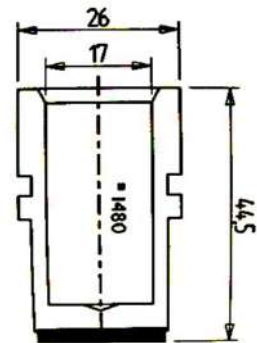


ISUZU 4 Circuit

MM33043



HINO / ISUZU



BENDIX 4 Way Protection Valve

MM33079

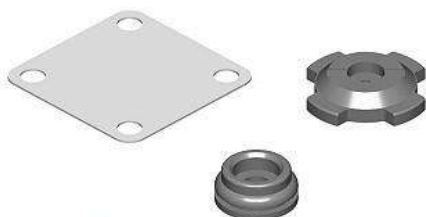


VALVE No.
KY 1671/1

Loose seat is for port 24

MAGNETT MARELLI 4 Circuit Protection

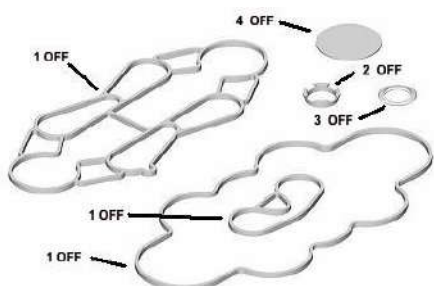
MM33084



QTY: 4 OFF EACH ITEM

KNORR BREMSE Circuit Protection Valve

MM33132



Includes O-rings

KIT No.
II 36253008
639011
ACTROS



PROTECTION VALVES



ACTROSS Circuit Protection Valve

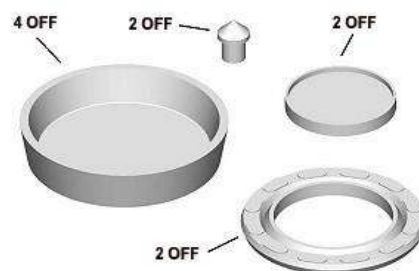
MM33134



VALVE No.
934 705 0050
932 50000 60 AXOR
932 50000 130

For Air Dryer Kit See MM22311/3

For Piston see MM33134/1



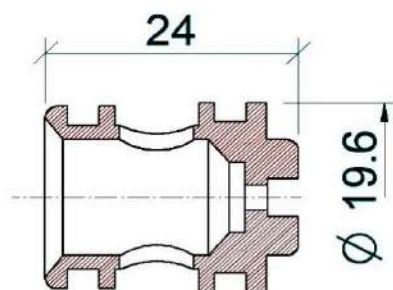
Includes O-Rings

Piston for MM33134

MM33134/1



For Main Kit See MM33134



Includes O-Rings

ACTROSS Circuit Protection Valve

MM33134/2

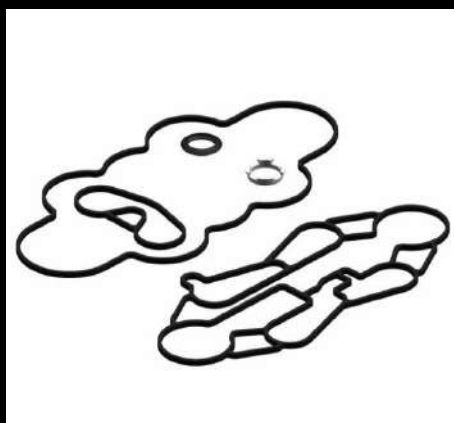


VALVE No.
934 705 010 0

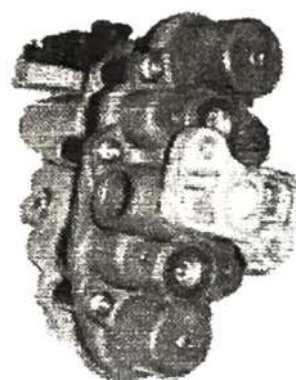


KNORR BREMSE 4 Way Circuit Protect

MM33141



VALVE No.
D.A.F. : AE4526
AE4528
IVECO : AE4502



KNORR 4 Way Protection Valve

MM33147



VALVE No.

AE 4603

AE 4608

AE 4609

AE 4613

AE 4625

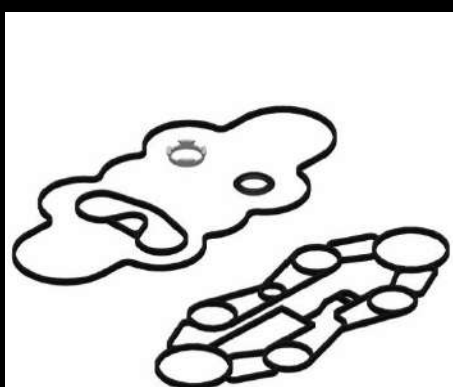
639005-M



Includes O-rings

KNORR Multi Circuit Protection

MM33169

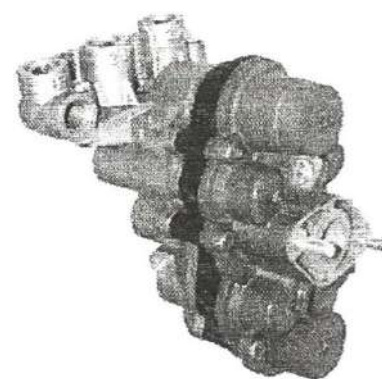


Includes O-rings

VALVE No.

AE4525 (IVECO/RENAULT)

639011



WABCO 4 Circuit Protection Valve

MM33176



LEYLAND/FORD/MAN

934 714 0030/0100

934 714 0280

VOLVO: 934 714 1450

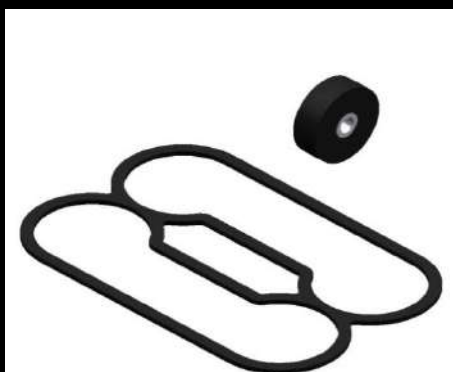
20755195

SCANIA: 138 1883

639012

KBREMSE/BENDIX 5 Port Protection Valve

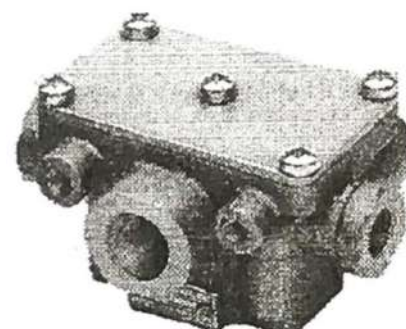
MM33186



PART No.

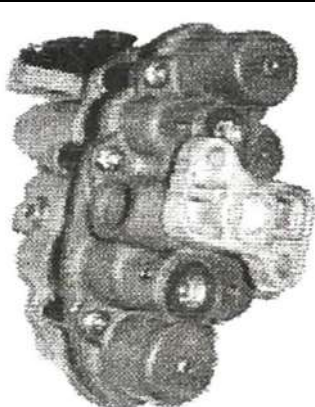
VPS 48 AI

MINOR KIT



PROTECTION VALVES



KBREMSE/BENDIX PISTONS FOR MM33186		MM33186/1
	PART No. VPS 48 AI PISTONS FOR MM33186	
KNORR Multi Circuit		MM33204
	ATEGO AE 4800 639005-M	 Includes O-Rings
Flaps for NISSAN QUON / UD 410		MM33210
	NISSAN QUON / UD 410	
KNORR 6 Way Protection		MM33211
	ACTROS AE 4510 AXOR All AE45xx Series 639011	

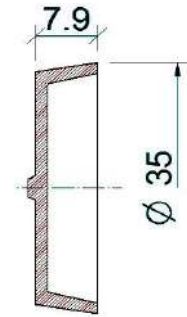


FOTON 4 Way

MM33212

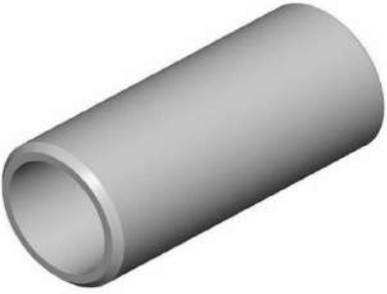
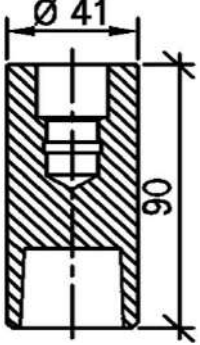
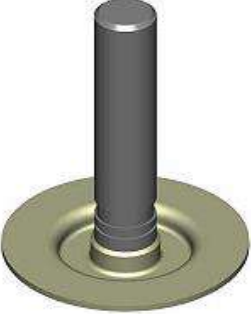
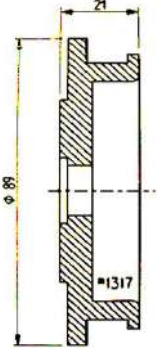
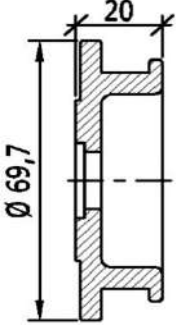


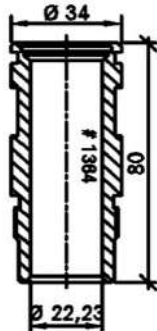
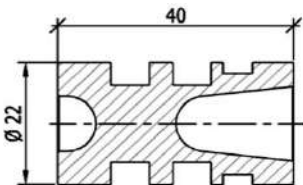
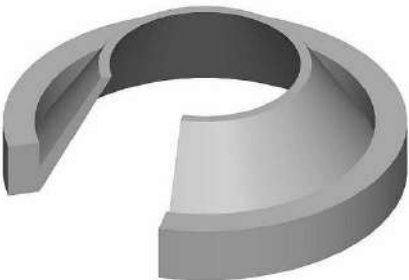
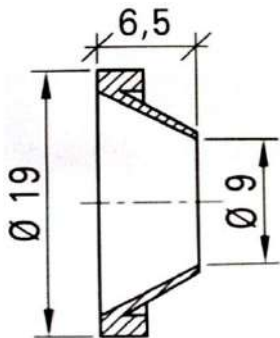
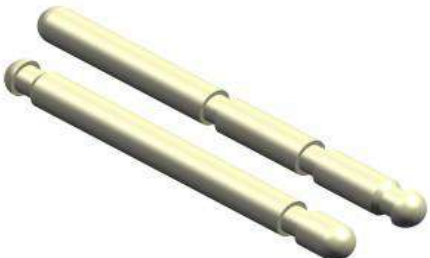
HINO
4457-01330/1
VOLVO
2122 5479
2122 3213 V
WABCO
934 7141 400



4 per Kit

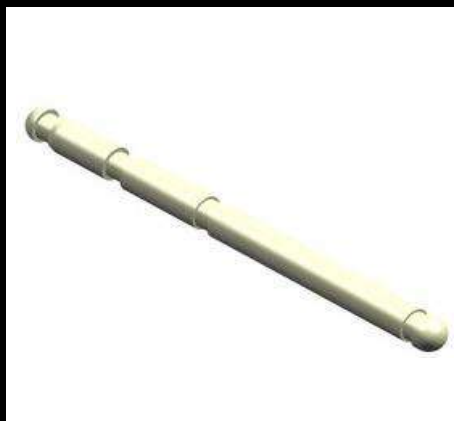


MERCEDES Clutch Servo Shaft		MM1199
		
Clutch Servo Shaft		
	L = 132mm	MM1278
	L = 147mm	MM1278/1
	L = 154mm	MM1278/2
Japanese Clutch Serve Air Piston (90mm)		MM1317
		
Complete with Shaft		
Japanese Clutch Servo Air Piston (70mm)		MM1319
		
Complete with Shaft		

Japanese Clutch Servo Master Cylinder (70 & 90mm)		MM1364
		
Japanese Clutch Servo Hydraulic Piston (70 & 90mm)		MM1383
		
Clutch Shaft Plastic Clip		MM1430
		
Clutch Servo Push Rod		
	L = 135	MM1537
	L = 150	MM1537/1
	L = 164	MM1537/2
	Boot for MM1537/2 see MM1964-1	



F90 Clutch Push Rod for MM33062



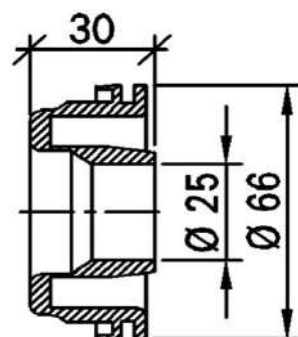
L = 180

MM1720

WABCO/MAN Plastic Piston for Clutch Servo



Goes with MM33038/1
& MM1278



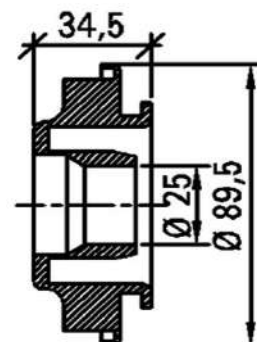
MM1850

WABCO F90 Plastic Piston for Clutch Servo



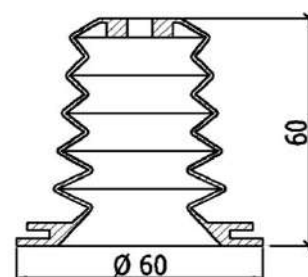
970 051 1320
ACTROS / MAN

For Kit see MM33062



MM1850/1

Boot for MM33038/1 & MM33062

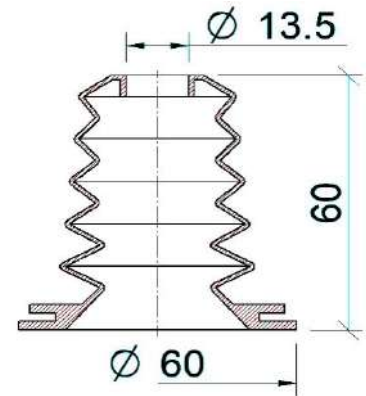


MM1964

Boot for MM1537/2 Push Rod



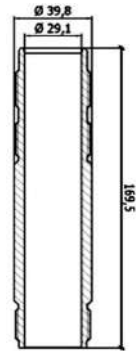
MM1964-1



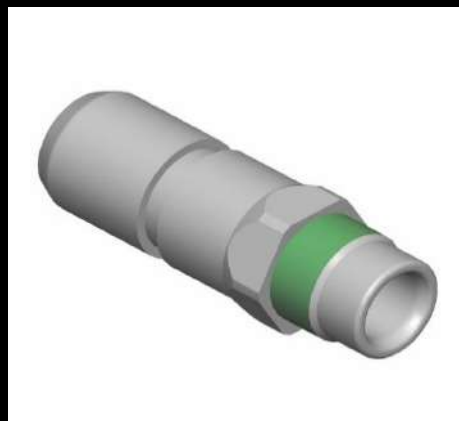
29MM Clutch Cylinder (L=170)



MM2704



TATA Clutch Servo Master Cylinder (105mm)



MM3052

WABCO Clutch Servo

MM22248



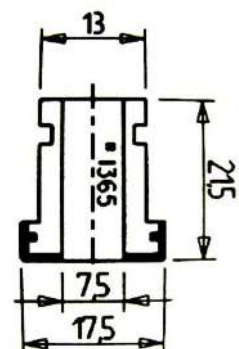
OLD GENERATION
VALVE No.

970 051 1130

ALTERNATE PART NUMBERS

WABCO: 970 051 002 2

W/H: 619023-M





WABCO Clutch Servo

MM22248/1



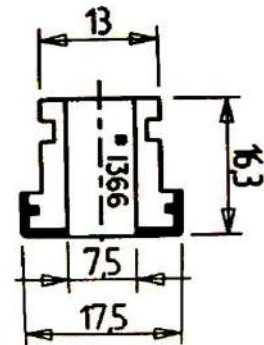
NEW GENERATION
VALVE No.

970 051 131 0

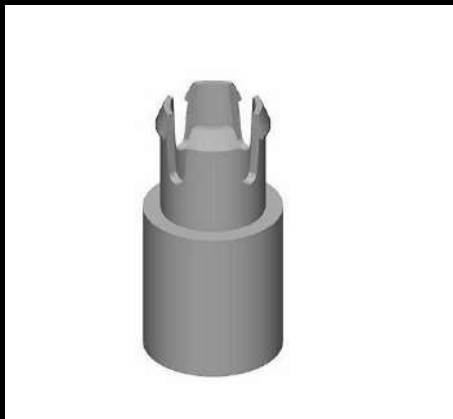
ALTERNATE PART NUMBERS

WABCO: 970 051 903 2

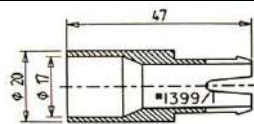
W/H: 619024-M



Snap Sleeve



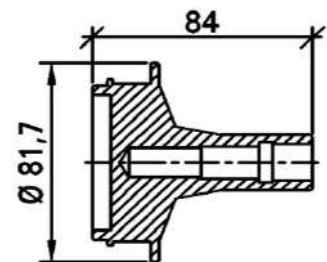
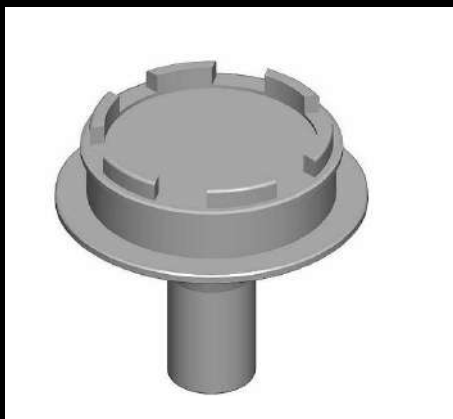
MM22248/2



MM22248/3

MERCEDES Clutch Servo Air Piston

MM22248/4



Japanese Clutch Servo (90mm)



See MM1383 for Piston

Aluminium
Cast iron

ALTERNATE PART NUMBERS:

9364-0393

A.S.A. 6560

W/H: 619002

MM33022

MM33022/1

Japanese Clutch Servo (70mm)



See MM1364 for Cylinder
See MM1383 for Piston

**Aluminium
Cast iron**

ALTERNATE PART NUMBERS:

9364-0385

A.S.A. 5922

W/H: 619001

MM33024

MM33024/1

WABCO Clutch c/w Servo Sleeve

MM33038/1



Plastic Piston - MM1850
Shaft - MM1278
Main Piston 80mm

970 051 111 0 MAN

970 051 114 0 HINO/FIAT

970 051 114 0 NISSAN/HINO

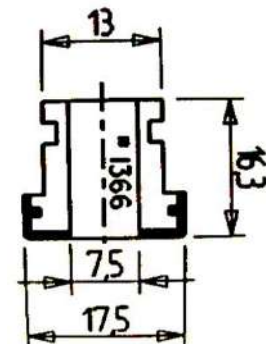
970 051 1260

ALTERNATE PART NUMBERS:

WABCO: 970 051 905 2

WABCO: 970 051 904 2

A.S.A. 5738,5739



KNORR BREMSE Clutch Servo

MM33053

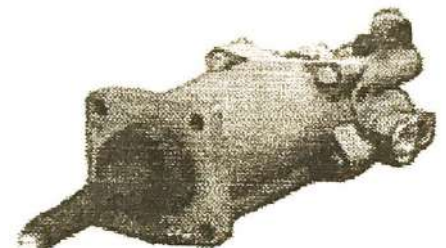


VALVE No.
VG 3151,3156

ALTERNATE PART NUMBERS:

KNORR: I 87912

I 87755/0051 Minor



WABCO Clutch Servo F90 Series

MM33062



108mm

VALVE No.

970 051 132 0

970 051 1630/40/50

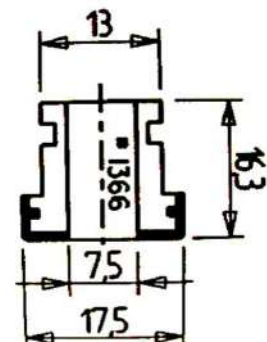
970 051 1760 HINO

970 051 1790 ATEGO

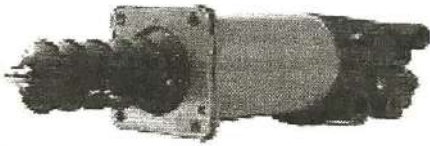
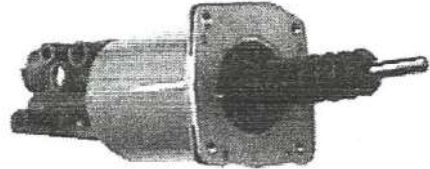
ALTERNATE PART NUMBERS:

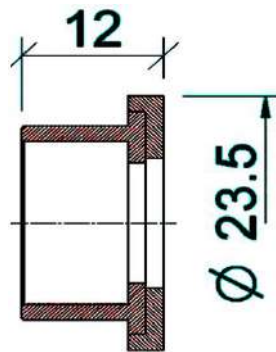
WABCO: 970 051 9112

WABCO: 970 051 9452

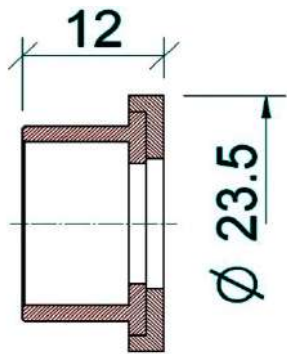




KNORR BREMSE Clutch Servo 75mm Piston		MM33113
 Includes O-rings	ALTERNATE PART NUMBERS: VG 3200 VG 3204 VG 3262 VG 3267 I-84613	
WABCO Clutch Servo M.A.N.		MM33130
 Includes O-rings & Circlips	KIT No. 462 012 002 2 VALVE No. 462 012 1010	
KNORR BREMSE Clutch Servo 100mm Piston		MM33133
 Includes O-rings	ALTERNATE PART NUMBERS: VG 3208 VG 3229	
MAN/ACTROS/HINO Clutch Servo		MM33138
 Includes O-rings	VALVE No. 970 051 307 0 970 051 414 0 970 051 4310 ACTROS 970 051 4230 370 051 4240 HINO PROFIA 700 (Cover Plates available MM33138/1 or MM33138/2)	108mm Pot

ACTROS Clutch Servo Cover Plate		MM33138/1
		
Plastic		
MAN Clutch Servo Cover Plate		MM33138/2
		
Plastic		
CLUTCH Servo for RENAULT KERAX		MM33142
	KIT No. 970 051 4150 970 051 9572 DONGFENG TRUCKS	
Includes O-rings		
KONGSBERG 100mm Clutch Servo (D.A.F. & VOLVO)		MM33152
	FUSO MITSUBISHI FV26-420	
Includes O-rings & U-seals		



TATA Clutch Servo (105mm)		MM33161
 Includes O-rings	(Japanese Unit Only) Does NOT fit in TATA NOVUS	
TATA NOVUS Double Diff Clutch Servo		MM33161/1
 Includes O-rings	For TATA NOVUS Only	
WABCO New Gen. Clutch Servo MAN		MM33162
	VALVE No. 970 0514060 970 051 4350 (For Cover Plate see MM33162/1)	
MAN Clutch Servo Front Cover		MM33162/1
 Plastic	970 051 4060 970 051 4350	

KONGSBERG Clutch Servo for VOLVO (100mm)

MM33170



Includes O-rings

Plastic Seat
VOLVO: 205245 84 629276

Clutch Servo NISSAN UD440



INCLUDES O-RINGS

8mm Shaft: 0064 205 4087
10mm Shaft (JKC Unit)

MM33173

MM33173/1

WABCO Clutch Servo (*Mineral Oil*)

MM33178



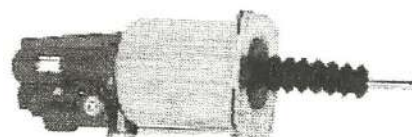
VALVE No.
970 051 4120 MAN / ATEGO
970 051 4410
AXOR

KNORR BREMSE Clutch Servo

MM33181



VALVE No.
VG3269
102mm Piston
Large Seal



Page 44

KONGSBERG Clutch Servo		MM33195
 Includes O-rings	SCANIA Part No. 1 513 717 KA 629683 619022-M Pot Size = 100mm	
Jap Clutch Servo J.K.C.		MM33206
 Includes O-Rings	FUSO 105mm NISSAN UD 390	



Compressor Relief Valves



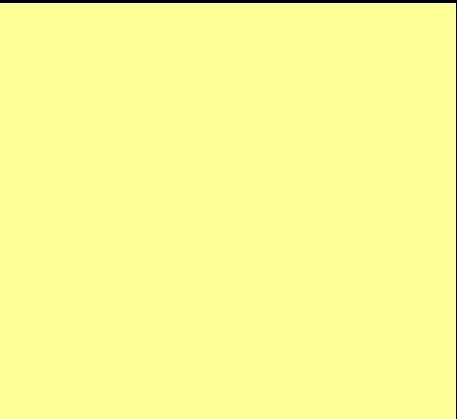
13 bars
15 bars
10 bars
17 bars

MM1815
MM1815/1
MM1815/2
MM1815/3

(Thread Size: M26 x 1.5)

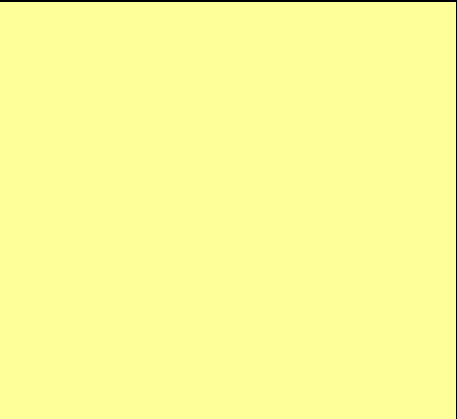
MERCEDES 352 Series (94mm Head Conversion)

MM44042/2



Compressor Intermediate Plate KZ407

MM44061

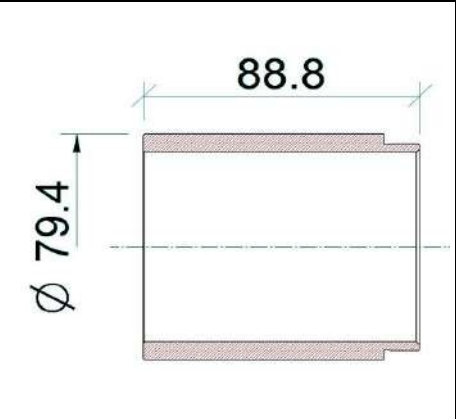


CLAYTON Compressor Barrel

MM44062



Matching Kits:
Air Cooled - MM44051
Water Cooled - MM44055





Compressor Gear Z = 20 ADE 407		MM44063
	Goes with MM44007	
Compressor Gear Z = 31 (FORD)		MM44064
		

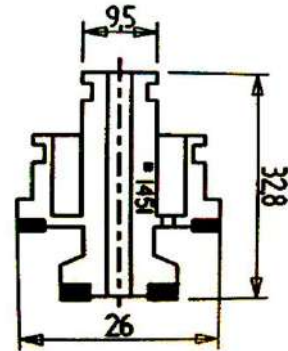


IVECO Foot Valve

MM1451



VALVE No.
DX52BY

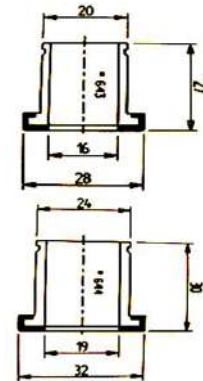


BENDIX E6 Dual Circuit

MM22226



VALVE No.
286171
T 5005182-A
ALTERNATE PART NUMBERS
A.S.A. 5754
W/H: 627021-M
E-6 TYPE Basic Valve (USA)
KOMATSU Foot Valve WA600

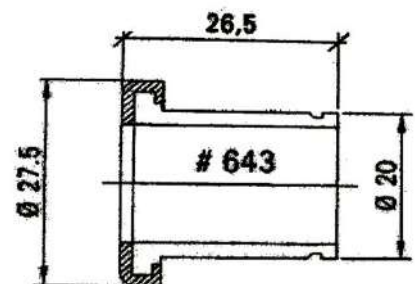


E6-T1 Dual Circuit NABCO

MM22226/1



ALTERNATE PART NUMBERS
1 48100 3975

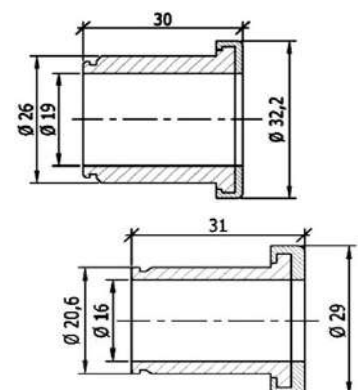


TOYOTA DA 110 Tipper

MM22226/2

Valve No.
241-01301

KIT NUMBER
93240153



BOSCH Dual Circuit

MM22249



VALVE No.
0481 064 007

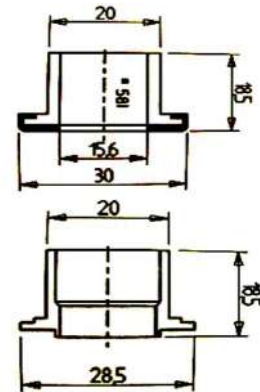
ALTERNATE PART NUMBERS:

BOSCH: 1487 010 178

A.S.A. 6363

W/H: 627020-M

461307



CLAYTON Dual Circuit

MM22291



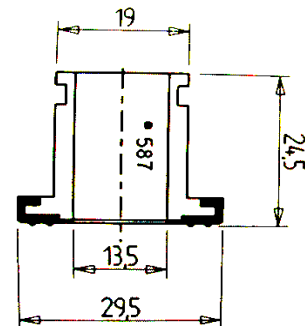
VALVE No.
APGA 6340 - APSA 4474
7406 A

ALTERNATE PART NUMBERS:

A.S.A. 5745

WABCO: GA 28627

W/H: 627019-M



CLAYTON Dual Circuit Foot Valve

MM22292

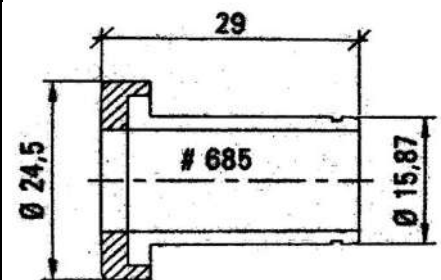


VALVE No.
APGA 63 25/6438
APGA 7447
APGA 6340 BELL

ALTERNATE PART NUMBERS

A.S.A. 5722

WABCO: GA 28752



BOSCH Dual Circuit

MM22297

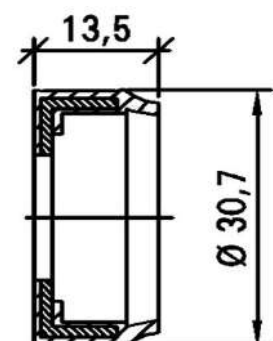


VALVE No.
0481 064 005
0481 064 206 (Powerliner)

ALTERNATE PART NUMBERS:

BOSCH: 1487 010 060

W/H: 627014-M



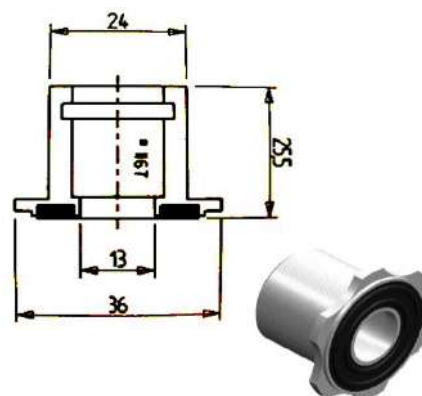


KNORR Dual Circuit

MM22298



VALVE No.
 MB 4630/49/54/57(DAF)/61/
 79/94(DAF)
 MB 4730
 MB 4805/15/20/25/26/28/33/36/49
 ALTERNATE PART NUMBERS:
 KNORR: I 83121
 W/H: 627013-M
 KB Valve MANDO MDFR02 H00681
 FH12 VOLVO 11736174 I89387/008
 (For Piston see MM22298/1)

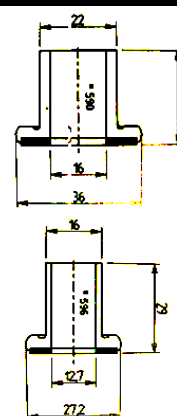


Japanese Dual Circuit

MM22405



VALVE No.
 SANWA SEIKI TB 2
 CK 41
 ALTERNATE PART NUMBERS
 41327-Z9001
 A.S.A. 5918
 W/H: 627010-M
 SMALL CLIP ON SHAFT

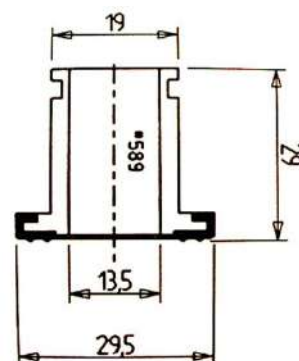


CLAYTON Dual Circuit (FORD D Series)

MM22411



VALVE No.
 APGA 6229
 APGA 7381
 ALTERNATE PART NUMBERS:
 A.S.A. 5746
 WABCO: GA 29155
 W/H: 627009-M

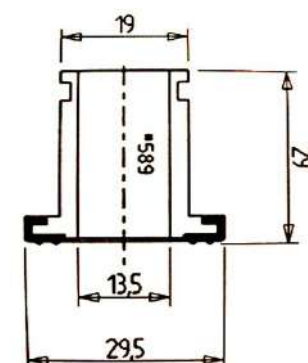


CLAYTON Single Circuit E2

MM22412



VALVE No.
 229800
 ALTERNATE PART NUMBERS:
 A.S.A. 5649
 WABCO: GA 29141
 W/H: 627008-M



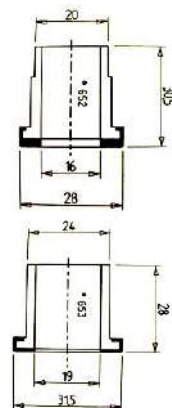
CLAYTON Dual Circuit (FORD CARGO)

MM22431

VALVE No.
BENDIX 269615

ALTERNATE PART NUMBERS:

W/H: 627007-M



E7 Dual Circuit

MM22451



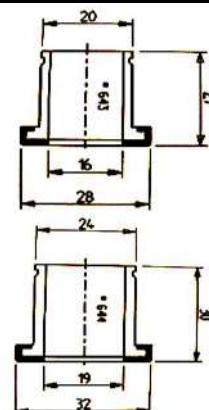
VALVE No.
286773
(Piston MM1579)

ALTERNATE PART NUMBERS

BENDIX: 289352

A.S.A. 6368

W/H: 627005-M



CLAYTON Dual Circuit (LEYLAND)

MM22455

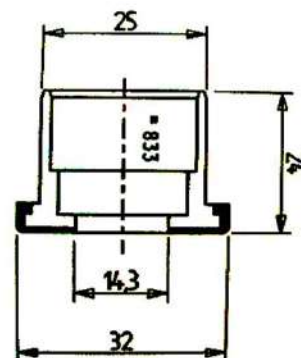


VALVE No.
APGA 6566 - APSA 10054
APGA 7493

ALTERNATE PART NUMBERS:

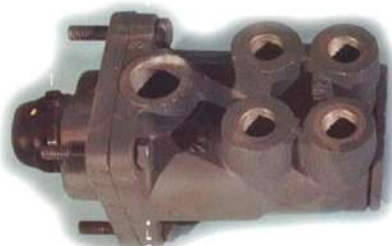
A.S.A. 5743

WABCO: GA 29345



KNORR Dual Circuit

MM22449



VALVE No.
MB 4415/28/34/38
MB 4419
(Whole 44 Range)

ALTERNATE PART NUMBERS:

KNORR: I 59347

A.S.A. 6267

W/H: 627006-M





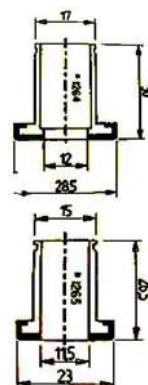
WABCO Dual Circuit		MM22460
	VALVE No. 461 307*** * ALTERNATE PART NUMBERS: WABCO: 461 307 002 2 A.S.A. 5309 W/H: 627003-M	
WABCO Dual Circuit		MM22498
	VALVE No. 461 315 ***0 461 315 2610 461 315 2640 461 315 1807 SCANIA TATA/CLAYTON/NISSAN UD390 M600580 / TVS 8171097 '480 001 0000 ALTERNATE PART NUMBERS: WABCO: 461 315 005 2 A.S.A. 5196 W/H: 627001-M	
WABCO Dual Circuit		MM22498/1
	VALVE No. 461 319 008 0 ALTERNATE PART NUMBERS WABCO: 461 319 001 2 A.S.A. 5197 W/H: 627002-M	
WABCO Dual Circuit		MM22498/2
	MERCEDES Bus 4 613 152 460 Kit Covers All 3 Piston Types	

Japanese Dual Circuit

MM33003



VALVE No.
NABCO E6
(Piston MM1851)
ALTERNATE PART NUMBERS
45101-Z9029 / Z5013
A.S.A. 6561
CM 8/10/12/15/16

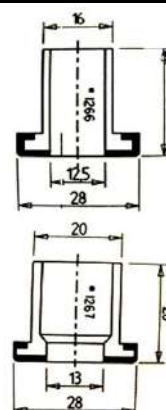


Japanese Dual Circuit

MM33004



VALVE No.
SANWA SEIKI TB 4
Main Air Piston MM33004/1
Air Piston MM33004/2
ALTERNATE PART NUMBERS
44069-1420
A.S.A. 6564

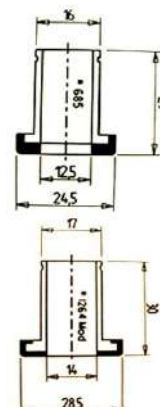


Japanese Dual Control (CW 41)

MM33009



No Lip in Piston

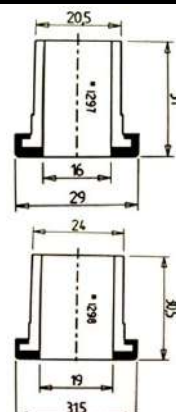


ISUZU Dual Circuit (F *000 Series)

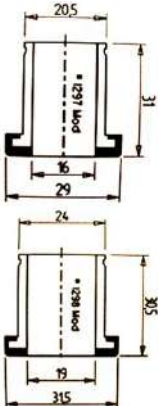
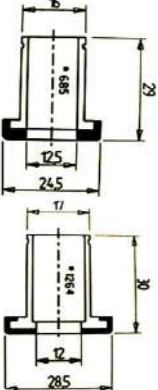
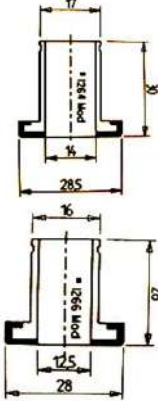
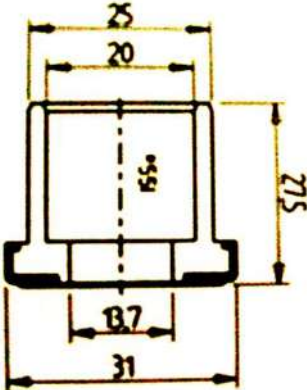
MM33010



ALTERNATE PART NUMBERS
9324-0168
Also Nissan UD100





Japanese Dual Circuit		MM33025
	VALVE No. JIDOSHA KIKI 6 ALTERNATE PART NUMBERS 9324-0151 W/H: 627028	
Japanese Dual Control		MM33026
	VALVE No. NABCO ALTERNATE PART NUMBERS 45151-Z9125	
Japanese Dual Circuit		MM33028
	VALVE No. NABCO CW 45 ALTERNATE PART NUMBERS 45101-Z9226 A.S.A. 6563	
WABCO Dual Circuit (SK Range)		MM33056
	VALVE No. 461 319 2700 (Freightliner) 461 319 2500 (Powerliner) ALTERNATE PART NUMBERS A.S.A. 6669 A.S.A. 6668	

WABCO Foot Valve (Lip Seal)

MM33056/1

VALVE No.

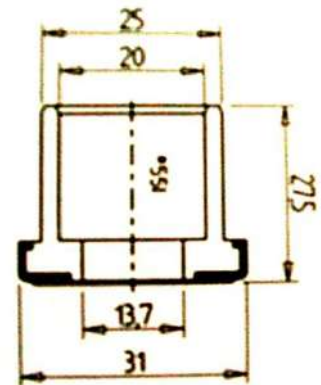
461 319 2500

461 319 2710

ALTERNATE PART NUMBERS:

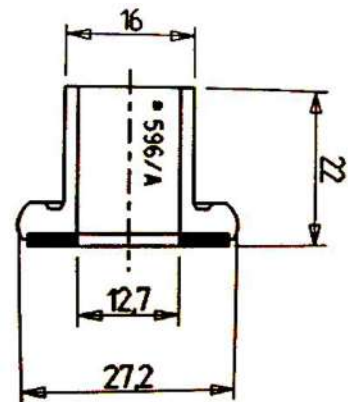
A.S.A. 6994

(For Piston see MM33056/2)



NISSAN CK20 CK41

MM33060

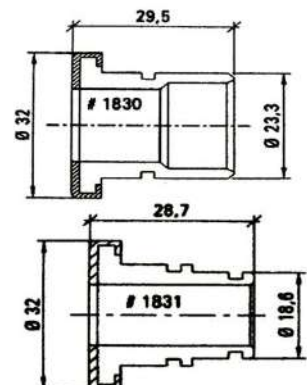


FORD Cargo Foot Valve

MM33068

33050 - 043 A

81 DBZA 270



MIDLANDS E6 Foot Valve

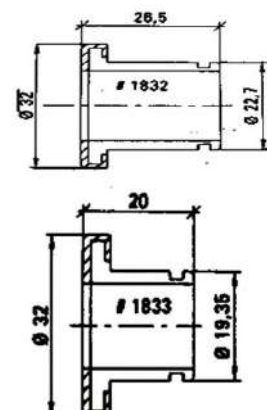
MM33069



ALTERNATE PART NUMBERS

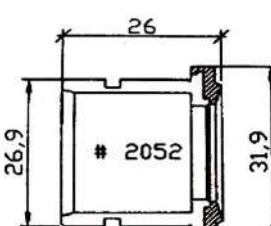
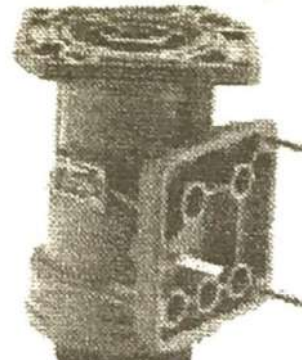
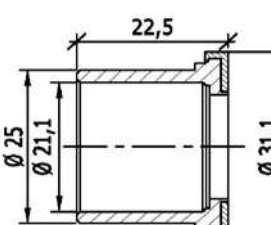
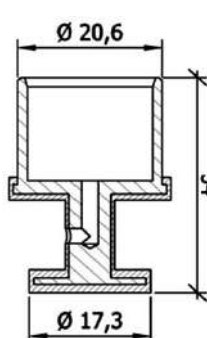
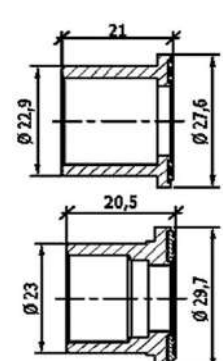
KN 22150

(For Piston see MM33069/1)

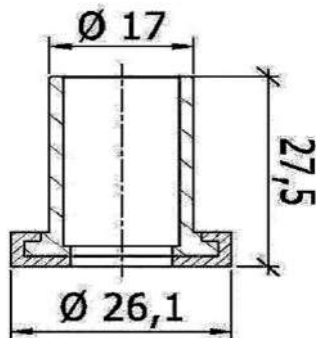
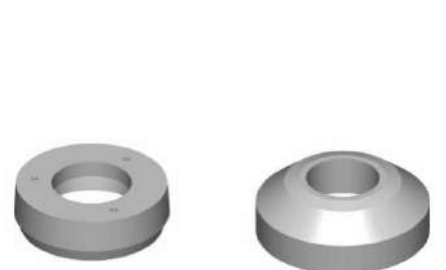
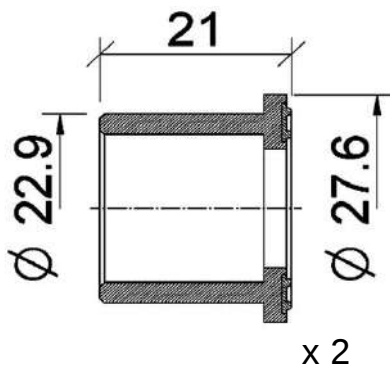
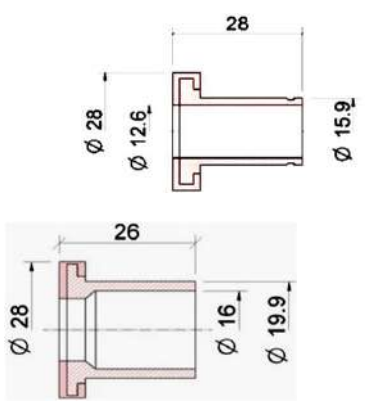


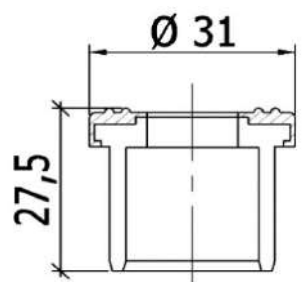
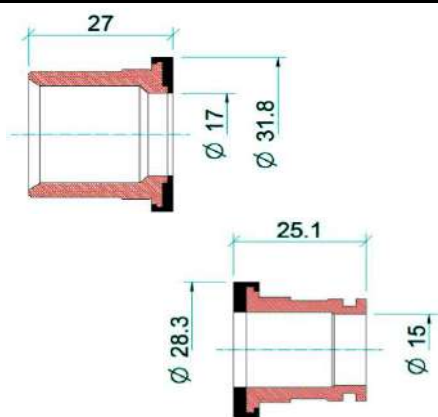
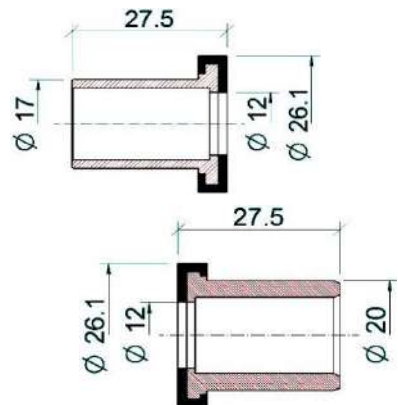
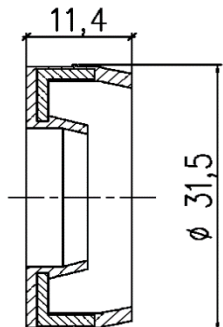


NABCO Foot Valve		MM33081
	ALTERNATE PART NUMBERS BENDIX: 241 0741	
Japanese Foot Valve Kit		MM33081/1
	UD 80 (Customer to check piston sizes!)	
BOSCH Foot Valve		MM33082
	VALVE No. 0481 008 038	
F.A.W Foot Valve		MM33090

IVECO Foot Valve (DX75B + DX95B)		MM33094
	DX70 DX71BX DX80 Also MAGNET MARELLI ALTERNATE PART NUMBERS 76620102 KNORR BREMSE Valve 13033	
BOSCH Foot Valve SCANIA 4 Series No.132 4664		MM33121
	KIT No. 481064603 Valve No. 481 064 110	
BENDIX (Delta Foot Valve)		MM33124
	VALVE No. SK 2764/1 SK 2648/1 KX 2408/1 KX 2408/2 KIT NUMBER KX 1764/1	
GRAU Foot Valve		MM33136
	VALVE No. 320063122 MAN: 3200 6 0101	



NISSAN UD 90 Foot Valve		MM33139
		
KNORR BREMSE Foot Valve (D.A.F.)		MM33153
	DX 61 A (For Air Piston see MM33153/1)	
Includes O-rings		
HALDEX Foot Valve		MM33155
	Valve No. 320 063 121 MAN Bus	
Includes O-rings		
TOYOTA HINO Foot Valve TB 8 (New Gen)		MM33158
	47160-3311 SANWA SEIKI (500 Series) (700 Series) Main Air Piston MM1577	
Includes O-rings x 17		

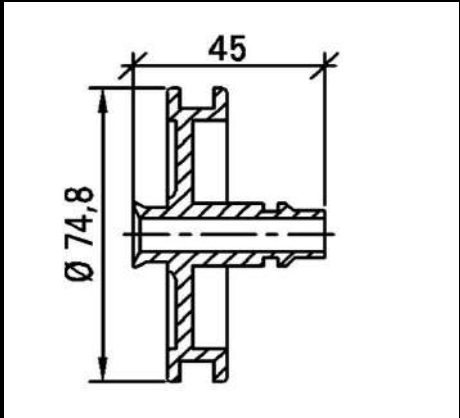
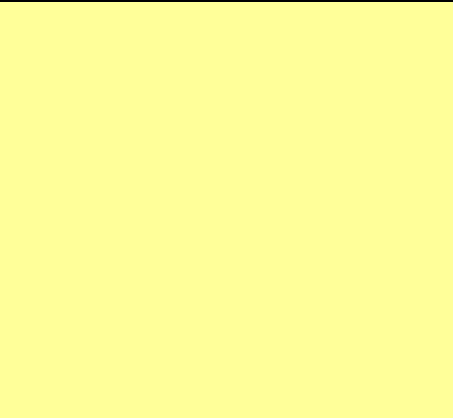
WABCO Foot Valve		MM33174
 Includes O-rings	VALVE No. 461 319 2730/40 461 319 2720 AXOR Comes with small Lip Seals	
MITSUBISHI FUSO Foot Valve (KNORR BREMSE)		MM33200
 Includes O-rings	ISUZU 1-48100-925 Z 41-07025 KBJ - CV2425 12DO7A	
NISSAN Foot Valve		MM33201
	NABTESCO UD 80 UD 100 (Customer to check piston sizes!)	
KNORR BREMSE Foot Brake Valve		MM33207
 Includes O-rings	IVECO 440 Truck DX60A MAN TGA 815 213 062 75 0486 200 004/7 VOLVO K0 395 30 N00 K 000 926 K 000 926 100 VOLVO 398 6374	

FOOT VALVE PISTONS



Main Air Piston for HINO

MM1482/1



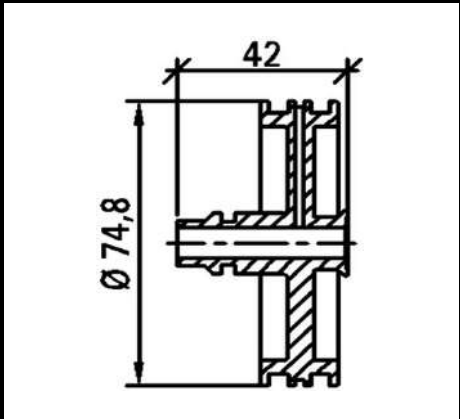
Main Air Piston CK45 CK46 (Double o-ring HINO)

MM1577



TB 8 HINO

 Goes with kit MM33158



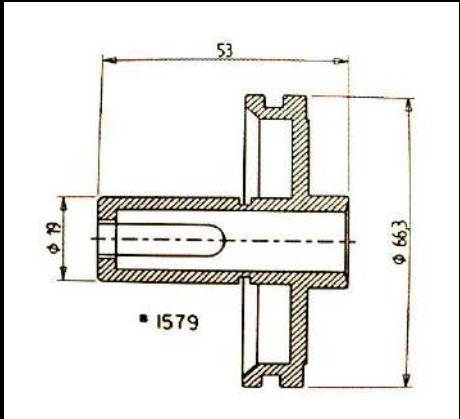
Main Air Piston for E7 Foot Valve

MM1579



Goes with kits
 MM33010
 MM33025
 MM22451

 MM22226 Single O-Ring Groove

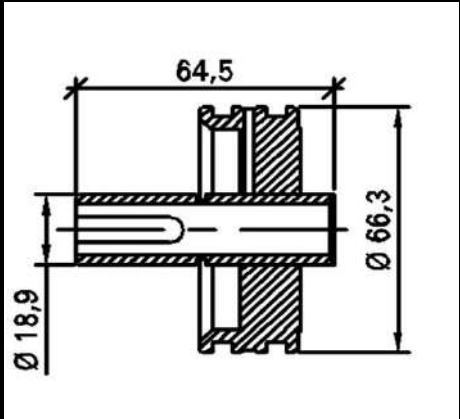


NISSAN Foot Valve Piston (Double O-Ring)

MM1579/1



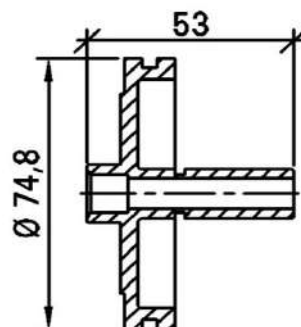
(Goes with Kit MM33010)



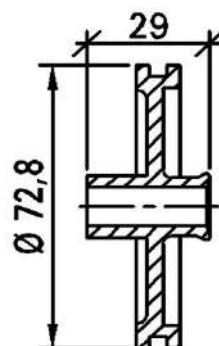
Main Air Piston NISSAN Foot Valve

MM1681


NABCO MM 33009

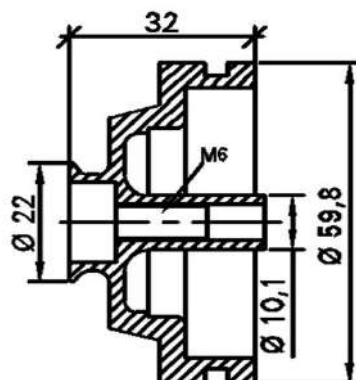


Main Air Piston CK20 NISSAN Foot Valve

MM1704


WABCO Foot Brake Piston

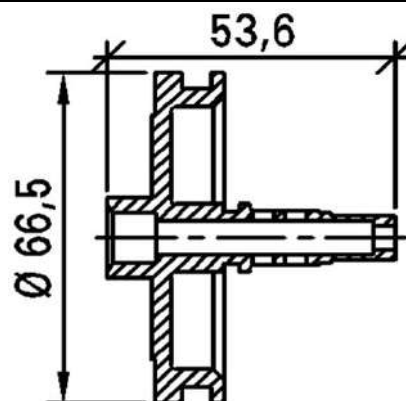
MM1721

 VALVE No.
4619036226


NABCO Foot Valve Piston

MM1851

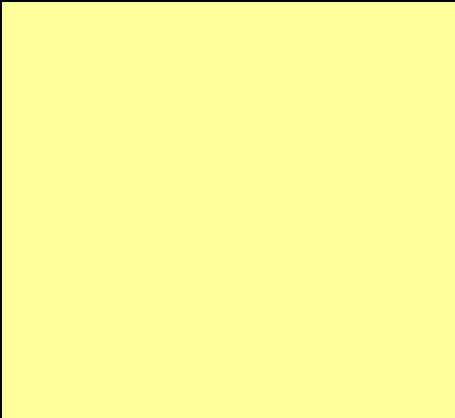
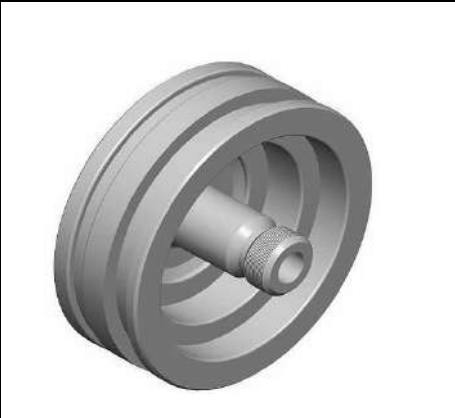

(For Kit MM 33003)



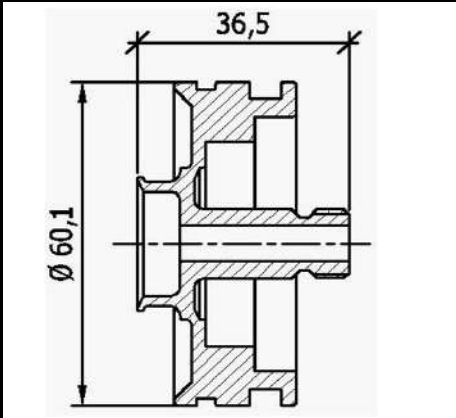
FOOT VALVE PISTONS



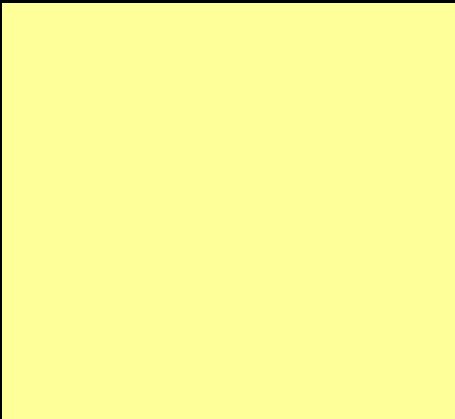
E6 Foot Valve Piston



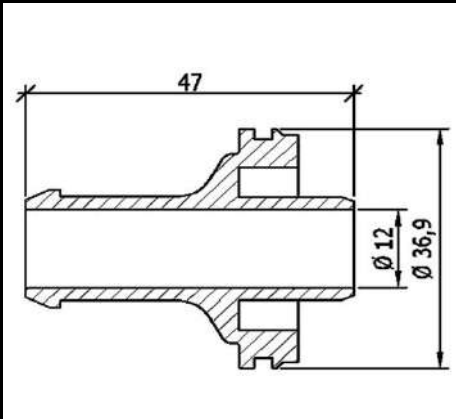
MM22226/3



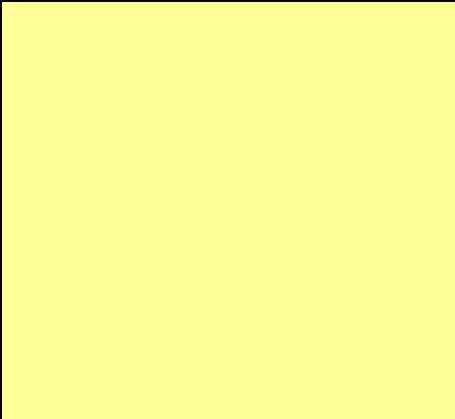
Piston for MM22298



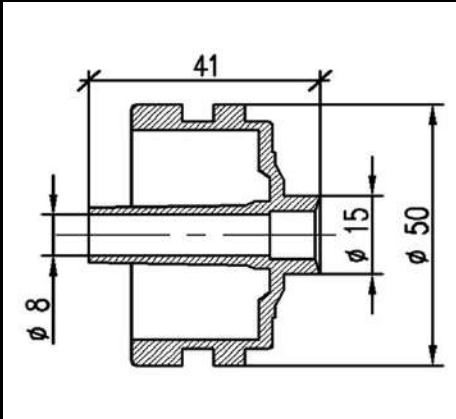
MM22298/1



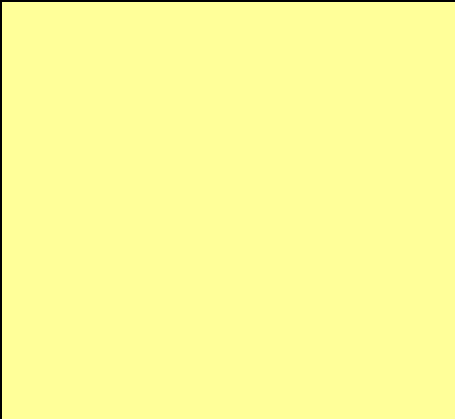
Air Piston for NISSAN Foot Valve



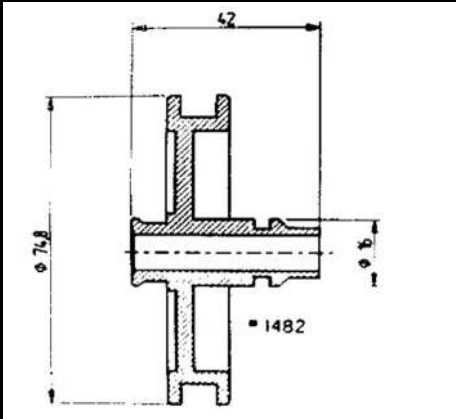
MM33003/1



HINO Main Air Piston for SANWA SEIKI TB4

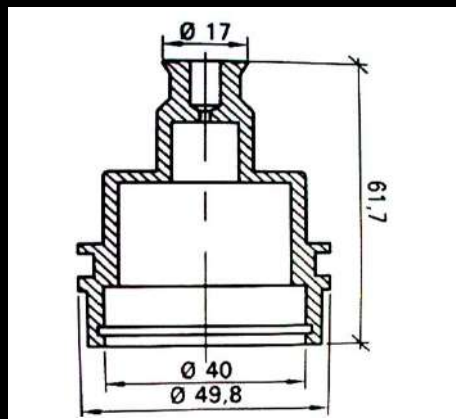
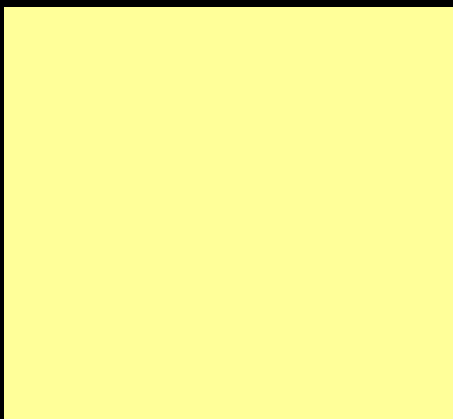


MM33004/1



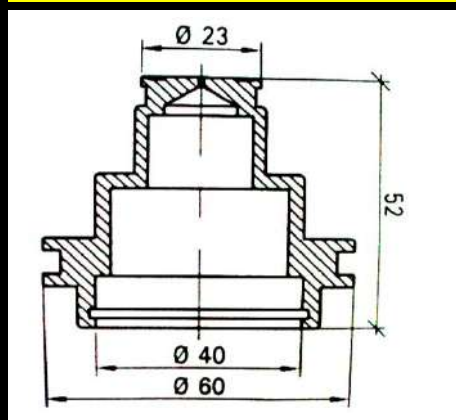
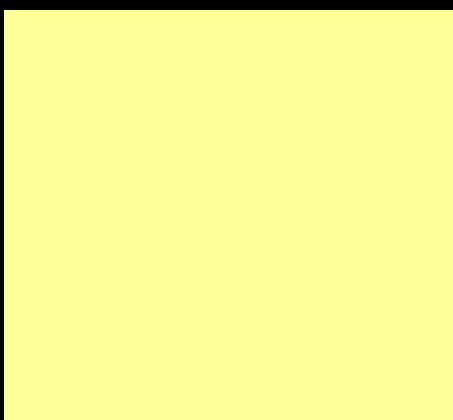
HINO Foot Valve Air Piston

MM33004/2



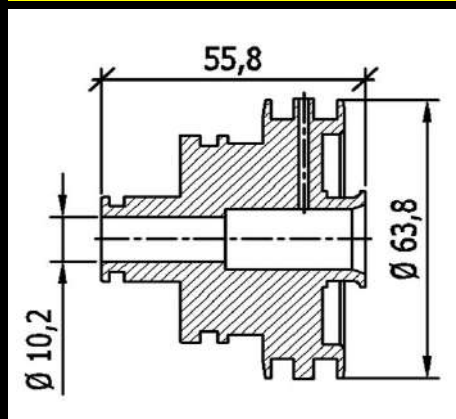
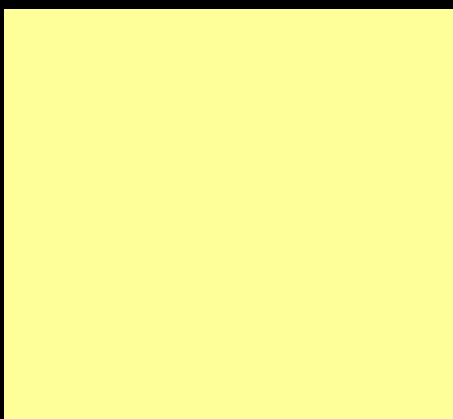
HINO Bottom Piston

MM33004/3



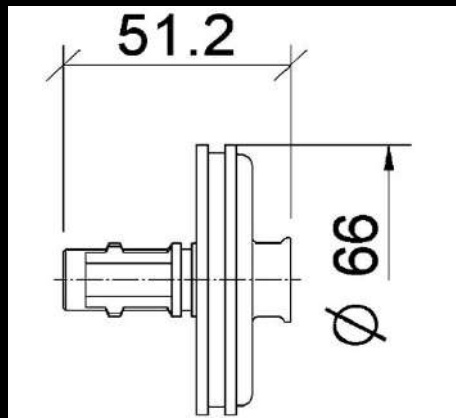
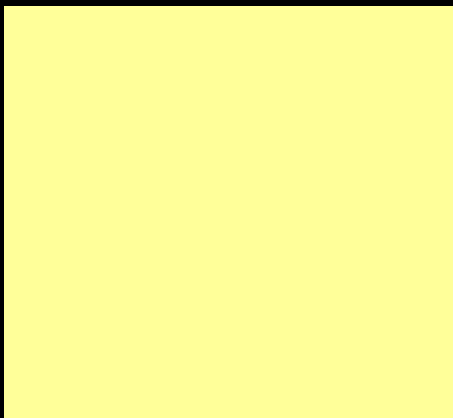
Piston for MM33056/1

MM33056/2



Main Air Piston for MM33069

MM33069/1

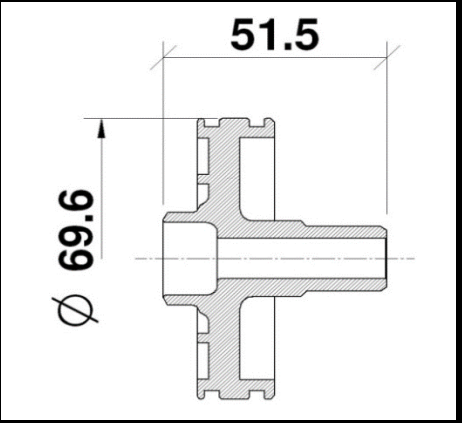
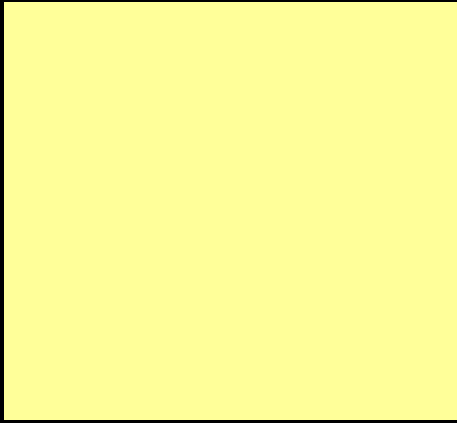
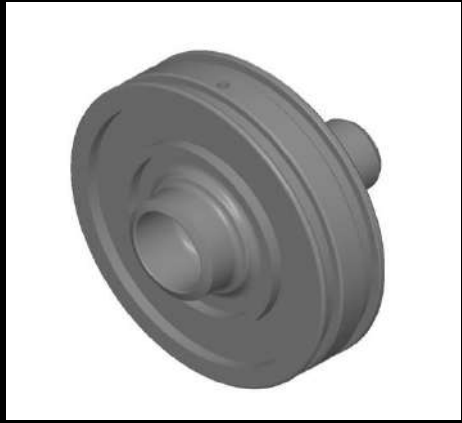


FOOT VALVE PISTONS



Main Air Piston for MM33153

MM33153/1





GOVERNOR VALVES

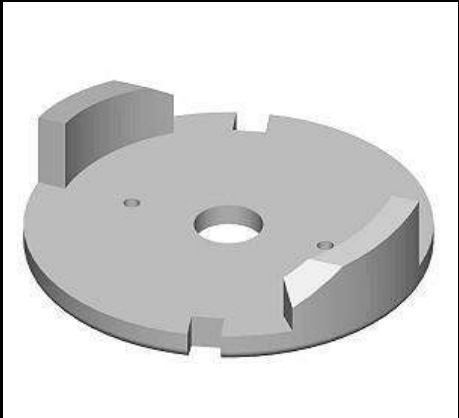
VOLVO Compressor Governor Valve		MM33099
	LP 4930	
CLAYTON DEWANDRE D2 Governor Valve Kit		MM33123
	KIT No. SAB69RK003 ALTERNATE PART NUMBERS: 262723	

HAND CONTROL VALVES



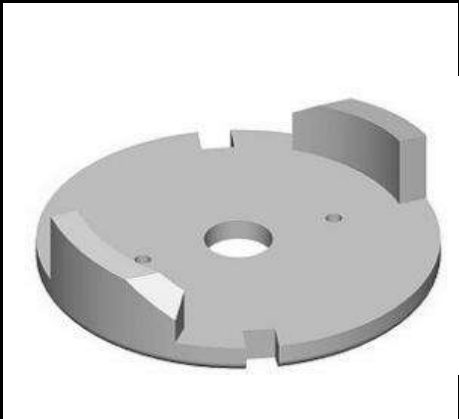
RH Cam Plate

MM1191



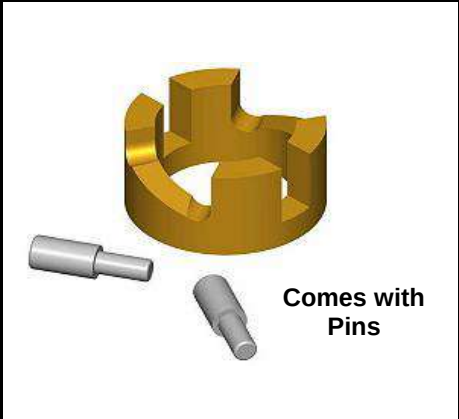
LH Cam Plate

MM1191/1



Brass Cam for NISSAN Hand Control

MM1285



Drive Shaft for NISSAN Hand Control

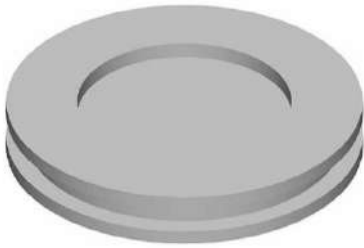


L = 49mm
L = 60mm

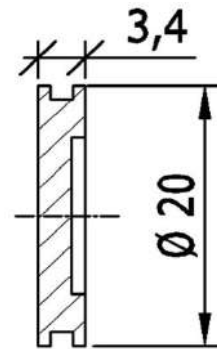
MM1375

MM1375/1

Plug/Cap for HB 1168

MM1488


(Goes with MM33047)



Japanese Hand Control

MM22319

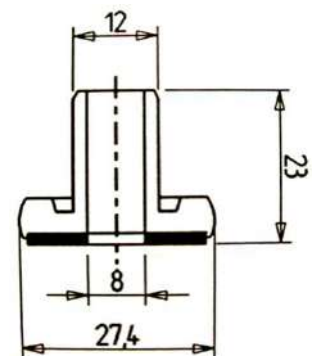

VALVE No.
SANWA SEIKI

ALTERNATE PART NUMBERS

45143-90003

A.S.A. 5916

W/H: 631007-M



KNORR Hand Control

MM22436

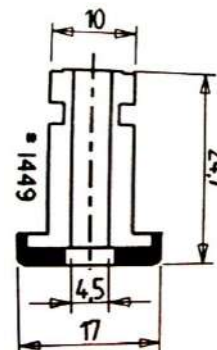

VALVE No.
HB 1154

ALTERNATE PART NUMBERS

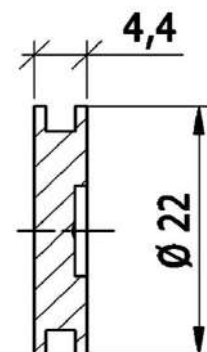
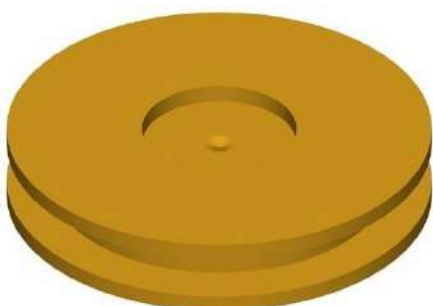
I 72290

A.S.A. 6213

W/H: 631006-M



Plugs for Valve No. HB 1.154

MM22436/1


HAND CONTROL VALVES



WABCO Trailer Hand Control

MM22440



VALVE No.

961 721 000 0

961 721 008 0

ALTERNATE PART NUMBERS

A.S.A. 5702

KB 965012 5000 TC2

WABCO Trailer Hand Control

MM22440/1



VALVE No.

961 721 00 0

961 721 0200

961 721 008 0

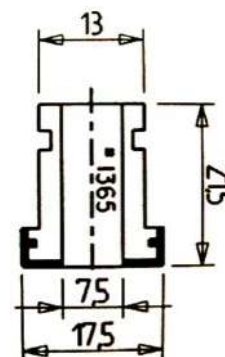
961 722 2520

CBH 7235390008 RENAULT

ALTERNATE PART NUMBERS

WABCO: 961 721 004 0

WABCO: 961 721 004 2



WABCO RH Spring Brake Hand Control

MM22490



VALVE No.

961 701 110 0

ALTERNATE PART NUMBERS

A.S.A. 5221

WABCO: 961 701 001 2

W/H: 631001-M

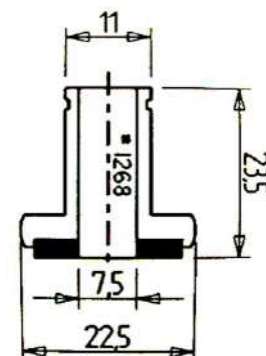
Japanese Hand Control

MM33005

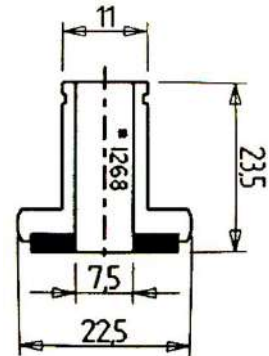


45220

25002



Japanese Hand Control with Cam

MM33005/1


WABCO Hand Control

MM33042


VALVE No.
961 722*0**

ALTERNATE PART NUMBERS

A.S.A. 5701

961 722 003 2

W/H: 631009-M

KNORR Hand Control

MM33047

Does not include
the plastic cam
plate

VALVE No.
HB 1167/68/70/73/79/90
HB 1200/01/03/05 Range
(Plug Cap for HB 1168 is MM1488)

ALTERNATE PART NUMBERS

KNORR: I 92181/008

W/H: 631013-M

Dash Mount Trailer Supply Valve (FORD LOUISVILLE)

MM33050


VALVE No.
T 290645-B

Includes O-Rings

HAND CONTROL VALVES



BENDIX L4 Hand Control

MM33059

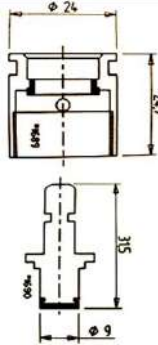


VALVE No.
KY 1350/12

ALTERNATE PART NUMBERS

BENDIX: SK 2773/1

W/H: 613010-M



BENDIX Hand Control

MM33064



ALTERNATE PART NUMBERS

SK 2679-1



WABCO 3 Port Hand Control (Slide Series)

MM33077



VALVE No.
961 722 2320

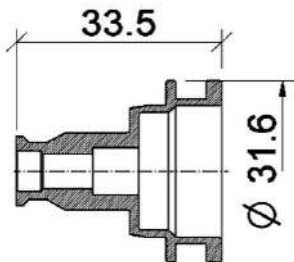
ALTERNATE PART NUMBERS

ASA: 6939



Piston for MM33077

MM33077/1



BENDIX Hand Control (Type S4 & S5)

MM33078


WABCO 5 Port Hand Control (Slide Series

MM33093


Includes O-Rings

VALVE No.
961 722 0042



WABCO RH 4 Port Hand Control

MM33098


INCLUDES O-RINGS

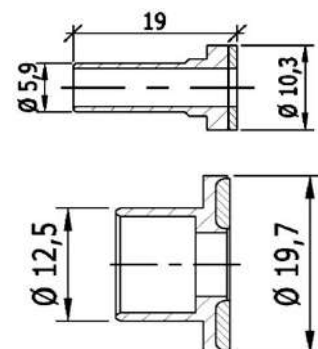
VALVE No.
961 702
(See MM1191 for Cam Plate)

New Generation POWERLINER

MM33103


VALVE No.
961723 0190
961723 1040
961723 1400

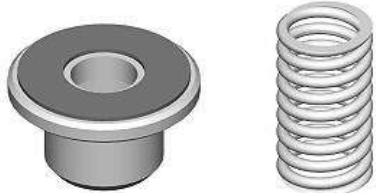
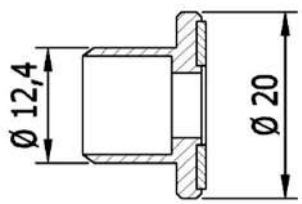
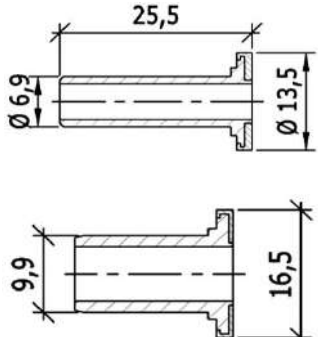
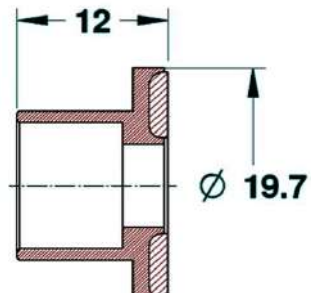
KIT NUMBER
971 723 000 2



HAND CONTROL VALVES



WABCO New Generation Hand Control		MM33103-1
	VALVE No. 961723 1250	
WABCO New Generation Hand Control		MM33103-2
	961 723 1000	
KNORR BREMSE/WABCO Hand Control		MM33111
 Includes O-Ring	VALVE No. 76635301000 DPM 66 A TEGA DPM 90 D DAF DPM 94A-94AA	
KNORR BREMSE/WABCO Hand Control (Castlated)		MM33111/A
	VALVE No. 76635301000 DPM94A-94AA	

KNORR BREMSE Hand Control (Minor)		MM33111/B
 INCLUDES O-RINGS	VALVE No. 76635301000 DPM94A-94AA	
BOSCH 3 Port Hand Control Valve		MM33126
	KIT No. 1487010254 ALTERNATE PART NUMBERS: 0481 016 702	
ACTROS Hand Control		MM33163
	VALVE No. DPM 22A/23A/28A DPM 90C.K. DPM 92B DPM 99A KNORR BREMSE DPM 60EY DPM 67A	
BENDIX/DAF Hand Control		MM33168
 INCLUDES O-RINGS	DAF DPM 90 D DPM 95 ** INTERNATIONAL 15 X 9800	

HAND CONTROL VALVES



VOLVO Hand Control FH12

MM33196



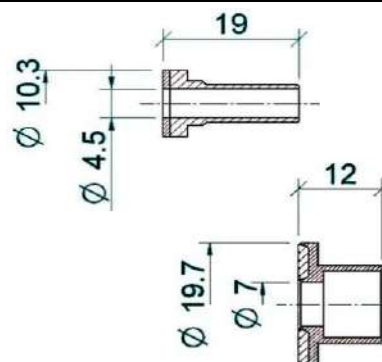
VALVE:20367534

WABCO:

9617242030

9617242050

(Plastic Valve)



Hand Control for AXOR

MM33198



Valve No.

DPM66A

DPM60EY

VOLVO Trailer Hand Control Brake

MM33209



VALVE # K/B I194404

VOLVO 20375554

1194403



Jap Hand Control SANWA SEIKI

MM33217



VALVE #

47930 - 1870

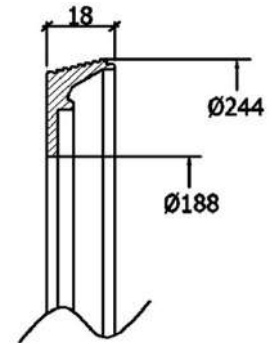
449786

Air Seal (MM33108 & MM33122)

MM2709



244 OD X 188 ID X 18 HIGH



1 PER KIT

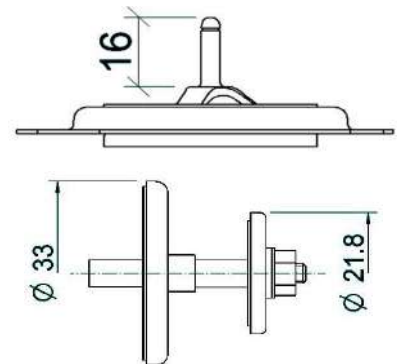
HYDROVAC #9320-1374

MM33108



Main Shaft = 8 & 10mm

(For Air Seal see MM2709)



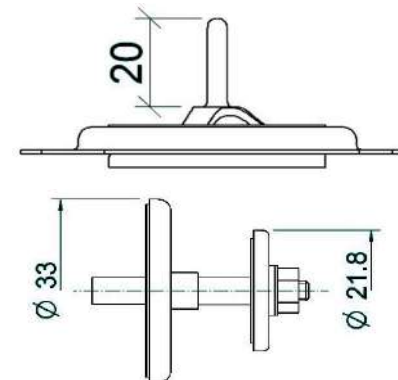
INCLUDES O-RINGS & SEALS

HYDROVAC (Extra Long)

MM33108/1



INCLUDES O-RINGS & SEALS



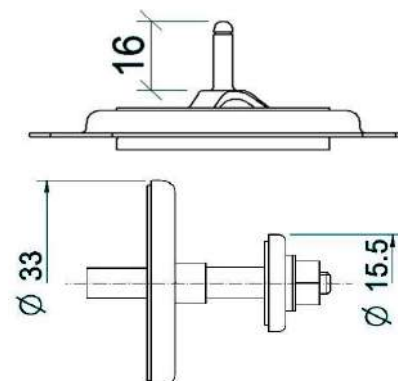
HYDROVAC #9320-1379

MM33109



Main Shaft = 8mm

SEAL 175 OD X 119 ID X 18 HIGH



INCLUDES O-RINGS & SEALS

HYDROMASTER HYDROVAC



JIDOSHAKIKI AIR SEAL FOR HYDROVAC

MM33109/1



SEAL 175 OD X 119 ID X 18 HIGH

BENDIX Hydromaster

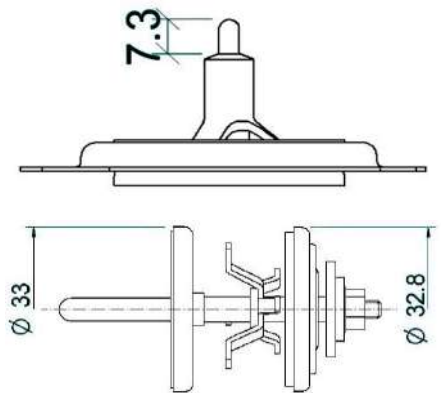
MM33122



INCLUDES O-RINGS & SEALS

KIT No.
9320-1206
8mm Shaft

(For Air Seal see MM2709)



CLAYTON DEWANDRE HYDROMASTER

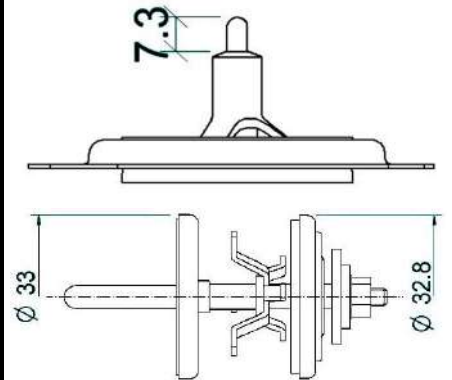
MM33143



KIT No.
700 749
701 653
701 662/3
8mm Shaft 701290
701659

(Original has leather main seal)

070 829 970 1662 SMALL U-SEAL



WABCO Relay Load Sensing

MM22397



Does Not Include Plastic Piston

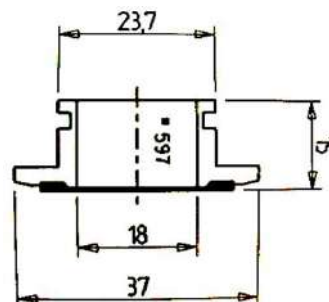
VALVE No.
475 710***0

ALTERNATE PART NUMBERS

WABCO: 475 710 001 2

A.S.A. 5381

W/H: 633001-M



BOSCH Load Sensing Valve

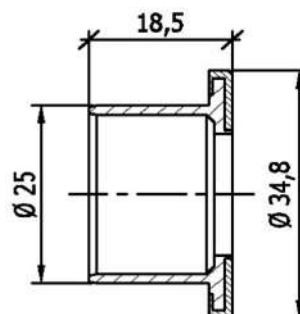
MM33104



INCLUDES O-RINGS

VALVE No.
#1487010098000
0481 036

SINGLE L/S - NO RELAY



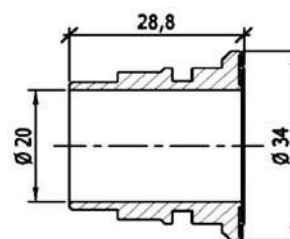
KNORR Load Sensing Valve Major 187895

MM33105



INCLUDES O-RINGS & SPRINGS

VALVE No.
BR4411/12
BR5611 - A/S
PISTON WITH O-RING

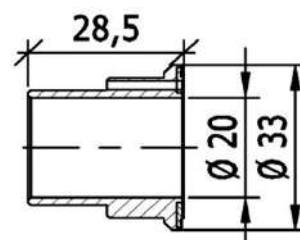


KNORR Load Sensor

MM33105/1

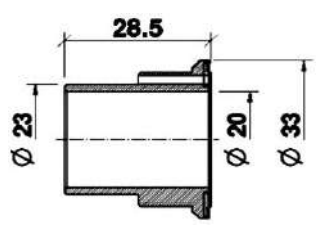
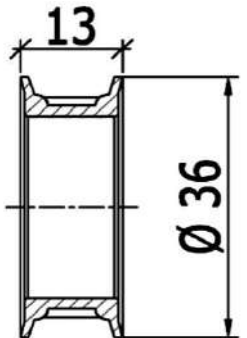


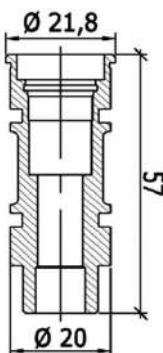
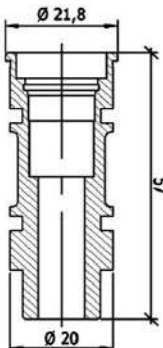
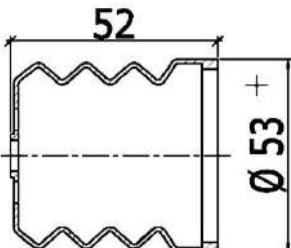
VALVE No.
BR 5503 A/S
SEB00658
BR5522
SEB22188



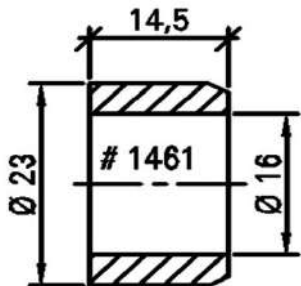
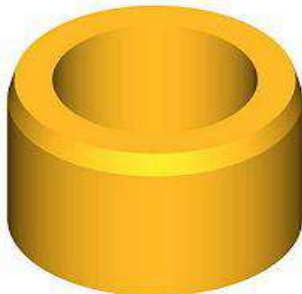
LOAD SENSING VALVES



KNORR Load Sensor (With Air Bags)		MM33105/2
	BR 4351 BR 5522	
WABCO Load Sensing (Air Suspension)		MM33112
 INCLUDES CIRCLIPS, O-RINGS,SPRINGS	VALVE KIT 475 711 0002	
WABCO Load Sensing (Air No Relay)		MM33112/1
	VALVE No. 475 714 5100 475 714 6222 Air Suspension No Relay Trailer Use Only	

Cartridge Sleeve #WR 461 324 5032		MM1548
		
Accelerator Cartridge		MM1548-1
		
BOOT		MM3106
		
Rubber Cap for Tyre Inflation		MM25003
		



Operating Cylinder Shaft c/w Brass Bush		MM33039
 Only Includes Shaft & Brass Bush	VALVE No. 422 010 00* 2 ALTERNATE PART NUMBERS 422 010 010 0	
Operating Cylinder Bush Only		MM33039/1
		
WABCO Tandem Actuator		MM33159
	VALVE No. APSA7212/13 KIT GA28693 MAIN SEAL 5 1/4" OD x 4 3/4" ID x 3/8" Old FORD D-Series	
LIEBHERR Crane Seal Kit #1		MM33164
NORMAL RUBBER - NITRILE 	50 X 36 X 70 SEAL 40 X 5 O-RING	

LIEBHERR Crane Seal Kit #2

MM33165

NORMAL RUBBER - NITRILE

60 X 21 X 10 HIGH



53 X 20.5 X 25 HIGH

KNORR BREMSE 3GB BRAKE VALVE LOCO'S

MM33203



PT NO KB2623/0/EN

F & J Female Air Coupler Seals

MM33208



10 Seals per Pack

WABCO ECAS Solenoid Valve

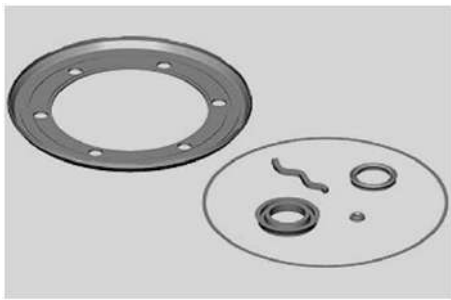
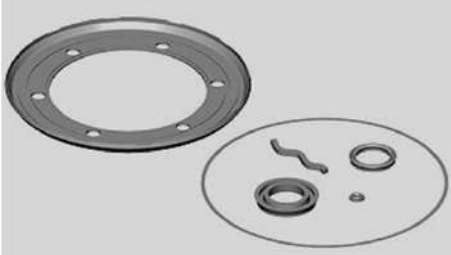
MM33214



PT # 472 880 0300

PRESSURE CONVERTERS

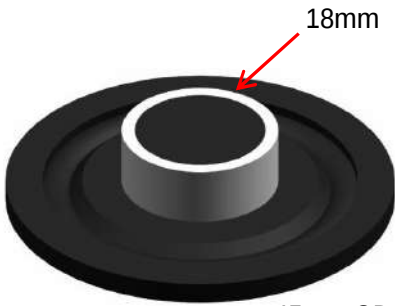
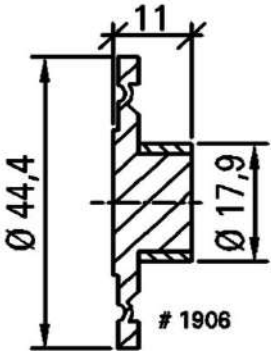


HALDEX Pressure Converter (Mineral Oil)		MM33125
 Includes O-rings	RN55P Also MIDLAND N4170 F	
HALDEX Pressure Converter (Mineral Oil)		MM33125/1
 Includes O-rings	RN55AW 6" N4286	
HALDEX Pressure Converter (Brake Fluid)		MM33125/B
 Includes O-rings	RN55P Also MIDLAND	
HALDEX Pressure Converter 4 1/2" Cylinder		MM33128
 Includes O-rings & U-Seals	114.3mm Pot Also MIDLAND	

WABCO Pressure Reducing Valve		MM33154
	VALVE No.	
	475 010 3000	
	475 010 3010	
	475 010 4000	
	475 010 001 2	
WABCO Pressure Limiting Valve		MM33190
	VALVE No.	
	4750150390	
	KIT No.	
	475 015 001 2	
	475 015 061 0	

QUICK RELEASE VALVES



KNORR BREMSE Overflow Valve	MM1879
	
Japanese Quick Release Valve	MM1906
	AIR MASTER 16mm Shaft 
45mm Diaphragm	MM22378
	643001
50mm Diaphragm	MM22378/1
	643002

WABCO Flap Assembly for Square Relay

MM1485



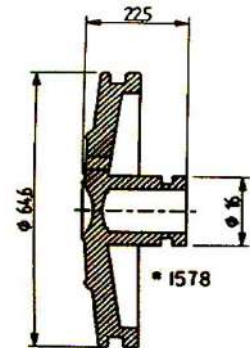
Goes with MM22496

Piston for 471 005 020 0 - Relay Emergency Valve

MM1578



VALVE No.
10 S4



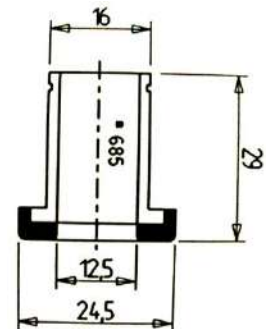
Japanese Relay

MM22213



VALVE No.
SANWA SEIKI
FUSO
J.K.C.
ISUZU
NISSAN
HINO

ALTERNATE PART NUMBERS
45171-99005
A.S.A. 6292
W/H: 645012-M



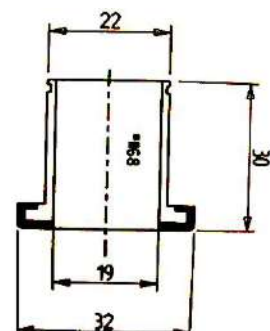
R8 Relay Valve

MM22279



VALVE No.
286370

ALTERNATE PART NUMBERS
W/H: 645009-M



RELAY CONTROL VALVES



Japanese Relay

MM22320



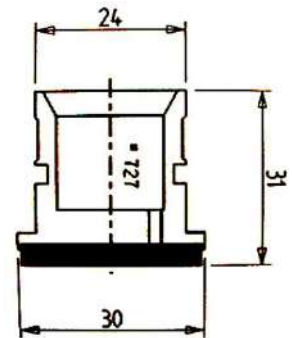
VALVE No.
SANWA SEIKI

ALTERNATE PART NUMBERS

45165-99026

A.S.A. 5919

W/H: 645008-M



KNORR Square Relay

MM22438

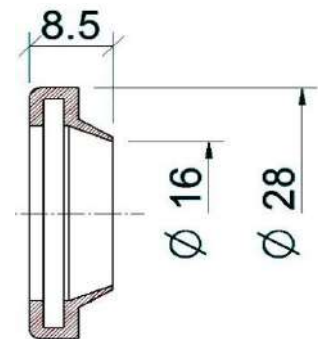


VALVE No.
RE 1115,2221
RE 1144

ALTERNATE PART NUMBERS

KNORR: I 68094

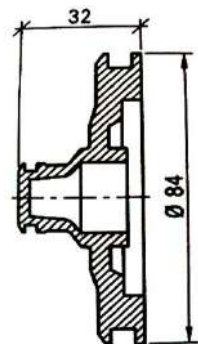
W/H: 645006-M



2 per Kit

Piston for MM22438

MM22438/1



BOSCH Square Relay

MM22450



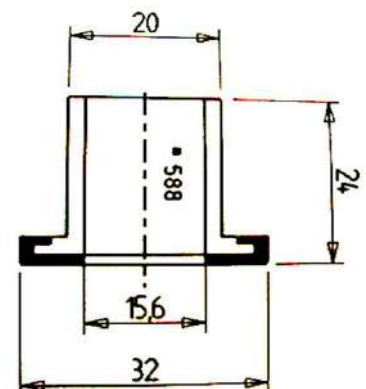
VALVE No.
0481 026 006

ALTERNATE PART NUMBERS

BOSCH: 1487 010 101

A.S.A. 6366

W/H: 645005-M



RE6 Relay

MM22476



VALVE No.
281672

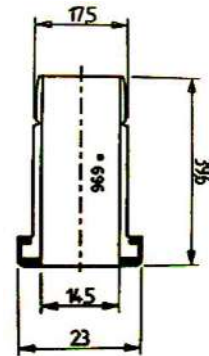
ALTERNATE PART NUMBERS

A.S.A. 5348

266784

W/H: 654004-M

BENDIX: SK 2677/1



R6 Relay

MM22477



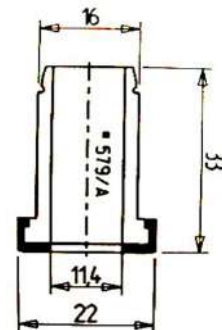
VALVE No.
280375

ALTERNATE PART NUMBERS

WABCO: 263945

W/H: 645003-M

BENDIX: SK 2661/1



WABCO Square Relay

MM22496



VALVE No.
973 001***0

(For Flap Assembly see MM1485)

ALTERNATE PART NUMBERS

WABCO: 973 001 000 2

A.S.A. 5198

W/H: 645002-M



WABCO Square Relay (New Generation)

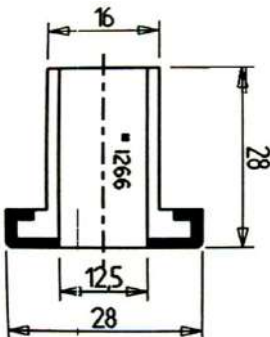
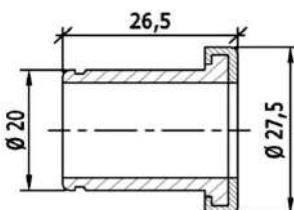
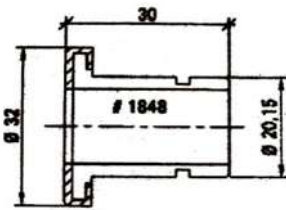
MM22496/1

VALVE No.
973 001 210 022



RELAY CONTROL VALVES



GRAU Square Relay		MM33051
	VALVE No. 355 018 011 ALTERNATE PART NUMBERS GRAU: 950 355 004	
Japanese Relay Valve (Toyota Hino)		MM33055
		
BENDIX R9 Relay Valve		MM33067
		
GIRLING Relay Emergency Valve		MM33070
	VALVE No. 75961102 And HALDEX ALTERNATE PART NUMBERS GRAV: 75611959	

MAGNETT MARELLI Dual Square Relay

MM33083



VALVE No.
AC 586 AA

ALTERNATE PART NUMBERS
BENDIX: 9412

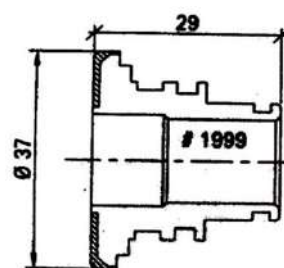


VOLVO Square Relay

MM33091



VALVE No.
1082666
0481 026 019/021



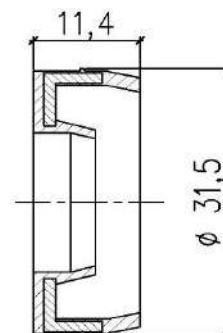
WABCO Square Relay Valve

MM33102



VALVE No.
475 720 0050
475 721 0080
480 020 0020
480 202 0040
973 011 0010/0040/2000

AXOR WABCO LOAD SENSING
For Double see MM33199



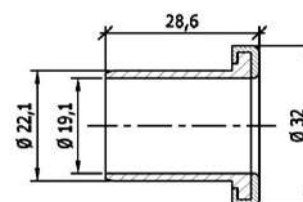
Relay Valve for R12&R14 International

MM33116



KIT No.
102802

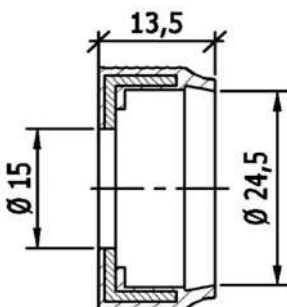
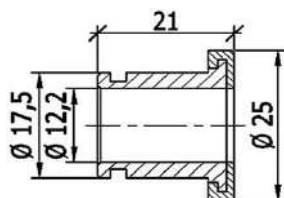
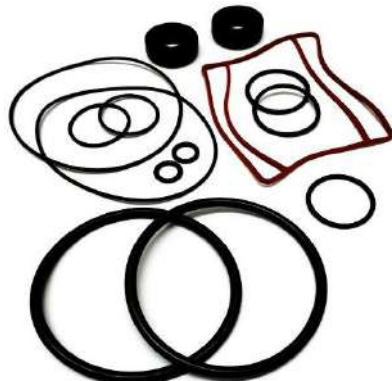
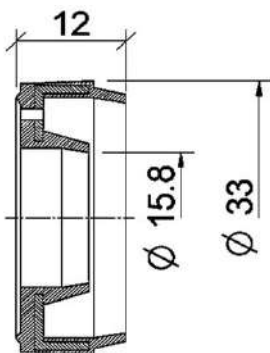
Also fits TATA

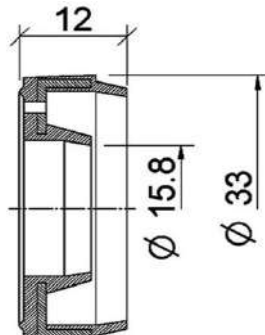
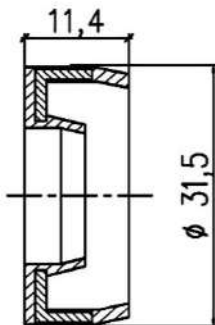
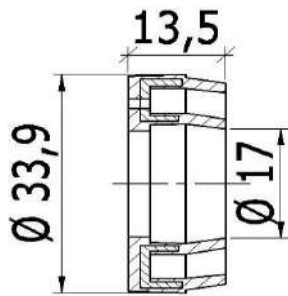
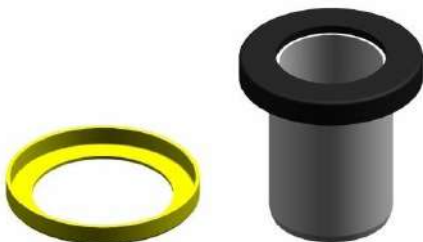
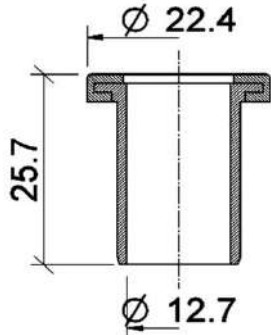


INCLUDES O-RINGS

RELAY CONTROL VALVES

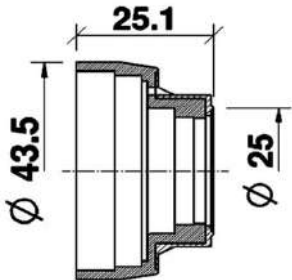
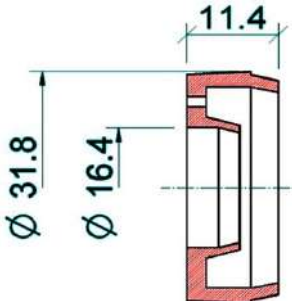
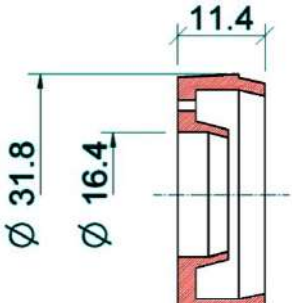
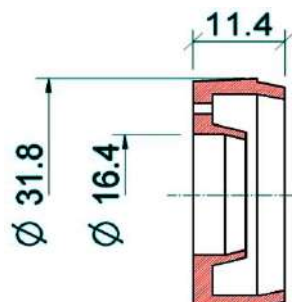


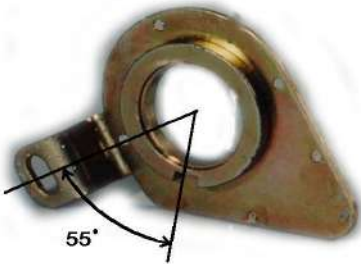
BOSCH Square Relay Valve / SCANIA		MM33118
	VALVE No. 0481 026 027	
GRAU Skid Check Valve		MM33135
		
KNORR Relay Modulator Valve		MM33146
	VALVE No. BR9231/9233	
KNORR Square Relay (ABS)		MM33157
	AC 574 AXY BR 9234 KO 27900VOO	

KNORR Trailer Modulator (EBS)		MM33157/1
	VALVE No. ES2005 BR 9233	
KNORR/DAF Square Relay		MM33167
	PART No. DAF AC577A AC 574 AXY AK 1482-40354 ES 2053 PISTONS ONLY ALSO FITS 456 204 017 X 2 KITS + O-RINGS	
KNORR BREMSE Relay Control (MAN TGA)		MM33179
 K001411 EBS HIGH CENTRE	PART No. 0717 403 A KNORR BREMSE VOLVO 20828241 81.52106.6025 81.52106.6041 MAN 81.52106.6025 81.52106.6014 81.52106.6042/46/48/49/50 If Double use 2 Kits (FOR EBS5 001411 - 2 REQ)	
HALDEX Square Relay (WESTERN STAR)		MM33180
	9 732 980 140	

RELAY CONTROL VALVES

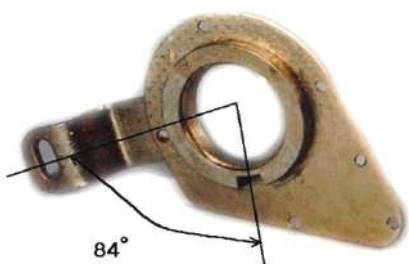
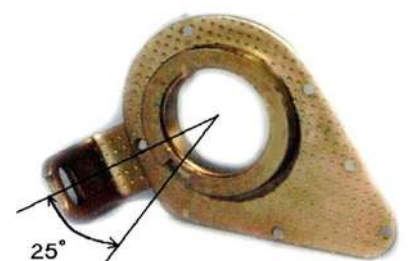
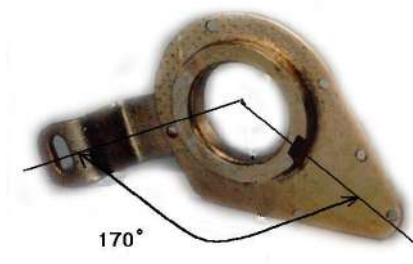


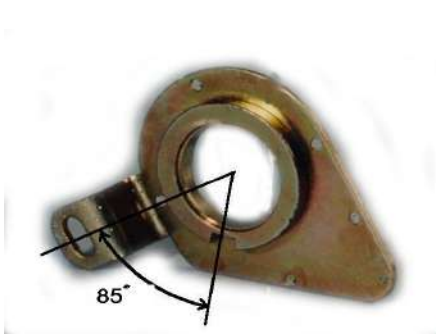
HALDEX ABS Relay Valve		MM33183
	364 11 5021/M5144 364 263 021/031	
KNORR BREMSE ABS Relay Valve		MM33192
	SINGLE (1 x SEAT) # 81 52106 6013/14 0481 026.023 AXOR SCANIA 0 486 204 019 For Double see MM33192/1	
KNORR BREMSE ABS Relay Valve		MM33192/1
	DOUBLE (2 x SEAT) 0 486 204 018 For Single see MM33192	
WABCO Double ABS Modulator Relay Valve		MM33199
	RL 351822 472 195 0410/0440 For Single see MM33102 NISSAN UD 410/440	

Worm Shaft		MM1263
		
Worm Wheel (Std) 26 Tooth Spline		MM22189
		
Worm Wheel (1mm oversize) 26 Tooth Spline		MM22189/1
		
Control Plate Short Arm (55°)		MM33001
	Casting No : Haldex 688 3071 and 3072 3878 and 3879	

SLACK ADJUSTERS

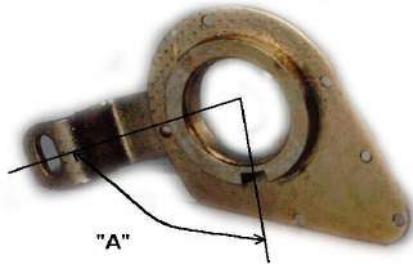
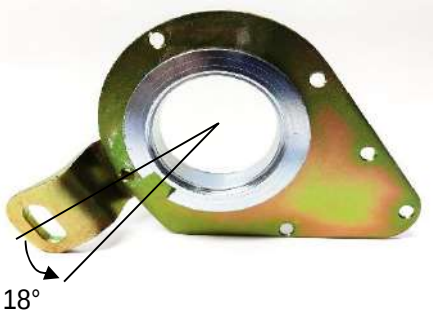


Control Plate Long Arm (84°)		MM33001/1
	Casting No: 3177 PT 566 HALDEX	
Control Plate 90 Degree Arm (25°)		MM33001/2
	Casting No: 10097	
Setting Machine		MM33001/3
	Gauge 63mm Dial 0-6000 KPa Bottom mount 1/4" BSPT (Tapered THD)	
Control Plate Long Arm (170°)		MM33001/4
		

Control Plate Short Arm (85°)	MM33001/5	
		
Control Plate Long Arm (180°)	MM33001/6	
		
Control Plate Ex-Long (150°)	MM33001/7	
Control Plate Short Arm (Parallel Slot)	MM33001/8	
	BPW Trailer Parts supplied loose (Customer to set angle on Control Plate)	

SLACK ADJUSTERS



Control Plate Special (any orientation)		MM Special
	Specify Angle "A" and Specify Arm Type: i) MM33001 Special ii) MM33001/1 Special iii) MM33001/2 Special	i) SHORT  ii) LONG  iii) 90° 
Control Plate Short Arm (18°)		MM33001 A
	565 Control Plate Slack Adjuster 3185 + 3186	
Major Repair Kit		MM33002
	76046	
Minor Repair Kit		MM33002/1
		



SLACK ADJUSTERS

Major Repair Kit c/w Worm Shaft

MM33002/2



76046

CAT 231H Slack Adjuster (Mineral Oil)

MM33182



INCLUDES O-RINGS AND SPRINGS

SPLITTER VALVES



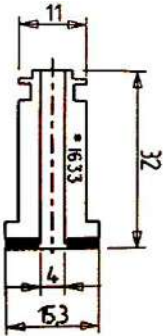
KNORR Splitter (Minor, No Shaft)

MM33048



VALVE No.
SV 3368

ALTERNATE PART NUMBERS
KNORR: SP 705

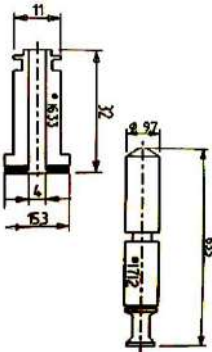


KNORR Splitter (Major with Shaft)

MM33048/1



VALVE No.
SV 3368

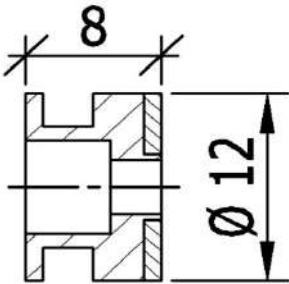


KNORR Splitter

MM33061

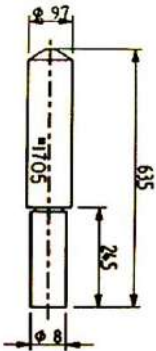


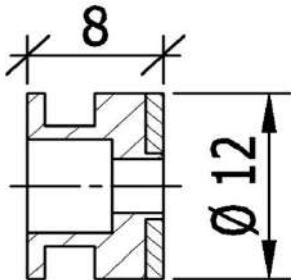
VALVE No.
SV 3360



KNORR Splitter Valve (with Shaft)

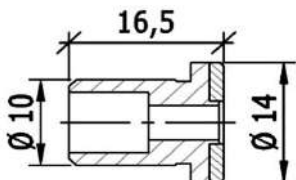
MM33061/1

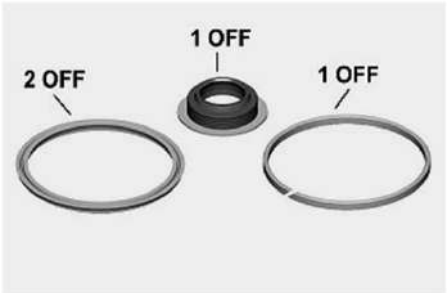
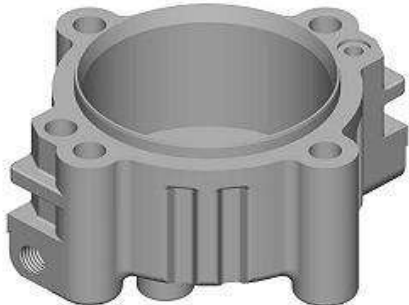
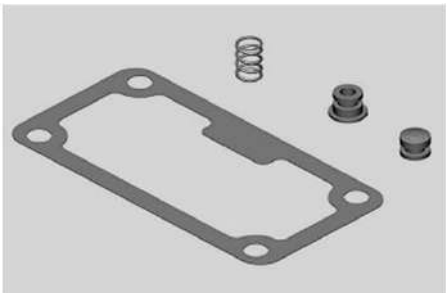
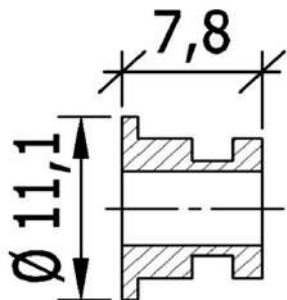
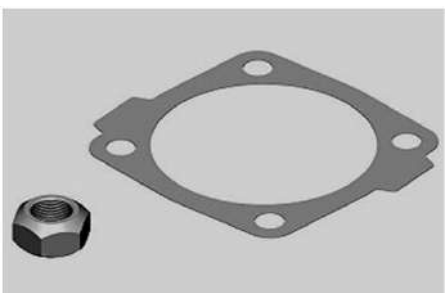


Splitter Valve		MM33071
QTY: 2 OFF EACH ITEM SV 3361  INCLUDES O-RINGS	VALVE No. SV 3361  RL 1705 XA	
KNORR Splitter Valve (Major with Shaft)		MM33072
	VALVE No. SV 3370	
KNORR Splitter Valve		MM33073
	ALTERNATE PART NUMBERS SV 3367	
WABCO POWERLINER Exh. Splitter		MM33074
	VALVE No. 463013/012 ALTERNATE PART NUMBER WABCO: 465 013 2000	

SPLITTER VALVES

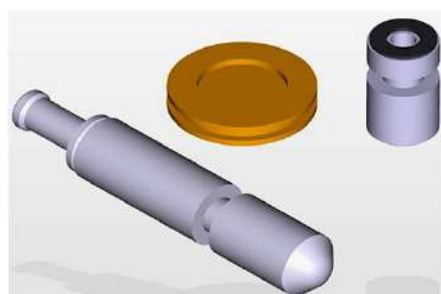
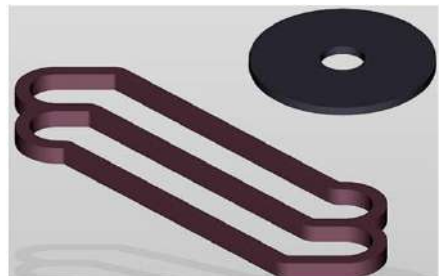
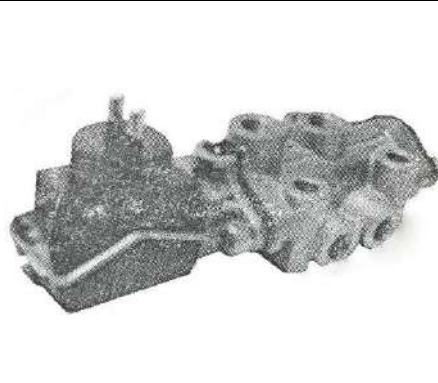
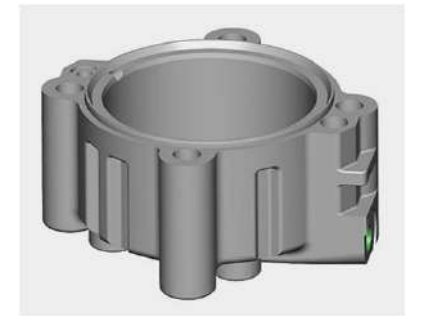


KNORR Splitter Valve		MM33075
	VALVE No. SV 3371	
WABCO Splitter Valve		MM33085
		
WABCO Splitter Valve		MM33088
	VALVE No. 463 063 000 2	
WABCO Splitter Valve		MM33114
	VALVE No. 4630460146	

MERC ZF Gearbox Splitter (Air Only)	MM33127
 INCLUDES O-RINGS	
ZF Gearbox Splitter Housing	MM33127/1
	Pot Size = 90mm ID
Splitter Valve Repair Kit	MM33129
 INCLUDES O-RINGS	KIT No. K 1699 EATON FULLER A5000 Original 
Splitter Valve Ring Kit	MM33129/1
 INCLUDES O-RINGS	KIT No. K 1450

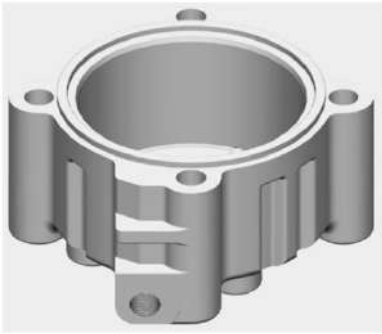
SPLITTER VALVES



KNORR BREMSE 2 Pin Splitter Valve		MM33145
	VALVE No. A 002260 3057 ACTROS AXOR VIELMETTER 12/90 33V1 0350	
2 off EACH PLUS O-RINGS		
SCANIA Splitter Valve		MM33150
	VALVE No. 1488083	
INCLUDES O-RINGS		
MAN ZF Gearbox Splitter Housing F2000		MM33156
	For Seal see MM33156/1 Pot Size = 90mm ID	
Seal Kit for MM33156		MM33156/1
	MAN F2000 DAF	

MAN Gearbox Splitter Housing

MM33172



Pot Size = 90mm ID
ZF Part No. H 1315
Use Kit MM 33156/1
434056

DAF Gearbox Control Valve

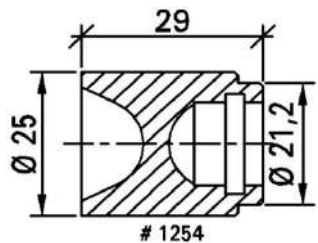
MM33197



WABCO: 463 022 0200





Centre Shafts		
 $\varnothing 15.98$		
	Anchorlock type centre shaft (L = 76)	MM1202
	Long Stroke Centre Shaft (L = 79)	MM1202-2
	Extra long stroke centre shaft (L=94)	MM1202-3
	Extra long stroke centre shaft (L=100)	MM1202-4
BZ 6621 Spring Brake Piston		MM1254
		
Tristop Top Cap		MM1293
		
KNORR Spring Brake Shaft (Pull Type)		MM1376
	SZ 1704	

MAN Booster Neckseal (BZ)



Neckseal Kit
45.5 OD x 35.5 ID x 28 Long
(Neckseal & O-Rings Included)

MM1518

Neckseal O-Ring Kit
45.5 OD x 35.5 ID x 28 Long
(O-Rings Only)

MM1518/1

Knorr Tristop Neck Seal Kit
45.0 OD x 35.3 ID x 20 Long
(Neckseal & O-Rings Included)

MM1518/2

End Plate for MM1202



Dia. 47

MM1687

Dia. 53

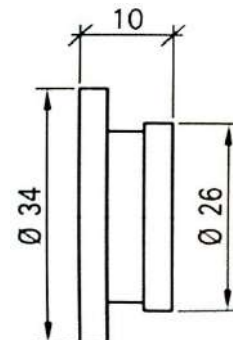
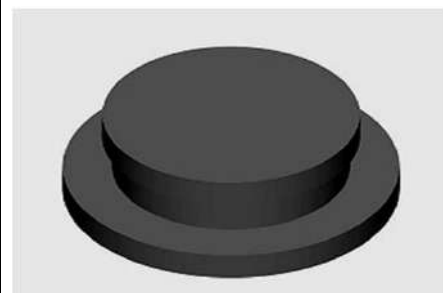
MM1687/1

ALTERNATE PART NUMBERS:

A.S.A. 5943

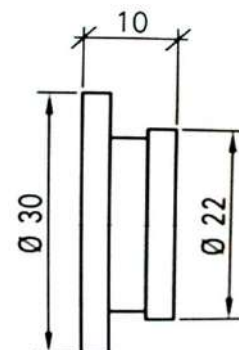
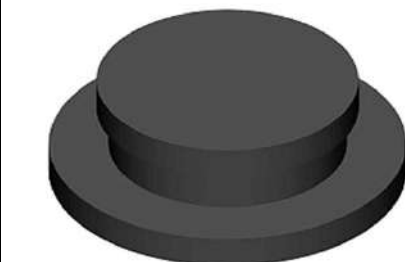
Grommet Anchorlock 24/30

MM1766



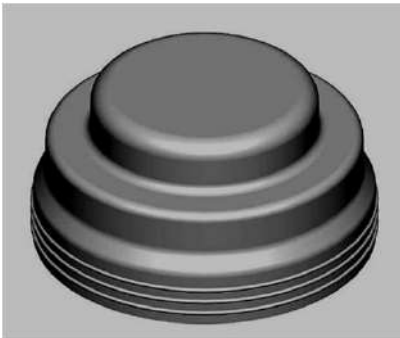
Grommet Anchor Lock 24/30 Booster

MM1767





Insert for Brake Booster		MM1810
		
Push Rod Extension 250mm		MM1814
		
Boot for MM33097		MM2080
		
Japanese Spring Brake (4 stud) TOYOTA / HINO		MM22205
		

Rubber Boot for Maxi Spring Brake		MM22426
 1 PER KIT	ALTERNATE PART NUMBERS A.S.A. 5803 W/H: 651010	
Japanese Spring Brake (2 Stud) Maxi Type		MM22427
	Double "O" ring	MM22427/1
	ALTERNATE PART NUMBERS A.S.A. 6194 W/H: 651005-M	
MGM Dust Cap		MM22435
	ALTERNATE PART NUMBERS A.S.A. 5941	
MGM Piston Type 30		
	Without Circlip	MM22470
	Complete with Circlip	MM22470/1
	ALTERNATE PART NUMBERS BENDIX: SK 2758/2 W/H: 651003	



MGM Piston Type 24



Without Circlip
With Circlip

MM22472

MM22472/1

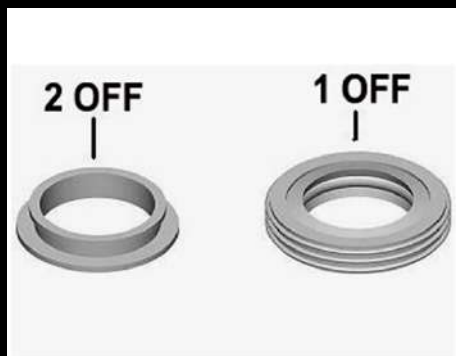
ALTERNATE PART NUMBERS

BENDIX: SK 2759/2

W/H: 651002

Anchorlock Type Centre Seal (Double Diaphragm)

MM22491



MGM

ALTERNATE PART NUMBERS

A.S.A. 5948

INCLUDES O-RINGS

BERG Spring Brake Centre Seal

MM33006

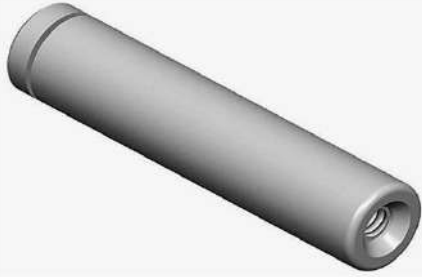
O-ring Size: 15.5x2.6



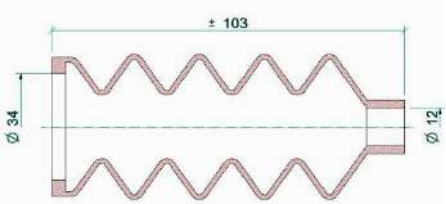
MGM Centre Seal c/w Centre Shaft

MM33011/1



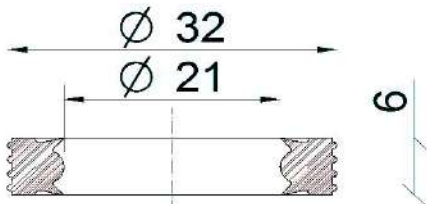
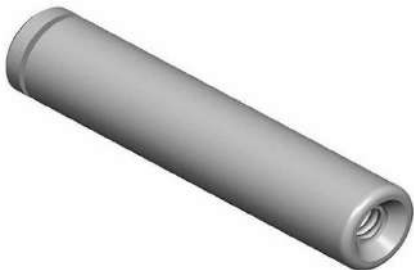
MGM Centre Shaft		
		
	L = 94	MM33011
	L = 110	MM33011/2
MGM End Plate (50.8 x 12 x 5)		MM33011/3
		
Anchorlock Rubber Boot & Plate		MM33031
	ALTERNATE PART NUMBERS A.S.A. 5936	
Tristop Boot		
		
	TRISTOP rubber boot (1 hole)	MM33031/1
	TRISTOP rubber boot with small plate	MM33031/2
	ALTERNATE PART NUMBERS 897 750 980 4	



Rubber Boot		MM33031/3
 1 PER KIT		
WABCO Tristop (Type 24)		MM33034
	VALVE No. 925 324***0/925 321***0 Universal 890 110 347 0/890 110 350 0 ALTERNATE PART NUMBERS A.S.A. 5704 925 320 001 2	
Rubber Boot		MM33034/1
		
WABCO Tristop (Type 30)		MM33035
	VALVE No. 925 322***0 Universal 890 110 353 0 ALTERNATE PART NUMBERS A.S.A. 5703 925 320 002 2	

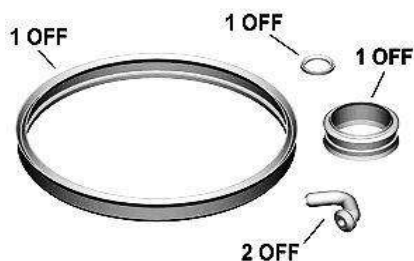
CLAYTON Spring Brake Type 24 (LEYLAND)		MM33036
		
CLAYTON Spring Brake Type 30 (LEYLAND)		MM33037
		
WABCO Tristop (Type 20)		
		
	Split rings	MM33054
	No Split rings	MM33054/1
AFRESAN Spring Brake Centre Seal		MM33057
O-ring Size: 15x3.0 		



MGM "G" (Type 30 VOLVO)	MM33063	
	VALVE No. MGM 4130055	
Centre Shaft D = 22mm x 104mm	MM33063/1	
		
CLAYTON DEWANDRE 16/20 Spring Brake	MM33080	
		
WABCO Spring Brake #24 (MERCEDES POWERLINE)	MM33087	
	BOOSTER No. 9254241000 26/29 ACTROS ALTERNATE PART NUMBERS WABCO: 925420 0042	

WABCO 30-30 Spring Brake

MM33087/1



INCLUDES O-RINGS

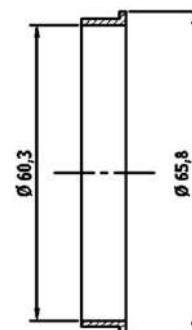
VALVE No.
925 432 4100
925 492 9030



JIDOSHA KIKI Brake Actuator

MM33092

VALVE No.
248 00413 1928



MGM Booster O-rings

MM33096

O-ring Size: 15x2.5

KNORR BREMSE MERCEDES Tristop 24

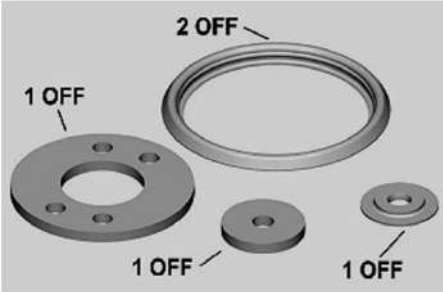
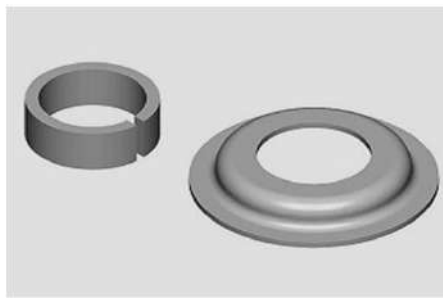
MM33097



INCLUDES O-RINGS

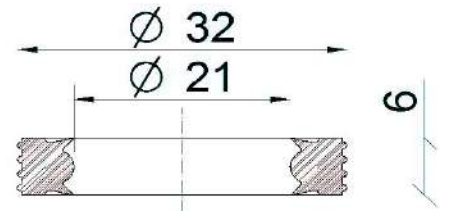
KIT
I-742620051
VALVE
BZ7311-I73649
BZ 7316 / 7420



BELL Actuator		MM33110
	KIT	
	421305002	
	Booster Part No.	
	4213051470	
	Seal 150 OD x 16 High	
MAXI #50 Booster		MM33117
 INCLUDES O-RINGS	KIT	
	KSC 50 BBC 175 NN	
MES 24/30 Booster		MM33119
 INCLUDES O-RING		
BOSCH Tristop Booster #24		MM33140
 Includes O-Rings	VALVE No.	
	0482 512 001	
	KIT No.	
	1487 010117	

WESTERN STAR Type 36 Spring Brake

MM33184



BOSCH Pull Type Spring Brake

MM33189



#1 487 010 189

For

0482 074 002/3

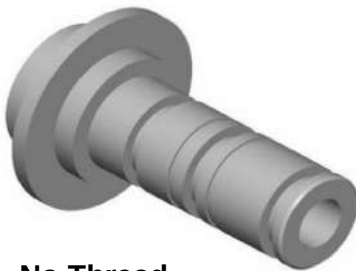
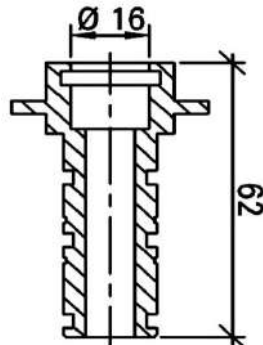
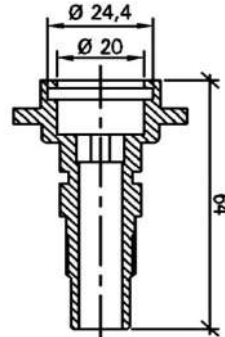
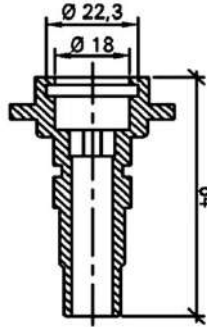
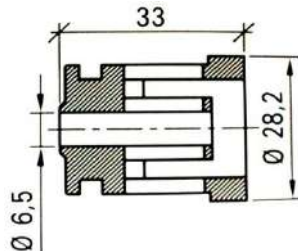
482075010

148283068

130mm Seal



Diaphragms		
	Type 16	MM33029
	Alternate part number WABCO: 897 120 510 4 W/H: 615005 MAXI: 234189-M	
	Type 20	MM33030
	Alternate part number WABCO: 897 120 520 4 W/H: 615006 MAXI: 234009-M	
	Type 24	MM33007
	Alternate part number WABCO: 897 120 530 4 W/H: 615007 MAXI: 234100-M	
	Type 30	MM33008
	Alternate part number WABCO: 897 120 540 2 W/H: 615008 MAXI: 234101-M	
	Type 30 Deep Dish	MM33008-1

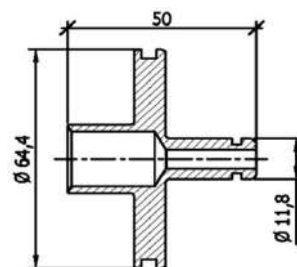
Piston for BOSCH Trailor Control		MM1565
 No Thread	Valve No. 041 061 010 (For Kit see MM22459)	
Piston for BOSCH/VOLVO Valves		MM1565/1
 With Thread		
Piston for BOSCH Trailor Control		MM1565/2
 With Thread	Valve No. 0481 061215	
Plastic Seat for Trailer Hand Brake		MM2024
		

TRAILER CONTROL VALVES



ACTROS Trailer Control Air Piston

MM2614



WABCO ACTROS Trailer Control EBS New Generation

MM3334

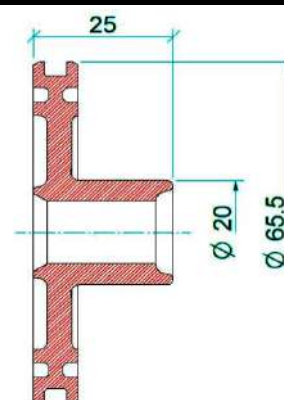


ACTROS / NISSAN / DAF

AIR PISTON

480 204 002 0

(For Kit see MM33131)



BOSCH w/o Dump

MM22215



VALVE No.

0481 061 024/025

ALTERNATE PART NUMBERS

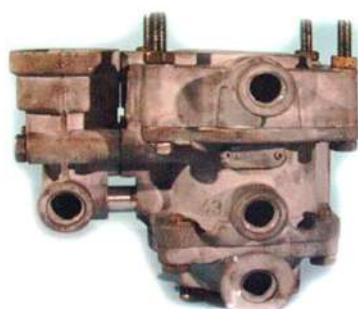
BOSCH: 1487 010 171

A.S.A. 5781

W/H: 657011-M

KNORR w/o Dump

MM22281



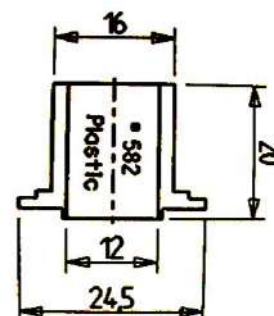
VALVE No.

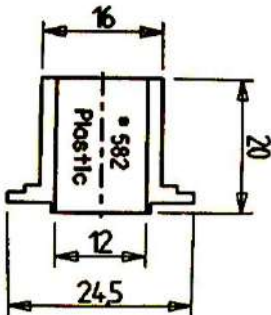
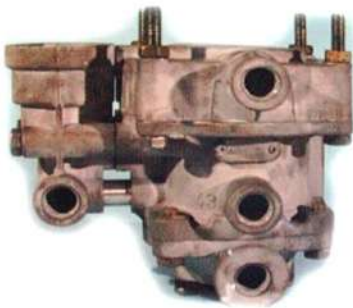
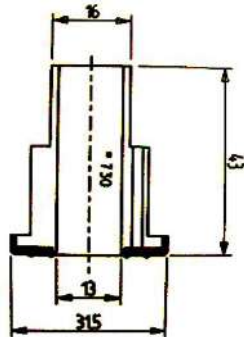
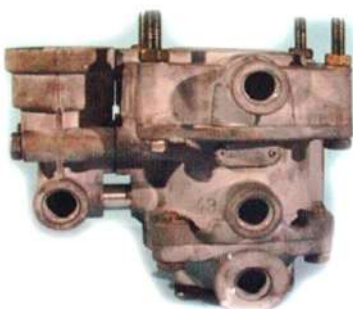
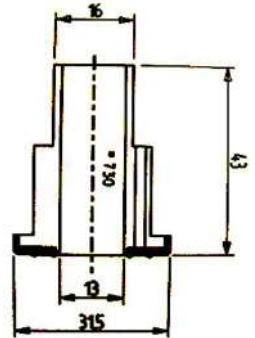
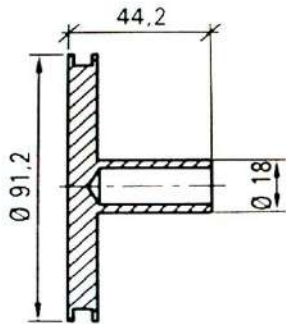
AB 2762/67

ALTERNATE PART NUMBERS

KNORR: I 77065

W/H: 657009-M



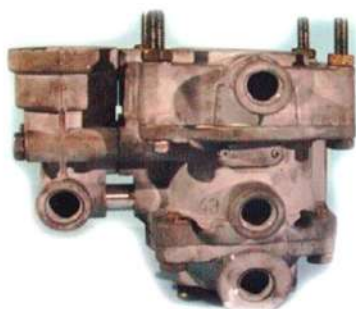
KNORR		MM22283
	VALVE No. AB 2762/72	
KNORR with Dump		MM22308
	VALVE No. AB 2795/97 AB 2817 ALTERNATE PART NUMBERS KNORR: I 85063 A.S.A. 6319 W/H: 657006-M	
KNORR MM22308 c/w Seat		MM22308/1
	VALVE No. AB 2795/97 ALTERNATE PART NUMBERS KNORR: I 85063 A.S.A. 6319 W/H: 657006-M	
Inner Piston for KNORR BREMSE		MM22308/2
		

TRAILER CONTROL VALVES



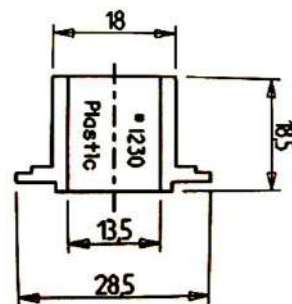
BOSCH with Dump (Large Piston - Stem = 18mm)

MM22335



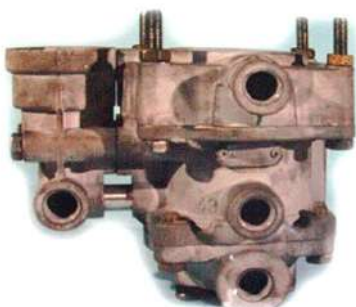
VALVE No.
0481 061 214/5

ALTERNATE PART NUMBERS
BOSCH: 1487 010 207
A.S.A. 6549
W/H: 657005-M

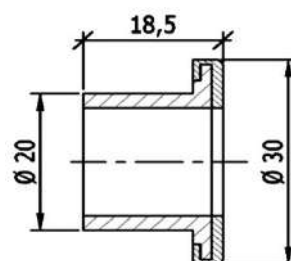


BOSCH VOLVO (Piston Stem = 20mm)

MM22335/1



ALTERNATE PART NUMBERS
BOSCH: 0481 061 209
VOLVO: 1607887
KNORR: AB2835



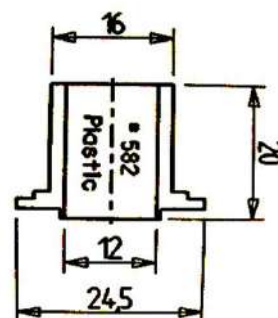
BOSCH w/o Dump

MM22413



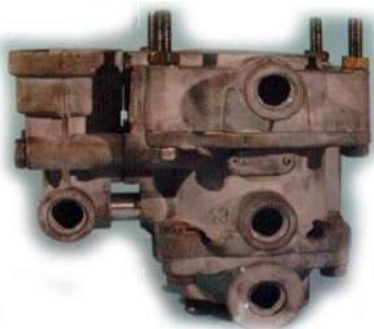
VALVE No.
0481 061 005/006/012/013

ALTERNATE PART NUMBERS
BOSCH: 1487 010 167
A.S.A. 6212
W/H: 657004/M

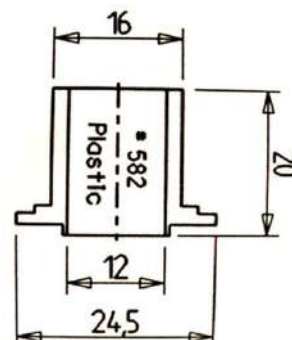


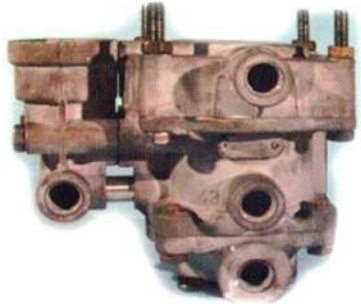
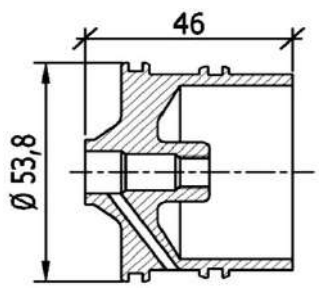
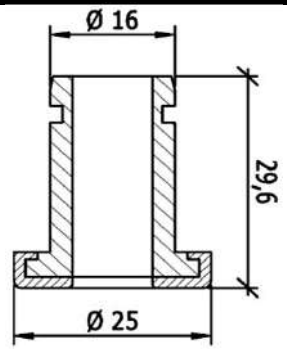
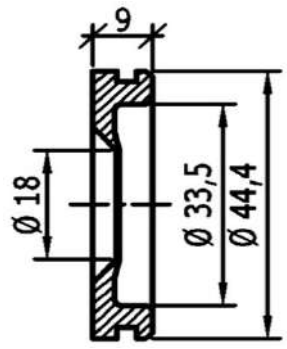
BOSCH with Dump (Small Piston)

MM22459



VALVE No.
0481 061 214/5
(For Piston see MM1565)
ALTERNATE PART NUMBERS
BOSCH: 1487 010 168
A.S.A. 6209
W/H: 657003-M



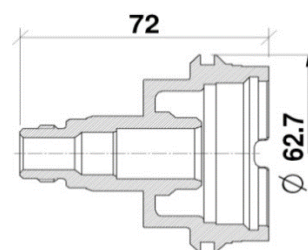
WABCO with Dump		MM22471
	VALVE No. 973 002***0	
	Piston	MM22471/1
	ALTERNATE PART NUMBERS WABCO: 973 002 00* 2 A.S.A. 5741 W/H: 657002-M	
Piston for MM22471		MM22471/2
		
WABCO SK Range		MM33044
	Valve No. 973 009 000 2 WABCO 973 009 001 0 973 009 0060 973 009 0100 973 009 0140 FUSO 973 009 0150 VOLVO / DAF	
Plastic Seat for MM33044		MM33044/1
		

TRAILER CONTROL VALVES



Piston for MM33044 (POWERLINE & SCANIA)

MM33044/2



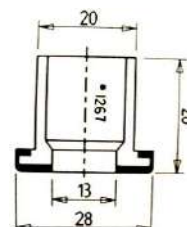
Japanese t/p (TOYOTA HINO)



Full Kit
Piston only

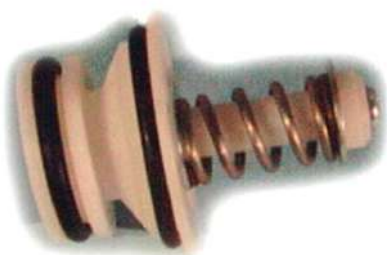
MM33045

MM33045/1



GRAU t/p Dump Piston (POWERLINER)

MM33046



VALVE No.
355 071 001

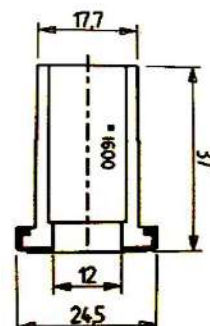
KNORR with Dump (New Generation)

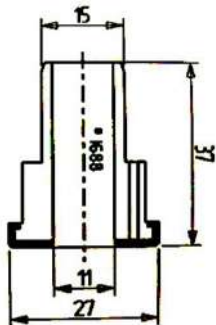
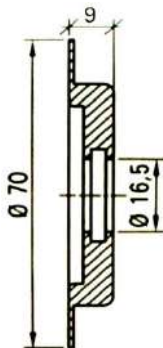
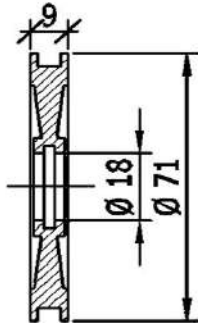
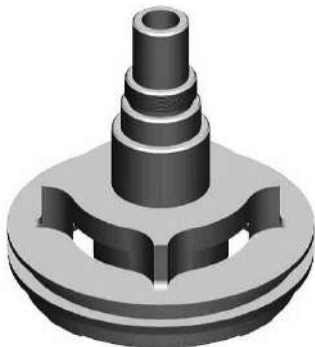
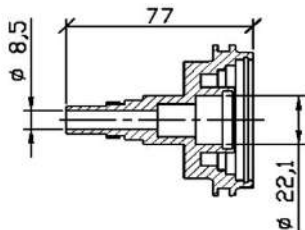
MM33052



VALVE No.
AB 2840

ALTERNATE PART NUMBERS
KNORR: I 93362/008



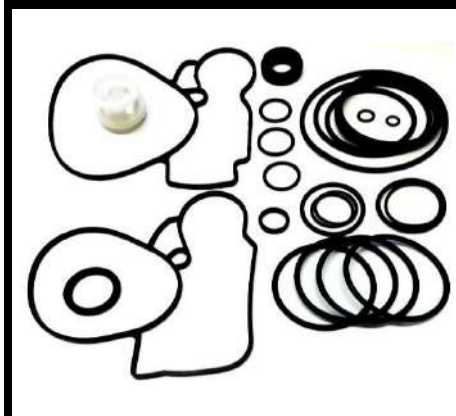
BENDIX with Dump ERF		MM33058
	VALVE No. KY 1732/2 KY 2106/5 ALTERNATE PART NUMBERS BENDIX: SK 2872/1 3/8 PORTS	
BENDIX Trailer Control Cover Plate		MM33058/1
		
BENDIX Trailer Control Piston		MM33058/2
	(For Kit see MM33058)	
BENDIX Trailer Control Main Piston		MM33058/3
	(For Kit see MM33058)	

TRAILER CONTROL VALVES

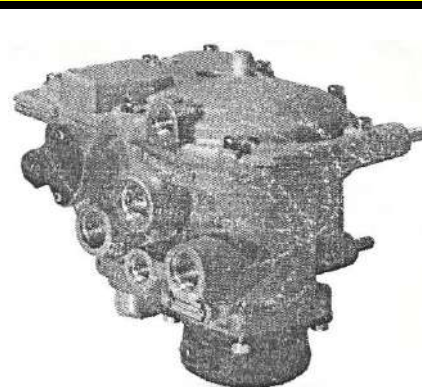


WABCO ACTROS Trailer Control Valve

MM33131



Valve No.
480 204 0010 NISSAN
UD440/460
4 802 040 020
IVECO
(For Piston see MM3334)
(For Filter Cap see MM33131/1)



Filter Cap for WABCO ACTROS Trailer Control Valve

MM33131/1



Filter Cap for MM33131

Cap for WABCO ACTROS Trailer Control Valve

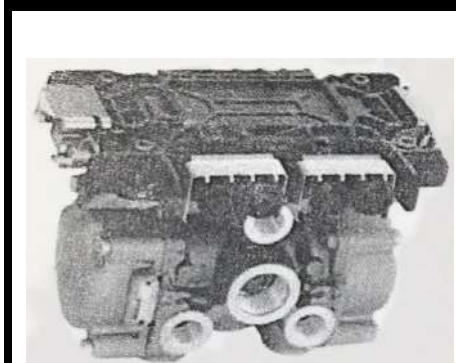
MM33131/2



Cap for MM33131

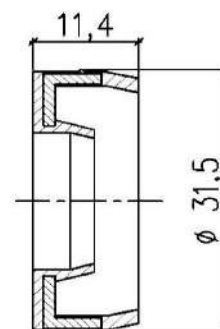
ABS/MODULATING WABCO Trailer Control Valve

MM33160

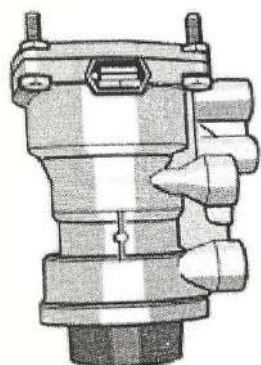


INCLUDES O-RINGS

Valve No.
400 500 0810
Double Piston with K-seal
480 104 0020/30/40
AXOR MODULATOR VALVE
461 513 0000
480 105 0040/70



KNORR BREMSE DAF Trailer Control

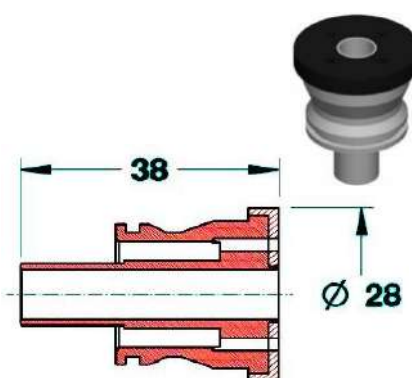
MM33166


INCLUDES O-RINGS

AC596A / AC599A
76615101 / 76614702

AXOR
AC 597A
AC 597E IVECO

(For Piston see Kit MM33166/1)

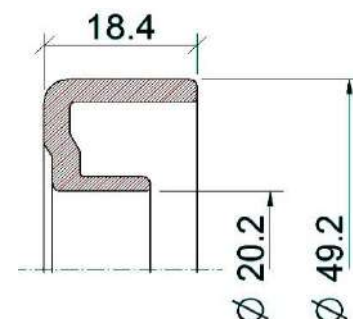


Piston for KNORR BREMSE DAF Trailer Control

MM33166/1


AC599A

(For Kit see MM33166)



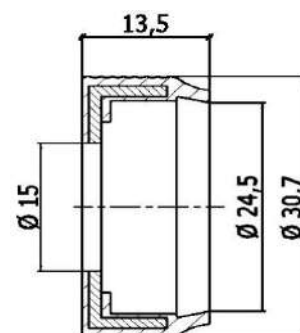
MAN TGA Trailer Valve with Dump (EBS)

MM33175


INCLUDES O-RINGS

VALVE No.
81.5230.16.206
486 205 011
486 205 022
815 2301 6212

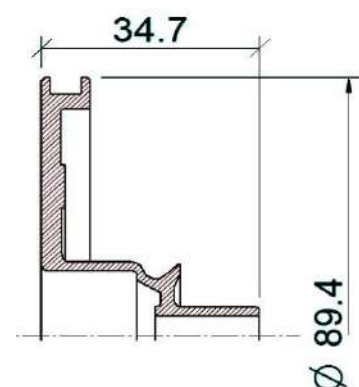
(For Piston see Kit MM33175/1)



Piston for MAN TGA Trailer Valve with Dump (EBS)

MM33175/1


(For Kit see MM33175)



TRAILER CONTROL VALVES

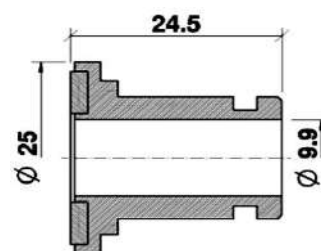


HALDEX Trailer Control Valve

MM33177



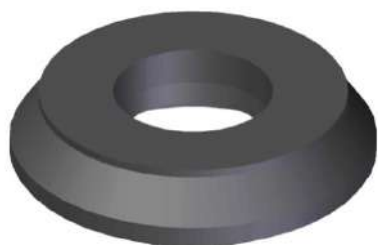
VALVE No.
355 094 001
AXOR A000431
9513/002(M/BENZ)



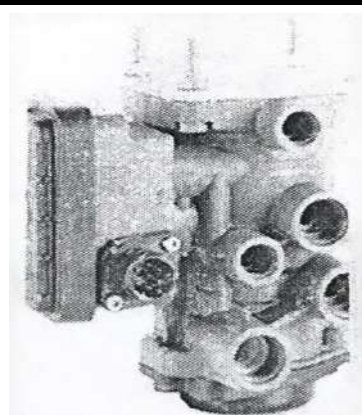
INCLUDES SEALS & O-RINGS

KNORR BREMSE Trailer Control Modulator

MM33205



MAN TGA
PART No.
K020623N50
K000917
815 2301 6213



INCLUDES O-RINGS

WABCO New Generation Unloader

MM22311


VALVE No.
975 303*0**

ALTERNATE PART NUMBERS

WABCO: 975 303 001 2

A.S.A. 5698

W/H: 661004

Base Cap for Unloader Valve

MM22311/2


WABCO Old Generation Unloader

MM22493


VALVE No.
975 300* ***

ALTERNATE PART NUMBERS

WABCO: 975 300 000 2

A.S.A. 5245

W/H: 661001-M

BOSCH New Generation Unloader

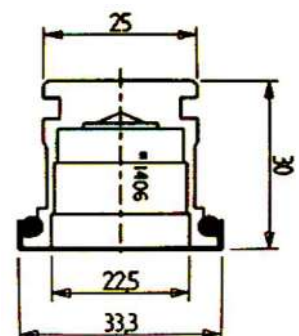
MM33033


VALVE No.
0481 039 209

ALTERNATE PART NUMBERS

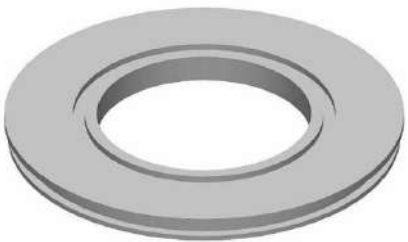
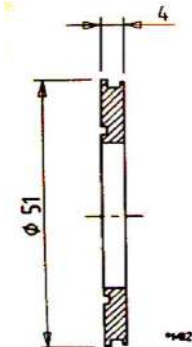
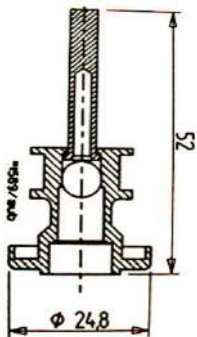
BOSCH: 1487 010 165

A.S.A. 6409



UNLOADER VALVES



Seat Disc for BOSCH Unloader		MM33033/1
		
KNORR Unloader		MM33049
	VALVE No. DR 3500-3548 ALTERNATE PART NUMBERS KNORR: I 87546	
KNORR BREMSE Unloader Valve		MM33076
	VALVE No. DR 3200	



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