

PRODUCT CATALOGUE



- PRODUCTS and SOLUTIONS for Commercial Vehicles
- APPLICATIONS for Vehicle Manufacturing
- ORIGINAL QUALITY for Repair



PRODUCT CATALOGUE



Edition 2

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WABCO
Vehicle Control Systems

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This product catalogue provides you with an overview of the products offered by WABCO for the installation in a variety of vehicles.

It shows an extract of our delivery programme. You will find further information about our products in our online product catalogue INFORM at www.wabco-auto.com

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This product catalogue is exclusively directed to trained and qualified personnel of authorized workshops and specialised trade.

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Figures are not used for product identification because products may look the same. The 10-digit WABCO product number on the type label is used for identification.

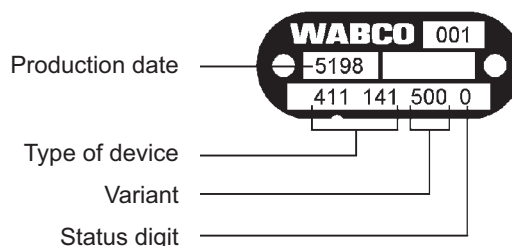
Informations about products

Exchange Unit:	This attractive offer requires the return of old devices.
Alternative for:	Replacement of products with adjustment
Replacement for:	Replacement of products without adjustment
Vehicle Application:	Vehicle where the product is installed
Repair kit:	Kit with spare parts for repair

Structure of WABCO number

WABCO product numbers are composed of 10 digits.

There are deviations where wheel brakes are concerned. (Product Number Extension VT = saleable Spare Part)



- 0 = New device (complete device)
- 1 = New device (subassembly)
- 2 = Repair kit or subassembly
- 4 = Component part
- 7 = Exchange unit

Repair

Repairs must be made by qualified expert technicians with specific knowledge of the system only.

It is imperative that the applicable accident prevention regulations of the company as well as national regulations are observed.

It is imperative that the vehicle manufacturer's specifications and instructions are complied with.

Adjustment

Even where devices have the same product number, they may have different operating principles. Electronic control units especially are often produced universally and then adjusted for a particular application by the vehicle manufacturer setting corresponding parameters. If a replacement is required the device must be calibrated or parameterized with diagnosis equipment. Therefore you need to attend an adequate system training course and have the knowledge of special settings.

Apart from electronic control units, automatic load-dependent brake-power distribution is also likely to require special adjustments and settings.

Test

After replacing or repairing a device, a functional test of the entire system must be performed.

It is imperative that universal devices are tested on the basis of the vehicle manufacturer's data (such as LSV label, brake calculation etc.).

Perform a test drive after finishing work on the vehicle.

How to find information in the product catalogue?

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Product category

- range of application
- product types

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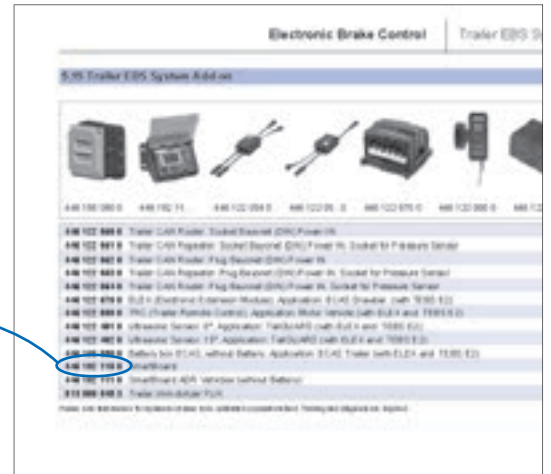


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Compressed Air Generating System

1.01 Compressor (Single Cylinder) 41./ 91.

Compressor (Single Cylinder) 41. ...



411 003 011 0	150 cm ³ , Lubrication: Manually operated, air cooled, 2600 1/min
411 033 801 2	Cylinder head Mercedes NG, O 303/ 305/ 307/ 405/ 407/ 408
411 033 806 2	Cylinder head MAN F90, F2000, TGA
411 034 501 0	229 cm ³ , circular pressure lubrication, air cooled, 2800 1/min, Flange: Vickers
411 141 001 0	159 cm ³ , circular pressure lubrication, air cooled, 3000 1/min. Belt pulley
411 141 002 0	159 cm ³ , circular pressure lubrication, air cooled, 3000 1/min
411 141 004 0	159 cm ³ , circular pressure lubrication, air cooled, 3000 1/min. Belt pulley
411 141 005 0	159 cm ³ , circular pressure lubrication, air cooled, 3000 1/min
411 141 006 0	159 cm ³ , circular pressure lubrication, air cooled, 3000 1/min. Belt pulley
411 141 010 0	159 cm ³ , circular pressure lubrication, air cooled, 3000 1/min, Agriculture
411 141 102 0	159 cm ³ , circular pressure lubrication, air cooled, 3000 1/min. Belt pulley. Electrical clutch. 12V
411 141 503 0	159 cm ³ , circular pressure lubrication, air cooled, 3000 1/min
411 141 506 0	159 cm ³ , circular pressure lubrication, air cooled, 3000 1/min
411 141 552 0	149 cm ³ , circular pressure lubrication, water cooled, 3000 1/min. Belt pulley
411 141 845 0	159 cm ³ , circular pressure lubrication, air cooled, 3000 1/min
411 143 805 0	293 cm ³ , circular pressure lubrication, air cooled, 3000 1/min
411 145 507 0	203 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, Flange mounted compressor with gearwheel drive and cover on VickersFlange, with a -70 degree angle
411 146 003 0	229 cm ³ , circular pressure lubrication, air cooled, 3000 1/min, Flange mounted compressor
411 147 066 0	293 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, Flange mounted compressor
411 151 000 0	238 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, Flange mounted compressor, Mercedes (OM 904/906)
411 151 003 0	238 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, Flange mounted compressor, Mercedes (OM 904/906). Replacement: 411 151 008 0
411 151 004 0	238 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 3-hole flange, Through drive, MAN
411 151 009 0	238 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, Through drive, Mercedes. Replacement for: 411 151 008 0
411 153 500 0	318 cm ³ , circular pressure lubrication, water cooled, 4-hole flange, Through drive, Mercedes. Replacement: 411 153 502 0
411 154 004 0	352 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, Through drive, Mercedes. Replacement for: 411 154 000 0, 411 154 003 0
412 352 002 0	352 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, Through drive, Mercedes (OM 900). Replacement: 412 352 025 0
412 352 003 0	352 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 3-hole flange, Through drive, MAN
412 352 004 0	352 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 3-hole flange, VOLVO
412 352 005 0	352 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 5-hole flange, VOLVO
412 352 008 0	352 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 3-hole flange, Through drive, IVECO. Replacement: 412 352 020 0 & Nut M 18x1.5 LH
412 352 011 0	Replacement: 412 352 027 0. Sealing flange Mercedes A 457 131 01 80 additionally required.
412 352 014 0	Replacement: 412 352 026 0. Sealing flange Mercedes A 457 131 01 80 additionally required.
412 352 015 0	Replacement: 412 352 027 0. Sealing flange Mercedes A 457 131 01 80 additionally required.
412 352 016 0	Replacement: 412 352 027 0. Sealing flange Mercedes A 457 131 01 80 additionally required.
412 352 020 0	352 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 3-hole flange, Through drive
412 352 025 0	352 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, Through drive, Mercedes
412 352 026 0	352 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, Through drive, Mercedes
412 352 027 0	352 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, Through drive, Mercedes

Compressor (Single Cylinder) 91. ...



911 145 0.. .



911 145 5.. .



911 153 0.. .



912 116

911 145 060 0	159 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, IVECO
911 145 560 0	221 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, IVECO
911 153 001 0	318 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, Through drive, Mercedes
911 153 010 0	Replacement: 911 153 020 0
911 153 552 0	318 cm ³ , circular pressure lubrication, water cooled, 3000 1/min
911 153 607 0	Replacement: 911 153 019 0
911 153 938 0	Replacement: 911 153 020 0
911 514 800 2	Cylinder head. MAN M90, M2000, L2000
912 116 000 0	352 cm ³ ; circular pressure lubrication, water cooled, 3000 1/min, 3-hole flange, Through drive
912 117 000 0	352 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 3-hole flange, Through drive
912 125 000 0	238 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, John Deere
912 126 002 0	238 cm ³ , circular pressure lubrication, air cooled, 3000 1/min, 3-hole flange. Replacement for: 912 126 001 0
912 126 003 0	318 cm ³ , circular pressure lubrication. water cooled, 3000 1/min, 3-hole flange. Through drive
912 126 004 0	318 cm ³ , circular pressure lubrication. water cooled, 3000 1/min, 3-hole flange. Through drive. Power Reduction

1.03 Compressor (Twin Cylinder) 41./ 91.

Compressor (Twin Cylinder) 41. ...



412 636 001 0

411 553 001 0	636 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, Through drive
411 553 003 0	636 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, Through drive
412 442 000 0	442 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 3-hole flange
412 442 001 0	442 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 3-hole flange
412 636 001 0	636 cm ³ , circular pressure lubrication, water cooled, 3000 1/min. Flange mounted compressor with gearwheel. Flange: Vickers, Mercedes (OM 900). Replacement: 912 510 001 0
412 704 001 0	704 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 5-hole flange. Replacement: 412 704 008 0
412 704 004 0	Replacement: 412 704 008 0
412 704 005 0	Replacement: 412 704 008 0
412 704 008 0	704 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 5-hole flange, VOLVO
412 704 009 0	704 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 5-hole flange, Renault
412 704 015 0	Replacement: 412 704 018 0
412 704 018 0	704 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 3-hole flange, VOLVO

Compressor (Twin Cylinder) 91. ...

1



911 504 ...

911 506 054 0

911 553 ...

911 504 506 0	442 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, DAF, Toothed wheel. Replacement for: 911 504 503 0, ...504 0, ...505 0
911 506 054 0	442 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange. Truck: IVECO
911 553 100 0	636 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, Through drive, Mercedes. Replacement: 911 553 103 0
911 553 103 0	636 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange. Sealing flange Mercedes A 457 131 01 80 additionally required.
911 553 203 0	636 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, Through drive, Mercedes. Replacement for 911 553 200 0
912 510 001 0	636 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, Through drive, Toothed wheel, Mercedes
912 510 104 0	636 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 4-hole flange, Through drive, Mercedes. Replacement for: 912 510 101 0, 911 553 105 0
912 512 004 0	636 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 3-hole flange, VOLVO. Replacement: 912 512 008 0
912 512 006 0	636 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 5-hole flange, VOLVO
912 512 008 0	636 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 3-hole flange, VOLVO
912 514 004 0	636 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, 3-hole flange, Renault
912 518 003 0	2-stage: 352/119 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, Toothed wheel: DAF, Through drive. Replacement: 912 518 004 0
912 518 004 0	2-stage: 352/119 cm ³ , circular pressure lubrication, water cooled, 3000 1/min, Toothed wheel: DAF, Through drive

1.05 Compressor Unit 415 ...



415 403 402 0

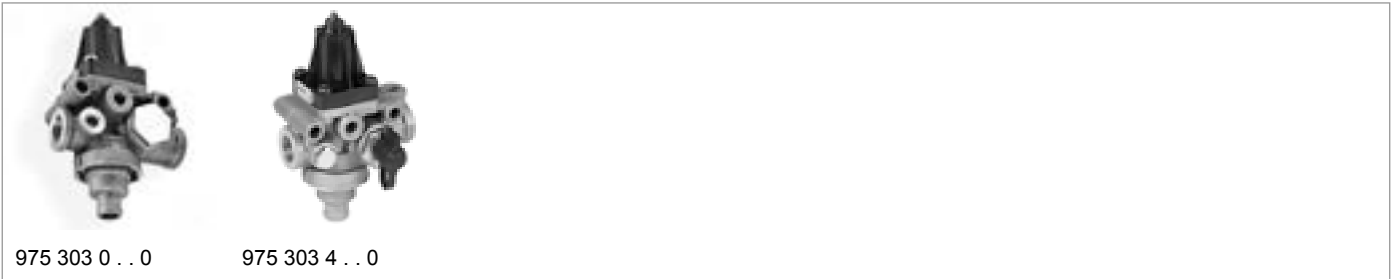
415 403 404 0

415 403 ...

415 403 105 0	12 V, 420 W max. Quantity delivered 18 l/min (10 bar), IVECO (Daily), Streparava
415 403 106 0	12 V, 420 W max. Quantity delivered 18 l/min (10 bar), Audi A6 (Allroad C5)
415 403 112 0	Alternative: 415 403 303 0
415 403 122 0	12 V, 288 W max. Quantity delivered 18 l/min (8 bar). Operating pressure 14 bar max., Renault. Replacement for: 415 403 101 0
415 403 126 0	12 V, 420 W max. Quantity delivered 22 l/min (10 bar). Operating pressure 13.2 bar max., Kia (Mohave)
415 403 300 0	12 V, 420 W max. Quantity delivered 18 l/min (10 bar). Operating pressure 14.4 bar max. Alternative for: 415 403 108 0 / 404 0, Range Rover
415 403 301 0	12 V, 288 W max. Quantity delivered 16 l/min (8 bar). Operating pressure 9.5 bar max. Alternative for: 415 403 100 0, BMW (5-series, X5/1-Axle -ECAS)
415 403 302 0	12 V, 420 W max. Quantity delivered 25 l/min (10 bar). Operating pressure 16 bar max. Alternative for: 415 403 113 0, Porsche (Cayenne), VW (Touareg 1)
415 403 303 0	12 V, 420 W max. Quantity delivered 18 l/min (10 bar), Operating pressure 16 bar max. Alternative for: 415 403 112 0. Mercedes (E-, S-Class)
415 403 304 0	12 V, 420 W max. Quantity delivered 18 l/min (10 bar). Operating pressure 16 bar max. Alternative for: 415 403 109 0, BMW (X5, 2-Axles-ECAS)
415 403 305 0	12 V, 420 W max. Quantity delivered 25 l/min (10 bar). Operating pressure 16 bar max. Alternative for: 415 403 123 0, Audi (Q7)
415 403 401 0	Land Rover (Discovery 2). Alternative: 415 403 925 2
415 403 402 0	Air Compressing System, 12 V, 420 W max. Quantity delivered 18 l/min (10 bar), DAF, IVECO (Daily)

415 403 404 0	Air Compressing System, 12 V, 420 W max. Quantity delivered 25 l/min (10 bar). Operating pressure 14.4 bar max., Land Rover
415 404 001 0	Air Compressing System, 12 V, 264 W max. Quantity delivered 22 l/min (4 bar). Operating pressure 6.1 bar max., GM, Isuzu, Saab

1.06 Unloader 975 303



975 303 0 . . 0

975 303 4 . . 0

160 246 990 8	Cut-in pressure 8.2 bar. Cut-out pressure 9.4 bar
975 300 110 0	Alternative: 975 303 473 0. Modification demanded, note vehicle homologation
975 303 040 0	M 22x1.5. Cut-out pressure 7.3 ±0.2 bar
975 303 060 0	M 22x1.5. Cut-out pressure 8.1 ±0.2 bar
975 303 072 0	M 22x1.5. Cut-out pressure 8.5 ±0.2 bar
975 303 080 0	M 22x1.5. Cut-out pressure 9.5 ±0.2 bar
975 303 081 0	M 22x1.5. Cut-out pressure 9.5 ±0.2 bar
975 303 141 0	M 22x1.5. Cut-out pressure 12.5 ±0.2 bar
975 303 220 0	M 22x1.5. Cut-out pressure 16 -0.5 bar, with silencer
975 303 441 0	M 22x1.5. Cut-out pressure 7.8 ±0.2 bar
975 303 447 0	M 22x1.5. Cut-out pressure 7.3 ±0.2 bar. Replacement for: 975 300 111 0
975 303 469 0	M 22x1.5. Cut-out pressure 8.5 ±0.2 bar
975 303 473 0	M 22x1.5. Cut-out pressure 8.1 ±0.2 bar
975 303 474 0	M 22x1.5. Cut-out pressure 8.1 ±0.2 bar. Tyre inflation port
975 303 474 7	Exchange Unit for: 975 303 474 0
975 303 503 0	M 22x1.5. Cut-out pressure 10 ±0.2 bar
975 303 504 7	M 22x1.5. Cut-out pressure 10 ±0.2 bar. Tyre inflation port. Exchange Unit for: 975 303 504 0

1.07 Vacuum Pump 414/ 914 ...



914 004 001 0

914 005 061 0

914 030 003 0

414 001 002 0	95 cm ³ . Type of operation: Vane type pump. Port threads 1/4"-18 NPTF (Air), 1/8"-27 NPTF (Oil)
914 004 001 0	50 cm ³ . Type of operation: Vane type pump. Port threads 1/4"-18 NPTF (Air), 1/8"-27 NPTF (Oil)
914 004 005 0	50 cm ³ . Type of operation: Vane type pump. Belt pulley
914 005 061 0	85 cm ³ . Type of operation: Piston
914 030 003 0	190 cm ³ . Type of operation: Vane type pump

Air Processing

2.01 Air Dryer (Single Cannister) 432 ...

2



432 410 000 0

432 410 023 0

432 410 080 0

432 411 000 0

432 413 000 0

432 420 000 0

432 415 000 0

432 410 000 0	Cut-out pressure 8.1 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust M 22×1.5. Replacement: 432 410 102 0. Cartridge M 39×1.5, 13 bar
432 410 007 0	Cut-out pressure 8.5 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 020 0	Cut-out pressure 9.5 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 021 0	Cut-out pressure 9.5 bar, without heating. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 022 0	Cut-out pressure 9.5 bar. Heater 24 V. Electrical connection Kostal M 27×1, with silencer. Cartridge M 39×1.5, 13 bar
432 410 023 0	Cut-out pressure 11 bar, without heating. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 026 0	Cut-out pressure 9.8 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust M 22×1.5, with silencer. Cartridge M 39×1.5, 13 bar
432 410 027 0	Cut-out pressure 10 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 028 0	Cut-out pressure 8.1 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 031 0	Cut-out pressure 7.8 bar, without heating. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 033 0	Cut-out pressure 12.5 bar, without heating. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 034 0	Cut-out pressure 12.5 bar. Heater 24 V. Electrical connection Bayonet. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 035 0	Cut-out pressure 11 bar. Heater 24 V. Electrical connection Bayonet. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 036 0	Cut-out pressure 7.3 bar. Heater 24 V. Electrical connection Kostal M 27×. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 041 0	Cut-out pressure 8.5 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 042 0	Cut-out pressure 8.5 bar. Heater 24 V. Electrical connection Kostal M 27×1, for Voss 230. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 050 0	Cut-out pressure 8.1 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour, with safety valve 934 602 150 0 in port S. Cartridge M 39×1.5, 13 bar
432 410 064 0	Cut-out pressure 8.2 bar, without heating. Exhaust: Snap-on contour, with silencer. Cartridge M 39×1.5, 13 bar
432 410 066 0	Cut-out pressure 8.5 bar, without heating, for Voss 230. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 069 0	Cut-out pressure 10 bar. Heater 24 V. Electrical connection Kostal M 27×1, for Voss 230. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 071 0	Replacement: 432 410 087 0
432 410 073 0	Cut-out pressure 11 bar, without heating. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 074 0	Cut-out pressure 12.5 bar, without heating. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 075 0	Cut-out pressure 11 bar. Heater 24 V. Electrical connection Bayonet (DIN). Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 076 0	Cut-out pressure 12.5 bar. Heater 24 V. Electrical connection Bayonet (DIN). Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 079 0	Cut-out pressure 8.5 bar. Heater 24 V. Electrical connection Kostal M 27×1, for Voss 230. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 080 0	Cut-out pressure 9.8 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust, M 22×1.5, with silencer. Cartridge M 39×1.5, 13 bar
432 410 083 0	Cut-out pressure 9.3 bar. Heater 24 V. Electrical connection for Scania, WABCO Cartridge M 39×1.5, 13 bar
432 410 086 0	Replacement: 432 410 192 0
432 410 087 0	Cut-out pressure 12 ±0.2 bar. Heater 24 V. Electrical connection for Volvo. Exhaust: Snap-on contour, WABCO Cartridge M 39×1.5, 13 bar
432 410 088 0	Cut-out pressure 12 ±0.2 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 091 0	Replacement: 432 410 191 0
432 410 095 0	Replacement: 432 410 144 0

432 410 102 0	Cut-out pressure 8.1 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 102 7	Exchange Unit for: 432 410 102 0
432 410 104 0	Cut-out pressure 8.1 bar. Heater 24 V. Electrical connection Kostal M 27×1, with silencer. Cartridge M 39×1.5, 13 bar
432 410 110 7	Cut-out pressure 12.5 bar. Heater 24 V. Electrical connection Bayonet. Exhaust: Snap-on contour, Exchange Unit for: 432 410 110 0
432 410 111 7	Cut-out pressure 12.5 bar, without heating. Exhaust: Snap-on contour, Exchange Unit for: 432 410 111 0. Cartridge M 39×1.5, 13 bar
432 410 112 0	Cut-out pressure 12.5 bar. Heater 24 V. Electrical connection Bayonet (DIN), for Voss 230. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 113 0	Cut-out pressure 12.5 bar, without heating, for Voss 230. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 114 0	Cut-out pressure 8.5 bar. Heater 24 V. Electrical connection Bayonet (DIN), for Voss 230. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 115 0	Cut-out pressure 8.5 bar, without heating, for Voss 230. Exhaust: Snap-on contour. Replacement: 432 410 115 7. Cartridge M 39×1.5, 13 bar
432 410 116 0	Cut-out pressure 10 bar. Heater 24 V. Electrical connection Bayonet (DIN), for Voss 230. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 117 0	Cut-out pressure 10 bar, without heating, for Voss 230. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 118 0	Cut-out pressure 8.8 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 120 0	Replacement: 432 410 720 0
432 410 122 0	Cut-out pressure 12.5 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour, with silencer. Cartridge M 39×1.5, 13 bar
432 410 126 0	Replacement: 432 410 144 0
432 410 127 0	Cut-out pressure 8.1 bar. Heater 12 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 129 0	Cut-out pressure 8.1 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Cartridge M 39×1.5, 10 bar
432 410 134 0	Cut-out pressure 12.5 bar. Heater 24 V. Electrical connection Bayonet (DIN), for Voss 230. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 140 0	Cut-out pressure 8.1 bar. Heater 24 V. Electrical connection Bayonet (DIN). Exhaust: Snap-on contour. Cartridge M 39×1.5, 10 bar
432 410 200 0	Cut-out pressure 8.1 bar. Heater 24 V. Electrical connection Bayonet. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 201 0	Cut-out pressure 8.1 bar, without heating. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 202 0	Cut-out pressure 8.1 bar, without heating. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 204 0	Cut-out pressure 10 bar, without heating, for Voss 230. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 410 221 0	Cut-out pressure 8.1 bar. Heater 12 V. Electrical connection Bayonet (DIN). Exhaust M 22×1.5. Cartridge M 39×1.5, 13 bar
432 410 250 0	Cut-out pressure 10 bar. Heater 24 V. Electrical connection Bayonet. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 411 166 0	Cut-out pressure 18.3 bar. Heater 24 V. Electrical connection Kostal M 27×1, Exhaust with M16×1.5 internal thread. With flange mounted solenoid (472 123 109 0) for regeneration after the engine has stopped. Cartridge M 42×1.5, 20 bar
432 413 001 0	Alternative: 432 413 003 0
432 413 002 0	Cut-out pressure 7.9...9 bar. Heater 24 V. Electrical connection Rockwell. Exhaust: Snap-on contour. Limited backflow 0.7 bar. USA version, with 11 bar safety valve. Cartridge M 39×1.5, 13 bar
432 413 003 0	Cut-out pressure 7.9...9 bar. Heater 12 V. Electrical connection Rockwell. Exhaust: Snap-on contour. Limited backflow 0.7 bar. USA version, with 11 bar safety valve. Cartridge M 39×1.5, 13 bar
432 413 007 0	Cut-out pressure 7.9...9 bar. Heater 12 V. Electrical connection Rockwell. Exhaust: Snap-on contour. Limited backflow 0.7 bar. USA version, with 11 bar safety valve. Cartridge M 39×1.5, 13 bar
432 415 000 0	Cut-out pressure 8 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Limited backflow 0.3 bar. Cartridge M 39×1.5, 13 bar
432 415 003 0	Cut-out pressure 8 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Limited backflow 0.3 bar. Cartridge M 39×1.5, 13 bar
432 415 005 0	Cut-out pressure 9 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Limited backflow 0.3 bar. Cartridge M 39×1.5, 13 bar
432 415 006 0	Cut-out pressure 8.5 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Limited backflow 0.4 bar, with silencer. Cartridge M 39×1.5, 13 bar
432 415 013 0	Cut-out pressure 8.3 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Limited backflow 0.3 bar, with silencer. Cartridge M 39×1.5, 13 bar
432 415 015 0	Cut-out pressure 11 bar. without heating Exhaust: Snap-on contour. Limited backflow 0.3 bar. Cartridge M 39×1.5, 13 bar
432 415 016 0	Cut-out pressure 11 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Limited backflow 0.3 bar. Cartridge M 39×1.5, 13 bar
432 415 017 0	Cut-out pressure 11 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Limited backflow 0.3 bar. Cartridge M 39×1.5, 13 bar
432 415 019 0	Cut-out pressure 12.5 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Limited backflow 0.3 bar, with silencer. Cartridge M 39×1.5, 13 bar
432 415 022 0	Cut-out pressure 9.8 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Limited backflow 0.4 bar. Cartridge M 39×1.5, 13 bar

432 415 024 0	Replacement: 432 415 124 0
432 415 028 0	Cut-out pressure 8 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Limited backflow 0.5 bar. Cartridge M 39×1.5, 13 bar
432 415 030 0	Cut-out pressure 8.3 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Limited backflow 0.4 bar. Cartridge M 39×1.5, 13 bar
432 415 033 0	Cut-out pressure 10.5 bar. Heater 24 V. Electrical connection Kostal M 27×1, for Voss 230. Exhaust M 22×1.5. Limited backflow 0.5 bar. Cartridge M 39×1.5, 13 bar
432 415 037 0	Cut-out pressure 8.3 bar. Heater 24 V. Electrical connection Bayonet (DIN). Exhaust: Snap-on contour. Limited backflow 0.4 bar. Cartridge M 39×1.5, 13 bar
432 415 038 0	Replacement: 432 415 138 0
432 415 124 0	Cut-out pressure 12.5 bar, without heating, for Voss 230. Exhaust: Snap-on contour. Limited backflow 0.55 bar. Cartridge M 39×1.5, 13 bar
432 415 138 0	Cut-out pressure 10 bar, without heating, for Voss 230. Exhaust: Snap-on contour. Limited backflow 0.5 bar. Cartridge G 1¼", 13 bar
432 415 921 0	Cut-out pressure 8.3 bar. Heater 12 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Limited backflow 0.4 bar, with silencer. Cartridge M 39×1.5, 13 bar
432 420 000 0	Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Without integrated unloader . Cartridge M 39×1.5, 13 bar
432 420 002 0	without heating. Exhaust: Snap-on contour. Without integrated unloader . Cartridge M 39×1.5, 13 bar
432 420 003 0	Heater 12 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Without integrated unloader . Cartridge M 39×1.5, 13 bar
432 420 008 0	Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Without integrated unloader , with silencer. Cartridge M 39×1.5, 13 bar
432 421 000 0	Heater 24 V. Electrical connection Kostal M 27×1, for Voss 230. Exhaust: Snap-on contour. Without integrated unloader . Cartridge M 39×1.5, 13 bar
432 421 002 0	without heating, for Voss 230. Exhaust: Snap-on contour. Without integrated unloader . Cartridge M 39×1.5, 13 bar
432 421 003 0	Heater 24 V. Electrical connection Kostal M 27×1. Exhaust M 22×1.5. Without integrated unloader . Cartridge M 39×1.5, 13 bar
432 421 008 0	without heating, for Voss 230. Exhaust: Snap-on contour. Without integrated unloader . Cartridge M 39×1.5, 13 bar
432 421 014 0	Cut-out pressure 10 bar, without heating. Exhaust: Snap-on contour. Without integrated unloader . Cartridge M 39×1.5, 13 bar
432 421 028 0	Cut-out pressure 8.1 bar. Heater 24 V. Electrical connection Kostal M 27×1. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
432 425 101 0	ECAD. Volvo FH, FM. Max. operating pressure: 13 bar. Unloader integrated, 24 V. Bayonet (DIN). Alternative for: 432 425 001 / 004 0. Cartridge M 39×1.5, 13 bar
432 425 105 0	Electrically Controlled Air Dryer. Volvo FH, FM. Max. operating pressure: 13 bar. Unloader integrated, 24 V. Bayonet (DIN). without heating. Replacement for: 432 425 005 / 007 0. Cartridge M 39×1.5, 13 bar

2.02 Air Dryer (APU) 932 400



932 400 024 0

932 400 001 0	Replacement: 932 400 024 0
932 400 002 0	Replacement: 932 400 024 0
932 400 003 0	Air Dryer , Cut-out pressure 10 bar, without heating. Exhaust: Snap-on contour. Cartridge M 39×1.5, 13 bar
932 400 005 0	Replacement: 932 400 024 0
932 400 006 0	Replacement: 932 400 024 0
932 400 014 0	Alternative: 932 400 016 0
932 400 016 0	Air Dryer , Cut-out pressure 11.5 bar. Heater 24 V. Bayonet (DIN). Exhaust with saw-tooth profile. Air System Protector. Cartridge M 39×1.5, 13 bar
932 400 023 0	Replacement: 932 400 024 0
932 400 024 0	APU Universal type. Cut-out pressure 12 bar. Heater 24 V. Bayonet (DIN). Exhaust with saw-tooth profile. Cartridge M 39×1.5, 13 bar

2.03 Air Dryer (Twin Cannister) 432 ...

2



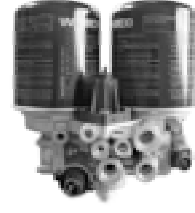
432 406 101 0



432 431 002 0



432 432 001 0



432 433 206 0

132 407 552 0	Max. operating pressure 10 bar, without heating. Solenoid Valve 24 V. Exhaust M 22x1.5. Nozzle Ø 1.5. Without integrated unloader
432 406 101 0	Max. operating pressure 11 bar, without heating. Solenoid Valve 24 V, M 24x1. Exhaust M 22x1.5, Nozzle Ø 1.0. Without integrated unloader
432 431 002 0	Max. operating pressure 13 bar. Heater 12 V, Kostal M 27x1, Solenoid Valve M 24x1. Exhaust: Snap-on contour, Nozzle Ø 1.0. Without integrated unloader . Cartridge M 39x1.5, 13 bar
432 431 006 0	Max. operating pressure 13 bar. Heater 12 V, Kostal M 27x1, Solenoid Valve M 24x1. Exhaust: Snap-on contour, Nozzle Ø 0.7. Without integrated unloader . Cartridge M 39x1.5, 13 bar
432 431 007 0	Max. operating pressure 13 bar. Heater 24 V, Kostal M 27x1, Solenoid Valve M 24x1. Exhaust: Snap-on contour, Nozzle Ø 0.7. Without integrated unloader . Cartridge M 39x1.5, 13 bar
432 431 173 0	Replacement: 432 433 273 0
432 431 191 7	Max. operating pressure 13 bar. Heater 24 V. Electrical connection Volvo. Replacement: 432 431 008 7
432 431 199 0	Max. operating pressure 13 bar. Heater 24 V, Kostal M 27x1. Exhaust: Snap-on contour, Nozzle Ø 0.9. Without integrated unloader . Cartridge M 39x1.5, 13 bar
432 431 274 0	Max. operating pressure 13 bar. Heater 24 V. Electrical connection Volvo. Exhaust: Snap-on contour, Nozzle Ø 0.7. Without integrated unloader . Cartridge M 39x1.5, 13 bar
432 432 000 0	Cut-out pressure 12,5 bar. Heater 24 V. Electrical connection Bayonet (MAN). Exhaust: Snap-on contour, Nozzle Ø 0.7. Cartridge M 39x1.5, 13 bar
432 432 001 0	Replacement: 432 433 201 0
432 432 002 0	Cut-out pressure 10 bar. Heater 24 V. Electrical connection Bayonet (MAN). Exhaust: Snap-on contour, Nozzle Ø 1.0. Cartridge M 39x1.5, 13 bar
432 432 005 0	Cut-out pressure 8.1 bar. Heater 24 V. Electrical connection Bayonet. Exhaust: Snap-on contour, Nozzle Ø 0.7. Cartridge M 39x1.5, 13 bar
432 432 006 0	Replacement: 432 433 206 0
432 432 007 0	Cut-out pressure 11 bar. Heater 24 V. Electrical connection Bayonet (DIN). Exhaust: Snap-on contour, Nozzle Ø 1.0. Cartridge M 39x1.5, 13 bar
432 432 017 0	Cut-out pressure 10 bar. Heater 24 V. Electrical connection Kostal M 27x1. Exhaust: Snap-on contour. Cartridge M 39x1.5, 13 bar
432 432 018 0	Cut-out pressure 12.5 bar, without heating. Exhaust: Snap-on contour. Cartridge M 39x1.5, 13 bar
432 432 023 0	Cut-out pressure 10 bar. Heater 24 V. Electrical connection Kostal M 27x1. Exhaust: Snap-on contour. Cartridge M 39x1.5, 13 bar
432 432 199 0	Cut-out pressure 10 bar. Heater 24 V. Electrical connection Kostal M 27x1. Exhaust: Snap-on contour, Nozzle Ø 0.9. Cartridge M 39x1.5, 13 bar
432 432 279 0	Cut-out pressure 10 bar. Heater 24 V. Electrical connection Bayonet (MAN). Exhaust: Snap-on contour, Nozzle Ø 0.7. Cartridge M 39x1.5, 13 bar
432 433 002 0	Cut-out pressure 12 bar. Heater 24 V. Electrical connection Bayonet (DIN), for Voss 230. Exhaust with saw-tooth profile
432 433 206 0	Cut-out pressure 12 bar. Heater 24 V, Electrical connection Bayonet (DIN) , for Voss 232. Exhaust with saw-tooth profile. Cartridge M 39x1.5, 13 bar
432 433 273 0	Max. operating pressure 13 bar. Heater 24 V. Electrical connection Kostal M 27x1. Exhaust: Snap-on contour, Nozzle Ø 0.7. Without integrated unloader . Cartridge M 39x1.5, 13 bar

2.04 Air Processing Unit 932 500



932 500 006 0

932 500 003 0	Air Dryer	932 400 003 0. Four Circuit Protection Valve	934 705 002 0. Cartridge M 39x1.5, 13 bar
932 500 006 0	Air Dryer	932 400 001 0. Four Circuit Protection Valve	934 705 005 0. Cartridge M 39x1.5, 13 bar
932 500 007 0	Air Dryer	932 400 002 0. Four Circuit Protection Valve	934 705 005 0. Cartridge M 39x1.5, 13 bar
932 500 013 0	Air Dryer	932 400 005 0. Four Circuit Protection Valve	934 705 005 0. Cartridge M 39x2.5, 13 bar
932 500 014 0	Air Dryer	932 400 006 0. Four Circuit Protection Valve	934 705 005 0. Cartridge M 39x1.5, 13 bar
932 500 015 0	Air Dryer	932 400 006 0. Four Circuit Protection Valve	934 705 003 0. Cartridge M 39x1.5, 13 bar
932 500 021 0	Air Dryer	932 400 014 0. Four Circuit Protection Valve	934 705 008 0. Cartridge M 39x1.5, 13 bar
932 500 054 0			
932 500 064 0	Air Dryer	432 415 061 0. Four Circuit Protection Valve	934 714 153 0. Cartridge M 39x1.5, 13 bar
932 510 004 0	E-APU Scania. Air Dryer	932 510 956 2. Protection valve	932 510 958 2. Cartridge G 1 ¼, max. 13 bar
932 510 005 0	E-APU Scania. Air Dryer	932 510 956 2. Protection valve	932 510 958 2. Cartridge G 1 ¼, max. 13 bar

2.05 Cartridge 432 ...



432 406 920 2 432 410 020 2 432 410 222 7 432 410 927 2 432 901 223 2 432 410 244 2 932 890 001 0

432 406 920 2	Insert for cartridge 432 406 222 2, for Air Dryer 432 405.../... 406.../...408...
432 410 020 2	M 39x1.5. Max 13 bar. Alternative: 432 901 223 2
432 410 220 2	M 42x1.5. Max 20 bar.
432 410 221 2	Replacement: 432 410 222 7
432 410 222 7	M 39x1.5. Max 13 bar. Exchange Unit for 432 410 020 2
432 410 244 2	M 39x1.5. Max 13 bar. Type Air System Protector PLUS.
432 410 927 2	G 1 ¼". Max 13 bar. Hexagon. With grease and O-ring
432 415 220 7	G 1 ¼". Max 13 bar. Exchange Unit for 432 415 220 2
432 901 223 2	M 39x1.5. Max 13 bar. Type Air System Protector. Replacement for MAN, Mercedes, Volvo
432 901 228 2	G 1 ¼". Max 13 bar. Type Air System Protector. Hexagon
432 901 245 2	M 39x1.5 LH. Max 13 bar. Type Air System Protector. Left-hand thread. Replacement for Volvo, RVI
432 901 246 2	M 41x1.5. Max 13 bar. Type Air System Protector. Replacement for DAF
932 890 001 0	AirProtectorMAX for Air Dryer AD 9

2.06 Accessory Air Dryer

2



449 515 020 0

449 515 020 0 Connecting cable heater, 2 m, Connector 90° Bayonet DIN 72585 B1-2.1-Sn/K1, 2x 1.5 mm², bared ends

449 515 100 0 Connecting cable heater, 10 m, Connector 90° Bayonet DIN 72585 B1-2.1-Sn/K1, 2x 1.5 mm², bared ends

894 100 353 2 Connecting Cable Air Dryer (Twin Cannister), 5 m, M 24x1, 2x 1 mm²

894 101 130 2 Connecting Cable Air Dryer (Twin Cannister), 10 m, M 24x1, 2x 1 mm², ADR

894 260 040 2 Heater 24 V, M 27x1

894 260 043 2 Heater 24 V, M 27x1

894 260 045 2 Heater 24 V. Bayonet. Connecting Cable: 894 590 151 2

894 590 151 2 Connecting cable heater, 3 m. Bayonet

894 600 454 2 Connecting cable heater, 5 m, Connector 90° Bayonet, M 27x1, 2x 1.0 mm². bared ends

894 600 458 2 Connecting cable heater, 10 m, Connector 90° Bayonet, M 27x1, 2x 1.0 mm². bared ends

2.07 Safety Valve 434 6..



434 608 ...



434 612 ...

259617 Opening pressure 11 bar, Port 1/4"-18 NPTF. Compressor mounted

434 608 220 0 Opening pressure 10.0 +1 bar, Port M 16x1.5

434 608 221 0 Opening pressure 9.0 +0.9 bar, Port M 16x1.5

434 608 226 0 Opening pressure 15.0 +1.5 bar, Port M 16x1.5

434 612 001 0 Opening pressure 9.0 +0.9 bar, Port M 22x1.5

434 612 003 0 Opening pressure 11.0 +1.1 bar, Port M 22x1.5

434 612 004 0 Opening pressure 13.0 +0.8 bar, Port M 22x1.5

434 612 005 0 Opening pressure 13.0 +0.8 bar, Port M 22x1.5

434 612 054 0 Opening pressure 13.0 +0.8 bar, Port M 16x1.5

434 612 055 0 Opening pressure 14.5 +2.5 bar, Port M 16x1.5

434 612 064 0 Opening pressure 12.0 +1.2 bar, Port M 16x1.5

434 612 065 0 Opening pressure 14.0 +1.4 bar, Port M 16x1.5

2.08 Anti-Freezer, Water Separator



432 199 030 0	Anti-Freezer. Container capacity 200 cm ³ , Max. operating pressure 20 bar, M 22x1.5
432 511 000 0	Filter Drain Valve. Operating pressure max. 10 bar, M 22x1.5
830 702 087 4	Anti Freeze Fluid WABCOTHYL, 1 l
830 702 088 4	Anti Freeze Fluid WABCOTHYL, 10 l
830 702 089 4	Anti Freeze Fluid WABCOTHYL, 30 l
830 702 090 4	Anti Freeze Fluid WABCOTHYL, 200 l
932 002 100 0	Anti Freeze Pump. Reservoir 0.5 dm ³ . Quantity delivered 0.5 cm ³ . Without control port
932 002 102 0	Anti Freeze Pump. Reservoir 0.5 dm ³ . Quantity delivered 0.2 cm ³ . Without control port
932 399 000 0	Water Separator, M 22x1.5

2.09 Four Circuit Protection Valve 934 ...



932 510 945 2	Replacement: 932 510 958 2
934 702 000 0	M 16x1.5 / M 22x1.5. Max. operating pressure 20 bar, 21/22 = 6.0 bar, 23/24 = 5.5 bar
934 702 002 0	M 16x1.5 / M 22x1.5. Max. operating pressure 20 bar, 21/22 = 6.3 bar, 23/24 = 6.0 bar
934 702 005 0	M 16x1.5 / M 22x1.5. Max. operating pressure 10 bar, 21/22 = 6.3 bar, 23/24 = 6.0 bar, Mounting bolts
934 702 040 0	M 16x1.5 / M 22x1.5. Max. operating pressure 10 bar, 21/22 = 6.0 bar, 23/24 = 5.5 bar
934 702 041 0	M 16x1.5 / M 22x1.5. Max. operating pressure 10 bar, 21/22 = 7.0 bar, 23/24 = 6.5 bar
934 702 042 0	M 16x1.5 / M 22x1.5. Max. operating pressure 10 bar, 21/22 = 5.4 bar, 23/24 = 4.9 bar
934 702 045 0	M 16x1.5 / M 22x1.5. Max. operating pressure 10 bar, 21/22 = 6.5 bar, 23/24 = 6.5 bar
934 702 047 0	M 16x1.5 / M 22x1.5. Max. operating pressure 10 bar, 21/22 = 6.3 bar, 23/24 = 5.8 bar
934 702 082 0	M 16x1.5 / M 22x1.5. Max. operating pressure 20 bar, 21/22 = 7.9 bar, 23/24 = 7.9 bar
934 702 100 0	M 16x1.5 / M 22x1.5. Max. operating pressure 10 bar, 21/22 = 7.0 bar, 23/24 = 6.0 bar
934 702 101 0	M 16x1.5 / M 22x1.5. Max. operating pressure 10 bar, 21/22 = 6.1 bar, 23/24 = 4.5 bar
934 702 110 0	M 16x1.5 / M 22x1.5. Max. operating pressure 10 bar, 21/22 = 7.3 bar, 23/24 = 7.3 bar
934 702 122 0	M 16x1.5 / M 22x1.5. Max. operating pressure 13 bar, 21/22 = 9.3 bar, 23 = 7.3 bar, 24 = 6.3 bar
934 702 191 0	M 16x1.5 / M 22x1.5. Max. operating pressure 10 bar, 21/22 = 7.9 bar, 23/24 = 7.9 bar
934 702 192 0	M 16x1.5 / M 22x1.5. Max. operating pressure 10 bar, 21/22 = 7.5 bar, 23/24 = 7.5 bar
934 702 210 0	M 16x1.5 / M 22x1.5. Max. operating pressure 10 bar, 7 Ports, 21/22 = 7.0 bar, 23/24 = 6.5 bar
934 702 220 0	M 16x1.5 / M 22x1.5. Max. operating pressure 20 bar, 7 Ports, 21/22 = 7.0 bar, 23/24 = 7.0 bar
934 702 221 0	M 16x1.5 / M 22x1.5. Max. operating pressure 20 bar, 7 Ports, 21/22 = 7.0 bar, 23/24 = 7.0 bar
934 702 223 0	M 16x1.5 / M 22x1.5. Max. operating pressure 20 bar, 7 Ports, 21/22 = 6.9 bar, 23 = 7 bar, 24 = 6.9 bar
934 702 240 0	M 16x1.5 / M 22x1.5. Max. operating pressure 10 bar, 7 Ports, 21/22 = 7.0 bar, 23/24 = 6.5 bar
934 702 250 0	M 16x1.5 / M 22x1.5. Max. operating pressure 20 bar, 21/22 = 7.0 bar, 23/24 = 7.0 bar
934 702 252 0	M 16x1.5 / M 22x1.5. Max. operating pressure 20 bar, 21/22 = 7.0 bar, 23/24 = 7.7 bar

934 702 260 0	M 22x1.5. Max. operating pressure 20 bar, 21/22 = 7.0 bar, 23/24 = 7.0 bar, for Voss 230
934 702 261 0	M 22x1.5. Max. operating pressure 20 bar, 21/22 = 7.0 bar, 23/24 = 7.7 bar, for Voss 230
934 702 271 0	M 22x1.5. Max. operating pressure 20 bar, 7 Ports, 21/22 = 7.0 bar, 23/24 = 7.0 bar, for Voss 230
934 702 300 0	M 16x1.5 / M 22x1.5. Max. operating pressure 20 bar, 21/22 = 7.0 bar, 23/24 = 7.0 bar
934 702 302 0	M 16x1.5 / M 22x1.5. Max. operating pressure 20 bar, 21/22 = 7.0 bar, 23/24 = 7.0 bar
934 702 320 0	M 16x1.5 / M 22x1.5. Max. operating pressure 20 bar, 21/22 = 7.0 bar, 23/24 = 7.0 bar
934 702 322 0	M 16x1.5 / M 22x1.5. Max. operating pressure 20 bar, 21/22 = 7.0 bar, 23 = 7.0 bar, 24 = 6.9 bar
934 702 323 0	M 16x1.5 / M 22x1.5. Max. operating pressure 20 bar, 21/22 = 7.0 bar, 23 = 7.0 bar, 24 = 6.9 bar
934 702 340 0	M 16x1.5 / M 22x1.5. Max. operating pressure 20 bar, 21/22 = 7.0 bar, 23/24 = 7.0 bar
934 702 342 0	M 16x1.5 / M 22x1.5. Max. operating pressure 10 bar, 7 Ports, 21/22 = 6.5 bar, 23/24 = 6.7 bar
934 702 380 0	M 16x1.5 / M 22x1.5. Max. operating pressure 20 bar, 21/22 = 7.0 bar, 23/24 = 7.0 bar
934 702 381 0	M 16x1.5 / M 22x1.5. Max. operating pressure 20 bar, 21/22 = 6.5 bar, 23/24 = 6.5 bar
934 702 387 0	M 16x1.5 / M 22x1.5. Max. operating pressure 10 bar, 21/22 = 6.5 bar, 23 = 7.5 bar, 24 = 6.5 bar
934 702 388 0	M 16x1.5 / M 22x1.5. 20 bar, 21/22 = 7.0 bar, 23 = 7.4 bar, 24 = 7 bar
934 705 002 0	Protection valve for APU 932 500 003 0 / 004 0
934 705 003 0	Protection valve for APU 932 500 015 0
934 705 005 0	Protection valve for APU 932 500 006 0 / 007 0 / 013 0 / 014 0
934 714 003 0	3/8 NPTF / 1/2 NPTF. Max. operating pressure 13 bar, 21/22 = 6.9 bar, 23/24 = 6.9 bar, dynamic 5.2 bar
934 714 010 0	M 16x1.5 / M 22x1.5. Max. operating pressure 13 bar, 21/22 = 6.9 bar, 23 = 7.0 bar, 24 = 6.9 bar, dynamic 6.4 bar
934 714 014 0	3/8 NPTF / 1/2 NPTF. Max. operating pressure 13 bar, 21/22 = 6.7 bar, 23/24 = 6.7 bar, dynamic 4.8 bar
934 714 016 0	3/8 NPTF / 1/2 NPTF. Max. operating pressure 13 bar, 21/22 = 6.2 bar, 23/24 = 6.2 bar, dynamic 4.9 bar
934 714 019 0	M 16x1.5 / M 22x1.5. Max. operating pressure 13 bar, 21/22 = 6.5 bar, 23 = 7.4 bar, 24 = 6.5 bar, static 6.5 bar
934 714 109 0	M 16x1.5 / M 22x1.5. Max. operating pressure 13 bar, 21/22 = 6.9 bar, 23 = 7.0 bar, 24 = 6.9 bar, dynamic 5.0 bar
934 714 110 0	M 16x1.5 / M 22x1.5. Max. operating pressure 13 bar, 21/22 = 6.9 bar, 23 = 7.0 bar, 24 = 6.9 bar, dynamic 6.4 bar
934 714 119 0	M 16x1.5 / M 22x1.5. Max. operating pressure 13 bar, 21/22 = 7.5 bar, 23/24 = 7.5 bar, static 6.5 bar
934 714 123 0	M 16x1.5 / M 22x1.5. Max. operating pressure 13 bar, 21/22 = 6.9 bar, 23/24 = 7.2 bar, dynamic 21/22 = 5 bar, 23/24 = 6.8 bar
934 714 125 0	M 16x1.5 / M 22x1.5. Max. operating pressure 13 bar, 21/22 = 7.5 bar, 23 = 7.0 bar, 24 = 7.0 bar, dynamic 4.5 bar
934 714 126 0	M 16x1.5 / M 22x1.5. Max. operating pressure 13 bar, 21/22 = 8.0 bar, 23 = 8.5 bar, 24 = 8.0 bar, dynamic 5.0 bar
934 714 128 0	Replacement: 934 714 211 0
934 714 130 0	Replacement: 934 714 730 0
934 714 137 0	3/8 NPTF / 1/2 NPTF, Max. operating pressure 13 bar, 21/22 = 6.2 bar, 23/24 = 6.2 bar, dynamic 4.2 bar
934 714 145 0	M 16x1.5 / M 22x1.5, Max. operating pressure 13 bar, 21/22 = 6.5 bar, 23 = 7.2 bar, 24 = 6.5 bar, dynamic 4.5 bar
934 714 211 0	M 16x1.5 / M 22x1.5, Max. operating pressure 13 bar, 21/22 = 6.5 bar, 23 = 7.4 bar, 24 = 6.5 bar, dynamic 4.5 bar. Replacement for: 934 714 128 0
934 714 302 0	M 16x1.5 / M 22x1.5, Max. operating pressure 13 bar, 21/22 = 7.0 bar, 23/24 = 7.0 bar, dynamic 6.0 bar
934 714 320 0	M 16x1.5 / M 22x1.5, Max. operating pressure 13 bar, 21/22 = 7.9 bar, 23 = 8.3 bar, 24 = 7.9 bar, dynamic 6.0 bar
934 714 400 0	M 16x1.5 / M 22x1.5, Max. operating pressure 13 bar, 21/22 = 6.9 bar, 23 = 7.0 bar, 24 = 6.9 bar, dynamic 5.0 bar, for Voss 230
934 714 401 0	M 16x1.5 / M 22x1.5, Max. operating pressure 13 bar, 21/22 = 6.9 bar, 23 = 7.0 bar, 24 = 6.9 bar, dynamic 6.4 bar, for Voss 230
934 714 740 0	M 16x1.5 / M 22x1.5, Max. operating pressure 13 bar, 7 Ports, 21/22 = 6.3 bar, 23/24 = 5.8 bar

2.10 Charging Valve 434 100



434 100 022 0

434 100 020 0	M 22x1.5. Max. operating pressure 13 bar. Charging pressure 3.0 bar. Range of adjustment 0.5 ... 5.2 bar. With backflow
434 100 021 0	M 22x1.5. Max. operating pressure 13 bar. Charging pressure 3.5 bar. Range of adjustment 0.5 ... 5.2 bar. With backflow
434 100 022 0	M 22x1.5. Max. operating pressure 13 bar. Charging pressure 4.5 bar. Range of adjustment 0.5 ... 5.2 bar. With backflow
434 100 023 0	M 22x1.5. Max. operating pressure 13 bar. Charging pressure 5.5 bar. Range of adjustment 5.3 ... 7.0 bar. With backflow
434 100 024 0	M 22x1.5. Max. operating pressure 13 bar. Charging pressure 6.0 bar. Range of adjustment 5.3 ... 7.0 bar. With backflow
434 100 025 0	M 22x1.5. Max. operating pressure 13 bar. Charging pressure 6.5 bar. Range of adjustment 5.3 ... 7.0 bar. With backflow
434 100 026 0	M 22x1.5. Max. operating pressure 13 bar. Charging pressure 1.0 bar. Range of adjustment 0.5 ... 5.2 bar. With backflow

2.11 Pressure Limiting Valve 475 ...

2

475 009



475 009 022 0



475 009 026 0

475 009 005 0	M 12x1.5. Max. operating pressure 10 bar. Delivered pressure 0.3 bar. input pressure 8.0 bar
475 009 008 0	M 12x1.5. Max. operating pressure 10 bar. Delivered pressure 0.7 bar. input pressure 8.0 bar
475 009 021 0	M 12x1.5. Max. operating pressure 10 bar. Delivered pressure 1.2 bar. input pressure 10 bar
475 009 022 0	M 12x1.5. Max. operating pressure 10 bar. Delivered pressure 2.0 bar. input pressure 10 bar
475 009 026 0	M 12x1.5. Max. operating pressure 10 bar. Delivered pressure 3.0 bar. input pressure 10 bar

475 010 – 475 012



475 010 000 0



475 010 200 0



475 010 400 0



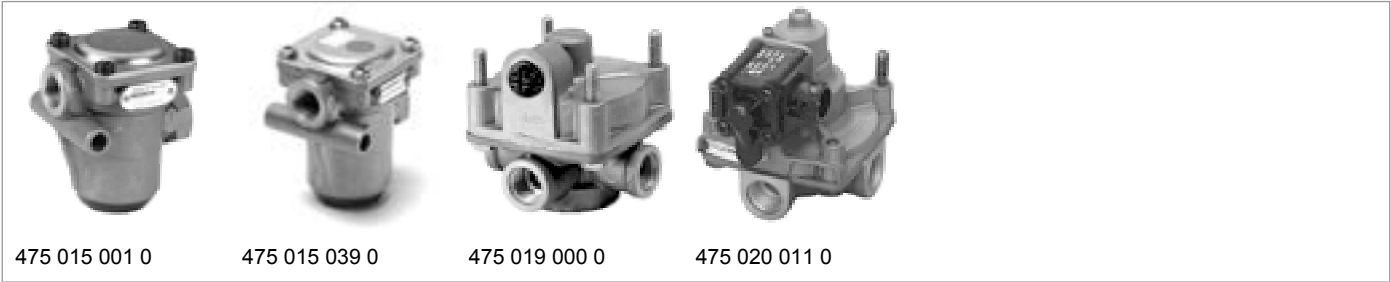
475 012 000 0

475 010 000 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 7.0 bar. input pressure 10 bar. Range of adjustment 6.0...9.0 bar
475 010 001 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 5.3 bar. input pressure 7.5 bar. Range of adjustment 3.5...6.0 bar. Alternative: 475 010 302 0
475 010 002 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 1.8 bar. input pressure 7.5 bar. Range of adjustment 1.0...3.5 bar. Alternative: 475 010 303 0
475 010 003 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 5.7 bar. input pressure 7.5 bar. Range of adjustment 3.5...6.0 bar. Alternative: 475 010 309 0
475 010 004 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 6.5 bar. input pressure 12 bar. Range of adjustment 6.0...9.0 bar
475 010 005 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 8.8 bar. input pressure 16 bar. Range of adjustment 6.0...9.0 bar
475 010 006 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 8.0 bar. input pressure 12 bar. Range of adjustment 6.0...9.0 bar
475 010 007 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 2.5 bar. input pressure 7.5 bar. Range of adjustment 1.0...3.5 bar
475 010 008 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 3.0 bar. input pressure 7.5 bar. Range of adjustment 1.0...3.5 bar. Alternative: 475 010 313 0
475 010 009 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 7.5 bar. input pressure 12 bar. Range of adjustment 6.0...9.0 bar. Alternative: 475 010 304 0
475 010 010 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 4.0 bar. input pressure 7.5 bar. Range of adjustment 3.5...6.0 bar. Alternative: 475 010 310 0
475 010 011 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 3.5 bar. input pressure 8.5 bar. Range of adjustment 3.5...6.0 bar. Alternative: 475 010 311 0
475 010 012 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 5.5 bar. input pressure 7.5 bar. Range of adjustment 3.5...6.0 bar. Alternative: 475 010 312 0
475 010 013 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 6.0 bar. input pressure 7.5 bar. Range of adjustment 6.0...9.0 bar. Alternative: 475 010 305 0
475 010 014 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 7.0 bar. input pressure 7.0 bar. Range of adjustment 6.0...9.0 bar
475 010 015 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 7.3 bar. input pressure 10 bar. Range of adjustment 6.0...9.0 bar
475 010 016 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 1.2 bar. input pressure 7.5 bar. Range of adjustment 1.0...3.5 bar
475 010 017 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 0.45 bar. input pressure 9.5 bar. Range of adjustment 0.2...1.0 bar
475 010 021 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 5.0 bar. input pressure 9.5 bar. Range of adjustment 3.5...6.0 bar. Alternative: 475 010 306 0

475 010 024 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 1.4 bar. input pressure 8.0 bar. Range of adjustment 1.0...3.5 bar
475 010 025 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 4.0 bar. input pressure 8.0 bar. Range of adjustment 3.5...6.0 bar
475 010 026 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 1.8 bar. input pressure 8.0 bar. Range of adjustment 1.5...6.0 bar. Alternative: 475 010 307 0
475 010 027 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 7.8 bar. input pressure 10 bar. Range of adjustment 6.0...9.0 bar. Alternative: 475 010 308 0
475 010 032 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 8.5 bar. input pressure 12.5 bar. Range of adjustment 6.0...9.0 bar
475 010 101 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 6.5 bar. input pressure 8.0 bar. Range of adjustment 6.0...9.0 bar
475 010 102 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 7.5 bar. input pressure 12 bar. Range of adjustment 6.0...9.0 bar
475 010 103 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 8.5 bar. input pressure 11 bar. Range of adjustment 6.0...9.0 bar
475 010 200 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 9.2 bar. input pressure 12.4 bar. Range of adjustment 5.8...10.8 bar
475 010 201 0	M 22x1.5 Voss. Max. operating pressure 20 bar. Delivered pressure 10 bar. input pressure 12.5 bar. Range of adjustment 9.6...12.0 bar
475 010 300 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 8.5 bar. input pressure 10 bar. Range of adjustment 5.8...10.8 bar
475 010 301 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 10 bar. input pressure 12.5 bar. Range of adjustment 9.6...12.0 bar
475 010 302 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 5.3 bar. input pressure 7.5 bar. Range of adjustment 1.2...6.2 bar
475 010 303 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 1.8 bar. input pressure 7.5 bar. Range of adjustment 1.2...6.2 bar
475 010 304 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 7.5 bar. input pressure 12 bar. Range of adjustment 5.8...10.8 bar
475 010 305 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 6.0 bar. input pressure 7.5 bar. Range of adjustment 5.8...10.8 bar
475 010 306 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 5.0 bar. input pressure 9.5 bar. Range of adjustment 1.2...6.2 bar
475 010 307 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 1.8 bar. input pressure 8.0 bar. Range of adjustment 1.2...6.2 bar
475 010 308 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 7.8 bar. input pressure 10 bar. Range of adjustment 5.8...10.8 bar
475 010 309 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 5.7 bar. input pressure 7.7 bar. Range of adjustment 1.2...6.2 bar
475 010 310 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 4.0 bar. input pressure 7.5 bar. Range of adjustment 1.2...6.2 bar
475 010 311 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 3.5 bar. input pressure 8.5 bar. Range of adjustment 1.2...6.2 bar
475 010 312 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 5.5 bar. input pressure 7.5 bar. Range of adjustment 1.2...6.2 bar
475 010 313 0	M 22x1.5. Max. operating pressure 20 bar. Delivered pressure 3.3 bar. input pressure 7.0 bar. Range of adjustment 1.2...6.2 bar
475 010 314 0	M 22x1.5 Voss. Max. operating pressure 20 bar. Delivered pressure 7.0 bar. input pressure 10 bar. Range of adjustment 5.8...10.8 bar
475 010 317 0	M 22x1.5 Voss. Max. operating pressure 20 bar. Delivered pressure 6.5 bar. input pressure 12 bar. Range of adjustment 5.8...10.8 bar
475 010 318 0	M 22x1.5 Voss. Max. operating pressure 20 bar. Delivered pressure 8.0 bar. input pressure 12 bar. Range of adjustment 5.8...10.8 bar
475 010 322 0	M 22x1.5 Voss. Max. operating pressure 20 bar. Delivered pressure 4.2 bar. input pressure 8.0 bar. Range of adjustment 1.2...6.2 bar
475 010 324 0	M 22x1.5 Voss. Max. operating pressure 20 bar. Delivered pressure 1.4 bar. input pressure 8.0 bar. Range of adjustment 0.2...2.0 bar
475 010 325 0	M 22x1.5 Voss. Max. operating pressure 20 bar. Delivered pressure 3.5 bar. input pressure 10 bar. Range of adjustment 1.2...6.2 bar
475 010 328 0	M 22x1.5 Voss. Max. operating pressure 20 bar. Delivered pressure 2.5 bar. input pressure 10 bar. Range of adjustment 1.2...6.2 bar
475 010 330 0	M 22x1.5 Voss. Max. operating pressure 20 bar. Delivered pressure 6.5 bar. input pressure 12 bar. Range of adjustment 5.8...10.8 bar
475 010 331 0	M 22x1.5 Voss. Max. operating pressure 20 bar. Delivered pressure 8.0 bar. input pressure 12 bar. Range of adjustment 5.8...10.8 bar
475 010 332 0	M 22x1.5 Voss. Max. operating pressure 20 bar. Delivered pressure 3.5 bar. input pressure 10 bar. Range of adjustment 1.2...6.2 bar
475 010 333 0	M 22x1.5 Voss. Max. operating pressure 20 bar. Delivered pressure 9.3 bar. input pressure 12.5 bar. Range of adjustment 5.8...10.8 bar
475 010 335 0	M 22x1.5 Voss. Max. operating pressure 20 bar. Delivered pressure 8.5 bar. input pressure 10 bar. Range of adjustment 5.8...10.8 bar
475 010 400 0	M 22x1.5 Voss. Max. operating pressure 20 bar. Delivered pressure 8.0 bar. input pressure 9.8 bar. Range of adjustment 5.8...10.8 bar
475 012 000 0	G 3/8". Max. operating pressure 14 bar. Pre-set pressure 4.0 bar. input pressure 10 bar

475 015 – 475 020

2



475 015 001 0	M 16x1.5. Max. operating pressure 20/16 bar. Delivered pressure 7.4 bar. input pressure 16 bar. p1 max. = 20 bar (if constant)
475 015 004 0	M 16x1.5. Max. operating pressure 10 bar. Delivered pressure 3.5 bar. input pressure 8.0 bar
475 015 005 0	M 16x1.5. Max. operating pressure 20/12 bar. Delivered pressure 8.0 bar. input pressure 12 bar. p1 max. = 20 bar (if constant)
475 015 007 0	M 16x1.5. Max. operating pressure 20/8 bar. Delivered pressure 1.3 bar. input pressure 8.0 bar. p1 max. = 20 bar (if constant)
475 015 009 0	M 16x1.5. Max. operating pressure 20/8 bar. Delivered pressure 5.3 bar. input pressure 8.0 bar. p1 max. = 20 bar (if constant)
475 015 010 0	M 16x1.5. Max. operating pressure 20/8 bar. Delivered pressure 5.7 bar. input pressure 8.0 bar. p1 max. = 20 bar (if constant)
475 015 014 0	M 16x1.5. Max. operating pressure 8 bar. Delivered pressure 3.0 bar. input pressure 8.0 bar
475 015 015 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 4.0 bar. input pressure 10 bar. p1 max. = 20 bar (if constant)
475 015 016 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 7.5 bar. input pressure 10 bar. p1 max. = 20 bar (if constant)
475 015 018 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 8.0 bar. input pressure 10 bar. p1 max. = 20 bar (if constant)
475 015 020 0	M 16x1.5. Max. operating pressure 20/12 bar. Delivered pressure 10 bar. input pressure 16 bar. p1 max. = 20 bar (if constant)
475 015 026 0	M 16x1.5. Max. operating pressure 14/8 bar. Delivered pressure 2.5 bar. input pressure 8.0 bar
475 015 028 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 7.5 bar. input pressure 8.9 bar. p1 max. = 20 bar (if constant)
475 015 030 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 6.0 bar. input pressure 8.0 bar. p1 max. = 20 bar (if constant)
475 015 031 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 7.5 bar. input pressure 11 bar. p1 max. = 20 bar (if constant)
475 015 032 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 11 bar. input pressure 12.0 bar. p1 max. = 20 bar (if constant)
475 015 033 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 7.0 bar. input pressure 8.9 bar. p1 max. = 20 bar (if constant)
475 015 035 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 8.7 bar. input pressure 12.5 bar. p1 max. = 20 bar (if constant)
475 015 036 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 6.7 bar. input pressure 11 bar. p1 max. = 20 bar (if constant)
475 015 037 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 9.5 bar. input pressure 11 bar. p1 max. = 20 bar (if constant)
475 015 039 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 8.5 bar. input pressure 11 bar. p1 max. = 20 bar (if constant)
475 015 040 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 0.45 bar. input pressure 8.0 bar. p1 max. = 20 bar (if constant)
475 015 041 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 1.4 bar. input pressure 8.0 bar. p1 max. = 20 bar (if constant)
475 015 045 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 7.0 bar. input pressure 11 bar. p1 max. = 20 bar (if constant)
475 015 046 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 9.5 bar. input pressure 12.5 bar. p1 max. = 20 bar (if constant)
475 015 048 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 7.0 bar. input pressure 11 bar. p1 max. = 20 bar (if constant)
475 015 049 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 4.5 bar. input pressure 8.0 bar. p1 max. = 20 bar (if constant)
475 015 055 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 1.6 bar. input pressure 4.5 bar. p1 max. = 20 bar (if constant)
475 015 056 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 5.6 bar. input pressure 10 bar. p1 max. = 20 bar (if constant)
475 015 057 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 2.8 bar. input pressure 12.5 bar. p1 max. = 20 bar (if constant)
475 015 059 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 1.7 bar. input pressure 2.8 bar. p1 max. = 20 bar (if constant)
475 015 062 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 2.0 bar. input pressure 10 bar. p1 max. = 20 bar (if constant)
475 015 063 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 8.5 bar. input pressure 12 bar. p1 max. = 20 bar (if constant)
475 015 064 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 5.6 bar. input pressure 10 bar. p1 max. = 20 bar (if constant)
475 015 065 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 5.9 bar. input pressure 10 bar. p1 max. = 20 bar (if constant)
475 015 066 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 3.4 bar. input pressure 5.0 bar. p1 max. = 20 bar (if constant)
475 015 067 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 0.8 bar. input pressure 8.0 bar. p1 max. = 20 bar (if constant)
475 015 068 0	M 16x1.5. Max. operating pressure 14/10 bar. Delivered pressure 9.0 bar. input pressure 10 bar
475 015 072 0	M 16x1.5. Max. operating pressure 15/12.5 bar. Delivered pressure 8.5 bar. input pressure 11 bar
475 015 300 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 1.8 bar. input pressure 8.0 bar. p1 max. = 20 bar (if constant)
475 015 400 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 4.5 bar. input pressure 8.0 bar
475 015 500 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 6.5 bar. input pressure 8.5 bar. p1 max. = 20 bar (if constant)
475 015 503 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 5.0 bar. input pressure 8.5 bar. p1 max. = 20 bar (if constant)
475 015 510 0	M 16x1.5. Max. operating pressure 20/10 bar. Delivered pressure 5.7 bar. input pressure 8.0 bar. p1 max. = 20 bar (if constant)
475 015 512 0	M 16x1.5 Voss 232. Max. operating pressure 14 bar. Delivered pressure 5.5 bar. input pressure 8.5 bar
475 019 000 0	M 22x1.5 Voss. Max. operating pressure 12 bar. Delivered pressure 0.5 bar. input pressure 12 bar
475 020 006 0	Pressure Regulating Valve. Type of operation: without Trailer. 24 V. Bayonet (DIN). M 22x1.5 Voss. Pressure limited 4.1 bar, with silencer, Mercedes
475 020 011 0	Pressure Regulating Valve. Type of operation: without Trailer. 24 V. Bayonet (DIN). M 22x1.5. Pressure limited 5.0 bar. Scania

Compressed Air Storage

3.01 Air Reservoir 95. ...



950 060 004 0

950 420 003 0

950 760 002 0

950 000 909 0	100 l, 930.5 x Ø 396, 10 bar. Ports: 4x M 22x1.5, Aluminium
950 000 910 0	120 l, 1095 x Ø 396, 10 bar. Ports: 4x M 22x1.5, Aluminium
950 001 003 0	0.6 l, 125 x Ø 101.6, 20 bar. Ports: 2x ½"-14 NPSI
950 060 003 0	60 l, 893 x Ø 310, 10.0 bar. Ports: 4x M 22x1.5
950 060 004 0	60 l, 580 x Ø 396, 10.0 bar. Ports: 4x M 22x1.5
950 060 009 0	60 l, 950 x Ø 300, 12.5 bar. Ports: 5x M 22x1.5
950 060 903 0	60 l, 591 x Ø 396, 10 bar. Ports: 4x M 22x1.5, Aluminium
950 080 002 0	80 l, 730 x Ø 396, 10.0 bar. Ports: 4x M 22x1.5
950 080 903 0	80 l, 750 x Ø 396, 11 bar. Ports: 4x M 22x1.5, Aluminium
950 100 002 0	100 l, 915 x Ø 396, 10 bar. Ports: 4x M 22x1.5
950 105 001 0	5 l, 341 x Ø 154, 20 bar. Ports: 4x M 22x1.5. with Mounting. Replacement for: 950 105 004 0
950 110 002 0	10 l, 615 x Ø 154, 20 bar. Ports: 3x M 22x1.5
950 315 003 0	15 l, 546 x Ø 206, 15.5 bar. Ports: 4x M 22x1.5
950 405 001 0	4.5 l, 185 x Ø 206, 15.5 bar. Ports: 4x M 22x1.5
950 406 001 0	6 l, 241 x Ø 206, 15.5 bar. Ports: 4x M 22x1.5
950 410 004 0	10 l, 368 x Ø 206, 15.5 bar. Ports: 4x M 22x1.5
950 410 902 0	10 l, 355 x Ø 206, 15.5 bar. Ports: 4x M 22x1.5
950 410 904 0	10 l, 354 x Ø 206, 15.5 bar. Ports: 4x M 22x1.5, Aluminium
950 415 005 0	15 l, 527 x Ø 206, 15.5 bar. Ports: 4x M 22x1.5
950 415 903 0	15 l, 535 x Ø 206, 15.5 bar. Ports: 4x M 22x1.5, Aluminium
950 420 003 0	20 l, 691 x Ø 206, 15.5 bar. Ports: 4x M 22x1.5. Replacement for: 950 420 010 0
950 420 903 0	20 l, 694 x Ø 206, 15.5 bar. Ports: 4x M 22x1.5, Aluminium
950 430 001 0	30 l, 991 x Ø 206, 15.5 bar. Ports: 4x M 22x1.5
950 515 003 0	15 l, 384 x Ø 246, 16.5 bar. Ports: 4x M 22x1.5
950 516 004 0	16 l, 411 x Ø 246, 15.5 bar. Ports: 4x M 22x1.5
950 520 003 0	20 l, 500 x Ø 246, 15.5 bar. Ports: 4x M 22x1.5. Replacement for: 950 520 004 0
950 520 903 0	20 l, 499.5 x Ø 246, 15.5 bar. Ports: 4x M 22x1.5, Aluminium
950 525 001 0	25 l, 601 x Ø 246, 15.5 bar. Ports: 4x M 22x1.5
950 527 005 0	27 l, 645 x Ø 246, 15.5 bar. Ports: 4x M 22x1.5
950 530 002 0	30 l, 709 x Ø 246, 15.5 bar. Ports: 4x M 22x1.5
950 530 903 0	30 l, 729.5 x Ø 246, 15.5 bar. Ports: 4x M 22x1.5, Aluminium
950 537 001 0	37 l, 862 x Ø 246, 15.5 bar. Ports: 4x M 22x1.5
950 540 001 0	40 l, 927 x Ø 246, 15.5 bar. Ports: 4x M 22x1.5
950 540 902 0	40 l, 956.5 x Ø 246, 15.5 bar. Ports: 4x M 22x1.5, Aluminium
950 560 002 0	60 l, 1365 x Ø 246, 15.5 bar. Ports: 4x M 22x1.5
950 560 901 0	60 l, 1385 x Ø 246, 15.5 bar. Ports: 4x M 22x1.5, Aluminium
950 620 005 0	20 l, 503 x Ø 246, 15.5 bar. Ports: 4x M 22x1.5
950 628 001 0	28 l, 657 x Ø 246, 15.5 bar. Ports: 4x M 22x1.5
950 630 005 0	30 l, 708 x Ø 250, 15.0 bar. Ports: 4x M 22x1.5
950 630 006 0	30 l, 718 x Ø 246, 15.5 bar. Ports: 4x M 22x1.5
950 720 005 0	20 l, 410 x Ø 276, 14.5 bar. Ports: 4x M 22x1.5
950 720 901 0	20 l, 424 x Ø 276, 15.5 bar. Ports: 4x M 22x1.5, Aluminium
950 722 002 0	22 l, 425 x Ø 276, 14.5 bar. Ports: 4x M 22x1.5
950 730 006 0	30 l, 590.5 x Ø 276, 14.5 bar. Ports: 5x M 22x1.5
950 730 007 0	30 l, 583 x Ø 276, 14.5 bar. Ports: 4x M 22x1.5

950 730 901 0	30 l, 603 x Ø 276, 15.5 bar. Ports: 4x M 22x1.5, Aluminium
950 740 002 0	40 l, 758 x Ø 276, 14.5 bar. Ports: 4x M 22x1.5
950 740 904 0	40 l, 770 x Ø 276, 12.5 bar. Ports: 4x M 22x1.5. Aluminium
950 740 906 0	40 l, 618 x Ø 310, 12.5 bar. Ports: 4x M 22x1.5
950 760 002 0	60 l, 1108 x Ø 276, 14.5 bar. Ports: 4x M 22x1.5
950 760 902 0	60 l, 116 x Ø 276, 15.5 bar. Ports: 4x M 22x1.5, Aluminium
950 836 001 0	36 l, 600 x Ø 300, 12.5 bar. Ports: 4x M 22x1.5
950 845 001 0	45 l, 714 x Ø 300, 10.0 bar. Ports: 5x M 22x1.5
950 845 002 0	45 l, 743 x Ø 300, 12.5 bar. Ports: 4x M 22x1.5
950 860 004 0	60 l, 960 x Ø 300, 12.5 bar. Ports: 4x M 22x1.5
950 940 902 0	40 l, 629 x Ø 310, 12.5 bar. Ports: 4x M 22x1.5, Aluminium
950 960 002 0	60 l, 906 x Ø 310, 11.0 bar. Ports: 4x M 22x1.5, Aluminium
951 002 133 0	4 l, 168 x Ø 206, 11.0 bar. Ports: 2x M 22x1.5
951 002 158 0	4 l, 278 x Ø 154, 15.5 bar. Ports: 3x M 22x1.5
951 005 010 0	1 l, 170 x Ø 101.6, 20 bar. Ports: 2x M 22x1.5

3.01 Clamp band 451/ 950 ...



451 999 ...

950 ... 351 2

451 999 206 2	Clamp band for Air Reservoir Ø 206
451 999 246 2	Clamp band for Air Reservoir Ø 246
451 999 276 2	Clamp band for Air Reservoir Ø 276
451 999 310 2	Clamp band for Air Reservoir Ø 310
451 999 396 2	Clamp band for Air Reservoir Ø 396
950 001 351 2	Clamp band for Air Reservoir Ø 396. 2-parts
950 300 350 4	Clamp band for Air Reservoir Ø 200. Support 950 300 351 4 additionally required
950 405 351 2	Clamp band for Air Reservoir Ø 206. 2-parts
950 515 351 2	Clamp band for Air Reservoir Ø 246. 2-parts
950 600 350 4	Clamp band for Air Reservoir Ø 250. Support 950 600 351 4 additionally required
950 720 351 2	Clamp band for Air Reservoir Ø 276. 2-parts
950 800 350 2	Clamp band Set for Air Reservoir Ø 300 (2x 950 800 350 4 + 2x 950 800 351 4)
950 800 350 4	Clamp band for Air Reservoir Ø 300. Support 950 800 351 4 additionally required
950 949 351 2	Clamp band for Air Reservoir Ø 310. 2-parts

3.02 Drain Valve 434/ 934 ...



434 300 000 0

934 300 001 0

934 301 000 0

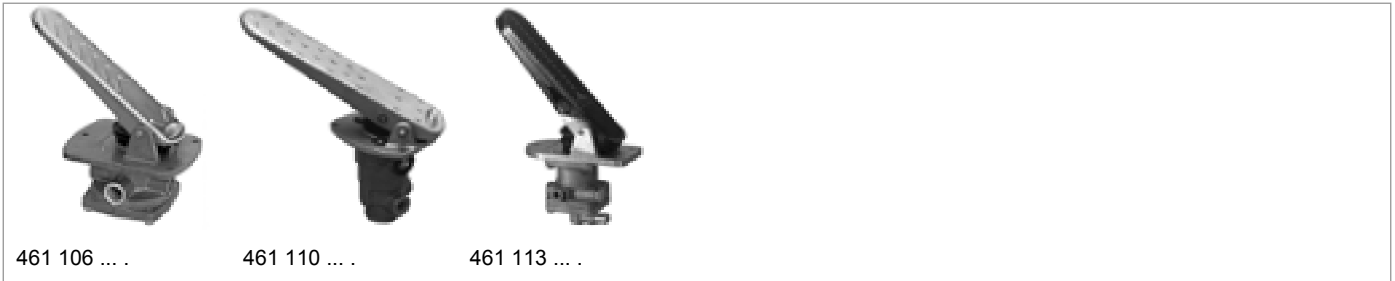
434 300 000 0	Max. operating pressure 10 bar. M 12x1.5, automatic
934 300 001 0	Max. operating pressure 20 bar. M 22x1.5. Manually operated
934 300 002 0	Max. operating pressure 20 bar. R 1/2". Manually operated

934 300 003 0	Max. operating pressure 20 bar. M 22x1.5. Manually operated. With ring Ø 30
934 301 000 0	Max. operating pressure 20 bar. M 22x1.5, automatic. Differential pressure 0.4 bar
934 301 003 0	Max. operating pressure 20 bar. M 22x1.5, automatic. Differential pressure 0.4...0.7 bar

Conventional Brake Control

4.01 Foot Brake Valve 461 ...

Foot Brake Valve single-circuit 461 1..



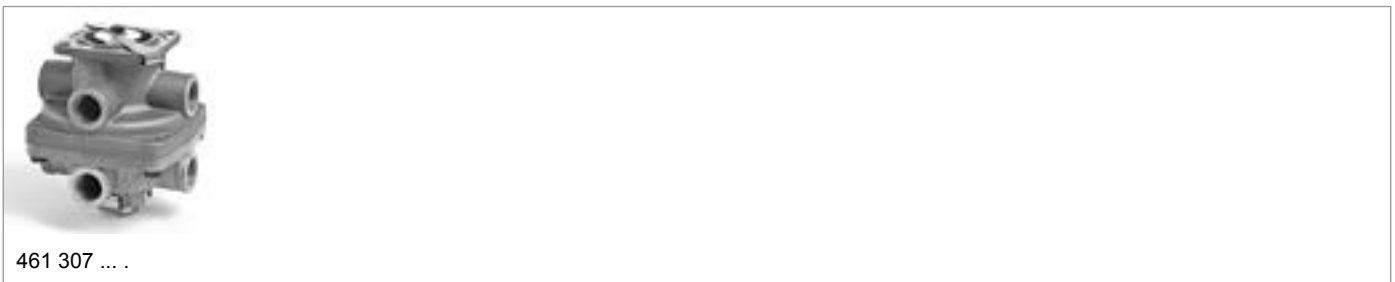
461 106 ...

461 110 ...

461 113 ...

- 461 106 100 0** 2x M 22x1.5, Treadle 35°. Exhaust: Flap
- 461 106 102 0** 2x M 22x1.5, Treadle 35°. Exhaust: Flap
- 461 110 001 0** 2x M 16x1.5, Treadle 30°. Exhaust: Union
- 461 113 000 0** 2x M 12x1.5, Treadle 34°. Exhaust: Hose nipple
- 461 113 001 0** 2x M 16x1.5, Treadle 45°. Exhaust: Union

Foot Brake Valve 461 307 – 461 310



461 307 ...

- 461 307 200 0** 4x M 22x1.5, Predominance 0.25 bar, Treadle 35°. Exhaust: Flap
- 461 307 202 0** Like 461 307 200 0. Deviation: Port positions
- 461 307 204 0** 4x M 22x1.5, Predominance 0.25 bar, Treadle 20°. Exhaust: Flap
- 461 307 419 0** 4x M 22x1.5, Predominance 0.25 bar, Exhaust: Flap
- 461 307 439 0** 4x M 16x1.5, Predominance 0.25 bar, Exhaust: Flap
- 461 307 458 0** 4x M 22x1.5, Predominance 0.25 bar, Exhaust: Flap
- 461 307 475 0** 4x M 22x1.5, Predominance 0.25 bar, Exhaust: M 22x1.5
- 461 307 479 0** 4x M 22x1.5, Predominance 0.25 bar, Exhaust: Flap
- 461 307 520 0** 4x M 22x1.5, Predominance 0.25 bar, Treadle 30°. Exhaust: Flap
- 461 307 521 0** Like 461 307 520 0. Deviation: Port positions
- 461 310 550 0** 4x M 22x1.5, Predominance 0.25 bar, Treadle 20°. Exhaust: M 22x1.5, With electrical switch

Foot Brake Valve 461 315 – 461 317



461 315 008 0

461 315 017 0

461 315 076 0

461 315 180 0

461 315 258 0

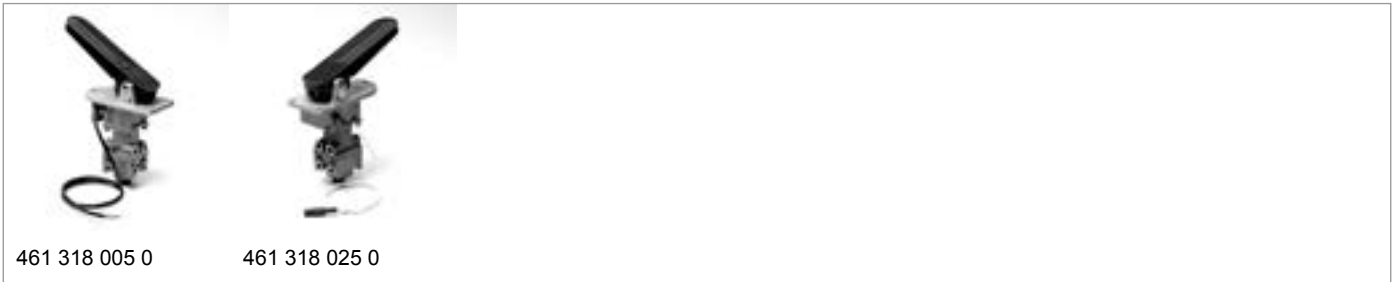
461 316 002 0

461 317 000 0

- 461 315 004 0** 4x M 16x1.5, 2x M 12x1.5, Predominance 0.3 bar, Exhaust: Hose nipple (90°)
- 461 315 008 0** 8x M 16x1.5, Predominance 0.3 bar, Exhaust: Hose nipple (90°)

461 315 012 0	8x M 16x1.5. Predominance 0.3 bar. Exhaust: Flap. with screen
461 315 017 0	4x M 16x1.5, 2x M 12x1.5. Exhaust: Flap. with screen
461 315 026 0	8x M 16x1.5. Predominance 0.4 bar. Exhaust: Snap-on contour. with screen. p11/p12 = 8 bar
461 315 027 0	8x M 16x1.5. Predominance 0.4 bar. Exhaust: Snap-on contour. with screen. p11/p12 = 10 bar
461 315 036 0	4x M 16x1.5. Predominance 0.3 bar. Exhaust: Flap. With stud M 10
461 315 038 0	8x M 16x1.5. Predominance 0.3 bar. Exhaust: Flap. With stud M 10
461 315 042 0	8x M 16x1.5, 2x M 12x1.5. Exhaust: Hose nipple (90°)
461 315 063 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Exhaust: Snap-on contour
461 315 064 0	8x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Exhaust: Flap. stroke of lever 14 mm
461 315 065 0	8x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Exhaust: Flap. stroke of lever 12 mm
461 315 069 0	8x M 16x1.5. Predominance 0.3 bar. Exhaust: Snap-on contour
461 315 076 0	8x M 16x1.5, with silencer
461 315 077 0	8x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Exhaust: Hose nipple (90°)
461 315 086 0	8x M 16x1.5, 2x M 12x1.5. Exhaust (40°): M 22x1.5 / Snap-on contour
461 315 088 0	4x M 16x1.5. Predominance 0.5 bar. Exhaust (40°): M 22x1.5 / Snap-on contour
461 315 089 0	4x M 16x1.5. Exhaust (40°): M 22x1.5 / Snap-on contour
461 315 150 0	4x M 16x1.5. Exhaust: Hose nipple (90°). with screen
461 315 154 0	4x M 16x1.5. Exhaust: Snap-on contour
461 315 161 0	8x 3/8"-18 NPTF. Predominance 0.3 bar. Exhaust: Hose nipple (90°),
461 315 180 0	Flange 5x Ø 12. Silencer integrated. With stud M 6
461 315 239 0	4x M 22x1.5, Voss 230. Predominance 0.8 bar. Exhaust: Hose nipple (90°)
461 315 245 0	4x M 22x1.5, Voss 230. Exhaust: Hose nipple (90°)
461 315 246 0	4x M 22x1.5, Voss 230. Predominance 0.3 bar. Exhaust: Hose nipple. With stud M 8 (2x)
461 315 247 0	4x M 22x1.5, Voss 230. Predominance 0.3 bar. Exhaust: Hose nipple. With stud M 8
461 315 250 0	4x M 22x1.5, Voss 230. Predominance 0.3 bar. Exhaust: Hose nipple. With stud M 8
461 315 258 0	4x M 22x1.5, Voss 230. Predominance 0.4 bar. Exhaust: Hose nipple (90°). With stud M 10
461 315 259 0	4x M 22x1.5, Voss 230. Predominance 0.2 bar. Exhaust M 22x1.5
461 315 261 0	4x M 22x1.5, Voss 230. Predominance 0.5 bar. Exhaust: Hose nipple. With stud M 8
461 315 263 0	4x M 22x1.5, Voss 230. Predominance 0.5 bar, with silencer. With stud M 8
461 315 264 0	4x Voss 232. Predominance 0.5 bar, with silencer. With stud M 8
461 315 459 0	4x M 16x1.5, 2x M 12x1.5. Exhaust: Snap-on contour
461 315 479 0	4x M 16x1.5. Exhaust: Snap-on contour
461 315 490 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Exhaust: Flap
461 315 491 0	4x M 16x1.5. Predominance 0.5 bar. Exhaust: Hose nipple (90°)
461 315 497 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Exhaust: Flap
461 316 002 0	8x M 16x1.5, 2x M 12x1.5. Exhaust (40°): M 22x1.5 / Snap-on contour, With electrical switch
461 317 000 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 35°. Exhaust: Hose nipple (90°)
461 317 001 0	8x M 16x1.5. Treadle 35°, with silencer. with screen
461 317 002 0	4x M 16x1.5. Predominance 0.3 bar. Treadle 30°. Exhaust: Snap-on contour
461 317 005 0	8x M 16x1.5, 2x M 12x1.5. Treadle 30°. Exhaust: Flap. with screen
461 317 006 0	4x M 16x1.5. Treadle 30°. Exhaust: Snap-on contour
461 317 009 0	4x M 16x1.5. Predominance 0.3 bar. Treadle 25°. Exhaust: Snap-on contour. with screen
461 317 019 0	8x M 16x1.5. Predominance 0.3 bar. Treadle 45°. Exhaust: Flap
461 317 021 0	8x M 16x1.5. Predominance 0.3 bar. Treadle 45°. Exhaust: Flap. Ports 21, 22 = 1x closed
461 317 024 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 45°. Exhaust: Hose nipple (90°)
461 317 044 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 35°, with silencer
461 317 050 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 25°. Exhaust: Hose nipple (75°)
461 317 053 0	4x M 16x1.5, 2x M 12x1.5. Treadle 25°, with silencer
461 317 054 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 25°, with silencer

Foot Brake Valve 461 318



461 318 000 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 20°. Exhaust: Snap-on contour. Retarder Control. p11/p12 = 10 bar
461 318 001 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 20°. Exhaust: Snap-on contour. Retarder Control. p11/p12 = 8 bar
461 318 002 0	Like 461 318 000 0. Deviation: Port positions
461 318 003 0	8x M 16x1.5, 2x M 12x1.5. Treadle 25°. Exhaust (40°): M 22x1.5 / Snap-on contour. Retarder Control
461 318 005 0	4x M 16x1.5. Treadle 30°. Exhaust: Snap-on contour. Retarder Control
461 318 006 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 35°. Exhaust M 22x1.5. Retarder Control
461 318 009 0	4x M 16x1.5, 2 M 12x1.5. Treadle 25°. Exhaust: Snap-on contour. Retarder Control. with screen
461 318 019 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 25°. Exhaust: Flap. Retarder Control
461 318 022 0	4x M 16x1.5, 2x M 12x1.5, Parker. Predominance 0.3 bar. Treadle 30°. Exhaust: Snap-on contour. Retarder Control
461 318 025 0	4x M 16x1.5, 2x M 12x1.5. Treadle 20°. Exhaust: Snap-on contour. Retarder Control
461 318 026 0	4x M 16x1.5, 2x M 12x1.5. Treadle 25°, with silencer. Retarder Control
461 318 028 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 25°, with silencer. Retarder Control
461 318 036 0	8x M 16x1.5. Predominance 0.3 bar. Treadle 25°. Exhaust: Flap. Retarder Control
461 318 040 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 35°, with silencer. Retarder Control
461 318 047 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 35°. Exhaust: Snap-on contour. Retarder Control
461 318 049 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 45°. Exhaust: Hose nipple (90°). Retarder Control
461 318 050 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 20°. Exhaust: Hose nipple (90°). Retarder Control (2x Electrical connection)
461 318 051 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 45°. Exhaust: Snap-on contour. Retarder Control (2x Electrical connection)
461 318 053 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 45°. Exhaust: Snap-on contour. Retarder Control (2x Electrical connection)
461 318 056 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 35°. Exhaust: Snap-on contour. Retarder Control (2x Electrical connection)
461 318 057 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 35°, with silencer. Retarder Control (2x Electrical connection)
461 318 059 0	4x M 16x1.5, 2x M 12x1.5. Treadle 20°. Exhaust: Hose nipple (90°). Retarder Control (2x Electrical connection)
461 318 070 0	4x M 22x1.5, Voss 230. Treadle 43°. Exhaust (40°): M 22x1.5 / Snap-on contour. Retarder Control
461 318 071 0	8x M 16x1.5, 2x M 12x1.5. Treadle 43°. Exhaust (40°): M 22x1.5 / Snap-on contour. Retarder Control
461 318 100 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 20°. Exhaust: Flap
461 318 485 0	4x M 16x1.5, 2x M 12x1.5. Predominance 0.3 bar. Treadle 35°. Exhaust: Flap. Retarder Control
461 318 486 0	8x M 16x1.5, 2x M 12x1.5. Treadle 25°. Exhaust: Snap-on contour. Retarder Control (Electrical connection: bared ends)
461 318 501 0	4x M 22x1.5, Voss 230. Predominance 0.2 bar. Treadle 25°. Exhaust: Snap-on contour. Retarder Control
461 318 502 0	4x M 22x1.5, Voss 230. Predominance 0.2 bar. Treadle 25°. Exhaust: M 22x1.5. Retarder Control
461 318 550 0	4x M 22x1.5, Voss 230. Treadle 43°. Exhaust: Snap-on contour. Retarder Control
461 318 551 0	4x M 22x1.5, Voss 230. Predominance 0.3 bar. Treadle 43°. Exhaust: Hose nipple (90°). Retarder Control
461 318 601 0	4x M 16x1.5, 2x M 12x1.5. Treadle 25°. Exhaust: Snap-on contour. Retarder Control (Bayonet (DIN))
461 318 603 0	8x M 16x1.5. Treadle 43°. Exhaust: Snap-on contour. Retarder Control (Bayonet (DIN))
461 318 604 0	8x M 16x1.5. Treadle 43°. Exhaust: Snap-on contour. Retarder Control (Bayonet (DIN))
461 318 605 0	4x M 16x1.5, 2x M 12x1.5. Treadle 25°. Exhaust: Snap-on contour. Retarder Control (Bayonet (DIN))
461 318 608 0	Replacement: 461 318 604 0
461 318 609 0	4x M 16x1.5. Treadle 45°. Exhaust: Snap-on contour. Retarder Control (Bayonet (DIN))

4

Foot Brake Valve 461 319 – 461 324



461 319 250 0	461 319 270 0	461 324 008 0	461 324 018 0	461 324 520 0
461 319 008 0	8x M 16x1.5, Port 4 M 12x1.5. Predominance 0.3 bar. With integral Empty/Load Valve (1.5:1). Exhaust: Hose nipple (90°)			
461 319 011 0	4x M 16x1.5. Port 4 M 16x1.5. Predominance 0.3 bar. With integral Empty/Load Valve (2:1), with silencer			
461 319 018 0	8x M 16x1.5. Port 4 M 12x1.5. Predominance 0.3 bar. With integral Empty/Load Valve (2:1). Exhaust: Hose nipple (90°)			
461 319 088 0	4x M 16x1.5. Port 4 M 16x1.5. Predominance 0.3 bar. With integral Empty/Load Valve (2:1). Exhaust (40°): M 22x1.5 / Snap-on contour			
461 319 250 0	4x M 22x1.5, Port 4 M 16x1.5. Voss 230. Predominance 0.4 bar. With integral Empty/Load Valve (1.25:1). Exhaust: Hose nipple (90°). With stud M 8			
461 319 260 0	4x M 22x1.5, Port 4 M 16x1.5. Voss 230. Predominance 0.4 bar. With integral Empty/Load Valve (1.5:1). Exhaust: Hose nipple. With stud M 8			
461 319 262 0	4x M 22x1.5, Port 4 M 16x1.5. Voss 230. Predominance 0.3 bar. With integral Empty/Load Valve (1.5:1). Exhaust: Hose nipple. With stud M 8			
461 319 263 0	4x M 22x1.5, Port 4 M 16x1.5. Voss 230. Predominance 0.3 bar. With integral Empty/Load Valve (1.5:1). Exhaust (48°) with silencer. With stud M 8			
461 319 264 0	4x Voss 230-NG 12. Port 4 Voss 230-NG 8. Predominance 0.3 bar. With integral Empty/Load Valve (1.5:1). Exhaust (32°) with silencer. With stud M 8			
461 319 270 0	4x M 22x1.5, Port 4 M 16x1.5. Voss 230. Predominance 0.3 bar. With integral Empty/Load Valve (2:1). Exhaust: Hose nipple. With stud M 8			
461 319 271 0	4x M 22x1.5, Port 4 M 16x1.5. Voss 230. Predominance 0.4 bar. With integral Empty/Load Valve (2:1). Exhaust: Hose nipple (90°). With stud M 8			
461 319 272 0	4x M 22x1.5, Port 4 M 16x1.5. Voss 230. Predominance 0.5 bar. With integral Empty/Load Valve (2:1). Exhaust: Hose nipple. With stud M 8			
461 319 273 0	4x M 22x1.5, Port 4 M 16x1.5. Voss 230. Predominance 0.5 bar. With integral Empty/Load Valve (2:1). Exhaust (48°) with silencer. With stud M 8			
461 319 274 0	4x Voss 230-NG 12. Port 4 Voss 230-NG 8. Predominance 0.5 bar. With integral Empty/Load Valve (2:1). Exhaust (32°) with silencer. With stud M 8			
461 323 014 0	8x M 20x1.5. Max. operating pressure 20 bar. Delivered pressure 7.6 bar. Exhaust: Flap			
461 323 042 0	4x M 20x1.5. Max. operating pressure 20 bar. Delivered pressure 7.6 bar. Exhaust: Flap. With stud M 8			
461 324 008 0	4x M 16x1.5, 4x M 12x1.5. Predominance 0.3 bar. Treadle 20°. Exhaust: M 22x1.5. Retarder Valve: Retarder Control			
461 324 009 0	4x M 16x1.5, 4x M 12x1.5. Treadle 25°. Exhaust (40°): M 22x1.5 / Snap-on contour. Retarder Valve: Retarder Control			
461 324 018 0	4x M 16x1.5, 2x M 12x1.5. Treadle 30°. Exhaust: Snap-on contour. Retarder Valve: Retarder Control			
461 324 042 0	4x M 16x1.5, 2x M 12x1.5. Treadle 30°. Exhaust: Snap-on contour. Retarder Valve: Retarder Control			
461 324 520 0	2x M 12x1.5. Pressure Regulating Valve for Retarder Control. Range of adjustment: 2.8...4.5 bar. Exhaust: Flap			

Foot Brake Valve 461 4..

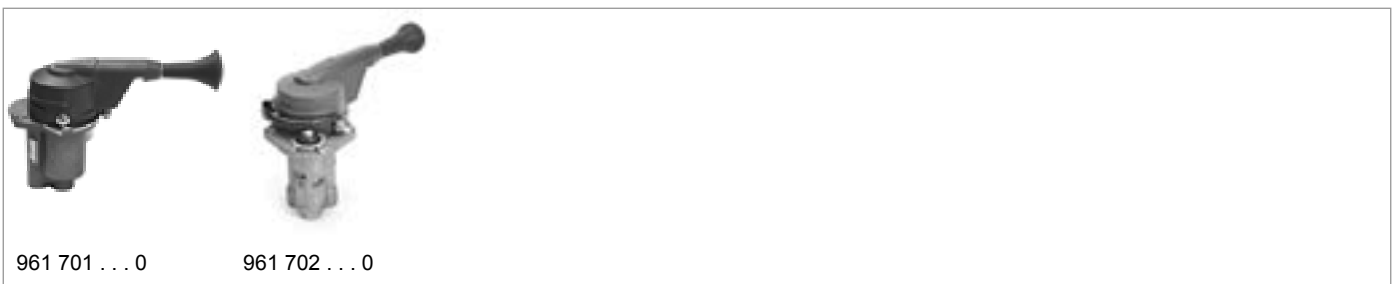


461 482 095 0	461 491 102 0	461 494 502 0	461 499 005 0
461 482 095 0	4x M 16x1.5. Predominance 0.3 bar. With lever. Exhaust: Flap		
461 491 102 0	4x M 22x1.5. Predominance 0.25 bar. With lever. Exhaust: Flap. Base Plate		
461 491 158 0	6x M 16x1.5. Predominance 0.25 bar. With lever. Exhaust: Flap. Ports 2x 21 and 1x 22 closed		
461 494 100 0	4x M 16x1.5. Operating pressure 15 bar. Pressure limited at 7.5 bar; without gaiter. Exhaust: Flap. Replacement: 461 494 103 0		
461 494 110 0	4x M 16x1.5. Operating pressure 8 bar, without gaiter. Exhaust: Hose nipple (90°)		
461 494 113 0	4x M 16x1.5, Parker. Operating pressure 8 bar, without gaiter. Exhaust: Snap-on contour		
461 494 500 0	Delivered pressure 8 bar. Predominance: 0 bar. Silencer integrated. With stud 2x M 8 (RVI)		

461 494 502 0	Delivered pressure 8 bar. Predominance: 0.3 bar. Silencer integrated. With stud 2x M 8 (RVI)
461 494 509 0	Delivered pressure 8 bar. Predominance: 0.45 bar. Silencer integrated. With stud 2x M 8 (RVI)
461 494 510 0	Delivered pressure 10 bar. Predominance: 0.3 bar. Silencer integrated. With stud 2x M 8 (RVI)
461 494 511 0	Delivered pressure 10 bar. Predominance: 0.15 bar. Silencer integrated. With stud 2x M 8 (RVI)
461 494 512 0	Delivered pressure 8 bar. Predominance: 0.15 bar. Silencer integrated. With stud 2x M 8 (RVI)
461 494 700 0	4x M 16x1.5, Parker. Treadle 25°. Predominance: 0.3 bar. Silencer integrated. With micro switch
461 494 701 0	4x M 16x1.5, 2x M 12x1.5, Parker. Treadle 25°. Predominance: 0.3 bar. Silencer integrated. Retarder Valve: Retarder Control
461 494 703 0	4x M 16x1.5, Parker. Treadle 25°. Predominance: 0.45 bar. Silencer integrated. With micro switch. Number of Pins: 4
461 494 704 0	4x M 16x1.5, Parker. Treadle 25°. Predominance: 0.45 bar. Silencer integrated. With micro switch. Number of Pins: 6
461 494 706 0	4x M 16x1.5, Parker. Treadle 35°. Predominance: 0.3 bar. Silencer integrated. With micro switch
461 499 005 0	4x M 22x1.5, 2x M 12x1.5. Predominance 0.25 bar. With lever. Exhaust: Flap, with gaiter

4.07 Hand Grip 961 ...

Hand Grip 961 70.

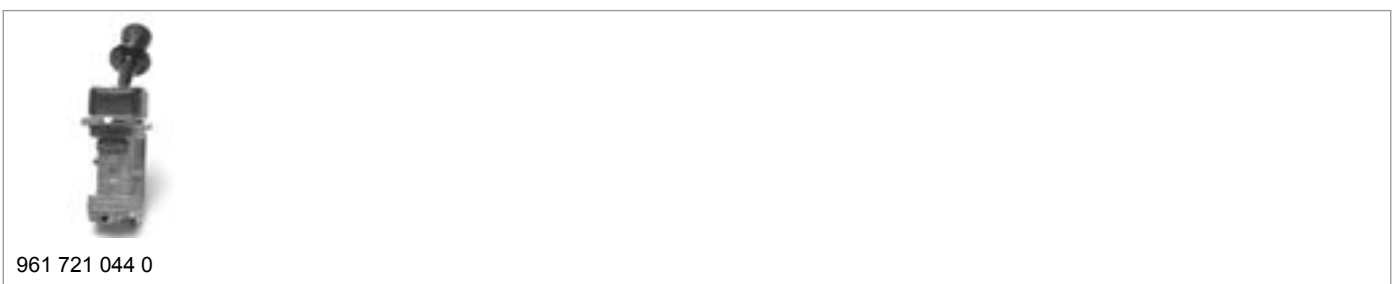


961 701 ... 0

961 702 ... 0

961 701 100 0	Actuation clockwise. Lever operation: 84°. Parking position: 84°. Ports: 3x M 14x1.5
961 701 105 0	Actuation clockwise. Lever operation: 84°. Parking position: 84°. Ports: 3x M 14x1.5
961 701 110 0	Actuation counter clockwise. Lever operation: 84°. Parking position: 84°. Ports: 3x M 14x1.5
961 702 001 0	Actuation clockwise. Lever operation: 90°. Parking position: 90°. Ports: 3x M 14x1.5
961 702 004 0	Actuation clockwise. Lever operation: 90°. Parking position: 72°. With trailer holding test: 90°. Ports: 3x M 14x1.5
961 702 005 0	Actuation clockwise. Lever operation: 90°. Parking position: 72°. With trailer holding test: 90°. Ports: 3x M 14x1.5
961 702 006 0	Actuation clockwise. Lever operation: 90°. Parking position: 72°. With trailer holding test: 90°. Ports: 3x M 14x1.5
961 702 011 0	Actuation counter clockwise. Lever operation: 90°. Parking position: 90°. Ports: 3x M 14x1.5
961 702 014 0	Actuation counter clockwise. Lever operation: 90°. Parking position: 72°. With trailer holding test: 90°. Ports: 3x M 14x1.5
961 702 030 0	Actuation clockwise. Lever operation: 90°. Parking position: 90°. Ports: 3x M 14x1.5
961 703 001 0	Actuation bi-directional. Lever operation: 90°. Parking position: 73°. Bus stop brake: -17°. Ports: 3x M 14x1.5
961 703 002 0	Actuation bi-directional. Lever operation: 90°. Parking position: 73°. Bus stop brake: -17°. Ports: 3x M 14x1.5

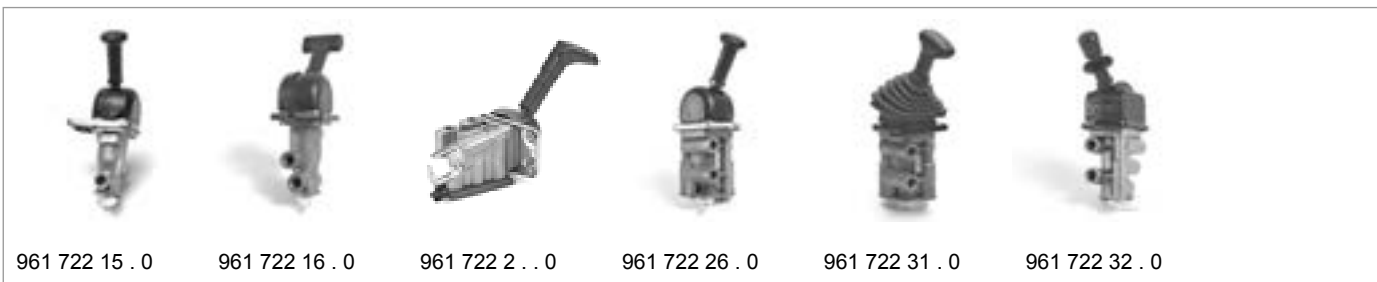
Hand Grip 961 721



961 721 044 0

961 721 044 0	Lever operation 90°. Exhaust: Hose nipple: 90°. Ports: 2x M 14x1.5. Protection Hood
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Hand Grip 961 722



961 722 15 . 0

961 722 16 . 0

961 722 2 . . 0

961 722 26 . 0

961 722 31 . 0

961 722 32 . 0

4

961 722 150 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 90°. Ports: 2x M 14x1.5. Protection boot
961 722 151 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 90°. Ports: 2x M 14x1.5. Protection Hood
961 722 152 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 90°. Ports: 2x M 14x1.5. Protection Hood
961 722 156 0	Lever operation: 73°. Parking position: 73°. Open exhaust. Ports: 2x M 14x1.5. Protection Hood
961 722 157 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 45°. Ports: 2x M 14x1.5. Protection Hood
961 722 158 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 90°. Ports: 2x M 14x1.5. Protection Hood
961 722 160 0	Lever operation: 85°. Parking position: 85°. Exhaust: Hose nipple 90°. Ports: 2x M 14x1.5. Protection Hood
961 722 164 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 45°. Ports: 2x M 16x1.5 Voss. Protection Hood
961 722 175 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 90°. Ports: 2x M 16x1.5 Voss. Protection boot
961 722 179 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 90°. Ports: 2x M 14x1.5. Protection Hood
961 722 210 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 45°. Voss block. Protection Hood
961 722 212 0	Lever operation: 85°. Parking position: 73°. With trailer holding test 85°. Exhaust: Hose nipple 45°. Voss block. Protection Hood
961 722 230 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 45°. Voss block. Protection Hood
961 722 232 0	Lever operation: 85°. Parking position: 73°. With trailer holding test 85°. Exhaust: Hose nipple 45°. Voss block. Protection Hood
961 722 240 0	Lever operation: 85°. Parking position: 73°. With trailer holding test 85°. Exhaust: Hose nipple 45°. Ports: 3x M 16x1.5 Voss. Protection boot
961 722 251 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 45°. Ports: 4x M 14x1.5. Emergency release by 2nd reservoir. Protection Hood
961 722 252 0	Lever operation: 85°. Parking position: 73°. With trailer holding test 85°. Exhaust: Hose nipple 90°. Ports: 3x M 14x1.5. Protection Hood
961 722 258 0	Lever operation: 85°. Parking position: 73°. With trailer holding test 85°. Exhaust: Hose nipple 90°. Ports: 3x M 14x1.5. Protection Hood
961 722 260 0	Lever operation: 85°. Parking position: 73°. With trailer holding test 85°. Exhaust: Hose nipple 90°. Ports: 3x M 14x1.5. Emergency release by 2nd reservoir. Protection boot
961 722 262 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 90°. Ports: 4x M 14x1.5. Emergency release by 2nd reservoir. Protection Hood
961 722 264 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 90°. Ports: 4x M 14x1.5. Emergency release by 2nd reservoir. Protection Hood
961 722 265 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 90°. Ports: 4x M 14x1.5. Emergency release by 2nd reservoir. Protection Hood
961 722 266 0	Lever operation: 85°. Parking position: 73°. With trailer holding test 85°. Exhaust: Hose nipple 90°. Ports: 3x M 14x1.5. Protection Hood
961 722 267 0	Lever operation: 85°. Parking position: 73°. With trailer holding test 85°. Open exhaust. Ports: 3x M 14x1.5. Emergency release by 2nd reservoir. Protection Hood
961 722 269 0	Lever operation: 85°. Parking position: 73°. With trailer holding test 85°. Exhaust: Hose nipple 90°. Ports: 3x M 14x1.5. Protection Hood
961 722 275 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 90°. Ports: 4x M 14x1.5. Emergency release by 2nd reservoir. Protection Hood
961 722 278 0	Lever operation: 85°. Parking position: 73°. With trailer holding test 85°. Exhaust: Hose nipple 45°. Ports: 3x M 16x1.5 Voss. Protection Hood
961 722 292 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 90°. Ports: 2x M 14x1.5. Protection Hood. With electrical switch
961 722 302 0	Lever operation: 85°. Parking position: 85°. Exhaust: Hose nipple 90°. Ports: 3x M 14x1.5. Protection Hood
961 722 305 0	Lever operation: 85°. Parking position: 85°. Exhaust: Hose nipple 90°. Ports: 3x M 14x1.5. Protection Hood
961 722 306 0	Lever operation: 85°. Parking position: 85°. Exhaust: Hose nipple 90°. Ports: 3x M 14x1.5. Protection Hood
961 722 314 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 90°. Ports: 3x M 14x1.5. Protection boot
961 722 324 0	Lever operation: 85°. Parking position: 85°. Exhaust: Hose nipple 90°. Ports: 3x M 14x1.5. Protection Hood
961 722 325 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 90°. Ports: 3x M 14x1.5. Protection Hood. With electrical switch
961 722 326 0	Lever operation: 73°. Parking position: 73°. Exhaust: Hose nipple 90°. Ports: 3x M 14x1.5. Protection Hood. With electrical switch

4.12 Relay Valve 973 ...



280375	9.4 bar. Port 1 = 1/2"-14 NPTF, 2 = 3/8"-18 NPTF, 4 = 1/4"-18 NPTF
477 411 000 0	Control medium: Mineral oil. Operating pressure 0...250 bar. M 16x1.5
973 001 010 0	8 bar. Port 1, 2, 4 = M 22x1.5
973 001 013 0	8 bar. Port 1, 2, 3, 4 = M 22x1.5
973 001 016 0	8 bar. Port 1, 2 = M 22x1.5. Port 4 = M 16x1.5
973 001 018 0	10 bar. Port 1, 2, 4 = M 22x1.5. Port 3 = Snap-on contour
973 001 020 0	10 bar. Port 1 = M 22x1.5. Port 2, 4 = M 16x1.5
973 001 021 0	10 bar. Port 1, 3 = M 22x1.5. Port 2, 4 = M 16x1.5
973 001 030 0	8 bar. Port 1, 2, 4 = M 22x1.5
973 001 031 0	8 bar. Port 1, 2, 4 = M 22x1.5
973 001 032 0	8 bar. Port 1, 2, 4 = M 22x1.5
973 001 210 0	10 bar. Port 1, 2 = M 22x1.5. Port 4 = M 16x1.5. Response pressure: 0.4 bar
973 001 211 0	10 bar. Port 1, 2, 3 = M 22x1.5. Port 4 = M 16x1.5. Response pressure: 0.4 bar
973 001 220 0	10 bar. Port 1 = M 22x1.5. Port 2, 4 = M 16x1.5. Response pressure: 0.4 bar
973 001 221 0	10 bar. Port 1, 3 = M 22x1.5. Port 2, 4 = M 16x1.5. Response pressure: 0.4 bar
973 003 000 0	10 bar. Port 1, 2, 41 = M 22x1.5. Predominance adjustable 1 bar
973 003 002 0	8 bar. Port 1, 2, 41 = M 22x1.5. Predominance adjustable 0 bar. Port 3 = M 22x1.5
973 003 006 0	10 bar. Port 1, 2, 41 = M 22x1.5. Predominance adjustable 0.5 bar, Port 3 with silencer
973 003 007 0	10 bar. Port 1, 2, 41 = M 22x1.5. Predominance adjustable 0.4 bar. Port 3 = M 22x1.5
973 003 008 0	10 bar. Port 1, 2, 41 = M 22x1.5. Parker. Predominance adjustable 0.4 bar, Port 3 with silencer
973 003 010 0	11 bar. Port 1, 2, 41 = M 22x1.5. Voss 232. Predominance adjustable 0.4 bar, Port 3 with silencer
973 006 000 0	10 bar. Port 1 = M 22x1.5, 2, 4 = M 16x1.5. Port 3 = Snap-on contour
973 006 001 0	10 bar. Port 1, 2 = M 22x1.5, 4 = M 16x1.5. Voss 230. Port 3 = Snap-on contour
973 006 003 0	10 bar. Port 1, 2 = M 22x1.5, 4 = M 16x1.5. Voss 230. Port 3 with silencer
973 011 000 0	10 bar. Port 1, 2 = M 22x1.5, 4 = M 16x1.5. Response pressure 0.2 bar. Port 3 = Snap-on contour
973 011 001 0	10 bar. Port 1, 2 = M 22x1.5, 4 = M 16x1.5. Voss 230. Response pressure 0.2 bar. Port 3 = Snap-on contour
973 011 002 0	10 bar. Port 1, 2 = M 22x1.5, 4 = M 16x1.5. Voss 230. Response pressure 0.2 bar. Port 3 = M 22x1.5. with screen
973 011 004 0	10 bar. Port 1, 2 = M 22x1.5, 4 = M 16x1.5. Voss 230. Response pressure 0.2 bar. Port 3 with silencer
973 011 006 0	10 bar. Port 1 = 3/4"-14 NPTF, 2 = 3/8"-18 NPTF, 4 = 1/4"-18 NPTF. Response pressure 0.28 bar
973 011 007 0	10 bar. Port 1, 2 = M 22x1.5, 4 = M 16x1.5. Voss 230. Response pressure 0.2 bar
973 011 008 0	10 bar. Port 1, 2 = M 22x1.5, 4 = M 16x1.5. Voss 230. Response pressure 0.2 bar. Port 3 with silencer. with screen
973 011 009 0	10 bar. Port 1, 2 = M 22x1.5, 4 = M 16x1.5. Voss 230. Response pressure 0.5 bar. Port 3 with silencer. with screen
973 011 010 0	10 bar. Port 1, 2 = M 22x1.5, 4 = M 16x1.5. Response pressure 0.38 bar. Port 3 = M 22x1.5. with screen
973 011 011 0	10 bar. Port 1, 2 = M 22x1.5, 4 = M 16x1.5. Response pressure 0.2 bar. Port 3 = Snap-on contour
973 011 021 0	10 bar. Port 1 = 1/2"-14 NPTF, 2 = 1x 3/8"-18 NPTF, 4 = 1/4"-18 NPTF. Response pressure 0.28 bar. with screen
973 011 022 0	10 bar. Port 1 = 1/2"-14 NPTF, 2 = 1x 3/8"-18 NPTF, 4 = 1/4"-18 NPTF. Response pressure 0.38 bar. with screen
973 011 023 0	10 bar. Port 1 = 1/2"-14 NPTF, 2 = 2x 3/8"-18 NPTF, 4 = 1/4"-18 NPTF. Response pressure 0.28 bar. with screen
973 011 024 0	10 bar. Port 1 = 1/2"-14 NPTF, 2 = 2x 3/8"-18 NPTF, 4 = 1/4"-18 NPTF. Response pressure 0.38 bar. with screen
973 011 025 0	10 bar. Port 1 = Ø 24, 2 = 1x 3/8"-18 NPTF, 4 = Ø 14.5. Response pressure 0.28 bar. with screen
973 011 026 0	10 bar. Port 1 = Ø 24, 2 = 1x 3/8"-18 NPTF, 4 = Ø 14.5. Response pressure 0.38 bar. with screen
973 011 028 0	10 bar. Port 1 = Ø 24, 2 = 2x 3/8"-18 NPTF, 4 = Ø 14.5. Response pressure 0.38 bar. with screen
973 011 050 0	10 bar. Port 1, 21, 22 = M 22x1.5, 4 = M 16x1.5. Response pressure 0.2 bar. Port 3 = M 22x1.5. Non-return Valve
973 011 110 0	13 bar. Port 1, 2 = M 22x1.5, 41, 42 = M 16x1.5. Voss 230. Regulating ratio 1:2.7. Response pressure 0.50 bar. Port 3 with silencer
973 011 250 0	13 bar. Port 1, 2 = M 22x1.5, 41, 42 = M 16x1.5. Voss 230. Anti-Compound Relay Valve. Response pressure 0.2 bar. Port 3 = Snap-on contour
973 011 300 0	13 bar. Port 1, 2, 12 = M 22x1.5, 4 = M 16x1.5. Voss 230. Anti-Compound Relay Valve

4.13 Anti-Compound Valve 473/ 973 ...



473 017 0..0

973 011 2..0

473 017 000 0	Anti-Compound Valve. Max. operating pressure: 10 bar. Ports: M 22x1.5
473 017 001 0	Anti-Compound Valve. Max. operating pressure: 10 bar. Ports: M 22x1.5. Exhaust M 22x1.5.
473 017 030 0	Anti-Compound Valve. Max. operating pressure: 10 bar. Ports: M 22x1.5
973 011 200 0	Anti-Compound Relay Valve. Max. operating pressure 13 bar. Ports Voss 230: 1, 2 = M 22x1.5; 41/42 = M 16x1.5. Exhaust: Snap-on contour
973 011 201 0	Anti-Compound Relay Valve with integral Non Return Valve. Max. operating pressure 12 bar. Ports Parker: 1 = M 22x1.5; 21/22, 41/42 = M 16x1.5. Exhaust: Snap-on contour
973 011 203 0	Anti-Compound Relay Valve. Max. operating pressure 13 bar. Ports: 1, 2 = M 22x1.5; 41/42 = M 16x1.5. Exhaust: Snap-on contour
973 011 205 0	Anti-Compound Relay Valve. Max. operating pressure 13 bar. Ports Voss 230: 1, 2 = M 22x1.5; 41/42 = M 16x1.5. Exhaust with silencer
973 011 206 0	Anti-Compound Relay Valve. Max. operating pressure 13 bar. Ports Voss 230: 1, 21 = M 22x1.5; 22, 41/42 = M 16x1.5. Exhaust with silencer
973 011 208 0	Anti-Compound Relay Valve. Max. operating pressure 13 bar. Ports Voss 230: 1 = M 22x1.5; 21/22, 41/42 = M 16x1.5. Exhaust with silencer

4.14 LSV Manual (Hand control) 475 ...

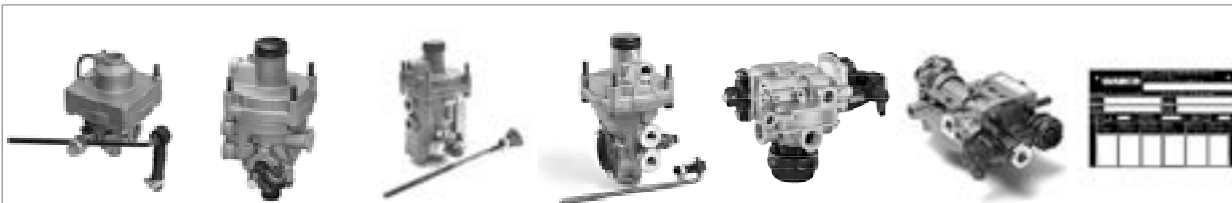


475 604 010 0

475 604 013 0

475 604 010 0	LSV Manual for single line braking system , with release position, 3x load position
475 604 011 0	LSV Manual for two line braking system, with release position, 3x load position
475 604 013 0	LSV Manual for two line braking system, without release position, 3x load position

4.15 Automatic Load Sensing Valve (mechanical) 475 ...



475 701 ...

475 710 ...

475 712 ...

475 713 ...

475 720 ...

475 722 000 0

899 144 630 4

475 701 020 0	LSV, mechanical. With lever
475 710 007 0	Control stroke 60°, M 16x1.5. Port 3 = M 22x1.5

475 710 011 0	Control stroke 60°, M 16x1.5. Port 1 = M 22x1.5
475 710 016 0	Control stroke 60°, M 22x1,5 Voss 230. Port 4 = M 16x1,5 Voss 230
475 710 020 0	Control stroke 30°, M 16x1.5
475 710 024 0	Control stroke 34°, M 16x1.5. Port 1 = M 22x1.5
475 710 025 0	Control stroke 30°, M 16x1.5. Port 1 = M 22x1.5
475 710 036 0	Control stroke 30°, M 16x1.5. for Voss 230
475 710 040 0	Control stroke 20°, M 16x1.5, Port 1 = M 22x1.5
475 710 128 0	Control stroke 30°, M 16x1.5. Port 1 = M 22x1.5
475 710 129 0	Control stroke 30°, M 16x1.5, Port 1 = M 22x1.5
475 710 136 0	Control stroke 16°, M 16x1.5 / M 22x1.5, Port 1 = M 22x1.5, for Voss 230, with silencer
475 710 156 0	Control stroke 30°, M 16x1.5, Port 1 = M 22x1.5, for Voss 230
475 712 000 0	Control stroke 20°, M 16x1.5 / M 22x1.5, Port 1 = M 16x1.5. With lever
475 712 004 0	Control stroke 30°, M 16x1.5 / M 22x1.5, Port 1 = M 16x1.5. With lever
475 713 000 0	Control stroke 34°, dynamic. M 16x1.5 / M 22x1.5, Port 1 = M 22x1.5
475 713 002 0	Control stroke 20°, M 16x1.5 / M 22x1.5. With lever
475 713 500 0	Control stroke 20°, static. M 16x1.5 / M 22x1.5. With lever + Tension spring
475 713 501 0	Control stroke 33°, static. M 16x1.5 / M 22x1.5. With lever + Tension spring
475 720 001 0	Control stroke 30°. Regulating range 0.8 ±0.2 bar. M 22x1,5 Voss 230, with silencer
475 720 002 0	Control stroke 60°. Regulating range 0.6 ±0.2 bar. M 22x1.5, with silencer
475 720 003 0	Control stroke 30°. Regulating range 0.6 ±0.2 bar. M 22x1.5 Voss 230, with silencer
475 720 004 0	Control stroke 30°. Regulating range 0.6 ±0.2 bar. M 22x1.5, with silencer
475 720 005 0	Control stroke 16°. Regulating range 0.6 ±0.2 bar. M 22x1.5, for Voss 232, with silencer
475 720 008 0	Control stroke 30°. Regulating range 0.6 ±0.2 bar. M 22x1.5, with silencer
475 720 500 0	Control stroke 30°. Regulating range 0.6 ±0.2 bar. M 22x1,5 Voss 230, with silencer. Electrical connection Bayonet (DIN)
475 722 000 0	Control stroke 52°. Regulating range 0.6 ±0.2 bar, M 16x1.5
899 144 630 4	Dataplate

Please note that devices for replacement have to be adjusted according to the vehicle type.

4.16 Knuckle Joint 433 30.



433 30.

433 302 002 0	Length 260. Deflection h = 100. Output force 20 - 35 N. Pressure piece
433 302 008 0	Length 160. Deflection h = 55. Output force 40 - 110 N. Socket
433 302 016 0	Length 260. Deflection h = 100. Output force 40 - 100 N. Socket
433 302 026 0	Length 220. Deflection h = 85. Output force 49 - 145 N. without connector
433 302 029 0	Length 220. Deflection h = 85. Output force 26 - 47 N. Pressure piece M 8
433 306 024 0	Length 320. Deflection h = 140. Output force 40 - 63 N. Mounting: ball socket
433 306 040 0	Length 220. Deflection h = 70. Output force 70 - 150 N

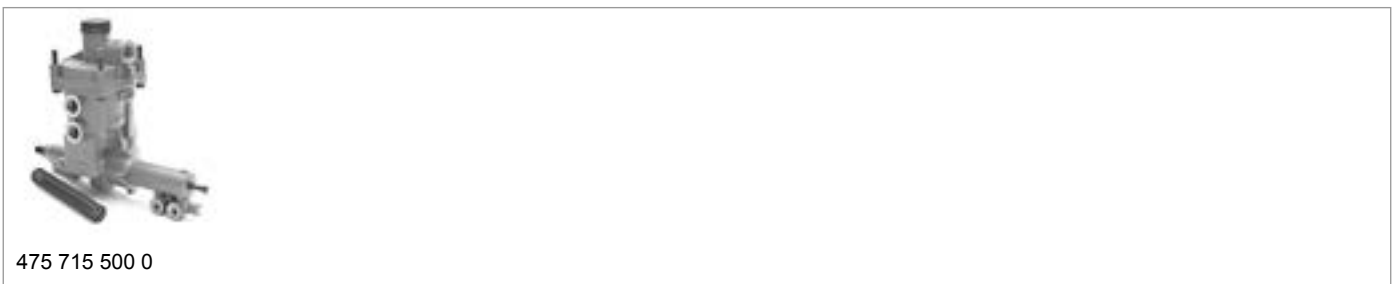
4.17 LSV Relay - pneu., 475 ...



475 700 122 0	Control medium: Air, 1-Circuit. Control pressure 1 - 8 bar
475 700 220 0	Control medium: Air, Universal type for All 1.. 0, 2.. 0. Control pressure 0.7 - 8 bar
475 700 402 0	Control medium: Mineral oil, 2-Circuit. Control pressure 10 - 156 bar
475 711 024 0	Control pressure 0.6 - 4.3 bar
475 711 034 0	Control pressure 0.4 - 5.6 bar
475 711 041 0	Control pressure 0.5 - 5.0 bar
475 711 051 0	Control pressure 0.4 - 6.6 bar, Voss 230
475 711 060 0	Control pressure 0.6 - 4.9 bar
475 711 074 0	Control pressure 0.5 - 5.0 bar
475 711 075 0	Control pressure 0.5 - 5.0 bar
475 711 118 0	Control pressure 0.5 - 3.0 bar, with silencer, for Voss push-in fittings
475 711 126 0	Control pressure 0.5 - 5.9 bar, with silencer, for Voss push-in fittings
475 711 146 0	Control pressure 1.0 - 8.6 bar. Exhaust: Snap-on contour, for Voss push-in fittings
475 711 149 0	Control pressure 1.2 - 4.5 bar,with silencer, for Voss push-in fittings
475 711 155 0	Control pressure 0.5 - 6.7 bar
475 714 500 0	Universal type. Control pressure 0.7 - 3.8 bar
475 714 509 0	Control pressure 0.7 - 4.7 bar
475 714 510 0	Control pressure 0.4 - 3.6 bar
475 714 511 0	Control pressure 0.7 - 6.1 bar
475 714 600 0	Control medium: Mineral oil. Control pressure 20 - 140 bar
475 721 001 0	Control pressure 0.6 - 5,0 bar. Regulating range 0.6 ±0.2 bar. M 22x1,5, with silencer
475 721 002 0	Control pressure 0.4 - 2.7 bar. Regulating range 0.6 ±0.2 bar. M 22x1,5 Voss 230, with silencer
475 721 005 0	Control pressure 0.5 - 4.5 bar, Regulating range 0.6 ±0.2 bar. M 22x1,5. for Voss 232, with silencer
475 721 008 0	Control pressure 0.5 - 3.0 bar. Regulating range 0.6 ±0.2 bar, M 22x1.5, for Voss 232, with silencer
475 721 009 0	Control pressure 0.5 - 2.0 bar. Regulating range 0.6 ±0.2 bar, M 22x1,5, for Voss 232, with silencer
475 721 018 0	Control pressure 0.5 - 3.0 bar. Regulating range 0.6 ±0.2 bar, M 22x1,5. for Voss 232,
475 721 500 0	Control pressure 0.5 - 4.7 bar. Regulating range 0.8 ±0.2 bar, M 22x1,5 Voss 230, with silencer. Electrical connection Bayonet (DIN)
475 723 000 0	Control pressure 1.0 -4.6 bar. Regulating range 0.7 ±0.2 bar, M 16x1.5. Exhaust: Snap-on contour
475 723 001 0	Control pressure 0.5 -4.1 bar. Regulating range 0.7 ±0.2 bar, M 16x1,5. Exhaust: Snap-on contour
899 144 631 4	Dataplate

Please note that devices for replacement have to be adjusted according to the vehicle type.

4.18 LSV Relay Emergency 475 715



475 715 500 0	LSV Relay Emergency. Control pressure 0.7...3.8 bar. Universal type
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- 475 715 507 0** LSV Relay Emergency. Control pressure 0.35...5.6 bar
- 475 715 513 0** LSV Relay Emergency. Control pressure 0.7...4.7 bar
- 475 715 514 0** LSV Relay Emergency. Control pressure 0.4...4.7 bar

Please note that devices for replacement have to be adjusted according to the vehicle type.

4.20 Adaptor Valve 975 ...



- 975 001 000 0** M 22x1.5. Residual pressure 0.6 - 0.8 bar
- 975 001 001 0** M 22x1.5. Residual pressure 0.9 - 1.1 bar
- 975 001 002 0** M 22x1.5. Residual pressure 0.4 - 0.6 bar
- 975 001 003 0** M 22x1.5. Residual pressure 0.3 bar
- 975 001 500 0** M 22x1.5. Residual pressure 0.6 - 0.8 bar. with test connection
- 975 002 001 0** M 22x1.5. Residual pressure: outline drawing
- 975 002 003 0** M 22x1.5. Residual pressure: outline drawing
- 975 002 005 0** M 22x1.5. Residual pressure: outline drawing
- 975 002 017 0** M 16x1.5. Residual pressure: outline drawing
- 975 002 071 0** M 22x1.5, for Voss push-in fittings. Exhaust with snap-on contour. Residual pressure: outline drawing
- 975 002 072 0** M 22x1.5, for Voss push-in fittings, with silencer. Residual pressure: outline drawing
- 975 002 073 0** M 22x1.5, for Voss push-in fittings. Exhaust with snap-on contour. Residual pressure: outline drawing

4.22 Quick Release Valve 473 / 973 5..

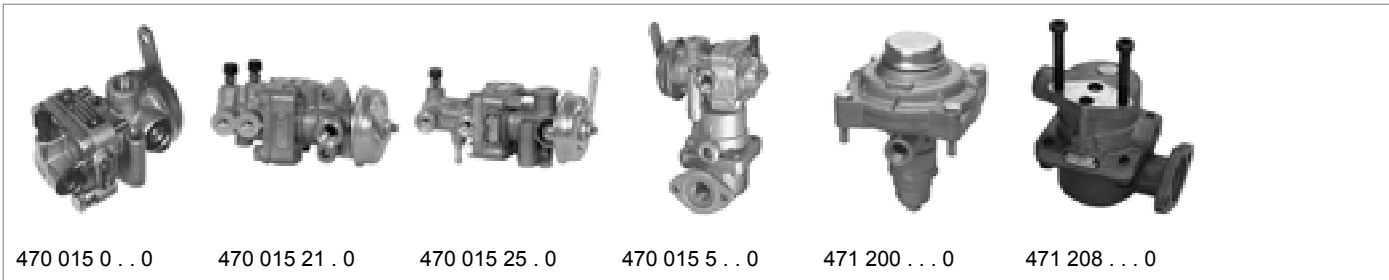


- 473 501 000 0** M 22x1.5. With bypass
- 473 501 001 0** M 22x1.5. Port 3 = M 22x1.5. Double Check Valve also
- 473 501 004 0** M 22x1.5. Port 3 = M 22x1.5. with screen
- 473 501 201 0** M 22x1.5. Port 3 = M 22x1.5. Double Check Valve also
- 473 501 202 0** M 22x1.5. Port 3 = M 22x1.5, with fording ability
- 473 501 203 0** M 22x1.5. Port 3 = M 22x1.5
- 973 500 000 0** M 22x1.5. Port 3 = M 22x1.5. Double Check Valve also
- 973 500 003 0** G 3/8" J. Port 3 = G 3/8" J
- 973 500 006 0** M 16x1.5. Port 3 = M 16x1.5
- 973 500 014 0** 1/2" NPTF-SAE. Port 2, 3 = 3/8" NPTF
- 973 500 028 0** M 22x1.5. Port 23 = M 16x1.5. Voss 230. Port 3: Snap-on contour
- 973 500 034 0** M 22x1.5. Voss 230. Port 3: Snap-on contour
- 973 500 038 0** M 22x1.5. Port 21/22/23/24 = M 16x1.5, Port 3 = M 22x1.5
- 973 500 039 0** M 22x1.5. Parker. Port 3 = M 22x1.5
- 973 500 042 0** M 22x1.5. Voss 230. Port 3 = M 22x1.5
- 973 500 044 0** M 22x1.5. Parker. Port 3 = M 22x1.5
- 973 500 045 0** M 22x1.5. Parker. Port 3 with silencer

973 500 047 0	M 16x1.5. Port 1 = M 22x1.5
973 500 051 0	M 22x1.5. Port 2 = M 16x1.5. Double Cut-Off Valve integrated
973 500 053 0	M 16x1.5. Port 3 with silencer. Double Cut-Off Valve integrated
973 500 057 0	M 16x1.5. Port 3 = M 16x1.5. Double Cut-Off Valve integrated

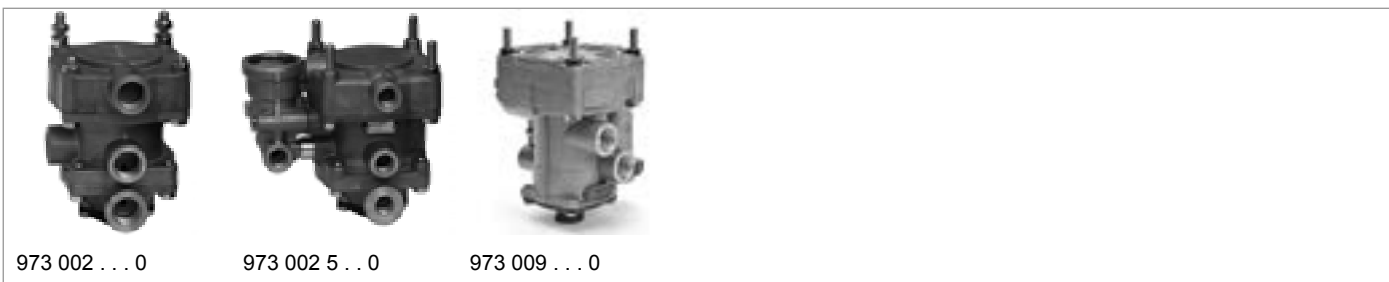
4.23 Trailer Control Valve 47./ 973 ...

47. ...



470 015 011 0	1-Circuit. P4 = 70 bar. Response pressure 7 bar. Mineral oil. Port 4 = M 12x1
470 015 052 0	1-Circuit. P4 = 20 bar. Response pressure 5 bar. Brake fluid. Port 4 = M 12x1
470 015 055 0	1-Circuit. P4 = 30 bar. Response pressure 5 bar. Mineral oil. Port 4 = M 12x1
470 015 096 0	1-Circuit. P4 = 15 bar. Response pressure 5 bar. Brake fluid. Port 4 = M 12x1
470 015 201 0	2-Circuit. P41/42 = 8 bar. Response pressure 3.5 bar. Mineral oil. Port 41/42 = M 12x1
470 015 203 0	2-Circuit. P41/42 = 12 bar. Response pressure 3.5 bar. Mineral oil. Port 41/42 = M 12x1
470 015 215 0	2-Circuit. P41/42 = 19 bar. Response pressure 3 bar. Mineral oil. Port 41/42 = M 12x1
470 015 217 0	2-Circuit. P41/42 = 14 bar. Response pressure 3 bar. Mineral oil. Port 41/42 = M 12x1
470 015 223 0	2-Circuit. P41/42 = 20 bar. Response pressure 3 bar. Mineral oil. Port 41/42 = M 10x1
470 015 252 0	2-Circuit. P41 = 20 bar (Brake fluid). P42 = 7.4 bar (Air). Response pressure 0...1 bar. Port 41/42 = M 10x1
470 015 253 0	2-Circuit. P41 = 20 bar (Mineral oil). P42 = 7.4 bar (Air). Response pressure 0...1 bar. Port 41/42 = M 10x1
470 015 255 0	2-Circuit. P41 = 11 bar (Mineral oil). P42 = 7.4 bar (Air). Response pressure 0...1 bar. Port 41/42 = M 10x1
470 015 257 0	2-Circuit. P41 = 19 bar (Mineral oil). P42 = 7.4 bar (Air). Response pressure 0.6...1.2 bar. Port 41/42 = M 10x1
470 015 259 0	2-Circuit. P41 = 8 bar (Mineral oil). P42 = 7.4 bar (Air). Response pressure 0...1 bar. Port 41/42 = M 10x1
470 015 261 0	2-Circuit. P41 = 14 bar (Mineral oil). P42 = 7.4 bar (Air). Response pressure 0...1 bar. Port 41 = M 10x1, 42 = M 12x1.5
470 015 265 0	2-Circuit. P41 = 11 bar (Mineral oil). P42 = 7.4 bar (Air). Response pressure 0.6...1.6 bar. Port 41 = M 10x1, 42 = M 12x1.5
470 015 267 0	2-Circuit. P41 = 14 bar (Mineral oil). P42 = 7.4 bar (Air). Response pressure 1.0...1.6 bar. Port 41 = M 10x1, 42 = M 12x1.5
470 015 269 0	2-Circuit. P41 = 14 bar (Mineral oil). P42 = 7.4 bar (Air). Response pressure 0...1 bar. Port 41 = M 10x1, 42 = M 12x1.5
470 015 300 0	3-Circuit. P41 = 60 bar (Mineral oil). P42 = 8.5 bar (Air). Response pressure 0.5 bar. Port 41/42/44 = M 10x1
470 015 301 0	3-Circuit. P41 = 95 bar (Mineral oil). P42 = 8.5 bar (Air). Response pressure 0.5 bar. Port 41/42/44 = M 10x1
470 015 590 0	for single line braking system + two line braking system. P4 = 45 bar (Brake fluid). Response pressure 7 bar. Combination of 471 208 000 0 + 470 015 090 0
471 003 020 0	for single line braking system. Max. operating pressure 5.3 bar. Ports: M 22x1.5
471 200 008 0	for single line braking system. Pressure limited 5.2 bar. Ports: M 22x1.5. Without lever
471 200 110 0	for single line braking system. Pressure limited 5.2 bar. Ports: M 22x1.5. Without lever
471 208 000 0	for single line braking system. Pressure limited 5.2 bar. Ports: M 16x1.5. Combination with 470 015 ...

973 ...



973 002 070 0	Max. operating pressure 8 bar. Predominance 0.6 bar (adjustable). Ports: M 22x1.5. Without port 43
973 002 402 0	Max. operating pressure 8 bar. Without predominance. Ports: M 16x1.5

973 002 520 0	Max. operating pressure 8 bar. Without predominance. Ports: M 16x1.5. Supply dump valve
973 002 521 0	Max. operating pressure 8 bar. Predominance 0.2 bar (adjustable). Ports: M 16x1.5. Supply dump valve
973 002 535 0	Max. operating pressure 8 bar. Predominance 0.0 bar (adjustable). Ports: M 16x1.5, 3 = Snap-on contour. Supply dump valve
973 002 538 0	Max. operating pressure 8 bar. Without predominance. Ports: M 16x1.5. Supply dump valve
973 002 539 0	Max. operating pressure 8 bar. Predominance 0.3 bar (adjustable). Ports: M 16x1.5. Supply dump valve
973 009 001 0	Max. operating pressure 8.5 bar. Predominance 0.2 bar (adjustable). Ports: M 22x1.5 Voss 230, 3 = Snap-on contour. Supply dump valve
973 009 002 0	Max. operating pressure 10 bar. Predominance 0.2 bar (adjustable). Ports: M 22x1.5 Voss 230, 3 = Snap-on contour. Supply dump valve
973 009 006 0	Max. operating pressure 10.5 bar. Predominance 0.0 bar (adjustable). Ports: M 22x1.5 Voss 230, 3 = Snap-on contour. Supply dump valve
973 009 007 0	Max. operating pressure 10.4 bar. Predominance 0.0 bar (adjustable). Ports: M 22x1.5 Voss 230, 3 with silencer. Supply dump valve
973 009 010 0	Max. operating pressure 10 bar. Predominance 0.4 bar (adjustable). Ports: M 16x1.5, 3 with silencer. Supply dump valve
973 009 013 0	Max. operating pressure 10 bar. Predominance 0.2 bar (adjustable). Ports: M 16x1.5, 3 Snap-on contour. Supply dump valve
973 009 015 0	Max. operating pressure 10 bar. Predominance 0.1 bar (adjustable). Ports: M 16x1.5, 3 with silencer. Supply dump valve
973 009 120 0	Max. operating pressure 10.5 bar. Predominance 0.0 bar (adjustable). Ports: M 16x1.5, 3 with silencer
973 009 300 0	Max. operating pressure 10 bar. Predominance 0.2 bar (adjustable). Ports: M 22x1.5 Voss 230, 3 with silencer. Supply dump valve

4.25 Emergency Relay Valve 971 002 ...



400 600 010 0	Set: Relay Emergency Valve 971 002 301 0. Pressure Sensor 441 040 015 0
971 002 000 0	M 22x1.5. Max. operating pressure: 8 bar
971 002 150 0	M 22x1.5. Predominance adjustable
971 002 151 0	M 16x1.5. Ports 1, 2, 4 = M 22x1.5. Without predominance
971 002 152 0	M 22x1.5. Ports 1, 4 = M 16x1.5; 2 = 4x M 16x1.5, 1x M 22x1.5. Predominance adjustable. Without flange
971 002 157 0	M 22x1.5. Ports 1, 4 = M 16x1.5; 2 = 4x M 16x1.5, 1x M 22x1.5
971 002 300 0	M 22x1.5. Port 4 = M 16x1.5. Predominance adjustable
971 002 301 0	M 22x1.5. Port 4 = M 16x1.5. Without predominance
971 002 304 0	M 22x1.5. Port 4 = M 22x1.5. Predominance 0.0 bar (adjustable)
971 002 307 0	M 22x1.5. Port 4 = M 22x1.5. Without predominance
971 002 531 0	Combination of 971 002 150 0 + 963 001 012 0
971 002 533 0	Combination of 971 002 150 0 + 963 001 013 0
971 002 570 0	Combination of 971 002 150 0 + 475 604 011 0
971 002 620 0	Combination of 971 002 150 0 + 475 604 013 0 + 963 001 012 0
971 002 700 0	Combination of 971 002 300 0 + 963 001 013 0
971 002 701 0	Combination of 971 002 300 0 + 963 001 012 0

4.26 Air/Hydraulic Chamber 423 0..



423 0. . . . 0

423 057 003 0 Type 30. 3-hole flange Ø 82.5. Stroke: 75 mm

423 058 002 0 Type 36. 3-hole flange Ø 82.5. Stroke: 75 mm. Wear Indicator

423 060 004 0 Type 14. 3-hole flange. Ø 82.5. Stroke: 62 mm. Port M 16x1.5 Voss 230

4.27 Pedal box 965 ...



965 001 001 0

965 001 001 0 Pedal box. DAF, RVI

965 001 001 2 Foot Brake Valve. For 965 001 011 0, 965 001 012 0

965 001 002 2 Foot Brake Valve. For 965 001 001 0, 965 001 004 0

965 001 003 2 Foot Brake Valve. For 965 001 003 0, 965 001 006 0

965 001 004 0 Pedal box. RVI

965 001 004 2 Foot Brake Valve. For 965 001 009 0, 965 001 010 0

965 001 005 2 Foot Brake Valve. For 965 001 002 0, 965 001 005 0

965 001 006 0 Pedal box. RVI. Throttle control

965 001 902 2 Master Cylinder (clutch). For 965 001 001/ 002/ 007 /009/ 011/ 015/ 016/ 017 0 from production 2003

965 001 911 2 Central Brake Unit. For Pedal box 965 001 906/ 907/ 908/ 909/ 910/ 911/ 912/ 913 0

965 050 001 0 Throttle control. For 965 001 0.. 0

965 100 002 0 Throttle control. Iveco Stralis

4.28 Compact Unit 921 399



921 399 . . . 0

921 399 016 0 Hydraulic Pressure 120 bar. Pneumatic Pressure 8 bar. Swept volume 60 cm³. Reservoir 800 ccm

921 399 022 0 Hydraulic Pressure 120 bar. Pneumatic Pressure 8 bar. Swept volume 60 cm³. Reservoir 800 ccm

921 399 025 0 Hydraulic Pressure 120 bar. Pneumatic Pressure 8 bar. Swept volume 60 cm³. Reservoir 800 ccm. Fluid Level Switch

921 399 200 0 Hydraulic Pressure 120 bar. Pneumatic Pressure 8 bar. Swept volume 30 cm³. Reservoir 800 ccm

4.29 Release Valve 463/ 963 ...



463 034 005 0	Release Valve. Front axle. Flange
963 001 012 0	M 16x1.5, Actuating knob: black, for 963 001 05. 0 / 971 002 ...
963 001 013 0	M 22x1.5, for trailer emergency valve 971 002 ...
963 001 050 0	M 16x1.5, for diaphragm and single part
963 001 051 0	Dual Release Valve, with non-return valve. Dataplate. Actuating knob: black + Red
963 001 052 0	Dual Release Valve. Dataplate. Black + Red
963 001 053 0	Dual Release Valve, with non-return valve. Actuating knob: black + Red
963 006 001 0	M 16x1.5. Black Knob
963 006 003 0	M 16x1.5, knob: Red
963 006 005 0	M 16x1.5. Actuating knob: green
963 006 006 0	M 16x1.5, knob: Yellow
963 006 007 0	M 16x1.5, knob: Blue
963 006 008 0	M 16x1.5, knob: White

4.30 Empty Load Valve 473/ 973 ...



473 301 001 0	M 22x1.5. Pressure reduction 1.50 : 1
473 301 002 0	M 22x1.5. Pressure reduction 1.35 : 1
473 301 003 0	M 22x1.5. Pressure reduction 1.15 : 1
473 302 001 0	M 16x1.5. Pressure reduction 2.00 : 1
473 302 021 0	M 16x1.5. Pressure reduction 2.00 : 1, Port 3 = M 22x1.5
973 011 106 0	13 bar. Port 1, 2 = M 22x1.5, 41, 42 = M 16x1.5. Voss 230. Regulating ratio 1:1.5. Response pressure 0.25 bar. Port 3 with silencer
973 011 107 0	13 bar. Port 1, 2 = M 22x1.5, 41, 42 = M 16x1.5. Voss 230. Regulating ratio 1:2.7. Response pressure 0.25 bar. Port 3 with silencer
973 011 109 0	13 bar. Port 1, 2 = M 22x1.5, 41, 42 = M 16x1.5. Voss 230. Regulating ratio 1:1.5. Response pressure 0.50 bar. Port 3 with silencer

4

Electronic Brake Control

5.01 ABS ECU Motor Vehicle 446 0..



446 004 419 0

446 004 606 0

446 044 022 0

446 003 735 0	ECU ABS/ASR-E Universal, 4S/4M, 24 V. Diagnostic Connection: SAE J1708 / J1587. CAN interface: SAE J1939
446 004 311 0	Replacement: 446 003 735 0
446 004 419 0	Replacement: 446 003 735 0
446 004 606 0	ABS-E Basic, 4S/4M, 24 V
446 004 607 0	ECU ABS-E Basic, 4S/4M, 4S/3M, 4S/2M, 24 V. Diagnostic Connection: ISO 9141. CAN interface: SAE J19. Replacement for: 446 004 304 0
446 004 608 0	ECU ABS/ASR-E Basic, 4S/4M, 24 V. Diagnostic Connection: SAE J1587. CAN interface: SAE J1939. Replacement for: 446 004 305 0
446 004 612 0	ECU ABS/ASR-E Basic, 4S/4M, 4S/3M, 4S/2M, 24 V. Diagnostic Connection: ISO 14230 (KWP2000). CAN interface: SAE J1939. Replacement for: 446 004 318 0
446 004 616 0	ECU ABS-E Basic, 4S/4M, 4S/3M, 4S/2M, 24 V. Diagnostic Connection: ISO 9141
446 004 631 0	ECU ABS/ASR-E Basic, 4S/4M, 4S/3M, 4S/2M, 24 V. Diagnostic Connection: ISO 9141. CAN interface: SAE J1939
446 044 022 0	ECU H-ABS, 12 V. Vehicle Application: Land Rover
446 044 030 0	Replacement: 446 044 031 0
446 044 031 0	ECU H-ABS, 4S/4M. 12 V. Diagnostic Connection: ISO 14230
446 044 070 0	ECU H-ABS CB40, 4S/4M. 12 V. Diagnostic Connection: ISO 14230
446 044 074 0	ECU H-ABS, 4S/4M. 12 V. Diagnostic Connection: ISO 14230. Vehicle Application: Range Rover
446 044 075 0	ECU H-ABS, 4S/4M. 12 V. Diagnostic Connection: ISO 14230. Vehicle Application: Land Rover Defender
446 044 076 0	ECU H-ABS, 4S/4M. 12 V. EBD. Diagnostic Connection: ISO 14230
446 044 077 0	ECU H-ABS, 4S/4M. 12 V. DBR. Diagnostic Connection: ISO 14230
446 044 079 0	ECU H-ABS, 4S/4M. 12 V. EBD, ETC, 4WD. Diagnostic Connection: ISO 14230
446 044 086 0	ECU H-ABS-D, 4S/4M. 12 V. Diagnostic Connection: SAE J1708 / J1587
446 044 087 0	ECU H-ABS-D, 4S/4M. 12 V. Diagnostic Connection: SAE J1708 / J1587
446 044 092 0	ECU H-ABS-D, 4S/4M. 12 V. EBD. Diagnostic Connection: ISO 14230

Please note that devices for replacement have to be calibrated or parameterised. Training and diagnosis are required.

5.02 Cable ABS Motor Vehicle



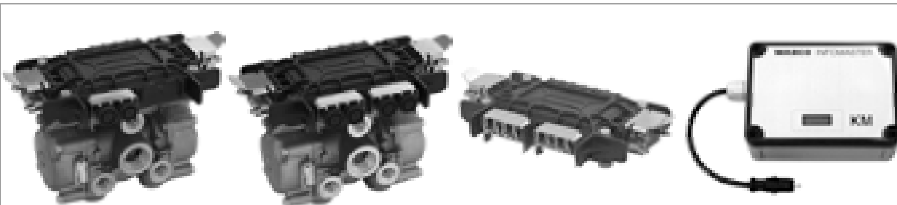
449 714 047 0

894 600 451 2

Part number	Application	Length	Connection	Electrical connection	Comments
449 413 040 0	Bayonet	4 m	ISO 15170-B1-3.1-SN/K1	3x bared ends	
449 413 050 0	Bayonet	5 m	ISO 15170-B1-3.1-SN/K1	3x bared ends	
449 413 060 0	Bayonet	6 m	ISO 15170-B1-3.1-SN/K1	3x bared ends	
449 413 080 0	Bayonet	8 m	ISO 15170-B1-3.1-SN/K1	3x bared ends	
449 413 100 0	Bayonet	10 m	ISO 15170-B1-3.1-SN/K1	3x bared ends	

Part number	Application	Length	Connection	Electrical connection	Comments
449 415 060 0	Bayonet	6 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	
449 415 080 0	Bayonet	6 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	
449 415 100 0	Bayonet	10 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	
449 513 004 0	Bayonet	0.4 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 040 0	Bayonet	4 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 050 0	Bayonet	5 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 060 0	Bayonet	6 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 080 0	Bayonet	8 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 090 0	Bayonet	9 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 100 0	Bayonet	10 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 120 0	Bayonet	12 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 150 0	Bayonet	15 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 160 0	Bayonet	16 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 515 004 0	Bayonet	0.4 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	90° Plug
449 515 020 0	Bayonet	2 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	90° Plug
449 515 050 0	Bayonet	5 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	90° Plug
449 515 070 0	Bayonet	7 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	90° Plug
449 711 050 0	Sensor	5.0 m		Plug	bared ends
449 711 080 0	Sensor	8.0 m		Plug	bared ends
449 714 028 0	Sensor	2.8 m		Socket	2x bared ends
449 714 047 0	Sensor	4.7 m		Socket	2x bared ends
449 714 100 0	Sensor	10 m		Socket	2x bared ends
449 721 040 0	Sensor	4 m		Plug	2x bared ends
449 721 050 0	Sensor	5 m		Plug	2x bared ends
449 721 060 0	Sensor	6 m		Plug	2x bared ends
449 721 080 0	Sensor	8 m		Plug	2x bared ends
449 721 090 0	Sensor	9 m		Plug	2x bared ends
449 721 100 0	Sensor	10 m		Plug	2x bared ends
449 721 120 0	Sensor	12 m		Plug	2x bared ends
449 721 180 0	Sensor	18 m		Plug	2x bared ends
449 751 070 0	Sensor	0.7 m		Plug	bared ends
449 751 122 0	Sensor	1.22 m		Plug	bared ends
894 590 051 2	Sensor	1.56 m		Plug	
894 600 451 2	Solenoid Valve	0.3 m		Kostal M 27	bared ends

5.03 ABS ECU (Trailer) 400 500/ 446 108



400 500 070 0

400 500 081 0

446 108 085 0

446 303 007 0

400 500 070 0	VCS II, 2S/2M, 24 V, 2x ABS Relay Valve
400 500 081 0	VCS II, 4S/3M, 24 V, 2x ABS Relay Valve
400 500 082 0	VCS II, 4S/3M, 24 V, 2x ABS Relay Valve, painted
400 500 083 0	VCS II, 4S/3M, 12 V, 3x ABS Relay Valve
400 500 084 0	VCS II, 4S/3M, 24 V, 3x ABS Relay Valve
400 500 086 0	VCS II Basic, 2S/1M, 24 V, 1x ABS Relay Valve
400 500 102 0	VCS II, Standard, 2S/2M, 12 V, 2x ABS Relay Valve

400 500 103 0	VCS II, Premium, 4S/3M, 12 V, 3x ABS Relay Valve
446 105 926 2	Repair Kit for ABS Vario C: VCS II Compact Unit. Cable
446 105 927 2	Repair Kit for ABS Vario C: VCS II ABS ECU Trailer. Cable
446 108 085 0	VCS II, 4S/3M, 24 V
446 108 920 2	Repair Kit for VCS I: VCS II ABS ECU Trailer. Cable
446 108 921 2	Repair Kit for VCS I: VCS II Compact Unit. Cable
446 303 007 0	Infomaster. Mileage indicator

Please note that devices for replacement have to be calibrated or parameterised. Training and diagnosis are required.

5.04 Cable ABS (Trailer)

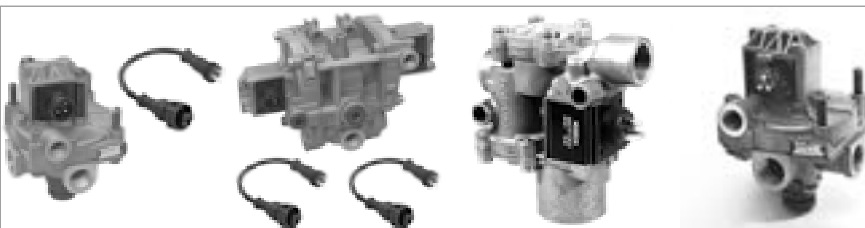


449 142 ... 0 449 233 ... 0 449 386 ... 0 449 423 ... 0 449 615 ... 0 449 712 ... 0 449 715 ... 0

Part number	Applica-tion	Length	Connection	Electrical connec-tion	Opposite	Comments
449 112 120 0	VCS I	12 m	Power Semi trailer	24 V, 5-pin		ISO 7638 Connector
449 124 337 0	VCS II	12 m / 12 m	Power / 24N Semi trailer	24 V, 5-pin		ISO 7638 Connector
449 125 060 0	VCS II	6 m	Power Semi trailer	24 V, 5-pin		ISO 7638 Connector
449 125 120 0	VCS II	12 m	Power Semi trailer	24 V, 5-pin		ISO 7638 Connector
449 125 140 0	VCS II	14 m	Power Semi trailer	24 V, 5-pin		ISO 7638 Connector
449 126 120 0	VCS II	12 m	Power Semi trailer	24 V, 7-pin		ISO 7638 Connector
449 132 060 0	VCS I / II	6 m	Power Semi trailer	24 V, 5-pin	449 331; 449 374	ISO 7638 Connector
449 132 080 0	VCS I / II	8 m	Power Semi trailer	24 V, 5-pin	449 331; 449 374	ISO 7638 Connector
449 132 120 0	VCS I / II	12 m	Power Semi trailer	24 V, 5-pin	449 331; 449 374	ISO 7638 Connector
449 133 120 0	VCS II	12 m	Power Semi trailer	24 V, 7-pin	449 385 ...	ISO 7638 Connector
449 134 337 0	VCS II	12 m / 12 m	Power / 24N Semi trailer	24 V, 7-pin		ISO 7638 Connector
449 142 050 0	Vario C	5 m	Power Semi trailer	24 V, 5-pin, PG 16		ISO 7638 Connector
449 142 120 0	Vario C	12 m	Power Semi trailer	24 V, 5-pin, PG 16		ISO 7638 Connector
449 144 157 0	VCS II	12 m	Power / Diag Semi trailer	24 V, 7-pin	Diag: 446 300 329 2	ISO 7638 Connector
449 225 100 0	VCS II	10 m	Power Drawbar	24 V, 5-pin		ISO 7638 Plug
449 225 120 0	VCS II	12 m	Power Drawbar	24 V, 5-pin		ISO 7638 Plug
449 233 100 0	VCS I / II	10 m	Power Drawbar	24 V, 7-pin		
449 320 120 0	VCS II	12 m	Power	7-pin		
449 320 150 0	VCS II	15 m	Power	7-pin		
449 331 003 0	VCS I	0.3 m	Power	5-pin	449 132; 449 242 ...	
449 332 120 0	VCS I	12 m	Power	5-pin		
449 336 030 0	VCS II	3 m	T ECAS (Power+ Diag)	6-pin, Diode		
449 337 328 0	VCS II	3 m / 12 m	T ECAS (Power+ Diag) / Mod	6-pin, Diode / ISO 15170-B1-3.1-Sn/K1		
449 340 153 0	VCS II	6 m / 3 m	Diag / ELM		Diag: 446 300 329 2	
449 354 253 0	VCS I	6 m / 6 m	Diag / ELM		Diag: 446 300 329 2	
449 374 281 0	VCS II	0.25 m	Power / 24N		449 132; 449 242	
449 374 323 0	VCS II	1 m	Power / 24N		449 132; 449 242	
449 375 003 0	VCS II	0.3 m	Power	5-pin	449 132; 449 242	
449 375 030 0	VCS II	3 m	Power	5-pin	449 132; 449 242	
449 375 060 0	VCS II	6 m	Power	5-pin	449 132; 449 242	
449 386 143 0	VCS II	1 m	Power / Diag	ISO 7638, 24 V		
449 423 060 0	Vario C	6 m	Mod	ISO 15170-B1-3.1-Sn/K1		PG 11

Part number	Application	Length	Connection	Electrical connection	Opposite	Comments
449 423 120 0	Vario C	12 m	Mod	ISO 15170-B1-3.1-Sn/K1		PG 11
449 444 106 0	VCS I	2.0 m / 2.0 m	Mod	2 x ISO 15170-B1-3.1-Sn/K1		
449 534 148 0	VCS II	3 m	2x Mod	2 x ISO 15170-B1-3.1-Sn/K1		
449 534 253 0	VCS II	6 m	2x Mod	2 x ISO 15170-B1-3.1-Sn/K1		
449 544 248 0	VCS II	4 m / 4 m / 12 m	3x Mod	3 x ISO 15170-B1-3.1-Sn/K1		
449 615 030 0	VCS II	3 m	Diag			
449 615 060 0	VCS II	6 m	Diag			
449 616 148 0	VCS II	3 m / 3 m	Diag / Mod	ISO 15170-B1-3.1-Sn/K1		
449 616 153 0	VCS II	3 m / 6 m	Diag / Mod	ISO 15170-B1-3.1-Sn/K1		
449 616 156 0	VCS II	3 m / 10 m	Diag / Mod	ISO 15170-B1-3.1-Sn/K1		
449 616 235 0	VCS II	5 m / 8 m	Diag / Mod	ISO 15170-B1-3.1-Sn/K1		
449 617 253 0	VCS II	6 m	Diag / GIO			
449 620 156 0	VCS II	10 m	Diag / T ECAS			
449 712 018 0	ABS / EBS	1.8 m	Speed Sensor			Elongation
449 712 030 0	ABS / EBS	3 m	Speed Sensor			Elongation
449 712 080 0	ABS / EBS	8 m	Speed Sensor			Elongation
449 712 120 0	ABS / EBS	12 m	Speed Sensor			Elongation
449 715 030 0	VARIO C	3 m	Speed Sensor	2-pin		PG 11
449 715 050 0	VARIO C	5 m	Speed Sensor	2-pin		PG 11
449 715 065 0	VARIO C	6.5 m	Speed Sensor	2-pin		PG 11
449 715 080 0	VARIO C	8 m	Speed Sensor	2-pin		PG 11
449 715 100 0	VARIO C	10 m	Speed Sensor	2-pin		PG 11
449 715 150 0	VARIO C	15 m	Speed Sensor	2-pin		PG 11
894 601 132 2	ABS/EBS	0.15 m	Adapter	DIN 72585 B1-3.1-Sn/K1	Kostal M 24 Plug	

5.05 Solenoid Valve ABS 472 19.



400 600 464 0

400 600 465 0

472 195 0 . . 0

472 195 03 . 0

400 600 464 0 Set: ABS Relay Valve 472 195 031 0 + Adaptor Cable 894 601 132 2

400 600 465 0 Set: ABS Relay Valve 472 195 041 0 + 2x Adaptor Cable 894 601 132 2

472 195 004 0 ABS-Solenoid Modulator Valve. 11 bar. 24 V. Ports: M 22x1.5. Electrical connection: M 24x1. Replacement: 472 195 921 2

472 195 005 0 ABS-Solenoid Modulator Valve. 10 bar. 12 V. Ports: ½"-14 NPTF. Electrical connection: M 24x1

472 195 006 0 ABS-Solenoid Modulator Valve. 10 bar. 24 V. Ports: ½"-14 NPTF. Electrical connection: M 24x1

472 195 009 0 ABS-Solenoid Modulator Valve. 11 bar. 24 V. Ports: M 22x1.5. Electrical connection Bayonet (MAN)

472 195 010 0 ABS-Solenoid Modulator Valve. 11 bar. 24 V. Ports: M 22x1.5. Electrical connection: M 24x1. with fording ability

472 195 015 0 ABS-Solenoid Modulator Valve. 11 bar. 24 V. Ports: M 22x1.5 Parker. Electrical connection: M 27x1

472 195 016 0 ABS-Solenoid Modulator Valve. 13 bar. 24 V. Ports: M 22x1.5 Voss 230. Electrical connection Bayonet (DIN)

472 195 017 0	ABS-Solenoid Modulator Valve. 11 bar. 12 V. Ports: ½"-14 NPTF. Electrical connection: M 24x1. with fording ability
472 195 018 0	ABS-Solenoid Modulator Valve. 11 bar. 24 V. Ports: M 22x1.5. Electrical connection Bayonet (DIN)
472 195 031 0	ABS Relay Valve. 10 bar. 24 V. Ports: 1/2 = M 22x1.5, 4 = M 16x1.5. Electrical connection Bayonet (DIN). Exhaust: Snap-on contour
472 195 033 0	ABS Relay Valve. 10 bar. 12 V. Ports: 1 = ¾"-14 NPTF, 2/4 = 3/8"-18 NPTF. Electrical connection Bayonet (DIN)
472 195 037 0	ABS Relay Valve. 10 bar. 24 V. Ports: 1/2 = M 22x1.5, 4 = M 16x1.5. Electrical connection Bayonet (DIN)
472 195 041 0	ABS Boxer Valve. 10 bar. 24 V. Ports: M 22x1.5, 4 = M 16x1.5. Electrical connection Bayonet (DIN)
472 195 043 0	ABS Boxer Valve. 10 bar. 24 V. Ports: M 22x1.5, 4 = M 16x1.5. Electrical connection Bayonet (DIN). Black
472 195 046 0	ABS-Solenoid Modulator Valve. 11 bar. 12 V. Ports: ½"-14 NPTF. Electrical connection Bayonet (DIN). Black
472 195 052 0	ABS-Solenoid Modulator Valve. 11 bar. 12 V. Ports: ½"-14 NPTF. Electrical connection Bayonet (DIN)
472 195 055 0	ABS-Solenoid Modulator Valve. 13 bar. 24 V. Ports: M 22x1.5 Voss 230. Electrical connection Bayonet (DIN)
472 195 058 0	ABS-Solenoid Modulator Valve. 13 bar. 24 V. Ports: M 22x1.5. Electrical connection Bayonet (DIN). Black
472 195 063 0	ABS-Solenoid Modulator Valve. 11 bar. 24 V. Ports: ½"-14 NPTF. Electrical connection Bayonet (DIN)
472 195 064 0	ABS-Solenoid Modulator Valve. 11 bar. 24 V. Ports: 3/8"-18 NPTF. Electrical connection Bayonet (DIN)
472 195 066 0	ABS-Solenoid Modulator Valve. 11 bar. 12 V. Ports: M 22x1.5. Electrical connection Bayonet (DIN)
472 195 076 0	ABS-Solenoid Modulator Valve. 11 bar. 12 V. Ports: ½"-14 NPTF. Electrical connection Bayonet (DIN).
472 195 077 0	ABS-Solenoid Modulator Valve. Like 472 195 076 0. Deviation: Port positions
472 195 078 0	ABS-Solenoid Modulator Valve. 11 bar. 12 V. + Port 2.2. Ports: ½"-14 NPTF. Electrical connection Bayonet (DIN)
472 195 079 0	ABS-Solenoid Modulator Valve. Like 472 195 078 0. Deviation: Port positions
472 195 082 0	ABS-Solenoid Modulator Valve. 11 bar. 12 V. Ports: ½"-14 NPTF. Electrical connection: M 24x1
472 195 083 0	ABS-Solenoid Modulator Valve. 11 bar. 12 V. + Port 2.2. Ports: ½"-14 NPTF. Electrical connection: M 24x1
472 195 094 0	ABS-Solenoid Modulator Valve. 11 bar. 12 V. + Port 2.2. Ports: ½"-14 NPTF. Electrical connection Bayonet (DIN)
472 195 095 0	ABS-Solenoid Modulator Valve. Like 472 195 094 0. Deviation: Port positions
472 195 096 0	ABS-Solenoid Modulator Valve. 11 bar. 24 V. Ports: ½"-14 NPTF. Electrical connection Bayonet (DIN)
472 195 097 0	ABS-Solenoid Modulator Valve. 13 bar. 24 V. Ports: M 22x1.5. Electrical connection Bayonet (DIN)
472 196 003 0	ABS Relay Valve. 10 bar. 12 V. Ports: 1 = ¾"-14 NPTF, 2/4 = 3/8"-18 NPTF. Electrical connection Bayonet (DIN)

5.06 Speed Sensor 441 03.



441 032 808 0

441 032 92 . 2

830 503 062 4

899 759 815 4

441 032 099 0	ABS-Sensor, angled. Length 2.5 m
441 032 103 0	Replacement: 441 032 976 2
441 032 108 0	ABS-Sensor, angled. Length 1.7 m. With plug
441 032 112 0	Replacement: 441 035 107 0
441 032 113 0	Replacement: 441 035 108 0
441 032 124 0	ABS-Sensor, angled. Length 2.0 m. With socket
441 032 184 0	ABS-Sensor, angled. Length 2.0 m. With socket
441 032 185 0	ABS-Sensor, angled. Length 1.7 m. With socket
441 032 283 0	Replacement: 441 032 296 0
441 032 284 0	Replacement: 441 032 297 0
441 032 296 0	ABS-Sensor, straight. Length 2.065 m. With plug
441 032 297 0	ABS-Sensor, straight. Length 2.065 m. With plug
441 032 300 0	ABS-Sensor, angled. Length 0.498 m. With socket
441 032 301 0	ABS-Sensor, angled. Length 0.944 m. With socket
441 032 330 0	ABS-Sensor, angled. Length 2.5 m. With socket. Rear axle, IVECO
441 032 334 0	ABS-Sensor, straight. Length 1.0 m. With socket
441 032 351 0	ABS-Sensor, straight. Length 2.0 m. With plug
441 032 806 0	ABS-Sensor, angled. Length 0.4 m. With socket. Replacement: 441 032 960 2
441 032 807 0	ABS-Sensor, angled. Length 0.4 m. With socket. Replacement: 441 032 960 2
441 032 808 0	ABS-Sensor, angled. Length 0.4 m. With socket

441 032 809 0	ABS-Sensor, angled. Length 1.0 m. With socket
441 032 813 0	ABS-Sensor, angled. Length 1.7 m. With socket. Replacement: 441 032 966 2
441 032 814 0	ABS-Sensor, angled. Length 2.0 m. With socket. Replacement: 441 032 967 2
441 032 852 0	Replacement: 441 032 961 2
441 032 853 0	Replacement: 441 032 962 2
441 032 862 0	ABS-Sensor, angled. Length 2.5 m. With socket. Rear axle, IVECO
441 032 863 0	ABS-Sensor, angled. Length 2.5 m. With socket. Rear axle, IVECO
441 032 878 0	ABS-Sensor, angled. Length 0.23 m. With socket
441 032 879 0	ABS-Sensor, angled. Length 1.0 m. With socket. Alternative: 441 032 997 2
441 032 900 0	ABS-Sensor, straight. Length 1.7 m. With socket. Replacement: 441 032 968 2
441 032 905 0	ABS-Sensor, straight. Length 0.294 m. With socket. Replacement: 441 032 963 2
441 032 919 0	Replacement: 441 032 968 2
441 032 921 2	ABS-Sensor, angled. Length 0.4 m. With socket, Sensor with Grease and Bush
441 032 922 2	ABS-Sensor, angled. Length 1.0 m. With socket, Sensor with Grease and Bush
441 032 971 0	ABS-Sensor, straight. Length 2.0 m. With socket
441 035 001 0	ABS-Sensor, straight. Length 0.4 m. With socket
830 503 062 4	5 g. High temperatur grease for Sensors
899 759 815 4	Clamping Bush CrNi
899 760 510 4	Clamping Bush CuBe

Always replace the clamping bush with the sensor! Use grease 830 503 062 4.

5.07 EBS Motor Vehicle 446 ...

ECU



446 130 ... 0

446 135 ... 0

446 065 ... 0

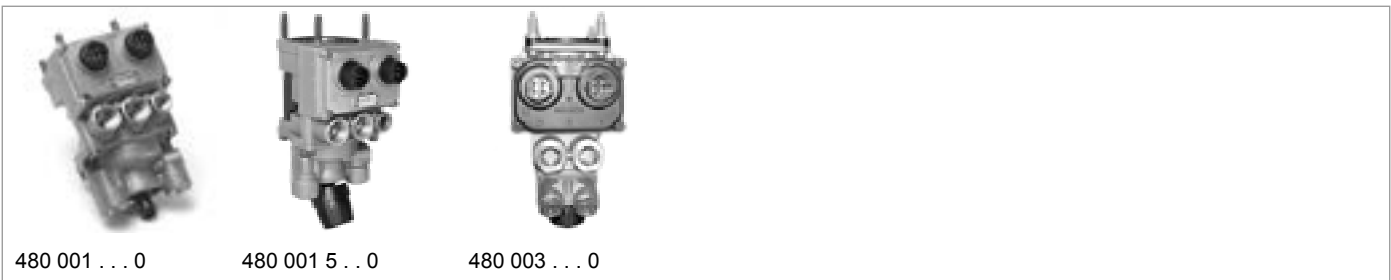
446 065 022 0	ESC ECU. 12/24 V. CAN interface. Electrical connection Bayonet (DIN)
446 065 023 0	ESC ECU. 12/24 V. CAN interface. Electrical connection Bayonet (DIN)
446 065 024 0	ESC ECU. 12/24 V. CAN interface. Electrical connection Bayonet (DIN)
446 065 030 0	ESC ECU. Replacement for: 446 065 003 0, ...006 0, ...020 0, ...026 0. Replacement: 446 065 070 0
446 130 004 0	EBS ECU 4S/4M. Replacement: 446 130 014 0
446 130 005 0	EBS ECU 4S/4M S. Replacement: 446 130 015 0
446 130 008 0	EBS ECU 4S/4M. Replacement: 446 130 014 0
446 130 009 0	EBS ECU 4S/4M S. Replacement: 446 130 015 0
446 130 010 0	EBS ECU 4S/4M. Replacement: 446 130 014 0
446 130 011 0	EBS ECU 4S/4M S. Replacement: 446 130 015 0
446 130 014 0	EBS ECU 4S/4M. Vehicle Application: Mercedes Actros, Atego, Axor
446 130 015 0	EBS ECU 4S/4M S. Vehicle Application: Mercedes Actros
446 130 020 0	EBS ECU 4S/4M. Replacement: 446 130 028 0
446 130 024 0	EBS ECU Bus, 4S/4M. Replacement: 446 130 028 0
446 130 026 0	EBS ECU Bus, 4S/4M. Replacement: 446 130 030 0
446 130 028 0	EBS ECU Bus, 4S/4M. Bus stop brake. Switch: ABS/ASR
446 130 029 0	EBS ECU Bus, 6S/6M. Bus stop brake. Switch: ABS/ASR
446 130 030 0	EBS ECU Bus, 4S/4M. Bus stop brake. ESC. Switch: ABS
446 130 031 0	EBS ECU Bus, 6S/6M. Bus stop brake. ESC. Switch: ABS
446 130 051 0	EBS ECU 4S/4M. Replacement: 446 130 053 0
446 130 053 0	EBS ECU 4S/4M. Vehicle Application: Mercedes MP II
446 130 055 0	EBS 1C ECU Bus. Replacement: 446 130 059 0
446 130 057 0	EBS ECU 4S/4M. Replacement: 446 130 060 0
446 130 059 0	EBS 1C ECU Bus. Vehicle Application: Evobus

446 135 016 0	EBS ECU 4S/4M. Vehicle Application: Iveco
446 135 017 0	EBS ECU 4S/4M. Vehicle Application: DAF
446 135 018 0	EBS ECU 4S/4M. Vehicle Application: Iveco Stralis
446 135 030 0	EBS ECU Bus, 4S/4M. Vehicle Application: Neoplan
446 135 031 0	EBS ECU Bus, 6S/6M. Vehicle Application: Neoplan
446 135 038 0	EBS ECU 4S/4M. Replacement: 446 135 039 0
446 135 039 0	EBS ECU 4S/4M. Replacement: 446 135 042 0
446 135 041 0	EBS ECU Bus, 4S/4M, 6S/6M. Vehicle Application: Buses
446 135 051 0	EBS ECU 4S/4M. Vehicle Application: Hino, Isuzu, Nissan
446 135 052 0	EBS ECU 4S/4M. Vehicle Application: Nissan

Please note that devices for replacement have to be calibrated or parameterised. Training and diagnosis are required.

5.08 EBS Motor Vehicle 480 00.

Brake Signal Transmitter

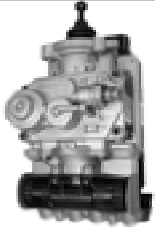


480 001 000 0	Brake Signal Transmitter. 10 bar. Ports: 1-2 = M 22x1.5, 4 = M 16x1.5. Voss 230. Bayonet (DIN). Exhaust: Hose nipple (10°). With stud M8 (4x). Vehicle Application: Mercedes
480 001 004 0	Brake Signal Transmitter. Replacement: 480 001 005 0
480 001 005 0	Brake Signal Transmitter. 10 bar. Ports: M 22x1.5, Voss 230. Bayonet (DIN). Exhaust: Hose nipple (10°). With stud M8 (4x). Vehicle Application: EvoBus
480 001 010 0	Brake Signal Transmitter. 10 bar. Ports Voss 232: 1-2 = NG 12, 4 = NG 8. Bayonet (DIN). Exhaust with silencer (32°). With stud M8 (4x). Vehicle Application: Mercedes
480 001 011 0	Brake Signal Transmitter. 10 bar. Ports: Voss 232 NG 12. Bayonet (DIN). Exhaust with silencer (32°). With stud M8 (4x). Vehicle Application: Mercedes
480 001 300 0	Brake Signal Transmitter. 10 bar. Ports: M 16x1.5. Bayonet (DIN). Silencer integrated. 3-hole flange. Vehicle Application: Iveco
480 001 400 0	Brake Signal Transmitter. 8 bar. Ports: M 16x1.5. Bayonet (DIN). Exhaust: Hose nipple (10°)
480 001 401 0	Brake Signal Transmitter. 8 bar. Ports: M 16x1.5. Bayonet (DIN). Exhaust: Hose nipple (10°)
480 001 500 0	Brake Signal Transmitter. 10 bar. Ports: M 22x1.5, Voss 230. Bayonet (DIN). Exhaust with silencer (32°). With stud M8 (3x). Vehicle Application: DAF
480 002 000 0	Brake Signal Transmitter. 10 bar. Ports: M 22x1.5, Voss 230. Bayonet (DIN). Exhaust: Hose nipple (10°). Treadle 46°. Vehicle Application: EvoBus
480 002 002 0	Brake Signal Transmitter. Replacement: 480 002 004 0
480 002 004 0	Brake Signal Transmitter. 10 bar. Ports: M 22x1.5, Voss 230. Bayonet (DIN). Exhaust: Hose nipple (10°). Treadle 25°
480 002 021 0	Brake Signal Transmitter. 10 bar. Ports: 11, 21 = M 22x1.5, 12, 22 = M 16x1.5. Voss 232. Bayonet (DIN). Exhaust with silencer. Treadle 25°
480 002 022 0	Brake Signal Transmitter. 10 bar. Ports: 11, 21 = M 22x1.5, 12, 22 = M 16x1.5. Voss 232. Bayonet (DIN). Exhaust with silencer. Treadle 46°
480 003 000 0	Brake Signal Transmitter. 13 bar. Ports: 11, 21 = M 22x1.5, 12, 22 = M 16x1.5. Voss 232. Bayonet (DIN). Exhaust with silencer. With stud M8 (4x)
480 003 003 0	Brake Signal Transmitter. 13 bar. Ports: 11, 21 = M 22x1.5, 12, 22 = M 16x1.5. Voss 232. Bayonet (DIN). Exhaust with silencer. With stud M6 (4x)
480 003 004 0	Brake Signal Transmitter. 13 bar. Ports Voss 232: 11, 21 = NG 12, 12, 22 = NG 8. Bayonet (DIN). Exhaust with silencer. With stud M8 (3x)
965 001 911 2	Central Brake Unit. For Pedal box 965 001 906/ 907/ 908/ 909/ 910/ 911/ 912/ 913 0

Please note that devices for replacement have to be calibrated or parameterised. Training and diagnosis are required.

5.09 EBS Motor Vehicle 480 020

CBU



480 020 ...

480 020 005 0	Central Brake Unit. Replacement: 480 020 021 0
480 020 006 0	Central Brake Unit. Replacement: 480 020 020 0
480 020 007 0	Central Brake Unit. Replacement: 480 020 021 0
480 020 020 0	Central Brake Unit C4. 12.7 bar. Ports Voss 232: M 22x1.5 (4x), 23 = M 16x1.5. Connector MAN. Exhaust with silencer
480 020 021 0	Central Brake Unit C4. 12.7 bar. Ports Voss 232: M 22x1.5 (4x), 23 = M 16x1.5. Connector MAN. Exhaust with silencer
480 020 100 0	Central Brake Unit. Replacement: 480 020 102 0
480 020 101 0	Central Brake Unit. Replacement: 480 020 102 0
480 020 102 0	Central Brake Unit. Replacement: 480 020 104 0

Please note that devices for replacement have to be calibrated or parameterised. Training and diagnosis are required.

5.10 EBS Motor Vehicle 480 10.

EBS Axle modulator



480 103 ... 0

480 104 ... 0

480 105 ... 0

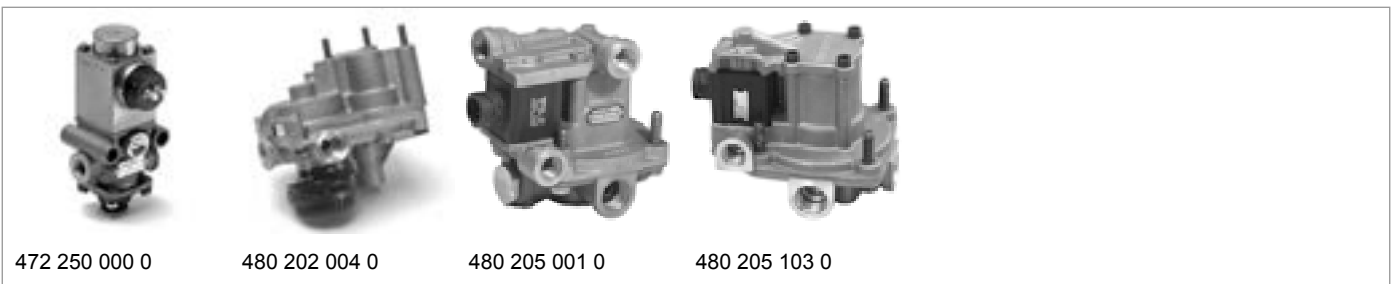
480 103 004 0	Replacement: 480 103 011 0
480 103 005 0	Replacement: 480 103 012 0
480 103 006 0	Replacement: 480 103 011 0
480 103 007 0	Replacement: 480 103 012 0
480 103 008 0	EBS Axle modulator, Bus. Vehicle Application: EvoBus
480 103 011 0	EBS Axle modulator, 4x2. Vehicle Application: Mercedes Axor, Atego/S
480 103 012 0	EBS Axle modulator, 6x2, 6x2/4, 6x4, 8x4. Vehicle Application: Mercedes Axor, Atego/S
480 103 013 0	EBS Axle modulator, 4x2 with ESC. Vehicle Application: Mercedes Axor
480 103 015 0	EBS Axle modulator, 4x2. Connection wear sensor: -. Vehicle Application: Mercedes Actros MP2
480 103 016 0	EBS Axle modulator, 6x2, 6x2/4, 6x4, 8x4. Connection wear sensor: -. Vehicle Application: Mercedes Actros MP2
480 103 022 0	EBS Axle modulator, 4x2, 6x2, 6x4. Without port for redundancy. Vehicle Application: Iveco
480 103 024 0	EBS Axle modulator. Truck. Without port for redundancy. Vehicle Application: Iveco
480 103 025 0	EBS Axle modulator. Truck. Vehicle Application: Iveco
480 103 033 0	EBS Axle modulator, 4x2, 6x4. Connection wear sensor: -.
480 103 041 0	EBS Axle modulator, 4x2. Vehicle Application: DAF FA
480 103 042 0	EBS Axle modulator, 6x2, 6x2/4. Vehicle Application: DAF FAG, FTG
480 103 043 0	EBS Axle modulator, 4x2. Without port for redundancy. Vehicle Application: DAF FT
480 103 061 0	EBS Axle modulator, Bus. Vehicle Application: Mercedes, Neoman, Neoplan, Solaris
480 103 063 0	EBS Axle modulator, 4x2 Bus. Vehicle Application: Mercedes, Neoman, Neoplan, Solaris, Buses
480 103 066 0	EBS Axle modulator, 4x2 Bus. Vehicle Application: Mercedes, EvoBus

480 104 001 0	EBS Axle modulator, 4x2. Connection wear sensor: -. Vehicle Application: DAF Truck
480 104 002 0	EBS Axle modulator, 6x2. Connection wear sensor: -. Vehicle Application: DAF Tractor
480 104 003 0	EBS Axle modulator, 4x2. Connection wear sensor: -. Without port for redundancy. Vehicle Application: DAF Tractor
480 104 005 0	EBS Axle modulator, 4x2. Without port for redundancy. Vehicle Application: Iveco Tractor
480 104 006 0	EBS Axle modulator, 6x2. Vehicle Application: Iveco Truck
480 104 007 0	EBS Axle modulator, 4x2. Vehicle Application: VDL Bus
480 104 009 0	EBS Axle modulator, 6x2. Vehicle Application: VDL Bus
480 104 101 0	Replacement: 480 104 106 0
480 104 103 0	Replacement: 480 104 107 0
480 104 104 0	Replacement: 480 104 106 0
480 104 106 0	EBS Axle modulator, 2S / 2M. Connection wear sensor: 4x. Vehicle Application: MAN
480 104 107 0	EBS Axle modulator, 2S / 2M. Replacement for 480 104 105 0. Vehicle Application: MAN
480 105 001 0	Replacement: 480 105 006 0
480 105 003 0	Replacement: 480 105 006 0
480 105 004 0	Replacement: 480 105 007 0
480 105 006 0	EBS Axle modulator, 4x2. 3/2 Relay Valve. Vehicle Application: Mercedes, EvoBus
480 105 007 0	EBS Axle modulator, 6x2, 6x2/4, 6x4, 8x4. 3/2 Relay Valve. Vehicle Application: Mercedes, EvoBus

Please note that devices for replacement have to be calibrated or parameterised. Training and diagnosis are required.

5.11 EBS Motor Vehicle 472 /480 2..

Proportional Relay Valve



472 250 000 0	Proportional valve. Operating pressure: 5...8 bar. Ports: 1, 2 = M 12x1.5. 24 V. Electrical connection: M 27x1
472 250 003 0	Proportional valve. Operating pressure: 5...11 bar. Ports: 1, 2 = M 12x1.5. 24 V. Electrical connection Bayonet
472 250 007 0	Proportional valve. Operating pressure: 5...11 bar. Ports: 1, 2 = M 12x1.5. 24 V. Electrical connection Bayonet (DIN 72585)
480 202 004 0	Proportional Relay Valve. Operating pressure: 10 bar. Ports: 2x 1 = M 22x1.5, 2x 2 = M 22x1.5, 4 = M 16x1.5. Voss 232. Bayonet (DIN 72585). Exhaust with silencer . Vehicle Application: Mercedes, EvoBus
480 202 005 0	Proportional Relay Valve, 8x4. Operating pressure: 10 bar. Ports: 2x 1 = M 22x1.5, 2x 2 = M 22x1.5, 4 = M 16x1.5. Voss 232. Bayonet (DIN 72585). Exhaust with silencer . Vehicle Application: DAF
480 202 007 0	Proportional Relay Valve. Operating pressure: 10 bar. Ports: 2x 1 = M 22x1.5, 2x 2 = M 22x1.5, 4 = M 16x1.5. Voss 232. Bayonet (DIN 72585). Exhaust with fording ability
480 202 009 0	Proportional Relay Valve. Operating pressure: 12.5 bar. Ports: 2x 1 = M 22x1.5, 2x 2 = M 22x1.5, 4 = M 16x1.5. Voss 232. Bayonet (DIN 72585). Exhaust with silencer . Application: MBT
480 205 001 0	3/2 Relay Valve. p2:p42 = 1:2. Ports: 1, 2 = M 22x1.5; 41, 42, 43 = M 16x1.5. Voss 230. Bayonet (DIN 72585). Vehicle Application: Mercedes
480 205 010 0	3/2 Relay Valve. p2:p42 = 1:1. Ports: 1, 2 = M 22x1.5; 41, 42, 43 = M 16x1.5. Voss 230. Bayonet (DIN 72585). Vehicle Application: EvoBus 4x2, 6x2
480 205 101 0	3/2 Relay Valve. p2:p42 = 1:1. Ports: 1, 2 = M 22x1.5; 42 = M 16x1.5. Bayonet (DIN 72585). Vehicle Application: Buses
480 205 103 0	3/2 Relay Valve. p2:p42 = 1:2. Ports: 1, 2 = M 22x1.5; 42 = M 16x1.5. Voss 230. Bayonet (DIN 72585). Vehicle Application: DAF
480 205 104 0	3/2 Relay Valve. p2:p42 = 1:2. Ports: 1, 2 = M 22x1.5; 42 = M 16x1.5. Voss 230. Bayonet (DIN 72585). Vehicle Application: MAN TGL, TGM
480 205 106 0	3/2 Relay Valve. p2:p42 = 1:2. Ports: 1, 2 = M 22x1.5; 42 = M 16x1.5. Voss 230. Bayonet (DIN 72585). Exhaust with snap-on contour

Please note that devices for replacement have to be calibrated or parameterised. Training and diagnosis are required.

5.12 EBS Motor Vehicle 480 204

EBS Trailer Control Valve



480 204 002 0

480 204 002 0 Trailer Control Valve, 4x2, 6x2/4. 8.5 bar. Ports: 11, 21, 22 = M 22x1.5; 42, 43 = M 16x1.5. Voss 230. Bayonet (DIN). Exhaust with silencer

Please note that devices for replacement have to be calibrated or parameterised. Training and diagnosis are required.

5.13 Cable EBS Motor Vehicle



449 753 100 0

Part number	Type	Length	Connection	Electrical connection	Comments
449 413 080 0	Bayonet	8 m	ISO 15170-B1-3.1-SN/K1	3x bared ends	
449 413 100 0	Bayonet	10 m	ISO 15170-B1-3.1-SN/K1	3x bared ends	
449 515 150 0	Bayonet	15 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	90° Plug
449 716 008 0	Sensor	0.8 m	Plug	3-pin, 3x bared ends	
449 722 100 0	Solenoid	10 m	ISO 15170-B1-4.1-Sn/K1	4x bared ends	90° Plug
449 725 015 0	Wear Indicator	1.5 m	Plug	Plug	
449 725 022 0	Wear Indicator	2.2 m	Plug	Plug	
449 726 015 0	Wear Indicator	1.5 m	Plug	Socket	
449 726 023 0	Wear Indicator	2.3 m	Plug	Socket	
449 727 012 0	Wear Indicator	1.2 m		3-pin, 2x bared ends	
449 728 040 0	Wear Indicator	4 m	Plug	2x bared ends	
449 729 040 0	Wear Indicator	4 m	Socket	2x bared ends	
449 753 100 0	Wear sensor	10 m		3x bared ends	
449 754 035 0	Wear sensor	3.5 m		3-pin	
449 755 019 0	Speed Sensor	0.19 m		2-pin	Elongation
449 755 025 0	Speed Sensor	0.25 m		2-pin	Elongation
449 756 013 0	Wear sensor	1.3 m	Socket	3-pin	
449 756 015 0	Wear sensor	1.5 m	Socket	3-pin	
449 756 017 0	Wear sensor	1.7 m	Socket	3-pin	
449 756 035 0	Wear sensor	3.5 m	Socket	3-pin	
449 757 027 0	Wear Indicator	2.7 m			Elongation

5.14 EBS Trailer

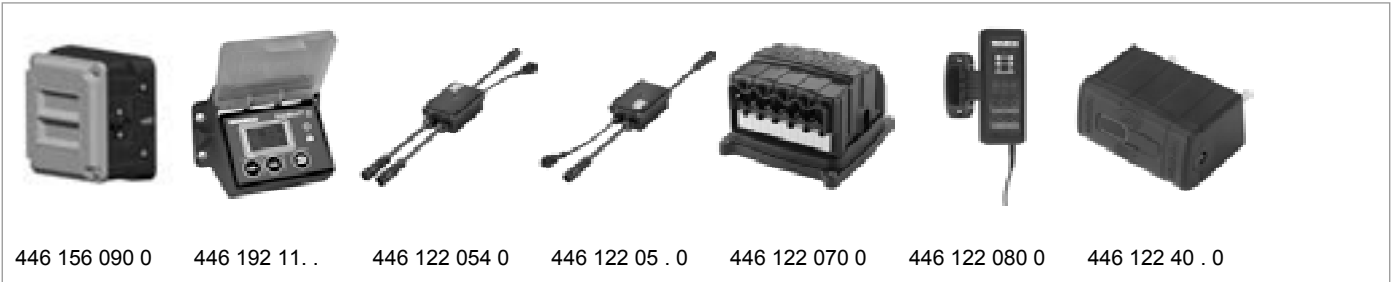


461 513 0..0 480 102 01. . 480 102 03. / 06. 480 207 001 0 971 002 805 0 971 002 900 0 480 102 03. / 06. PEM

461 513 000 0	PEM (Pneumatic Extension Module). Aluminium. With fittings. For 480 102 033 0 / ...063 0
461 513 002 0	PEM (Pneumatic Extension Module). Aluminium. without Fittings. For 480 102 034 0 / ...064 0
461 513 003 0	PEM (Pneumatic Extension Module). Aluminium. With fittings. For 480 102 035 0 / ...065 0
461 513 020 0	PEM (Pneumatic Extension Module). Plastic. With fittings. For 480 102 036 0 / ...066 0
461 513 021 0	PEM (Pneumatic Extension Module). Plastic. With fittings. For 480 102 031 0 / ...061 0
480 102 010 0	Trailer EBS D Standard. 4S/2M
480 102 014 0	Trailer EBS D Premium. 4S/3M. With RSS. With loading of the battery. With Telematic
480 102 015 0	Trailer EBS D TCE. 4S/3M. CAN interface 5 V. With RSS
480 102 020 0	Trailer EBS D. 2S/2M, 12 V
480 102 030 0	Trailer EBS E, Standard. 2S/2M. number of GIO: 4
480 102 030 7	Trailer EBS E, Standard. 2S/2M. number of GIO: 4. Exchange Unit for: 480 102 030 0
480 102 031 0	Trailer EBS E, Standard. 2S/2M. number of GIO: 4. PEM (Plastic). With fittings
480 102 032 0	Trailer EBS E, Standard. 2S/2M. number of GIO: 4. With fittings
480 102 033 0	Trailer EBS E, Standard. 2S/2M. number of GIO: 4. PEM (Aluminium). With fittings
480 102 034 0	Trailer EBS E, Standard. 2S/2M. number of GIO: 4. PEM (Aluminium)
480 102 035 0	Trailer EBS E, Standard. 2S/2M. number of GIO: 4. PEM (Aluminium). With fittings
480 102 036 0	Trailer EBS E, Standard. 2S/2M. number of GIO: 4. PEM (Plastic). With fittings
480 102 060 0	Trailer EBS E, Premium. 4S/3M. number of GIO: 7
480 102 060 7	Trailer EBS E, Premium. 4S/3M. number of GIO: 7. Exchange Unit for: 480 102 060 0
480 102 061 0	Trailer EBS E, Premium. 4S/3M. number of GIO: 7. PEM (Plastic). With fittings
480 102 062 0	Trailer EBS E, Premium. 4S/3M. number of GIO: 7. With fittings
480 102 063 0	Trailer EBS E, Premium. 4S/3M. number of GIO: 7. PEM (Aluminium). With fittings
480 102 064 0	Trailer EBS E, Premium. 4S/3M. number of GIO: 7. PEM (Aluminium).
480 102 065 0	Trailer EBS E, Premium. 4S/3M. number of GIO: 7. PEM (Aluminium). With fittings
480 102 066 0	Trailer EBS E, Premium. 4S/3M. number of GIO: 7. PEM (Plastic). With fittings
480 102 080 0	Trailer EBS E, Multi-Voltage. 4S/3M. number of GIO: 7
480 207 001 0	EBS Relay Valve. Max. operating pressure: 10 bar. Ports: 1, 2 = M 22x1.5; 4 = M 12x1.5 Parker. Bayonet (DIN). Silencer integrated. Drawbar
971 002 103 4	Dataplate PREV. Operation instruction
971 002 805 0	EBS Emergency Valve. Port for Sensors M 16x1.5
971 002 900 0	Park Release Emergency Valve (PREV). Port threads M 16x1.5. With dataplate 971 002 103 4
971 002 902 0	Park Release Emergency Valve (PREV). Port threads M 16x1.5
971 002 910 0	Park Release Emergency Valve (PREV). Ports ø 8x1
971 002 911 0	Park Release Emergency Valve (PREV). Ports 3x ø8x1, 2x ø 10x1
971 002 912 0	Park Release Emergency Valve (PREV). Ports ø 8x1. With dataplate 971 002 103 4. with test connection

Please note that devices for replacement have to be calibrated or parameterised. Training and diagnosis are required.

5.15 Trailer EBS System Add-on



446 156 090 0 446 192 11. . 446 122 054 0 446 122 05 . 0 446 122 070 0 446 122 080 0 446 122 40 . 0

446 122 050 0	Trailer CAN Router. Socket Bayonet (DIN) Power IN.
446 122 051 0	Trailer CAN Repeater. Socket Bayonet (DIN) Power IN. Socket for Pressure Sensor
446 122 052 0	Trailer CAN Router. Plug Bayonet (DIN) Power IN.
446 122 053 0	Trailer CAN Repeater. Plug Bayonet (DIN) Power IN. Socket for Pressure Sensor
446 122 054 0	Trailer CAN Router. Plug Bayonet (DIN) Power IN. Socket for Pressure Sensor
446 122 070 0	ELEX (Electronic Extension Module). Application: ECAS Drawbar (with TEBS E2)
446 122 080 0	TRC (Trailer Remote Control). Application: Motor Vehicle (with ELEX and TEBS E2)
446 122 401 0	Ultrasonic Sensor. 0°. Application: TailGUARD (with ELEX and TEBS E2)
446 122 402 0	Ultrasonic Sensor. 15°. Application: TailGUARD (with ELEX and TEBS E2)
446 156 090 0	Battery box ECAS, without Battery. Application: ECAS Trailer (with ELEX and TEBS E2)
446 192 110 0	SmartBoard
813 000 049 3	Trailer Immobilizer PUK

Please note that devices for replacement have to be calibrated or parameterised. Training and diagnosis are required.

5.16 Cable EBS (Trailer)



449 172 120 0 449 233 ... 0 449 614 253 0 449 672 060 0 449 752 030 0

Part number	Application	Length	Connection	Electrical connection	Opposite	Comments
449 133 030 0	T EBS D/ E	3 m	Power Semi trailer	24 V, 7-pin	449 333	ISO 7638 Connector
449 133 120 0	T EBS D/ E	12 m	Power Semi trailer	24 V, 7-pin	449 333	ISO 7638 Connector
449 133 150 0	T EBS D/ E	15 m	Power Semi trailer	24 V, 7-pin	449 333	ISO 7638 Connector
449 135 005 0	T EBS D/ E	0.5 m	Power Semi trailer	24 V, 7-pin	449 335	ISO 7638 Connector
449 135 025 0	T EBS D/ E	2.5 m	Power Semi trailer	24 V, 7-pin	449 335	ISO 7638 Connector
449 135 060 0	T EBS D/ E	6 m	Power Semi trailer	24 V, 7-pin	449 335	ISO 7638 Connector
449 135 140 0	T EBS D/ E	14 m	Power Semi trailer	24 V, 7-pin	449 335	ISO 7638 Connector
449 172 090 0	T EBS D	9 m	Power Semi trailer	24 V, 7-pin		ISO 7638 Connector
449 172 120 0	T EBS D	12 m	Power Semi trailer	24 V, 7-pin		ISO 7638 Connector
449 172 130 0	T EBS D	13 m	Power Semi trailer	24 V, 7-pin		ISO 7638 Connector
449 172 150 0	T EBS D	15 m	Power Semi trailer	24 V, 7-pin		ISO 7638 Connector
449 173 090 0	T EBS E	9 m	Power Semi trailer	24 V, 7-pin		ISO 7638 Connector
449 173 120 0	T EBS E	12 m	Power Semi trailer	24 V, 7-pin		ISO 7638 Connector
449 173 130 0	T EBS E	13 m	Power Semi trailer	24 V, 7-pin		ISO 7638 Connector
449 173 150 0	T EBS E	15 m	Power Semi trailer	24 V, 7-pin		ISO 7638 Connector
449 231 060 0	T EBS E	6 m	Power Drawbar	24 V, 7-pin		ISO 7638 Connector
449 231 120 0	T EBS E	12 m	Power Drawbar	24 V, 7-pin		ISO 7638 Connector

Part number	Application	Length	Connection	Electrical connection	Opposite	Comments
449 233 030 0	T EBS D/ E	3 m	Power Drawbar	24 V, 7-pin	449 333 ... / 449 347 ... 0	
449 233 100 0	T EBS D/ E	10 m	Power Drawbar	24 V, 7-pin	449 333 ... / 449 347 ... 0	
449 233 140 0	T EBS D/ E	14 m	Power Drawbar	24 V, 7-pin	449 333 ... / 449 347 ... 0	
449 233 180 0	T EBS D/ E	18 m	Power Drawbar	24 V, 7-pin	449 333 ... / 449 347 ... 0	
449 272 060 0	T EBS D	6 m	Power Drawbar	24 V, 7-pin		ISO 7638
449 272 090 0	T EBS D	9 m	Power Drawbar	24 V, 7-pin		ISO 7638
449 272 100 0	T EBS D	10 m	Power Drawbar	24 V, 7-pin		ISO 7638
449 272 120 0	T EBS D	12 m	Power Drawbar	24 V, 7-pin		ISO 7638
449 273 060 0	T EBS E	6 m	Power Drawbar	24 V, 7-pin		ISO 7638
449 273 100 0	T EBS E	10 m	Power Drawbar	24 V, 7-pin		ISO 7638
449 273 120 0	T EBS E	12 m	Power Drawbar	24 V, 7-pin		ISO 7638
449 273 150 0	T EBS E	15 m	Power Drawbar	24 V, 7-pin		ISO 7638
449 303 020 0	T EBS E	2 m	ELEX	8-pin		
449 333 003 0	T EBS D	0.3 m	Power	7-pin	449 133; 449 233 ...	
449 333 025 0	T EBS D	2.5 m	Power	7-pin	449 133; 449 233 ...	
449 335 140 0	T EBS D	14 m	Power	7-pin	449 135 ...	
449 341 183 0	T EBS D	1 m / 4 m	Power 24 N / Reset	ISO 15170-B1-3.1-Sn/K1 / ISO 15170-A1-3.1-Sn/K1		
449 347 003 0	T EBS E	0.3 m	Power	8-pin	449 133 /449 233..	
449 347 025 0	T EBS E	2.5 m	Power	8-pin	449 133 /449 233..	
449 347 080 0	T EBS E	8 m	Power	8-pin	449 133 /449 233..	
449 347 180 0	T EBS E	18 m	Power	8-pin	449 133 /449 233..	
449 348 020 0	T EBS E	2 m	TCE	4-pin	TCE X22	
449 349 040 0	T EBS E	4 m	Power 24 N mixed supply	4-pin		
449 349 060 0	T EBS E	6 m	Power 24 N mixed supply	4-pin		
449 349 100 0	T EBS E	10 m	Power 24 N mixed supply	4-pin		
449 349 150 0	T EBS E	15 m	Power 24 N mixed supply	4-pin		
449 350 010 0	T EBS E	1 m	Power 24 N	ISO 15170 -B1-2.1-Sn/K1		
449 353 110 0	T EBS E	11 m	Power	24 V, 7-pin	449 135	
449 353 140 0	T EBS E	14 m	Power	24 V, 7-pin	449 135	
449 356 023 0	T EBS E	1 m / 0.4 m	GIO; IN/OUT traction help	24 N		
449 357 253 0	T EBS E	2x 6 m	GIO; IN/OUT traction help	24 N		
449 371 120 0	T EBS E	12 m	Power	7-pin bared ends		
449 371 180 0	T EBS E	18 m	Power	7-pin bared ends		
449 372 030 0	T EBS D	3 m	EBS relay valve			
449 372 080 0	T EBS D	8 m	EBS relay valve			
449 372 120 0	T EBS D	12 m	EBS relay valve			
449 377 080 0	T EBS D	8 m	IVTM			
449 429 010 0	T EBS E	10 m	EBS relay valve	1x ISO 15170-B1-2.1- Sn/K1, 2 x B1-3.1-Sn/K1		
449 429 030 0	T EBS E	3 m	EBS relay valve	1x ISO 15170-B1-2.1- Sn/K1, 2 x B1-3.1-Sn/K1		
449 429 080 0	T EBS E	8 m	EBS relay valve	1x ISO 15170-B1-2.1- Sn/K1, 2 x B1-3.1-Sn/K1		
449 429 130 0	T EBS E	13 m	EBS relay valve	1x ISO 15170-B1-2.1- Sn/K1, 2 x B1-3.1-Sn/K1		
449 436 030 0	T EBS E	3 m	ABS Relay Valve	8-pin		
449 436 080 0	T EBS E	8 m	ABS Relay Valve	8-pin		
449 437 020 0	T EBS E	2 m	Universal type	8-pin bared ends		
449 437 060 0	T EBS E	6 m	Universal type	8-pin bared ends		

Part number	Application	Length	Connection	Electrical connection	Opposite	Comments
449 438 050 0	T EBS E	5 m	ECAS ECU	4-pin		
449 438 080 0	T EBS E	8 m	ECAS ECU	4-pin		
449 439 030 0	T EBS E	3 m	GIO	4-pin		
449 443 008 0	T EBS E	0.8 m	RTR, Lift Axle Control Valve	ISO 15170-B1-2.1-Sn/K1		
449 443 010 0	T EBS E	1 m	RTR, Lift Axle Control Valve	ISO 15170-B1-2.1-Sn/K1		
449 443 020 0	T EBS E	2 m	RTR, Lift Axle Control Valve	ISO 15170-B1-2.1-Sn/K1		
449 443 040 0	T EBS E	4 m	RTR, Lift Axle Control Valve	ISO 15170-B1-2.1-Sn/K1		
449 443 060 0	T EBS E	6 m	RTR, Lift Axle Control Valve	ISO 15170-B1-2.1-Sn/K1		
449 443 100 0	T EBS E	10 m	RTR, Lift Axle Control Valve	ISO 15170-B1-2.1-Sn/K1		
449 445 010 0	T EBS E	1 m	ECAS Solenoid Valve	ISO 15170-B1-3.1-Sn/K1		
449 445 030 0	T EBS E	3 m	ECAS Solenoid Valve	ISO 15170-B1-3.1-Sn/K1		
449 445 050 0	T EBS E	5 m	ECAS Solenoid Valve	ISO 15170-B1-3.1-Sn/K1		
449 472 030 0	T EBS D	3 m	EBS Emergency Valve			
449 535 010 0	T EBS E	1 m	GIO	4-pin bared ends		
449 535 060 0	T EBS E	6 m	GIO	4-pin bared ends		
449 535 100 0	T EBS E	10 m	GIO	4-pin bared ends		
449 602 060 0	T EBS E	6 m	ELEX	8-pin		
449 603 060 0	T EBS E	6 m	ELEX	8-pin		
449 610 060 0	T EBS E	6 m	GIO Telematic	4-pin bared ends		
449 611 030 0	T EBS E	3 m	GIO Diagnostic connection	4-pin		Premium
449 611 040 0	T EBS E	4 m	GIO Diagnostic connection	4-pin		Premium
449 611 060 0	T EBS E	6 m	GIO Diagnostic connection	4-pin		Premium
449 611 080 0	T EBS E	8 m	GIO Diagnostic connection	4-pin		Premium
449 626 188 0	T EBS E	3 m / 4 m	GIO traction help	4-pin		
449 627 060 0	T EBS E	6 m	ECAS control box	8-pin		
449 628 050 0	T EBS E	5 m	ECAS Remote Control Unit	8-pin		
449 629 022 0	T EBS E	2x 0.4 m	2x GIO	4-pin	449 752/ 449 762 ...	
449 672 060 0	T EBS D	6 m	Diagnostic Connection			
449 712 018 0	ABS /EBS	1.8 m	Speed Sensor			Elongation
449 712 030 0	ABS /EBS	3 m	Speed Sensor			Elongation
449 712 080 0	ABS /EBS	8 m	Speed Sensor			Elongation
449 712 120 0	ABS /EBS	12 m	Speed Sensor			Elongation
449 720 010 0	T EBS D	1 m	Wear Indicator			Elongation
449 720 050 0	T EBS D	5 m	Wear Indicator			Elongation
449 723 003 0	T EBS E	0.3 m	Speed Sensor	4-pin		
449 723 018 0	T EBS E	1.8 m	Speed Sensor	4-pin		
449 723 023 0	T EBS E	2.3 m	Speed Sensor	4-pin		
449 723 030 0	T EBS E	3 m	Speed Sensor	4-pin		
449 723 040 0	T EBS E	4 m	Speed Sensor	4-pin		
449 723 050 0	T EBS E	5 m	Speed Sensor	4-pin		
449 723 080 0	T EBS E	8 m	Speed Sensor	4-pin		
449 723 100 0	T EBS E	10 m	Speed Sensor	4-pin		
449 723 150 0	T EBS E	15 m	Speed Sensor	4-pin		
449 752 030 0	T EBS D	3 m	Pressure Sensor	ISO 15179-B1-3.1-Sn/K1		
449 752 080 0	T EBS D	8 m	Pressure Sensor	ISO 15179-B1-3.1-Sn/K1		
449 752 100 0	T EBS D	10 m	Pressure Sensor	ISO 15179-B1-3.1-Sn/K1		
449 761 030 0	T EBS E	3 m	GIO	3-pin		
449 762 020 0	T EBS E	2 m	GIO traction help	3-pin bared ends		
449 762 080 0	T EBS E	8 m	GIO traction help	3-pin bared ends		
449 762 150 0	T EBS D	15 m	GIO traction help	3-pin bared ends		
449 763 100 0	T EBS E	10 m	GIO	2-pin		
449 801 060 0	T EBS E	6 m	ELEX; GIO	4-pin		
449 803 004 0	T EBS E	1.35 m / 0.25 m	GIO	8-pin		

Part number	Application	Length	Connection	Electrical connection	Opposite	Comments
449 806 060 0	T EBS E	6 m	ELEX; GIO	4-pin		
449 807 050 0	T EBS E	5 m	GIO	4-pin		
449 808 020 0	T EBS E	2 m	ELEX	4-pin		
449 811 010 0	T EBS E	1 m	ECAS Height Sensor	4-pin		
449 811 030 0	T EBS E	3 m	ECAS Height Sensor	4-pin		
449 811 050 0	T EBS E	5 m	ECAS Height Sensor	4-pin		
449 811 080 0	T EBS E	8 m	ECAS Height Sensor	4-pin		
449 812 004 0	T EBS E	0.4 m	Pressure Sensor	ISO 15170-B1-3.1-Sn/K1		
449 812 030 0	T EBS E	3 m	Pressure Sensor	ISO 15170-B1-3.1-Sn/K1		
449 812 100 0	T EBS E	10 m	Pressure Sensor	ISO 15170-B1-3.1-Sn/K1		
449 813 050 0	T EBS E	5 m	GIO traction help	2-pin bared ends		
449 813 080 0	T EBS E	8 m	GIO traction help	2-pin bared ends		
449 815 253 0	T EBS E	2x 6 m	GIO traction help	4-pin bared ends		
449 815 258 0	T EBS E	15 m / 6 m	GIO traction help	4-pin bared ends		
449 816 013 0	T EBS E	1.3 m	Wear Indicator	6x Plug		
449 816 030 0	T EBS E	3 m	Wear Indicator	6x Plug		
449 818 022 0	T EBS E	2x 0.4 m	Sensor / GIO	4-pin		
449 819 010 0	T EBS E	1 m	Adapter	4-pin		
449 834 013 0	T EBS D	1.3 m	Wear Indicator	6x Plug		
449 906 060 0	T EBS E	6 m	ELEX	8-pin		
449 907 010 0	T EBS E	1 m	ELEX	8-pin		
449 907 120 0	T EBS E	12 m	ELEX	8-pin		
449 908 060 0	T EBS E	6 m	ELEX; GIO	8-pin		universal
449 911 040 0	T EBS E	4 m	IVTM / SmartBoard	8-pin		
449 911 060 0	T EBS E	6 m	IVTM / SmartBoard	8-pin		
449 911 120 0	T EBS E	12 m	IVTM / SmartBoard	8-pin		
449 912 234 0	T EBS E	7 m / 5 m	ECAS / SmartBoard	8-pin		
449 913 050 0	T EBS E	5 m	IVTM	8-pin		
449 914 010 0	T EBS E	1 m	Telematic	8-pin		
449 915 010 0	T EBS E	1 m	Telematic	4-pin		GIO 5
449 915 120 0	T EBS E	12 m	Telematic	4-pin		GIO 5
449 916 182 0	T EBS E	2x 4 m	IVTM + SmartBoard	8-pin		
449 916 253 0	T EBS E	2x 6 m	IVTM + SmartBoard	8-pin		
449 917 025 0	T EBS E	2.5 m	Telematic	8-pin		
449 918 025 0	T EBS E	2.5 m	Telematic	8-pin		
894 600 024 0	T EBS E	2x 0.5 m	GIO TailGUARD sensor			
894 600 032 0	T EBS E	40 m	Power			
894 600 033 0	T EBS E	50 m	Power			
894 600 034 0	T EBS E	60 m	Power			
894 601 132 2	T EBS D	0.15 m	GIO Adapter	DIN 72585 B1-3.1-Sn/K1	Kostal M 24 Plug	
894 601 133 2	T EBS D	0.15 m	GIO Adapter	DIN 72585 B1-3.1-Sn/K1	Kostal M 24 Connector	
894 601 134 2	T EBS D	0.15 m	GIO Adapter	DIN 72585 B1-2.1-Sn/K1	Kostal M 27 Plug	
894 601 135 2	T EBS D	0.15 m	GIO Adapter	DIN 72585 B1-2.1-Sn/K1	Kostal M 27 Connector	

5.17 Accessory



446 009 001 2 446 016 002 0 446 105 537 2 446 186 001 0 446 189 001 0 894 070 704 4 899 200 922 4 441 044 1.. .

441 044 101 0 Pressure Sensor. M 16x1.5. Bayonet DIN 72585-A1-3.1-Sn/K2, 400 mV/bar. Replacement for: 441 040 007 0, 441 040 010 0

441 044 102 0 Pressure Sensor. M 16x1.5. Bayonet DIN 72585-A1-3.1-Sn/K2, 400 mV/bar. Replacement for: 441 040 015 0; 441 044 002 0

441 044 108 0 Pressure Sensor. M 16x1.5. Bayonet DIN 72585-A1-3.1-Sn/K2, 400 mV/bar

446 009 001 2 Plug 35-pin

446 016 002 0 24 V. Info-Module

446 016 003 0 12 V. Info-Module

446 105 537 2 Lamp "Green". With connecting cable 10 m

446 186 001 0 TDM, 24 V

446 189 000 0 CAN Data Controller

446 189 001 0 CAN Bus ECU

894 055 981 4 Connector Info modul

894 070 704 4 Pin. Crimp Matrix 446 008 902 2. Positive Lock, 1.0 mm², for ABS Vario C

894 070 705 4 Pin. Crimp Matrix 446 008 902 2. Positiv Lock, 2.5 mm², for ABS Vario C

894 070 707 4 Pin. Crimp Matrix 446 008 902 2. Positiv Lock, 6.0 mm², for ABS Vario C

899 200 922 4 System label EBS /ECAS /TCE /VCS. DIN A5

Brake Actuator

6.01 Brake Chamber (Cam) 423 ...



423 003 502 0	Type 12. Con-rod length 54 mm. With gaiter. With yoke. Output force: 5200 N / 6.8 bar
423 003 508 0	Type 12. Con-rod length 185 mm. With gaiter. With yoke. Output force: 5200 N / 6.8 bar
423 007 019 0	Type 30. Special model. Con-rod length 137 mm. Disc sealing. Yoke required. Output force: 12500 N / 6 bar
423 008 917 0	Type 36. Con-rod length 227 mm. Disc sealing. With yoke. Output force: 13300 N / 6 bar
423 008 919 0	Type 36. Universal type. Con-rod length 186 mm. With gaiter. With yoke. Output force: 13300 N / 6 bar
423 020 000 0	Type 3. Con-rod length 51 mm. without Sealing. With yoke. Output force: 1100 N / 6 bar
423 020 016 0	Type 3. Con-rod length 54 mm. without Sealing. Without yoke. Output force: 550 N / 5 bar
423 020 017 0	Type 3. Con-rod length 54 mm. without Sealing. Without yoke. Output force: 600 N / 6 bar
423 102 012 0	Type 9. Con-rod length 120 mm. With gaiter. Yoke required. Output force: 3800 N / 6.8 bar
423 102 015 0	Type 9. Con-rod length 90 mm. without Sealing. Yoke required. Output force: 3800 N / 6.8 bar
423 102 900 0	Type 9. Universal type. Con-rod length 186 mm. With gaiter. Yoke required. Output force: 3800 N / 6.8 bar
423 103 100 0	Type 12. Con-rod length 37 mm. With gaiter. With yoke. Output force: 4900 N / 6.8 bar
423 103 298 0	Type 12. Con-rod length 57 mm. With gaiter. With yoke. Output force: 4900 N / 6.8 bar
423 103 900 0	Type 12. Universal type. Con-rod length 186 mm. With gaiter. Yoke required. Output force: 4900 N / 6.8 bar
423 104 010 0	Type 16. Con-rod length 82.5 mm. With gaiter. With yoke. Output force: 6900 N / 6.8 bar
423 104 050 0	Type 16. Con-rod length 38 mm. without Sealing. Yoke required. Output force: 6800 N / 6.8 bar
423 104 053 0	Type 16. Con-rod length 38 mm. without Sealing. Yoke required. Output force: 6800 N / 6.8 bar
423 104 093 0	Type 16. Con-rod length 70 mm. without Sealing. With yoke. Output force: 6500 N / 6.8 bar
423 104 298 0	Type 16. Con-rod length 227 mm. With gaiter. With yoke. Output force: 6500 N / 6.8 bar
423 104 606 0	Type 16. Con-rod length 37 mm. With gaiter. With yoke. Output force: 7000 N / 6.8 bar
423 104 608 0	Type 16. Con-rod length 57 mm. With gaiter. With yoke. Output force: 7000 N / 6.8 bar
423 104 612 0	Type 16. Con-rod length 50 mm. With gaiter. Yoke required. Output force: 7000 N / 6.8 bar
423 104 632 0	Type 16. Con-rod length 155 mm. With gaiter. With yoke. Output force: 8000 N / 8 bar
423 104 900 0	Type 16. Universal type. Con-rod length 227 mm. Disc sealing. Yoke required. Output force: 6500 N / 6.8 bar
423 105 004 0	Type 20. Con-rod length 58 mm. Disc sealing. Yoke required. Output force: 7000 N / 6 bar
423 105 021 0	Type 20. Con-rod length 37 mm. Disc sealing. With yoke. Output force: 9000 N / 8 bar
423 105 022 0	Type 20. Con-rod length 37 mm. Disc sealing. With yoke. Output force: 9000 N / 8 bar
423 105 042 0	Type 20. Con-rod length 37 mm. Disc sealing. With yoke. Output force: 9000 N / 8 bar
423 105 043 0	Type 20. Con-rod length 37 mm. Disc sealing. With yoke. Output force: 9000 N / 8 bar
423 105 072 0	Type 20. Con-rod length 215 mm. Disc sealing. With yoke. Output force: 8200 N / 6.8 bar
423 105 074 0	Type 20. Con-rod length 70 mm. Disc sealing. With yoke. Output force: 8200 N / 6.8 bar
423 105 084 0	Type 20. Con-rod length 70 mm. Disc sealing. With yoke. Output force: 8200 N / 6.8 bar
423 105 091 0	Type 20. Con-rod length 190 mm. Disc sealing. With yoke. Output force: 8200 N / 6.8 bar
423 105 103 0	Type 20. Con-rod length 96 mm. With gaiter. With yoke. Output force: 8200 N / 6.8 bar
423 105 111 0	Type 20. Con-rod length 37 mm. With gaiter. With yoke. Output force: 8200 N / 6.8 bar
423 105 125 0	Type 20. Con-rod length 37 mm. With gaiter. With yoke. Output force: 8200 N / 6.8 bar
423 105 126 0	Type 20. Con-rod length 37 mm. With gaiter. With yoke. Output force: 8200 N / 6.8 bar
423 105 130 0	Type 20. Con-rod length 230 mm. Disc sealing. With yoke. Output force: 7800 N / 6.8 bar
423 105 134 0	Type 20. Con-rod length 85 mm. Disc sealing. With yoke. Output force: 7800 N / 6.8 bar
423 105 199 0	Type 20. Con-rod length 37 mm. With gaiter. With yoke. Output force: 8200 N / 6.8 bar
423 105 298 0	Type 20. Con-rod length 227 mm. With gaiter. With yoke. Output force: 8200 N / 6.8 bar
423 105 408 0	Type 20. Con-rod length 37 mm. With gaiter. With yoke. Output force: 8200 N / 6.8 bar
423 105 409 0	Type 20. Con-rod length 37 mm. With gaiter. With yoke. Output force: 8200 N / 6.8 bar
423 105 414 0	Type 20. Con-rod length 37 mm. With gaiter. With yoke. Output force: 8200 N / 6.8 bar
423 105 416 0	Type 20. Con-rod length 96 mm. With gaiter. With yoke. Output force: 9900 N / 8.5 bar

423 105 417 0	Type 20. Con-rod length 96 mm. With gaiter. With yoke. Output force: 9900 N / 8.5 bar
423 105 450 0	Type 20. Con-rod length 70 mm. With gaiter. With yoke. Output force: 8200 N / 6.8 bar. With Anti-Vibrations Set
423 105 451 0	Type 20. Con-rod length 187 mm. With gaiter. With yoke. Output force: 8200 N / 6.8 bar. With Anti-Vibrations Set
423 105 702 0	Type 20. Con-rod length 37 mm. With gaiter. With yoke. Output force: 8200 N / 6.8 bar. With Anti-Vibrations Set
423 105 703 0	Type 20. Con-rod length 37 mm. With gaiter. With yoke. Output force: 8200 N / 6.8 bar
423 105 704 0	Type 20. Con-rod length 37 mm. With gaiter. With yoke. Output force: 8200 N / 6.8 bar
423 105 705 0	Type 20. Con-rod length 37 mm. With gaiter. With yoke. Output force: 8200 N / 6.8 bar
423 105 900 0	Type 20. Universal type. Con-rod length 186 mm. Disc sealing. Yoke required. Output force: 8200 N / 6.8 bar. Accessory
423 106 005 0	Type 24. Con-rod length 40 mm. With gaiter. With yoke. Output force: 9000 N / 6.5 bar
423 106 070 0	Type 24. Con-rod length 79 mm. With gaiter. With yoke. Output force: 9800 N / 6.8 bar
423 106 071 0	Type 24. Con-rod length 79 mm. With gaiter. With yoke. Output force: 9800 N / 6.8 bar
423 106 081 0	Type 24. Con-rod length 215 mm. Disc sealing. With yoke. Output force: 9800 N / 6.8 bar
423 106 082 0	Type 24. Con-rod length 186 mm. Disc sealing. Without yoke. Output force: 9400 N / 6.8 bar
423 106 088 0	Type 24. Con-rod length 70 mm. Disc sealing. With yoke. Output force: 9800 N / 6.8 bar
423 106 091 0	Type 24. Con-rod length 190 mm. Disc sealing. With yoke. Output force: 9800 N / 6.8 bar. Replacement: 423 106 091 0
423 106 095 0	Type 24. Con-rod length 162 mm. Disc sealing. With yoke. Output force: 9800 N / 6.8 bar
423 106 106 0	Type 24. Con-rod length 37 mm. With gaiter. With yoke. Output force: 9800 N / 6.8 bar
423 106 115 0	Type 24. Con-rod length 37 mm. With gaiter. With yoke. Output force: 9800 N / 6.8 bar
423 106 135 0	Type 24. Con-rod length 230 mm. Disc sealing. With yoke. Output force: 9800 N / 6.8 bar
423 106 144 0	Type 24. Con-rod length 85 mm. Disc sealing. With yoke. Output force: 9800 N / 6.8 bar
423 106 150 0	Type 24. Con-rod length 190 mm. Disc sealing. With yoke. Output force: 9200 N / 6.8 bar
423 106 201 0	Type 24. Con-rod length 58 mm. Disc sealing. Yoke required. Output force: 8200 N / 6 bar
423 106 202 0	Type 24. Con-rod length 102 mm. Disc sealing. Yoke required. Output force: 8200 N / 6 bar
423 106 207 0	Type 24. Con-rod length 249 mm. Disc sealing. Without yoke. Output force: 8200 N / 6 bar
423 106 208 0	Type 24. Con-rod length 58 mm. Disc sealing. Yoke required. Output force: 8200 N / 6 bar
423 106 292 0	Type 24. Con-rod length 116 mm. With gaiter. With yoke. Output force: 9800 N / 6.8 bar
423 106 297 0	Type 24. Con-rod length 220 mm. With gaiter. With yoke. Output force: 9800 N / 6.8 bar
423 106 298 0	Type 24. Con-rod length 227 mm. With gaiter. With yoke. Output force: 9800 N / 6.8 bar
423 106 409 0	Type 24. Con-rod length 54 mm. With gaiter. With yoke. Output force: 9800 N / 6.8 bar
423 106 417 0	Type 24. Con-rod length 37 mm. With gaiter. With yoke. Output force: 9500 N / 6.8 bar
423 106 421 0	Type 24. Con-rod length 96 mm. With gaiter. With yoke. Output force: 9000 N / 6.5 bar
423 106 422 0	Type 24. Con-rod length 96 mm. With gaiter. With yoke. Output force: 9000 N / 6.5 bar
423 106 423 0	Type 24. Con-rod length 37 mm. With gaiter. With yoke. Output force: 11800 N / 8.5 bar
423 106 426 0	Type 24. Con-rod length 54 mm. With gaiter. With yoke. Output force: 9000 N / 6.5 bar. With push-in connection Voss 232
423 106 450 0	Type 24. Con-rod length 70 mm. With gaiter. With yoke. Output force: 9800 N / 6.8 bar. With Anti-Vibrations Set
423 106 900 0	Type 24. Universal type. Con-rod length 186 mm. Disc sealing. Yoke required. Output force: 9800 N / 6.8 bar. Accessory
423 106 903 0	Type 24. Universal type. Con-rod length 186 mm. Disc sealing. Yoke required. Output force: 9400 N / 6.8 bar
423 106 926 0	Type 24. Con-rod length 37 mm. With gaiter. With yoke. Output force: 9000 N / 6.5 bar
423 107 008 0	Type 30. Con-rod length 38 mm. Disc sealing. Yoke required. Output force: 11000 N / 6 bar
423 107 090 0	Type 30. Con-rod length 85 mm. Disc sealing. With yoke. Output force: 13000 N / 6.8 bar
423 107 098 0	Type 30. Con-rod length 162 mm. Disc sealing. With yoke. Output force: 13000 N / 6.8 bar
423 107 298 0	Type 30. Universal type. Con-rod length 227 mm. With gaiter. With yoke. Output force: 13000 N / 6.8 bar
423 107 403 0	Type 30. Con-rod length 54 mm. With gaiter. With yoke. Output force: 12200 N / 6.5 bar
423 107 404 0	Type 30. Con-rod length 37 mm. With gaiter. With yoke. Output force: 12800 N / 6.8 bar
423 107 406 0	Type 30. Con-rod length 54 mm. With gaiter. With yoke. Output force: 11000 N / 6 bar. With push-in connection Voss 232
423 107 407 0	Type 30. Con-rod length 37 mm. With gaiter. With yoke. Output force: 15700 N / 8.5 bar
423 107 408 0	Type 30. Con-rod length 54 mm. With gaiter. With yoke. Output force: 11000 N / 6 bar. With push-in connection Voss 232
423 107 410 0	Type 30. Con-rod length 54 mm. With gaiter. With yoke. Output force: 12000 N / 6.5 bar. With push-in connection Voss 232
423 107 411 0	Type 30. Con-rod length 37 mm. With gaiter. With yoke. Output force: 12000 N / 6.5 bar. With push-in connection Voss 232
423 107 416 0	Type 30. Con-rod length 37 mm. With gaiter. With yoke. Output force: 12000 N / 6.5 bar. With push-in connection Voss 232
423 107 417 0	Type 30. Con-rod length 37 mm. With gaiter. With yoke. Output force: 12000 N / 6.5 bar. With push-in connection Voss 232
423 107 900 0	Type 30. Universal type. Con-rod length 186 mm. Disc sealing. Yoke required. Output force: 13000 N / 6.8 bar. Accessory
423 107 905 0	Type 30. Con-rod length 186 mm. Disc sealing. Without yoke. Output force: 13000 N / 6.8 bar
423 107 922 0	Type 30. Con-rod length 54 mm. With gaiter. With yoke. Output force: 13000 N / 6.8 bar
423 107 930 0	Type 30. Con-rod length 54 mm. With gaiter. With yoke. Output force: 12000 N / 6.5 bar
423 109 001 0	Type 27. Con-rod length 37 mm. With gaiter. With yoke. Output force: 10800 N / 6.5 bar
423 109 002 0	Type 27. Con-rod length 54 mm. With gaiter. With yoke. Output force: 10800 N / 6.5 bar
423 109 003 0	Type 27. Con-rod length 128 mm. Disc sealing. Yoke required. Output force: 10800 N / 6.5 bar
423 109 007 0	Type 27. Con-rod length 85 mm. Disc sealing. With yoke. Output force: 10800 N / 6.5 bar
423 109 008 0	Type 27. Con-rod length 161 mm. Disc sealing. With yoke. Output force: 10800 N / 6 bar

423 109 010 0	Type 27. Con-rod length 247 mm. Disc sealing. Yoke required. Output force: 9500 N / 6 bar
423 109 020 0	Type 27. Con-rod length 54 mm. With gaiter. With yoke. Output force: 10000 N / 6 bar. With push-in connection Voss 232
423 109 022 0	Type 27. Con-rod length 54 mm. With gaiter. With yoke. Output force: 10000 N / 6 bar. With push-in connection Voss 232
423 109 023 0	Type 27. Con-rod length 37 mm. With gaiter. With yoke. Output force: 10500 N / 6.5 bar. With push-in connection Voss 232
423 109 102 0	Type 27. Con-rod length 37 mm. With gaiter. With yoke. Output force: 11000 N / 6.8 bar
423 109 120 0	Type 27. Con-rod length 40 mm. With gaiter. With yoke. Output force: 10800 N / 6.8 bar
423 110 001 0	Type 22. Con-rod length 85 mm. Disc sealing. With yoke. Output force: 7900 N / 6 bar
423 110 711 0	Type 22. Con-rod length 15 mm. With gaiter. Without yoke. Output force: 8000 N / 6 bar
423 114 000 0	Type 14. Con-rod length 37 mm. With gaiter. With yoke. Output force: 5500 N / 6.8 bar
423 114 002 0	Type 14. Con-rod length 50 mm. With gaiter. Yoke required. Output force: 5500 N / 6.8 bar
423 114 008 0	Type 14. Con-rod length 85 mm. Disc sealing. With yoke. Output force: 5500 N / 6.8 bar
423 114 010 0	Type 14. Con-rod length 82.5 mm. With gaiter. With yoke. Output force: 5900 N / 6.8 bar
423 205 100 0	Type 20. Con-rod length 37 mm. With gaiter. With yoke. Output force: 7300 N / 6 bar
423 205 101 0	Type 20. Con-rod length 37 mm. With gaiter. With yoke. Output force: 7300 N / 6 bar
890 158 000 0	Type 3. Con-rod length 35 mm. without Sealing. Without yoke

6.02 Brake Chamber (Wedge Brakes) 423 ...



423 044 000 0	Type 18. Length till port 193.5 mm. Thread M 45×1.5. Output force: 7100 N / 6.8 bar
423 044 002 0	Type 18. Length till port 258.5 mm. Thread M 45×1.5. Output force: 7100 N / 6.8 bar
423 044 103 0	Type 18. Length till port 183.5 mm. Thread 1 3/4"-12-UNS. Output force: 7100 N / 6.8 bar
423 045 000 0	Type 20. Length till port 194 mm. Thread M 45×1.5. Output force: 8300 N / 6.8 bar
423 045 001 0	Type 20. Length till port 247 mm. Thread M 45×1.5. Output force: 8300 N / 6.8 bar
423 046 000 0	Type 24. Length till port 192.5 mm. Thread M 45×1.5. Output force: 8300 N / 6.8 bar
423 046 001 0	Type 24. Length till port 267.5 mm. Thread M 45×1.5. Output force: 10000 N / 6.8 bar
423 069 002 0	Type 9. Length till port 237 mm, 4-hole flange. Output force: 4200 N / 6.8 bar
423 069 005 0	Type 9. Length till port 172 mm, 4-hole flange. Output force: 4200 N / 6.8 bar
423 070 050 0	Type 12. Length till port 174 mm. Thread M 48×1.5. Output force: 5200 N / 6.8 bar
423 072 101 0	Type 14. Length till port 170 mm. Thread M 48×1.5. Output force: 6000 N / 6.8 bar
423 073 040 0	Type 18. Length till port 207 mm, 4-hole flange. Output force: 8500 N / 6 bar
423 073 101 0	Type 16. Length till port 170 mm. Thread M 48×1.5. Output force: 6000 N / 6.8 bar
423 074 020 0	Type 20. Length till port 207 mm, 4-hole flange. Output force: 7100 N / 6 bar
423 076 020 0	Type 24. Length till port 207 mm, 4-hole flange. Output force: 8800 N / 6 bar
423 076 040 0	Type 24. Length till port 237 mm, 4-hole flange. Output force: 8800 N / 6 bar
423 082 010 0	Type 17. Length till port 193.5 mm, 4-hole flange. Output force: 6800 N / 6.8 bar
423 142 001 0	Type 9. Length till port 138 mm. Thread 1 3/4"-12-UNS. Output force: 4200 N / 6.8 bar
423 143 001 0	Type 12. Length till port 138 mm. Thread 1 3/4"-12-UNS. Output force: 5200 N / 6.8 bar
423 143 002 0	Type 12. Length till port 356 mm. Thread 1 3/4"-12-UNS. Output force: 5200 N / 6.8 bar
423 143 004 0	Type 12. Length till port 187 mm. Thread 1 3/4"-12-UNS. Output force: 5200 N / 6.8 bar
423 143 012 0	Type 12. Length till port 145 mm. Thread 1 3/4"-12-UNS. Output force: 5200 N / 6.8 bar
423 143 020 0	Type 12. Length till port 215 mm. Thread 1 3/4"-12-UNS. Output force: 5200 N / 6.8 bar
423 143 902 0	Type 12 with fording ability. Length till port 187 mm. Thread 1 3/4"-12-UNS. Output force: 5200 N / 6.8 bar.

6.03 Brake Chamber Disc Brake 423 ...



423 104 ... 0

423 104 020 0	Type 16. Con-rod length 15 mm. With gaiter. Output force: 7300 N / 7.2 bar
423 104 700 0	Type 16. Con-rod length 26 mm. With gaiter. Output force: 6300 N / 6.5 bar
423 104 701 0	Type 16. Con-rod length 26 mm. With gaiter. Output force: 6300 N / 6.5 bar
423 104 710 0	Type 16. Con-rod length 15 mm. With gaiter. Output force: 8100 N / 8 bar
423 104 711 0	Type 16. Con-rod length 20 mm. With gaiter. Output force: 8900 N / 8.5 bar
423 104 712 0	Type 16. Con-rod length 20 mm. With gaiter. Output force: 8900 N / 8.5 bar
423 104 715 0	Type 16. Con-rod length 15 mm. With gaiter. Output force: 6500 N / 6.5 bar
423 104 716 0	Type 16. Con-rod length 15 mm. With gaiter. Output force: 6700 N / 6.5 bar
423 105 020 0	Type 20. Con-rod length 15 mm. With gaiter. Output force: 8100 N / 8 bar
423 105 700 0	Type 20. Con-rod length 20 mm. With gaiter. Output force: 9300 N / 8 bar
423 105 701 0	Type 20. Con-rod length 20 mm. With gaiter. Output force: 9300 N / 8 bar
423 110 710 0	Type 22. Con-rod length 15 mm. With gaiter. Output force: 8000 N / 6 bar
423 112 710 0	Type 18. Con-rod length 15 mm. With gaiter. Output force: 8600 N / 8 bar
423 114 710 0	Type 14. Con-rod length 15 mm. With gaiter. Output force: 6500 N / 8 bar
423 503 000 0	Type 12. Con-rod length 15 mm. With gaiter. Output force: 4200 N / 6.5 bar
423 504 002 0	Type 16. Con-rod length 15 mm. With gaiter. Output force: 6600 N / 6.5 bar
423 504 003 0	Type 16. Con-rod length 15 mm. With gaiter. Output force: 6800 N / 6.5 bar
423 504 012 0	Type 16. Con-rod length 15 mm. With gaiter. Output force: 6600 N / 6.5 bar
423 504 013 0	Type 16. Con-rod length 15 mm. With gaiter. Output force: 6600 N / 6.5 bar
423 504 014 0	Type 16. Con-rod length 15 mm. With gaiter. Output force: 6600 N / 6.5 bar
423 504 024 0	Type 16. Con-rod length 15 mm. With gaiter. Output force: 6600 N / 6.5 bar
423 504 030 0	Type 16. Con-rod length 15 mm. With gaiter. Output force: 5800 N / 6.5 bar
423 505 000 0	Type 20. Con-rod length 15 mm. With gaiter. Output force: 9800 N / 8 bar
423 505 001 0	Type 20. Con-rod length 26 mm. With gaiter. Output force: 9300 N / 8 bar
423 505 002 0	Type 20. Con-rod length 26 mm. With gaiter. Output force: 9300 N / 8 bar
423 505 004 0	Type 20. Con-rod length 15 mm. With gaiter. Output force: 7600 N / 6.5 bar
423 505 007 0	Type 20. Con-rod length 15 mm. With gaiter. Output force: 9800 N / 8 bar
423 505 020 0	Type 20. Con-rod length 15 mm. With gaiter. Output force: 9800 N / 8 bar
423 505 021 0	Type 20. Con-rod length 15 mm. With gaiter. Output force: 9800 N / 8 bar
423 505 190 0	Type 20. Con-rod length 15 mm. With gaiter. Output force: 9800 N / 8 bar
423 505 191 0	Type 20. Con-rod length 15 mm. With gaiter. Output force: 9800 N / 8 bar
423 506 001 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 9500 N / 6.8 bar
423 506 002 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 9000 N / 6.5 bar
423 506 003 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 9100 N / 6.5 bar
423 506 006 0	Type 24. Con-rod length 41.6 mm. With gaiter. Output force: 9100 N / 6.5 bar
423 506 007 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 8500 N / 6.5 bar
423 506 020 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 9100 N / 6.5 bar
423 506 021 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 9100 N / 6.5 bar
423 506 022 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 9100 N / 6.5 bar
423 506 023 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 9100 N / 6.5 bar
423 506 024 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 9100 N / 6.5 bar
423 506 025 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 9100 N / 6.5 bar
423 506 026 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 9100 N / 6.5 bar
423 506 027 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 9100 N / 6.5 bar
423 506 042 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 9100 N / 6.5 bar
423 506 043 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 9100 N / 6.5 bar

423 506 050 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 9200 N / 6.5 bar
423 506 051 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 9200 N / 6.5 bar
423 506 072 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 8500 N / 6 bar
423 506 081 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 8500 N / 6bar
423 506 100 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 8500 N / 6 bar
423 506 101 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 8500 N / 6 bar
423 506 102 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 8500 N / 6 bar
423 506 103 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 8500 N / 6 bar
423 506 104 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 8500 N / 6 bar
423 506 120 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 8500 N / 6 bar
423 506 121 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 8500 N / 6 bar
423 506 130 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 8400 N / 6 bar
423 506 140 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 8500 N / 6 bar
423 506 141 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 8500 N / 6 bar
423 506 142 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 8500 N / 6 bar
423 506 143 0	Type 24. Con-rod length 15 mm. With gaiter. Output force: 8500 N / 6 bar
423 507 000 0	Type 30. Con-rod length 15 mm. With gaiter. Output force: 11800 N / 6 bar
423 509 012 0	Type 27. Con-rod length 15 mm. With gaiter. Output force: 13100 N / 8 bar. Replacement: 423 509 007 0
423 509 013 0	Type 27. Con-rod length 15 mm. With gaiter. Output force: 13100 N / 8 bar. Replacement: 423 509 008 0
423 509 020 0	Type 27. Con-rod length 15 mm. With gaiter. Output force: 9800 N / 6 bar
423 510 010 0	Type 22. Con-rod length 15 mm. With gaiter. Output force: 8000 N / 6 bar
423 510 020 0	Type 22. Con-rod length 15 mm. With gaiter. Output force: 10200 N / 8 bar
423 510 021 0	Type 22. Con-rod length 15 mm. With gaiter. Output force: 10200 N / 8 bar
423 511 010 0	Type 25. Con-rod length 26 mm. With gaiter. Output force: 11900 N / 8 bar
423 511 011 0	Type 25. Con-rod length 26 mm. With gaiter. Output force: 11900 N / 8 bar
423 512 010 0	Type 18. Con-rod length 15 mm. With gaiter. Output force: 6800 N / 6 bar
423 514 010 0	Type 14. Con-rod length 15 mm. With gaiter. Output force: 5100 N / 6 bar
423 514 020 0	Type 14. Con-rod length 15 mm. With gaiter. Output force: 5900 N / 7.2 bar

6

6.04 Spring Brake (Cam Brake) 925 ...



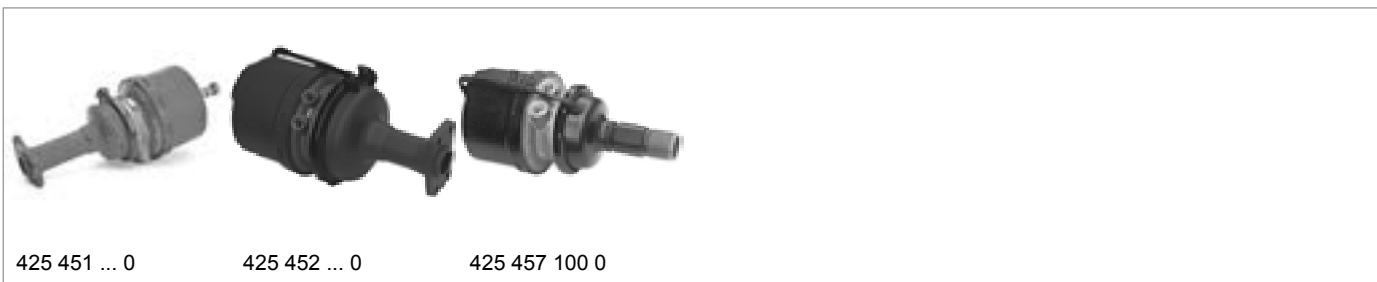
925 320 400 0	Type 20/30". Con-rod length 290 mm. With gaiter. With yoke. Port threads M 16x1.5
925 320 505 0	Type 20/30". Con-rod length 77 mm. With gaiter. With yoke. Port threads M 16x1.5
925 320 515 0	Type 20/30". Con-rod length 77 mm. With gaiter. With yoke. Port threads M 16x1.5
925 320 531 0	Type 20/30". Con-rod length 60 mm. With gaiter. With yoke. Port threads M 16x1.5
925 320 543 0	Type 20/30". Con-rod length 60 mm. With gaiter. With yoke. Port threads M 16x1.5
925 321 160 0	Type 24/24". Con-rod length 187 mm. With gaiter. With yoke. Port threads M 16x1.5
925 321 202 0	Type 24/24". Con-rod length 290 mm. With gaiter. With yoke. Port threads M 22x1.5
925 322 064 0	Type 30/30". Con-rod length 40 mm. without Sealing. Yoke required. Port threads M 16x1.5
925 322 215 0	Type 30/30". Con-rod length 37 mm. With gaiter. With yoke. Port threads M 16x1.5
925 323 130 0	Type 36/30". Universal type. Con-rod length 217 mm. With gaiter. Yoke required. Port threads M 16x1.5
925 324 000 0	Type 16/24". Con-rod length 187 mm. With gaiter. With yoke. Port threads M 16x1.5
925 324 250 0	Type 16/24". Con-rod length 60 mm. With gaiter. With yoke. Port threads M 16x1.5
925 324 260 0	Type 16/24". Con-rod length 60 mm. With gaiter. With yoke. Port threads M 16x1.5
925 325 118 0	Type 12/12". Con-rod length 37 mm. With gaiter. With yoke. Port threads M 16x1.5
925 326 000 0	Type 14/12". Con-rod length 37 mm. With gaiter. With yoke. Port threads M 16x1.5
925 420 750 0	Type 20/24". Con-rod length 75 mm. With gaiter. With yoke. Port threads M 22x1.5
925 421 141 0	Type 24/24". Con-rod length 50 mm. Disc sealing. With yoke. Port threads M 22x1.5
925 421 142 0	Type 24/24". Con-rod length 50 mm. Disc sealing. With yoke. Port threads M 22x1.5

925 421 347 0	Type 24/24". Con-rod length 220 mm. With gaiter. With yoke. Port threads M 16x1.5
925 421 500 0	Type 24/30". Con-rod length 85 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 421 540 0	Type 24/30". Con-rod length 75 mm. With gaiter. With yoke. Port threads M 22x1.5. Replacement for: 925 421 450 0
925 421 542 0	Type 24/30". Con-rod length 200 mm. With gaiter. With yoke. Port threads M 22x1.5
925 421 543 0	Type 24/30". Con-rod length 200 mm. With gaiter. With yoke. Port threads M 22x1.5
925 421 750 0	Type 24/24". Con-rod length 75 mm. With gaiter. With yoke. Port threads M 22x1.5
925 421 751 0	Type 24/24". Con-rod length 200 mm. With gaiter. With yoke. Port threads M 22x1.5
925 421 752 0	Type 24/24". Con-rod length 200 mm. With gaiter. With yoke. Port threads M 22x1.5
925 421 955 0	Type 24/24". Con-rod length 75 mm. With gaiter. With yoke. Port threads M 22x1.5
925 422 100 0	Type 30/30". Con-rod length 200 mm. Disc sealing. Yoke required. Port threads M 16x1.5
925 422 120 0	Type 30/30". Con-rod length 75 mm. Disc sealing. With yoke. Port threads M 22x1.5
925 422 122 0	Type 30/30". Con-rod length 200 mm. With gaiter. With yoke. Port threads M 22x1.5 for Voss push-in fittings
925 422 123 0	Type 30/30". Con-rod length 200 mm. With gaiter. With yoke. Port threads M 22x1.5 for Voss push-in fittings
925 424 100 0	Type 16/24". Con-rod length 187 mm. With gaiter. With yoke. Port threads M 22x1.5 for Voss push-in fittings
925 427 010 0	Type 22/30". Con-rod length 85 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 429 002 0	Type 27/30". Con-rod length 85 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 429 012 0	Type 27/30". Con-rod length 85 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 429 061 0	Type 27/30". Con-rod length 85 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 429 176 0	Type 27/24". Con-rod length 50 mm. Disc sealing. With yoke. Port threads M 22x1.5 for Voss push-in fittings
925 429 177 0	Type 27/24". Con-rod length 50 mm. Disc sealing. With yoke. Port threads M 22x1.5 for Voss push-in fittings
925 430 035 0	Type 20/24". Con-rod length 70 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 430 036 0	Type 20/24". Con-rod length 70 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 430 066 0	Type 20/24". Con-rod length 70 mm. With gaiter. With yoke. Port threads M 16x1.5
925 430 100 0	Type 20/24". Con-rod length 200 mm. Disc sealing. Yoke required. Port threads M 16x1.5
925 431 003 0	Type 24/24". Con-rod length 70 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 431 033 0	Type 24/24". Con-rod length 70 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 431 034 0	Type 24/24". Con-rod length 70 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 431 037 0	Type 24/24". Con-rod length 215 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 431 038 0	Type 24/24". Con-rod length 215 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 431 063 0	Type 24/24". Con-rod length 70 mm. With gaiter. With yoke. Port threads M 16x1.5
925 431 090 0	Type 24/24". Con-rod length 98 mm. Disc sealing. Yoke required. Port threads M 16x1.5
925 431 093 0	Type 24/24". Con-rod length 58 mm. Disc sealing. Yoke required. Port threads M 16x1.5. Replacement for: 925 431 073 0
925 431 094 0	Type 24/24". Con-rod length 58 mm. Disc sealing. Yoke required. Port threads M 16x1.5
925 431 095 0	Type 24/24". IBV. Universal type. Con-rod length 247 mm. Disc sealing. Yoke required. Port threads M 16x1.5. For Parker push-in fittings
925 431 100 0	Type 24/24". Con-rod length 200 mm. Disc sealing. Yoke required. Port threads M 16x1.5
925 431 101 0	Type 24/24". Con-rod length 186. Disc sealing. Yoke required. Port threads M 16x1.5
925 431 140 0	Type 24/24". Con-rod length 58 mm. Disc sealing. Yoke required. Port threads M 16x1.5
925 431 422 0	Type 24/30". Con-rod length 70 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 431 423 0	Type 24/30". Con-rod length 70 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 431 490 0	Type 24/30". Con-rod length 70 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 431 550 0	Type 24/30". Con-rod length 86 mm. Disc sealing. With yoke. Port threads M 16x1.5. For Parker push-in fittings
925 431 551 0	Type 24/30". Con-rod length 86 mm. Disc sealing. With yoke. Port threads M 16x1.5. For Parker push-in fittings
925 432 022 0	Type 30/24". Con-rod length 70 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 432 115 0	Type 30/30". Con-rod length 70 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 432 117 0	Type 30/30". Con-rod length 260 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 432 118 0	Type 30/30". Con-rod length 260 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 432 200 0	Type 30/30". Con-rod length 200 mm. Disc sealing. Yoke required. Port threads M 16x1.5
925 432 420 0	Type 30/30". Con-rod length 86 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 432 440 0	Type 30/30". Con-rod length 70 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 432 481 0	Type 30/30". Con-rod length 86 mm. Disc sealing. With yoke. Port threads M 16x1.5. For Parker push-in fittings
925 432 482 0	Type 30/30". Con-rod length 86 mm. Disc sealing. With yoke. Port threads M 16x1.5. For Parker push-in fittings. Replacement for: 925 432 402 0
925 432 483 0	Type 30/30". Con-rod length 70 mm. Disc sealing. With yoke. Port threads M 16x1.5. For Parker push-in fittings
925 432 485 0	Type 30/30". Con-rod length 86 mm. Disc sealing. With yoke. Port threads M 16x1.5. Replacement for: 925 432 405 0
925 432 486 0	Type 30/30". Con-rod length 86 mm. Disc sealing. With yoke. Port threads M 16x1.5. Replacement for: 925 432 406 0
925 439 110 0	Type 30/30". Con-rod length 220 mm. Disc sealing. Yoke required. Port threads M 16x1.5
925 439 400 0	Type 27/30". Con-rod length 300 mm. Disc sealing. With yoke. Port threads M 16x1.5. For Parker push-in fittings
925 439 401 0	Type 27/30". Con-rod length 86 mm. Disc sealing. With yoke. Port threads M 16x1.5. For Parker push-in fittings
925 439 404 0	Type 27/30". Con-rod length 86 mm. Disc sealing. With yoke. Port threads M 16x1.5. For Parker push-in fittings

925 439 405 0	Type 27/30". Con-rod length 86 mm. Disc sealing. With yoke. Port threads M 16x1.5. For Parker push-in fittings
925 439 406 0	Type 27/30". Con-rod length 86 mm. Disc sealing. With yoke. Port threads M 16x1.5. For Parker push-in fittings
925 453 200 0	Type 36/36". Universal type. Con-rod length 184 mm. With gaiter. With yoke. Port threads M 16x1.5
925 468 253 0	Type 14/16". Con-rod length 177 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 490 102 0	Type 20/24". IBV. Con-rod length 250 mm. Disc sealing. Yoke required. Port threads M 22x1.5 for Voss push-in fittings. Reducing piece M 16x1.5
925 490 901 0	Type 20/30". IBV. Con-rod length 37 mm. Disc sealing. With yoke. Port threads M 22x1.5. With push-in connection Voss 232
925 490 902 0	Type 20/24". IBV. Con-rod length 37 mm. Disc sealing. With yoke. Port threads M 22x1.5. With push-in connection Voss 232
925 490 905 0	Type 20/24". IBV. Con-rod length 37 mm. Disc sealing. With yoke. Port threads M 22x1.5. With push-in connection Voss 232
925 490 906 0	Type 20/30". IBV. Con-rod length 37 mm. Disc sealing. With yoke. Port threads M 22x1.5. With push-in connection Voss 232
925 490 925 0	Type 20/24". IBV. Con-rod length 250 mm. With gaiter. Yoke required. Port threads M 22x1.5 for Voss push-in fittings. Reducing piece M 16x1.5
925 491 104 0	Type 24/24". IBV. Con-rod length 58 mm. Disc sealing. Yoke required. Port threads M 16x1.5. For Parker push-in fittings
925 491 105 0	Type 24/24". IBV. Con-rod length 187 mm. With gaiter. With yoke. Port threads M 22x1.5. With push-in connection Voss 232
925 491 106 0	Type 24/24". IBV. Con-rod length 187 mm. With gaiter. With yoke. Port threads M 22x1.5. With push-in connection Voss 232
925 491 107 0	Type 24/24". IBV. Con-rod length 58 mm. Disc sealing. Without yoke. Port threads M 16x1.5. For Parker push-in fittings
925 491 111 0	Type 24/30". IBV. Universal type. Con-rod length 250 mm. Disc sealing. Yoke required. Port threads M 22x1.5 for Voss push-in fittings. Reducing piece M 16x1.5
925 491 117 0	Type 24/24". IBV. Con-rod length 58 mm. Disc sealing. Without yoke. Port threads M 16x1.5. For Parker push-in fittings
925 491 132 0	Type 24/30". IBV. Con-rod length 220 mm. Disc sealing. Without yoke. Port threads M 16x1.5. For Parker push-in fittings
925 491 141 0	Type 24/24". Universal type. Con-rod length 250 mm. With gaiter. Yoke required. Port threads M 22x1.5 for Voss push-in fittings. Reducing piece M 16x1.5
925 491 143 0	Type 24/24". Universal type. Con-rod length 250 mm. With gaiter. Without yoke. Port threads M 22x1.5 for Voss push-in fittings. Reducing piece M 16x1.5
925 491 900 0	Type 24/24". IBV. Con-rod length 37 mm. Disc sealing. With yoke. Port threads M 22x1.5. With push-in connection Voss 232
925 491 901 0	Type 24/24". IBV. Con-rod length 37 mm. Disc sealing. With yoke. Port threads M 22x1.5. With push-in connection Voss 232
925 492 000 0	Type 30/30". IBV. Con-rod length 33 mm. Disc sealing. Yoke required. Port threads M 22x1.5. With push-in connection Voss 232
925 492 001 0	Type 30/24". IBV. Con-rod length 58 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 492 002 0	Type 30/30". IBV. Con-rod length 58 mm. Disc sealing. Yoke required. Port threads M 16x1.5. For Parker push-in fittings
925 492 100 0	Type 30/24". IBV. Universal type. Con-rod length 250 mm. With gaiter. Yoke required. Port threads M 16x1.5
925 492 102 0	Type 30/30". IBV. Universal type. Con-rod length 250 mm. With gaiter. Yoke required. Port threads M 22x1.5 for Voss push-in fittings. Reducing piece M 16x1.5
925 492 103 0	Type 30/30". IBV. Universal type. Con-rod length 250 mm. Disc sealing. Yoke required. Port threads M 22x1.5 for Voss push-in fittings. Reducing piece M 16x1.5
925 492 201 0	Type 30/24". IBV. Con-rod length 39 mm. Disc sealing. Yoke required. Port threads M 16x1.5. For Parker push-in fittings
925 492 203 0	30/30". IBV. Con-rod length 37 mm. With gaiter. With yoke. Port threads M 22x1.5. Voss 232
925 492 206 0	Type 30/30". IBV. Universal type. Con-rod length 250 mm. Disc sealing. Yoke required. Port threads 1/4" NPTF
925 492 208 0	Type 30/30". IBV. Con-rod length 200 mm. Disc sealing. Yoke required. Port threads M 16x1.5
925 492 209 0	30/30". IBV. Con-rod length 187 mm. With gaiter. With yoke. Port threads M 22x1.5. With push-in connection Voss 232
925 492 213 0	Type 30/30". IBV. Con-rod length 37 mm. With gaiter. With yoke. Port threads M 22x1.5. With push-in connection Voss 232
925 492 221 0	Type 30/30". IBV. Con-rod length 187 mm. With gaiter. With yoke. Port threads M 22x1.5 for Voss push-in fittings. Replacement for: 925 422 221 0
925 492 902 0	Type 30/30". IBV. Con-rod length 37 mm. Disc sealing. With yoke. Port threads M 22x1.5. With push-in connection Voss 232
925 492 903 0	Type 30/30". IBV. Con-rod length 37 mm. Disc sealing. With yoke. Port threads M 22x15. With push-in connection Voss 232
925 494 041 0	Type 16/24". Universal type. Con-rod length 250 mm. With gaiter. Yoke required. Port threads M 22x1.5 for Voss push-in fittings. Reducing piece M 16x1.5
925 494 755 0	Type 16/24". IBV. Universal type. Con-rod length 250 mm. Disc sealing. Yoke required. Port threads M 22x1.5 for Voss push-in fittings. Reducing piece M 16x1.5
925 499 000 0	Type 27/24". IBV. Universal type. Con-rod length 250 mm. With gaiter. Yoke required. Port threads M 16x1.5
925 499 001 0	Type 27/30". IBV. Universal type. Con-rod length 250 mm. With gaiter. Yoke required. Port threads M 22x1.5 for Voss push-in fittings. Reducing piece M 16x1.5
925 499 003 0	Type 27/24". IBV. Con-rod length 220 mm. Disc sealing. Yoke required. Port threads M 16x1.5. For Parker push-in fittings
925 499 004 0	Type 27/24". IBV. Con-rod length 247 mm. Disc sealing. Yoke required. Port threads M 16x1.5. For Parker push-in fittings
925 499 030 0	Type 27/30". IBV. Con-rod length 220 mm. Disc sealing. Yoke required. Port threads M 16x1.5. For Parker push-in fittings
925 499 031 0	Type 27/30". IBV. Con-rod length 247 mm. Disc sealing. Yoke required. Port threads M 16x1.5. For Parker push-in fittings.

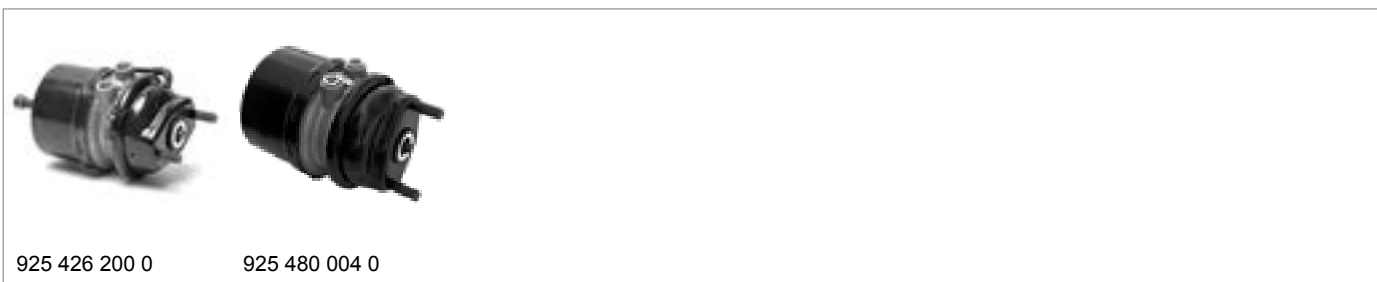
IBV, Integrated Breather Valve

6.06 Spring Brake (Wedge Brake) 425 ...



425 327 064 0	Type 12/20". Length till port 187 mm. Thread 1.75"-12 UNS-2A. Port threads M 16x1.5
425 331 000 0	Type 24/24". Length till port 194 mm. Thread M 45x1.5. Port threads M 16x1.5
425 331 003 0	Type 24/24". Length till port 247 mm. Thread M 45x1.5. Port threads M 16x1.5
425 333 001 0	Type 20/16". Length till port 164 mm. Thread M 45x1.5. Port threads M 16x1.5
425 333 100 0	Type 20/20". Length till port 224 mm. Thread M 45x1.5. Port threads M 16x1.5
425 333 201 0	Type 20/24". Length till port 194 mm. Thread M 45x1.5. Port threads M 16x1.5
425 333 212 0	Type 20/24". Length till port 224 mm. Thread M 45x1.5. Port threads M 16x1.5
425 426 201 0	Type 12/16". Length till port 148 mm. Thread M 48x1.5. Port threads M 22x1.5 for Voss push-in fittings
425 428 900 0	Type 16/16". Length till port 179 mm. Thread M 48x2. Port threads M 16x1.5
425 429 901 0	Type 18/16". Length till port 179 mm. Thread M 48x2. Port threads M 16x1.5
425 451 050 0	Type 24/24". Length till port 211 mm. Mounting: 4-hole flange. Port threads Rc 3/8
425 451 051 0	Type 24/24". Length till port 211 mm. Mounting: 4-hole flange. Port threads Rc 3/8
425 451 052 0	Type 24/24". Length till port 241 mm. Mounting: 4-hole flange. Port threads Rc 3/8
425 451 053 0	Type 24/24". Length till port 241 mm. Mounting: 4-hole flange. Port threads Rc 3/8
425 451 054 0	Type 24/24". Length till port 211 mm. Mounting: 4-hole flange. Port threads Rc 3/8
425 451 055 0	Type 24/24". Length till port 211 mm. Mounting: 4-hole flange. Port threads Rc 3/8
425 452 022 0	Type 9/16". Length till port 174 mm. Mounting: 4-hole flange. Port threads M 16x1.5
425 452 023 0	Type 9/16". Length till port 174 mm. Mounting: 4-hole flange. Port threads M 16x1.5
425 457 051 0	Type 18/24". Length till port 211 mm. Mounting: 4-hole flange. Port threads Rc 3/8
425 457 100 0	Type 18/24". Length till port 181 mm. Thread M 48x1.5. Port threads M 22x1.5 for Voss push-in fittings
425 458 054 0	Type 22/24". Length till port 211 mm. Mounting: 4-hole flange. Port threads Rc 3/8
425 458 055 0	Type 22/24". Length till port 211 mm. Mounting: 4-hole flange. Port threads Rc 3/8

6.07 Spring Brake (Disc Brake) 925 4..



Part number	Type	Operating pressure	Stroke	Release pressure	Con-rod	Port	Comments
925 424 800 0	16/16"	10/8.5 bar	57/57	5.5 bar	15 mm	M 22x1.5	
925 424 801 0	16/16"	10/8.5 bar	57/57	5.5 bar	15 mm	M 22x1.5	
925 424 830 0	16/16"	10.2/8.5 bar	57/57	5.5 bar	15 mm	M 22x1.5	
925 424 831 0	16/16"	10.2/8.5 bar	57/57	5.5 bar	15 mm	M 22x1.5	
925 426 200 0	14/16"	10/8.5 bar	57/57	5.1 bar	15 mm	M 16x1.5	
925 426 201 0	14/16"	10/8.5 bar	57/57	5.1 bar	15 mm	M 16x1.5	
925 426 300 0	14/16"	10/10 bar	57/57	5.5 bar	15 mm	M 22x1.5	
925 426 301 0	14/16"	10/10 bar	57/57	5.5 bar	15 mm	M 22x1.5	

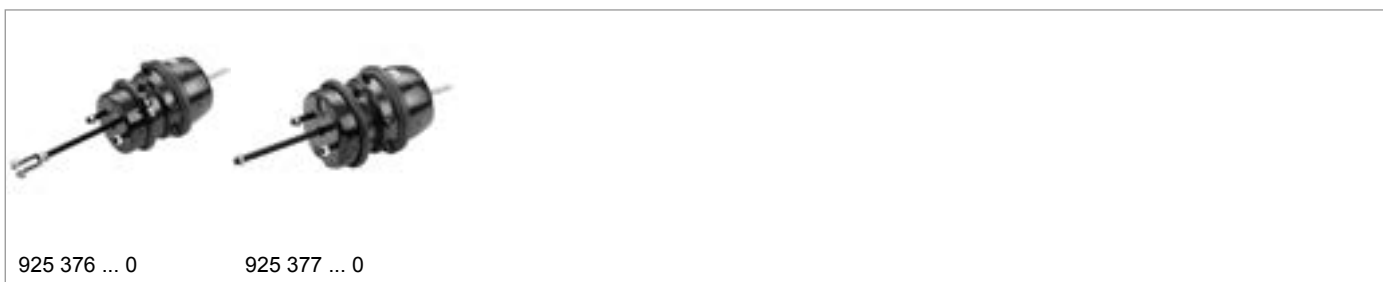
Part number	Type	Operating pressure	Stroke	Release pressure	Con-rod	Port	Comments
925 460 027 0	20/24"	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 16x1.5	
925 460 032 0	20/24"	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 16x1.5	
925 460 074 0	20/24"	10/10 bar	64/64	5.1 bar	15 mm	M 22x1.5	
925 460 090 0	20/24"	10.2/10 bar	64/64	5.1 bar	15 mm	M 22x1.5	
925 460 091 0	20/24"	10.2/10 bar	64/64	5.1 bar	15 mm	M 22x1.5	
925 460 100 0	20/24" IBV	10.2/8.5 bar	64/64	5.1 bar	15 mm	M 16x1.5	
925 460 101 0	20/24" IBV	10.2/8.5 bar	64/64	5.1 bar	15 mm	M 16x1.5	
925 460 102 0	20/24" IBV	10.2/8.5 bar	64/64	5.1 bar	15 mm	M 16x1.5	
925 460 103 0	20/24" IBV	10.2/8.5 bar	64/64	5.1 bar	15 mm	M 16x1.5	
925 460 130 0	20/24"	10/8 bar	75/75	5.1 bar	20 mm	M 22x1.5	with fording ability
925 460 237 0	20/24"	10/8.5 bar	75/75	5.1 bar	20 mm	M 22x1.5	
925 460 240 0	20/24"	10/8.5 bar	75/75	5.1 bar	20 mm	M 22x1.5	
925 461 022 0	24/24"	10/8.5 bar	75/75	5.1 bar	20 mm	M 22x1,5	
925 461 023 0	24/24"	10/8.5 bar	75/75	5.1 bar	20 mm	M 22x1,5	
925 461 025 0	24/24"	10/8.5 bar	75/75	5.1 bar	20 mm	M 22x1,5	
925 461 027 0	24/24"	10/8.5 bar	75/75	5.1 bar	20 mm	M 22x1,5	
925 461 050 0	24/24"	10.2/8.5 bar	64/64	5.1 bar	15 mm	M 16x1.5	
925 461 052 0	24/24"	10.2/8.5 bar	64/64	5.1 bar	15 mm	M 16x1.5	
925 461 071 0	24/24"	10/8.5 bar	65/65	5.3 bar	15 mm	M 16x1.5	
925 461 072 0	24/24"	10/8.5 bar	65/65	5.3 bar	15 mm	M 16x1.5	
925 461 102 0	24/24"	10/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	with fording ability
925 461 110 0	24/24"	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 461 131 0	24/24"	10/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	with fording ability
925 461 191 0	24/16"	10.2/8.5 bar	65/65	5.5 bar	15 mm	M 16x1,5	with fording ability
925 461 210 0	24/24"	10/8.5 bar	75/75	5.1 bar	26 mm	M 22x1,5	
925 461 211 0	24/24"	10/8.5 bar	75/75	5.1 bar	26 mm	M 22x1,5	
925 461 290 0	24/16"	10.5/8.5 bar	65/45	5.3 bar	15 mm	M 16x1,5	
925 461 291 0	24/16"	10.5/8.5 bar	65/45	5.3 bar	15 mm	M 16x1,5	
925 461 470 0	24/30"	10/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 461 471 0	24/30"	10/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 461 472 0	24/30"	10/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	with fording ability
925 463 500 0	18/24" IBV	10/8.5 bar	64/64	5.1 bar	15 mm	M 16x1,5	
925 463 501 0	18/24" IBV	10/8.5 bar	64/64	5.1 bar	15 mm	M 16x1,5	
925 463 502 0	18/24" IBV	10/8.5 bar	64/64	5.1 bar	15 mm	M 16x1,5	
925 463 510 0	18/24"	10.2/10 bar	64/64	5.1 bar	15 mm	M 22x1.5 Voss 230	
925 463 511 0	18/24"	10.2/10 bar	64/64	5.1 bar	15 mm	M 22x1.5 Voss 230	
925 464 014 0	16/24"	10.2/8.5 bar	64/64	5.5 bar	15 mm	M 22x1.5 Voss 230	
925 464 015 0	16/24"	10.2/8.5 bar	64/64	5.5 bar	15 mm	M 22x1.5 Voss 230	
925 464 461 0	16/16" IBV	10/8.5 bar	57/57	5.1 bar	15 mm	M 16x1,5	
925 467 002 0	22/24"	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 467 016 0	22/24"	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 467 017 0	22/24"	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 467 020 0	22/24"	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 468 032 0	14/16"	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1,5	
925 468 033 0	14/16"	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1,5	
925 468 100 0	14/16"	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 16x1,5	
925 468 250 0	14/16" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 16x1,5	
925 468 251 0	14/16" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 16x1,5	
925 480 004 0	20/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5 Voss 232	
925 480 005 0	20/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5 Voss 232	
925 480 010 0	20/24" IBV	10.2/8.5 bar	64/64	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 480 011 0	20/24" IBV	10.2/8.5 bar	64/64	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 480 020 0	20/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	

Part number	Type	Operating pressure	Stroke	Release pressure	Con-rod	Port	Comments
925 480 021 0	20/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 480 040 0	20/24" IBV	10.2/8.5 bar	65/65	5.1 bar	15 mm	M 16x1,5	
925 480 050 0	20/24" IBV	10.2/8.5 bar	64/64	5.1 bar	15 mm	M 16x1,5	
925 480 051 0	20/24" IBV	10.2/8.5 bar	64/64	5.1 bar	15 mm	M 16x1,5	
925 480 120 0	20/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5 Voss 232	with brackets
925 480 121 0	20/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5 Voss 232	with brackets
925 481 000 0	24/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 481 001 0	24/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 481 012 0	24/24" IBV	10.2/8.5 bar	64/64	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 481 013 0	24/24" IBV	10.2/8.5 bar	64/64	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 481 030 0	24/24" IBV	10.2/8.5 bar	65/64	5.3 bar	15 mm	M 16x1,5	
925 481 031 0	24/24" IBV	10.2/8.5 bar	65/64	5.3 bar	15 mm	M 16x1,5	
925 481 040 0	24/24" IBV	10.2/8.5 bar	65/64	5.3 bar	15 mm	M 16x1,5	
925 481 041 0	24/24" IBV	10.2/8.5 bar	65/64	5.3 bar	15 mm	M 16x1,5	
925 481 060 0	24/30" IBV	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 070 0	24/30" IBV	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 080 0	24/24" IBV	10.2/8.5 bar	65/65	5.1 bar	15 mm	M 16x1,5	
925 481 100 0	24/30" IBV	10.2/8.5 bar	64/64	5.6 bar	15 mm	M 16x1,5	
925 481 101 0	24/30" IBV	10.2/8.5 bar	64/64	5.6 bar	15 mm	M 16x1,5	
925 481 102 0	24/30" IBV	10.2/8.5 bar	64/64	5.6 bar	15 mm	M 16x1,5	
925 481 103 0	24/30" IBV	10.2/8.5 bar	64/64	5.6 bar	15 mm	M 16x1,5	
925 481 108 0	24/24" IBV	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 110 0	24/24" IBV	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 113 0	24/24" IBV	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 114 0	24/24" IBV	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 115 0	24/24" IBV	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 116 0	24/24" IBV	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 117 0	24/24" IBV	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 118 0	24/24" IBV	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 120 0	24/30" IBV	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 121 0	24/30" IBV	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 122 0	24/30" IBV	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 123 0	24/30" IBV	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 124 0	24/24" IBV	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 125 0	24/24" IBV	10.2/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 150 0	24/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5	
925 481 151 0	24/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5	
925 481 152 0	24/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5	
925 481 155 0	24/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5	with brackets
925 481 156 0	24/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5	with brackets
925 481 157 0	24/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5	
925 481 160 0	24/24" IBV	10.2/8.5 bar	64/64	5.1 bar	15 mm	M 22x1.5	
925 481 161 0	24/24" IBV	10.2/8.5 bar	64/64	5.1 bar	15 mm	M 22x1.5	
925 481 163 0	24/24" IBV	10.2/8.5 bar	64/64	5.1 bar	15 mm	M 22x1.5	with brackets
925 481 164 0	24/24" IBV	10.2/8.5 bar	64/64	5.1 bar	15 mm	M 22x1.5	with brackets
925 481 170 0	24/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 16x1,5	
925 481 171 0	24/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 16x1,5	
925 481 191 0	24/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5	with brackets
925 481 230 0	24/16" IBV	10.2/8.5 bar	65/45	5.5 bar	15 mm	M 16x1,5	
925 481 251 0	24/24" IBV	10.2/10 bar	64/64	5.1 bar	15 mm	M 22x1.5	
925 481 260 0	24/24" IBV	10.2/8.5 bar	75/75	5.1 bar	15 mm	M 22x1.5	
925 481 270 0	24/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 16x1,5	
925 481 271 0	24/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 16x1,5	

Part number	Type	Operating pressure	Stroke	Release pressure	Con-rod	Port	Comments
925 481 272 0	24/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 16x1,5	
925 481 300 0	24/24" IBV	10.2/10 bar	64/64	5.1 bar	15 mm	M 22x1.5	
925 481 312 0	24/30" IBV	10.5/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 313 0	24/30" IBV	10.5/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 314 0	24/30" IBV	10.5/8.5 bar	65/65	5.3 bar	15 mm	M 16x1,5	
925 481 330 0	24/24" IBV	10.2/8.5 bar	65/64	5.1 bar	15 mm	M 16x1,5	
925 481 345 0	24/30" IBV	10.2/8.5 bar	65/65	5.1 bar	15 mm	M 16x1,5	
925 484 010 0	16/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5 Voss 232	
925 484 011 0	16/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5 Voss 232	
925 484 020 0	16/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 484 021 0	16/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 484 022 0	16/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	with brackets
925 484 023 0	16/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	with brackets
925 486 010 0	12/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	with brackets
925 486 011 0	12/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	with brackets
925 486 101 0	12/16" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	with brackets
925 486 104 0	12/16" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 486 105 0	12/16" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 486 106 0	12/16" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 486 110 0	12/16" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 486 111 0	12/16" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 486 305 0	10/16" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	with brackets
925 486 400 0	16/16" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 486 401 0	16/16" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 487 000 0	22/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5	
925 487 001 0	22/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5	
925 488 000 0	14/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5 Voss 232	
925 488 001 0	14/24" IBV	10.2/8.5 bar	64/64	6.1 bar	15 mm	M 22x1.5 Voss 232	
925 488 010 0	14/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	with brackets
925 488 014 0	14/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	with brackets
925 488 015 0	14/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	with brackets
925 488 020 0	14/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 488 021 0	14/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 488 024 0	14/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 488 025 0	14/24" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 488 060 0	14/16" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 488 061 0	14/16" IBV	10.2/8.5 bar	57/57	5.1 bar	15 mm	M 22x1.5 Voss 232	
925 489 001 0	27/24" IBV	10.2/8.5 bar	65/65	5.1 bar	15 mm	M 16x1,5	
925 489 100 0	27/30" IBV	10.2/8.5 bar	65/65	5.6 bar	15 mm	M 16x1,5	
925 489 101 0	27/30" IBV	10.2/8.5 bar	65/65	5.6 bar	15 mm	M 16x1,5	

IBV, Integrated Breather Valve

6.08 Double Diaphragm Spring Brake Drum Brake 925 37.



925 375 100 0	Type 20/30". Con-rod length 213 mm. Disc sealing. Yoke required. Port threads M 16x1.5
925 376 100 0	Type 24/30". Con-rod length 213 mm. Disc sealing. Yoke required. Port threads M 16x1.5
925 376 106 0	Type 24/30". Con-rod length 264 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 376 110 0	Type 24/30". Con-rod length 227 mm. Disc sealing. With yoke. Port threads M 16x1.5
925 377 000 0	Type 30/30". Con-rod length 212 mm. Disc sealing. Yoke required. Port threads M 16x1.5
925 377 100 0	Type 30/30". Con-rod length 212 mm. Disc sealing. Yoke required. Port threads M 16x1.5
925 377 103 0	Type 30/30". Con-rod length 268 mm. Disc sealing. With yoke. Port threads M 16x1.5

6.09 Double Diaphragm Spring Brake Disc Brake 925 38.



925 384 010 0

925 380 101 0	Type 20/24". IBV. Con-rod length 15 mm. With gaiter. Port threads M 16x1.5.
925 384 010 0	Type 16/24". IBV. Con-rod length 15 mm. With gaiter. Port threads M 16x1.5. Replacement for 925 384 001 0

IBV, Integrated Breather Valve

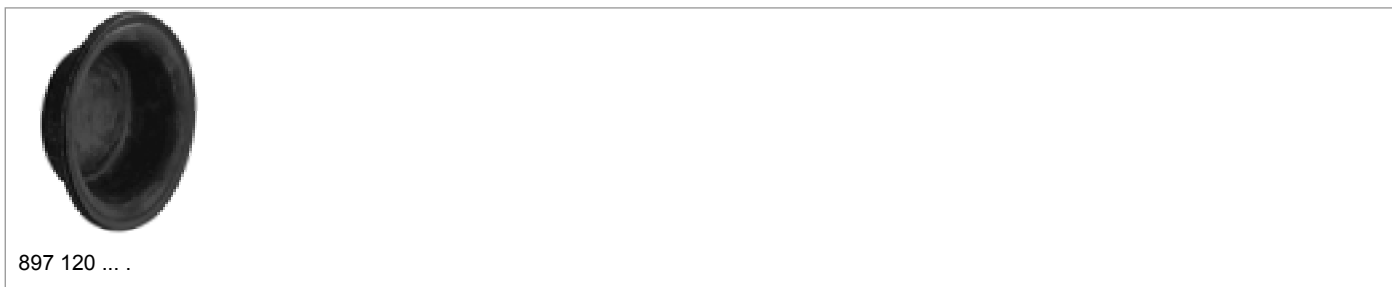
6.10 Accessory



423 000 534 2 423 000 535 2 423 903 532 2 925 38. 050 2

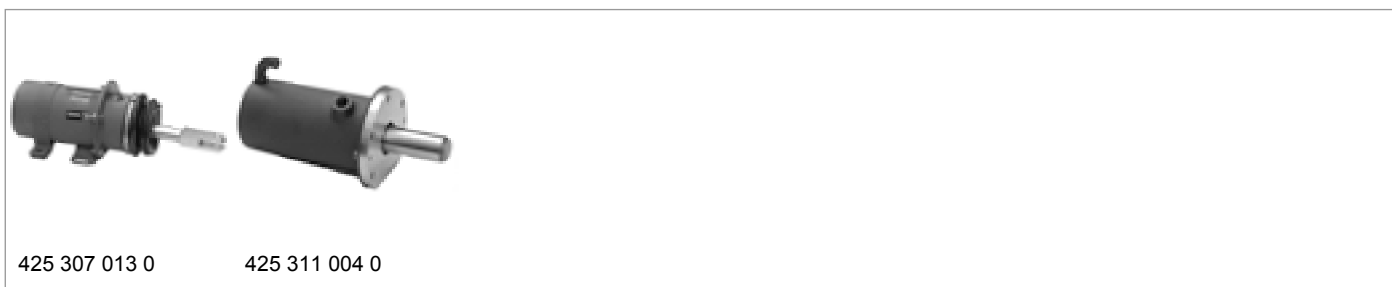
423 000 534 2	Normal yoke M 16x1.5. Stud Ø 14x45x31.2. 2x Split pin. 2x Hexagon nut M 16x1.5 + BM 16x1.5. Sealing ring A16x20. Screw plug M 16x1.5
423 000 535 2	Slotted yoke M 16x1.5. Stud Ø 14x45x35.6. 2x Split pin. 2x Washer. 2x Hexagon nut M 16x1.5 + BM 16x1.5. Sealing ring A16x20. Screw plug M 16x1.5
423 014 350 4	Clamping ring for Brake Chamber Type 14
423 105 350 4	Clamping ring for Brake Chamber Type 20
423 106 350 4	Clamping ring for Brake Chamber Type 24
423 107 350 4	Clamping ring for Brake Chamber Type 30
423 902 533 2	Normal yoke M 16x1.5. Stud Ø 14x45x31.2. 2x Split pin, 2x Hexagon nut M 12x1.5 + BM 16x1.5, Sealing ring A 16x20, Screw plug M 16x1.5
423 902 534 2	Slotted yoke M 16x1.5. Stud Ø 14x45x35.6. 2x Split pin, 2x Washer, 2x Hexagon nut M 12x1,5 + BM 16x1,5, Sealing ring A 16x20, Screw plug M 16x1.5
423 903 532 2	Normal yoke M 16x1.5. Stud Ø 14x45x31.2. 2x Split pin, 2x Hexagon nut M 16x1,5 + BM 16x1,5
425 352 350 4	Clamping ring for Spring Brake (Wedge Brake) Type 9
925 380 050 2	Pipe Extension Kit. For 925 380 101 0 (Type 20/24")
925 384 050 2	Pipe Extension Kit. For 925 384 0.. 0 (Type 16/24")

6.11 Diaphragm 897 12.



Part number	Type	Diameter	Depth
897 120 495 4	9	ø 128	31
897 120 505 4	12	ø 139	31
897 120 510 4	16	ø 156	35
897 120 516 4	16	ø 157	44
897 120 520 4	20	ø 168	33
897 120 525 4	20	ø 168	38
897 120 526 4	20	ø 168	45
897 120 530 4	24	ø 179	33
897 120 535 4	24	ø 179	40
897 120 536 4	24	ø 179	45
897 120 540 4	30	ø 199	35
897 120 546 4	30	ø 200	44
897 120 547 4	27	ø 200	36
897 120 550 4	36	ø 224	46
897 121 720 4	14	ø 139	28

6.12 Spring Brake Actuator 425 3..



425 307 013 0	Ø 100. Con-rod length 127 mm. With gaiter. With yoke. Total length 379 mm. Output force: 4320 N
425 307 018 0	Ø 100. Con-rod length 66 mm. With gaiter. With yoke. Total length 379 mm. Output force: 5000 N. Quick release device
425 311 004 0	Ø 65. Con-rod length 4 mm. Without yoke. Total length 142.5 mm. Port threads M 12x1.5. Output force: 530 N

6.13 Piston Cylinder 421/ 921 ...



921 002 000 0

421 021 030 0 Ø 65. Stroke 90. Bolt Ø 12**921 002 000 0** Piston diameter 76.2 mm. Stroke 110 mm. Output force 2000 N/ 4.5 bar. Total length 254 mm. Bolt Ø 12. With gaiter**921 003 000 0** Piston diameter 101.6 mm. Stroke 140 mm. Output force 3500 N/ 4.5 bar. Total length 307 mm. Bolt Ø 14. With gaiter**921 003 060 1** Type 4. Stroke 85 mm.**921 004 000 0** Piston diameter 127 mm. Stroke 140 mm. Output force 5500 N/ 4.5 bar. Total length 340 mm. Bolt Ø 14. With gaiter**921 004 007 1** Type 5. Stroke 120 mm.**921 006 000 0** Piston diameter 152.4 mm. Stroke 175 mm. Output force 7500 N/ 4.5 bar. Total length 371.5 mm. Bolt Ø 14. With gaiter

6.14 Slack Adjuster 433 5..



433 506 515 0

433 543 516 0

433 506 103 0 (GSK) Manual adjustment. Spline N42x1.5x26x9N DIN 5480. Offset in rotation direction 30°. Length of lever 145 mm. Number of holes: 1x Ø 14. Side of mounting:**433 506 514 0** (GSK) Manual adjustment. Spline N42x1.5x26x9H DIN 5480. Offset in shaft direction 56 mm. Length of lever 145mm. Number of holes: 1x Ø 14. Side of mounting: right**433 506 515 0** (GSK) Manual adjustment. Spline N 42x1.5x9H DIN 5480. Offset in shaft direction 56 mm. Length of lever 145 mm. Number of holes: 1x Ø 14. Side of mounting: left**433 543 516 0** (NAGS) Automatic adjustment. Spline A38x34 DIN 5482. Offset in shaft direction 35 mm. Length of lever 175 mm. Number of holes: 1x Ø 14. Side of mounting: right**433 543 517 0** (NAGS) Automatic adjustment. Spline A38x34 DIN 5482. Offset in shaft direction 35 mm. Length of lever 175 mm. Number of holes: 1x Ø 14. Side of mounting: left**433 576 502 0** (NAGS) Automatic adjustment. Spline N42x1.5x9H DIN 5480. Offset in shaft direction. Length of lever 145 mm. Number of holes: 1x Ø 17. Side of mounting: right**433 576 503 0** (NAGS) Automatic adjustment. Spline N42x1.5x26x9H DIN 5480. Offset in shaft direction 56 mm. Length of lever 145 mm. Number of holes: 1x Ø 14. Side of mounting: left

Foundation Brake

7.01 Disc Brake 40/ 640 ...

Disc Brake 1... VG



40 100 001	Type 1000 V-G. Front axle left. Exchange brake, without pads. Repair set of brake pads: 12 999 631VT. Vehicle Application: MAN (L2000, L20-25, L33-36)
40 100 002	Type 1000 V-G. Front axle right. Exchange brake, without pads. Repair set of brake pads: 12 999 631VT. Vehicle Application: MAN (L2000, L20-25, L33-36)
40 160 015	Type 1600 V-G. Front axle left. Repair set of brake pads: 12 999 665VT. Vehicle Application: Leyland/DAF (FA50, FA55)
40 160 016	Type 1600 V-G. Front axle right. Repair set of brake pads: 12 999 665VT. Vehicle Application: Leyland/DAF (FA50, FA55)
40 244 009	Type 244 VÖ, for front- and rear axle left. Replacement for: 40 244 001. Repair set of brake pads: 12 999 541VT. Vehicle Application: Mercedes (Sprinter 4,6t), VW (LT46)
40 244 010	Type 244 VÖ, for front- and rear axle right. Replacement for: 40 244 002. Repair set of brake pads: 12 999 541VT. Vehicle Application: Mercedes (Sprinter 4,6t), VW (LT46)
40 244 017	Type 244 VÖ, for front- and rear axle left. Repair set of brake pads: 12 999 541VT. Vehicle Application: Mercedes (Sprinter 4,6t), VW (LT46)
40 244 018	Type 244 VÖ, for front- and rear axle right. Repair set of brake pads: 12 999 541VT. Vehicle Application: Mercedes (Sprinter 4,6t), VW (LT46)
40 444 149	Type 444 F-Ö. Single-circuit. Front axle left. Repair set of brake pads: 12 999 165VT. Vehicle Application: Mercedes (T1 307/307D - 310/310D)
40 444 150	Type 444 F-Ö. Single-circuit. Front axle right. Repair set of brake pads: 12 999 165VT. Vehicle Application: Mercedes (T1 307/307D - 310/310D)
40 444 183	Type 444 F-Ö. Dual-circuit. Front axle left. Repair set of brake pads: 12 999 165VT. Vehicle Application: Mercedes (T1 207/207D - 210/210D)
40 444 184	Type 444 F-Ö. Dual-circuit. Front axle right. Repair set of brake pads: 12 999 165VT. Vehicle Application: Mercedes (T1 207/207D - 210/210D)
40 450 013	Type 450 F-Ö. Front axle left. Replacement for: 40 450 007. Repair set of brake pads: 12 999 563VT. Vehicle Application: IVECO (Daily 59-12T)
40 450 014	Type 450 F-Ö. Front axle right. Replacement for: 40 450 008. Repair set of brake pads: 12 999 563VT. Vehicle Application: IVECO (Daily 59-12T)
40 456 033	Type 456 F-Ö. Front axle left. Repair set of brake pads: 12 999 325VT. Vehicle Application: Leyland/DAF (45 Series, Roadrunner Range 6-8t)
40 456 034	Type 456 F-Ö. Front axle right. Repair set of brake pads: 12 999 325VT. Vehicle Application: Leyland/DAF (45 Series, Roadrunner Range 6-8t)
40 465 019	Type 465 F-Ö. Front axle left. Repair set of brake pads: 12 999 325VT. Vehicle Application: Leyland/DAF (45 Series, Roadrunner Range 8-11t)
40 465 020	Type 465 F-Ö. Front axle right. Repair set of brake pads: 12 999 325VT. Vehicle Application: Leyland/DAF (45 Series, Roadrunner Range 8-11t)

Disc Brake PAN 17, 40 175



40 175 ...

40 175 049	Type PAN 17, for front- and rear axle left. Exchange brake, without pads. Repair set of brake pads 12 999 782. Vehicle Application: MAN (L20-25, L33-36, L70-73, L2000, M2000-L)
40 175 050	Type PAN 17, for front- and rear axle right. Exchange brake, without pads. Repair set of brake pads 12 999 782. Vehicle Application: MAN (L20-25, L33-36, L70-73, L2000, M2000-L)
40 175 051	Type PAN 17, for front- and rear axle left. Replacement for: 40 175 027. Exchange brake, without pads: 40 175 049. Repair set of brake pads 12 999 782. Vehicle Application: MAN (L20-25, L33-36, L70-73, L2000, M2000-L)
40 175 052	Type PAN 17, for front- and rear axle right. Replacement for: 40 175 028. Exchange brake, without pads: 40 175 050. Repair set of brake pads 12 999 782. Vehicle Application: MAN (L20-25, L33-36, L70-73, L2000, M2000-L)
40 175 058	Type PAN 17, for front- and rear axle left. Exchange brake, without pads: 40 175 072. Repair set of brake pads: 12 999 698VT. Vehicle Application: IVECO (EuroCargo 120EL15, 18, 21)
40 175 059	Type PAN 17, for front- and rear axle right. Exchange brake, without pads: 40 175 073. Repair set of brake pads: 12 999 698VT. Vehicle Application: IVECO (EuroCargo 120EL15, 18, 21)
40 175 062	Type PAN 17, for front- and rear axle left. Exchange brake, without pads: 40 175 064. Repair set of brake pads: 12 999 703VT. Vehicle Application: Renault (Midlum 7-12 t)
40 175 063	Type PAN 17, for front- and rear axle right. Exchange brake, without pads: 40 175 065. Repair set of brake pads: 12 999 703VT. Vehicle Application: Renault (Midlum 7-12 t)
40 175 064	Type PAN 17, for front- and rear axle left. Exchange brake, without pads. Repair set of brake pads: 12 999 703VT. Vehicle Application: Renault (Midlum 7-12 t)
40 175 065	Type PAN 17, for front- and rear axle right. Exchange brake, without pads. Repair set of brake pads: 12 999 703VT. Vehicle Application: Renault (Midlum 7-12 t)
40 175 070	Type PAN 17, for front- and rear axle left. Exchange brake, without pads: 40 175 072. Repair set of brake pads: 12 999 743VT. Vehicle Application: DAF (LF45)
40 175 071	Type PAN 17, for front- and rear axle right. Exchange brake, without pads: 40 175 073. Repair set of brake pads: 12 999 743VT. Vehicle Application: DAF (LF45)
40 175 072	Type PAN 17, for front- and rear axle left. Exchange brake, without pads. Repair set of brake pads: 12 999 743VT. Vehicle Application: DAF (LF45)
40 175 073	Type PAN 17, for front- and rear axle right. Exchange brake, without pads. Repair set of brake pads: 12 999 743VT. Vehicle Application: DAF (LF45)
40 175 080	Type PAN 17, for front- and rear axle left. Replacement for: 40 175 027 / 051. Exchange brake, without pads: 40 175 049. Repair set of brake pads: 12 999 782. Vehicle Application: MAN (L20-25, L33-36, L70-73, L2000, M2000-L)
40 175 081	Type PAN 17, for front- and rear axle right. Replacement for: 40 175 028 / 052. Exchange brake, without pads: 40 175 050. Repair set of brake pads: 12 999 782. Vehicle Application: MAN (L20-25, L33-36, L70-73, L2000, M2000-L)

Disc Brake PAN 19, 40 195/ 640 195

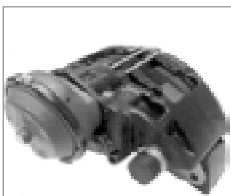


40 195 ...

40 195 001	Type PAN 19-1. Side of mounting left. Replacement: 40 195 017. Exchange brake, without pads: 40 195 037. Repair set of brake pads: 12 999 737VT. Vehicle Application: SAF (SKRB, SKRS, SKRZ 9019W)
40 195 002	Type PAN 19-1. Side of mounting right. Replacement: 40 195 018. Exchange brake, without pads: 40 195 038. Repair set of brake pads: 12 999 737VT. Vehicle Application: SAF (SKRB, SKRS, SKRZ 9019W)
40 195 009	Type PAN 19-2, for front- and rear axle left. Exchange brake, without pads: 40 195 021. Repair set of brake pads: 12 999 747VT. Vehicle Application: Renault (Midlum M113 14-16t)
40 195 010	Type PAN 19-2, for front- and rear axle right. Exchange brake, without pads: 40 195 022. Repair set of brake pads: 12 999 747VT. Vehicle Application: Renault (Midlum M113 14-16t)

40 195 017	Type PAN 19-1 Plus. Side of mounting left. Replacement for: 40 195 001. Exchange brake, without pads: 40 195 037. Repair set of brake pads: 12 999 737VT. Vehicle Application: SAF (SKRB, SKRS, SKRZ 9019W)
40 195 018	Type PAN 19-1 Plus. Side of mounting right. Replacement for: 40 195 002. Exchange brake, without pads: 40 195 038. Repair set of brake pads: 12 999 737VT. Vehicle Application: SAF (SKRB, SKRS, SKRZ 9019W)
40 195 021	Type PAN 19-2, for front- and rear axle left. Exchange brake, without pads. Repair set of brake pads: 12 999 747VT. Vehicle Application: Renault (Midlum M113 14-16t)
40 195 022	Type PAN 19-2, for front- and rear axle right. Exchange brake, without pads. Repair set of brake pads: 12 999 747VT. Vehicle Application: Renault (Midlum M113 14-16t)
40 195 037	Type PAN 19-1 Plus. Side of mounting left. Exchange brake, without pads. Repair set of brake pads: 12 999 737VT. Vehicle Application: Trailer
40 195 038	Type PAN 19-1 Plus. Side of mounting right. Exchange brake, without pads. Repair set of brake pads: 12 999 737VT. Vehicle Application: Trailer
40 195 043	Type PAN 19-1 Plus, for front- and rear axle left. Exchange brake, without pads: 40 195 045. Repair set of brake pads: 12 999 791. Vehicle Application: DAF (LF55)
40 195 044	Type PAN 19-1 Plus, for front- and rear axle right. Exchange brake, without pads: 40 195 046. Repair set of brake pads: 12 999 791. Vehicle Application: DAF (LF55)
40 195 045	Type PAN 19-1 Plus, for front- and rear axle left. Exchange brake, without pads. Repair set of brake pads: 12 999 791. Vehicle Application: DAF (LF55)
40 195 046	Type PAN 19-1 Plus, for front- and rear axle right. Exchange brake, without pads. Repair set of brake pads: 12 999 791. Vehicle Application: DAF (LF55)
640 195 068 0	Type PAN 19-1 Plus. Side of mounting left. Exchange brake, without pads: 640 195 071 0. Repair set of brake pads: 12 999 737VT. Vehicle Application: SAF Axles
640 195 069 0	Type PAN 19-1 Plus. Side of mounting right. Exchange brake, without pads: 640 195 072 0. Repair set of brake pads: 12 999 737VT. Vehicle Application: SAF Axles

Disc Brake PAN 22, 40 225/ 640 225



40 225 ...

40 225 003	Type PAN 22-2. Side of mounting left. Repair set of brake pads: 12 999 676VT. Vehicle Application: SMB Axles
40 225 004	Type PAN 22-2. Side of mounting right. Repair set of brake pads: 12 999 676VT. Vehicle Application: SMB Axles
40 225 007	Type PAN 22-1. Side of mounting left. Exchange brake, without pads: 40 225 015. Repair set of brake pads: 12 999 796. Vehicle Application: SAF (Axles SKRB/SKRS/SKRZ 9022/11222)
40 225 008	Type PAN 22-1. Side of mounting right. Exchange brake, without pads: 40 225 016. Repair set of brake pads: 12 999 796. Vehicle Application: SAF (Axles SKRB/SKRS/SKRZ 9022/11222)
40 225 011	Type PAN 22-1. Side of mounting left. Exchange brake, without pads: 40 225 015. Repair set of brake pads: 12 999 796. Vehicle Application: Trailer
40 225 012	Type PAN 22-1. Side of mounting right. Exchange brake, without pads: 40 225 016. Repair set of brake pads: 12 999 796. Vehicle Application: Trailer
40 225 015	Type PAN 22-1. Side of mounting left. Exchange brake, without pads. Repair set of brake pads: 12 999 796. Vehicle Application: Trailer
40 225 016	Type PAN 22-1. Side of mounting right. Exchange brake, without pads. Repair set of brake pads: 12 999 796. Vehicle Application: Trailer
640 225 022 0	Type PAN 22-1. Side of mounting left. Exchange brake, without pads: 640 225 025 0. Repair set of brake pads: 12 999 796. Vehicle Application: SAF Axles
640 225 023 0	Type PAN 22-1. Side of mounting right. Exchange brake, without pads: 640 225 026 0. Repair set of brake pads: 12 999 796. Vehicle Application: SAF Axles
640 225 025 0	Type PAN 22-1. Side of mounting left. Exchange brake, without pads. Repair set of brake pads: 12 999 796. Vehicle Application: SAF Axles
640 225 026 0	Type PAN 22-1. Side of mounting right. Exchange brake, without pads. Repair set of brake pads: 12 999 796. Vehicle Application: SAF Axles
640 225 030 0	Type PAN 22-1. Side of mounting left. Exchange brake, without pads: 640 225 040 0. Repair set of brake pads: 640 225 922 2. Vehicle Application: Schmitz Semi trailer
640 225 031 0	Type PAN 22-1. Side of mounting right. Exchange brake, without pads: 640 225 041 0. Repair set of brake pads: 640 225 922 2. Vehicle Application: Schmitz Semi trailer
640 225 040 0	Type PAN 22-1. Side of mounting left. Exchange brake, without pads. Repair set of brake pads: 640 225 922 2. Vehicle Application: Schmitz Semi trailer
640 225 041 0	Type PAN 22-1. Side of mounting right. Exchange brake, without pads. Repair set of brake pads: 640 225 922 2. Vehicle Application: Schmitz Semi trailer

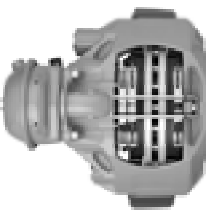
Disc Brake PAN 25, 640 250



640 250 ...

- 640 250 004 0** Type PAN 25, for front- and rear axle left. Repair set of brake pads: 640 250 921 2. Vehicle Application: Liebherr (Crane vehicle)
- 640 250 005 0** Type PAN 25, for front- and rear axle right. Repair set of brake pads: 640 250 921 2. Vehicle Application: Liebherr (Crane vehicle)

Disc Brake MAXX 22, 640 322



640 322 ...

- 640 322 004 0** Type MAXX 22. front axle / left. Exchange brake, without pads: 640 322 031 0. Repair set of brake pads: 640 322 933 2. Vehicle Application: MAN (TGX, TGS)
- 640 322 005 0** Type MAXX 22. front axle / right. Exchange brake, without pads: 640 322 032 0. Repair set of brake pads: 640 322 933 2. Vehicle Application: MAN (TGX, TGS)
- 640 322 007 0** Type MAXX 22. rear axle / left. Exchange brake, without pads: 640 322 034 0. Repair set of brake pads: 640 322 933 2. Vehicle Application: MAN (TGX, TGS)
- 640 322 008 0** Type MAXX 22. rear axle / right. Exchange brake, without pads: 640 322 035 0. Repair set of brake pads: 640 322 933 2. Vehicle Application: MAN (TGX, TGS)
- 640 322 031 0** Type MAXX 22. front axle / left. Exchange brake, without pads. Repair set of brake pads: 640 322 933 2
- 640 322 032 0** Type MAXX 22. front axle / right. Exchange brake, without pads. Repair set of brake pads: 640 322 933 2
- 640 322 034 0** Type MAXX 22. rear axle / left. Exchange brake, without pads. Repair set of brake pads: 640 322 933 2
- 640 322 035 0** Type MAXX 22. rear axle / right. Exchange brake, without pads. Repair set of brake pads: 640 322 933 2

7.07 Drum Brake 10 ...



10 270 258

10 360 077

10 360 105

10 410 837

10 410 849

10 500 784

10 500 789

- 10 270 258** Type 270x80. rear axle / right. repair set brake lining: 12 999 663VT. Replacement for: 10 270 211, ...246. Vehicle Application: Iveco (Daily 35-10T ... 49-12T)
- 10 270 259** Type 270x80. rear axle / left. repair set brake lining: 12 999 663VT. Replacement for: 10 270 212, ...247. Vehicle Application: Iveco (Daily 35-10T ... 49-12T)
- 10 310 009** Type 310x100 SM-Öm. rear axle / right. Hydraulic Pressure. repair set brake lining: 12 999 412VT. Vehicle Application: Iveco (Daily 59-12)
- 10 310 010** Type 310x100 SM-Öm. rear axle / left. Hydraulic Pressure. repair set brake lining: 12 999 412VT. Vehicle Application: Iveco (Daily 59-12)
- 10 315 059** Type 315x80 SM-Öm. rear axle / left, front axle / right. Hydraulic Pressure. Brake shoe with lining: 12 258 186. Vehicle Application: fork lifter

10 315 060	Type 315x80 SM-Öm. rear axle / right, front axle / left. Hydraulic Pressure. Brake shoe with lining: 12 258 187. Vehicle Application: fork lifter
10 360 077	Simplex, Type 360x170 ZE, front axle / left. Brake shoe with lining: 12 258 430VT. Vehicle Application: Alexander Dennis (Dart Bus)
10 360 078	Simplex, Type 360x170 ZE, front axle / right. Brake shoe with lining: 12 258 430VT. Vehicle Application: Alexander Dennis (Dart Bus)
10 360 079	Simplex, Type 360x170 ZE. rear axle / left. Brake shoe with lining: 12 258 430VT. Vehicle Application: Alexander Dennis (Dart Bus)
10 360 080	Simplex, Type 360x170 ZE. rear axle / right. Brake shoe with lining: 12 258 430VT. Vehicle Application: Alexander Dennis (Dart Bus)
10 360 097	Simplex, Type 360x170 ZE. rear axle / left. Brake shoe with lining: 12 999 469VT. Vehicle Application: Iveco (EuroCargo 115.14 ... 145.17)
10 360 098	Simplex, Type 360x170 ZE. rear axle / right. Brake shoe with lining: 12 999 469VT. Vehicle Application: Iveco (EuroCargo 115.14 ... 145.17)
10 360 105	Simplex, Type 360x170 ZE. rear axle / left. Brake shoe with lining: 12 999 469VT. Replacement for: 10 360 053, ...089. Vehicle Application: Iveco (EuroCargo 120E ... 320E)
10 360 106	Simplex, Type 360x170 ZE. rear axle / right. Brake shoe with lining: 12 999 469VT. Replacement for: 10 360 054, ...090. Vehicle Application: Iveco (EuroCargo 120E ... 320E)
10 410 837	Simplex, Type 410x180 ZE, front axle / left. Brake shoe with lining: 12 999 709VT. Replacement for: 10 410 763, ...613, ...802. Vehicle Application: Iveco (EuroTech 240E/260E, MP190 ... 720)
10 410 838	Simplex, Type 410x180 ZE, front axle / right. Brake shoe with lining: 12 999 709VT. Replacement for: 10 410 764, ...614, ...803. Vehicle Application: Iveco (EuroTech 240E/260E, MP190 ... 720)
10 410 839	Simplex, Type 410x200 ZE. rear axle / left. Brake shoe with lining: 12 999 711VT. Replacement for: 10 410 765, ...615, ...804. Vehicle Application: Iveco (EuroTech MP180E ... 440E, MP190 ... 720)
10 410 840	Simplex, Type 410x200 ZE. rear axle / right. Brake shoe with lining: 12 999 711VT. Replacement for: 10 410 766, ...616, ...805. Vehicle Application: Iveco (EuroTech MP180E ... 440E, MP190 ... 720)
10 410 849	Simplex, Type 410x180 ZE. Brake shoe with lining: 12 258 658VT. Vehicle Application: Liebherr, Krupp, Terex-Demag, Tadano-Faun (Crane vehicle)
10 410 850	Duplex, Type 410x180 ZE. Side of mounting left. Brake shoe with lining: 12 258 660VT. Vehicle Application: Liebherr, Krupp, Terex-Demag, Tadano-Faun (Crane vehicle)
10 410 851	Duplex, Type 410x180 ZE. Side of mounting right. Brake shoe with lining: 12 258 660VT. Vehicle Application: Liebherr, Krupp, Terex-Demag, Tadano-Faun (Crane vehicle)
10 500 783	Simplex, Type 500x160 ZE. Brake shoe with lining: 12 258 652VT. Vehicle Application: Liebherr, Krupp, Terex-Demag, Tadano-Faun (Crane vehicle)
10 500 784	Duplex, Type 500x180 DE. Side of mounting left. Brake shoe with lining: 12 258 651VT. Vehicle Application: Liebherr, Krupp, Terex-Demag, Tadano-Faun (Crane vehicle)
10 500 785	Duplex, Type 500x180 DE. Side of mounting right. Brake shoe with lining: 12 258 651VT. Vehicle Application: Liebherr, Krupp, Terex-Demag, Tadano-Faun (Crane vehicle)
10 500 789	Simplex, Type 500x120 ZE. Brake shoe with lining: 12 258 669VT. Vehicle Application: Liebherr, Krupp, Terex-Demag, Tadano-Faun (Crane vehicle)

7.08 Accessory Foundation Brake



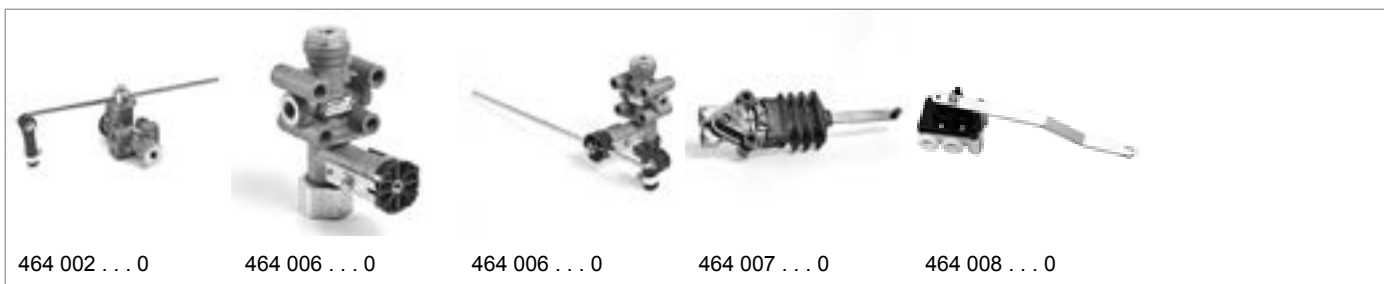
12 182 091 12 603 115VT 12 603 176VT 12 603 186VT 13 162 04 . 13 601 00 . 480 102 9 . . 2

12 182 091	Brake Lining Support for Disc Brake Type 230
12 258 184VT	Brake shoe with lining for Drum Brake Type 315x80
12 258 186VT	Brake shoe with lining for Drum Brake Type 315x80
12 258 187VT	Brake shoe with lining for Drum Brake Type 315x80
12 258 651VT	Brake shoe with lining for Drum Brake Type 500x180
12 258 669VT	Brake shoe with lining for Drum Brake Type 500x120
12 603 115VT	Adjuster automatic. Drum Brake 230x35
12 603 176VT	Adjuster automatic. Drum Brake 325x100
12 603 186VT	ABS/ASR C Generation, TÜV- Report. Drum Brake 270x80
12 603 187VT	ABS/ASR C Generation, TÜV- Report. Drum Brake 300x100
12 603 195VT	ABS/ASR C Generation, TÜV- Report. Drum Brake 325x80

12 739 075VT	Expander Unit. Simplex. Drum Brake 410x180/ 410x200
12 739 085VT	Expander Unit. Simplex. Drum Brake 500x120/ 500x160 / 410x180
12 999 755VT	Wear Indicator. Repair Kit. Disc Brake PAN 19-1 / PAN 19-1plus
12 999 792	Wear Indicator. Retrofit kit. Disc Brake Knorr (SB6/SN6, SB7/SN7/SK7)
12 999 797	Wear Indicator. Repair Kit. Disc Brake PAN 22-1
13 151 250	Pins for Drum Brake 325x100, 325x150
13 162 041	Brake Disc for Type 456 F-Ö
13 162 042	Brake Disc for Type 465 F-Ö
13 162 043	Brake Disc for Type 1600 V-G
13 601 001	Rivet Ø 15.5, Ø 8x16 for Drum Brake 360x170 ZE, 410x180 ZE, 410x200 ZE
13 601 002	Rivet Ø 18, Ø 10x17 for Drum Brake 410x140 ZG
13 601 005	Rivet Ø 18, Ø 10x21
18 534 004	Rivet Ø 5x10
18 534 007	Rivet Ø 6x12
480 102 920 2	Retrofit kit BVA. For Disc Brakes PAN 19-1/PAN 19-1plus. Vehicle Application: SAF Semi trailer
480 102 921 2	Retrofit kit BVA. For Disc Brakes PAN 19-1/PAN 19-1plus. Vehicle Application: SAF Drawbar
480 102 922 2	Retrofit kit BVA. For Disc Brakes Knorr SB6/SN6, SB7/SN7/SK7. Vehicle Application: SAF, BPW Semi trailer
480 102 923 2	Retrofit kit BVA. For Disc Brakes Knorr SB6/SN6, SB7/SN7/SK7. Vehicle Application: SAF, BPW Drawbar
480 102 924 2	Retrofit kit BVA. For Disc Brakes PAN 22-1. Vehicle Application: SAF Semi trailer
480 102 925 2	Retrofit kit BVA. For Disc Brakes PAN 22-1. Vehicle Application: SAF Drawbar
640 175 521 2	Tool Set. Type: Guiding Bolt/Sealing. For Disc Brake PAN 17 / PAN 17 CWS. 640 195 522 2 additionally required
640 195 521 2	Tool Set. Type: Guiding Bolt/Sealing. For Disc Brake PAN 19-1/ 19-2/ 22-1/ 25. 640 195 522 2 additionally required
640 195 522 2	Tool Set. Type: Basic . For all Air Disc Brakes
640 322 522 2	Tool Set. Type: Guiding Bolt/Sealing. For Disc Brake MAXX 22. 640 195 522 2 additionally required

Control Devices Air Suspension

8.01 Levelling Valve 464 ...



464 002 ... 0	464 006 ... 0	464 006 ... 0	464 007 ... 0	464 008 ... 0
464 002 311 0	M 12x1.5. Nominal diameter 2x Ø 1.3. 2-stage. Link Connection: 2x 180°. With lever			
464 002 330 0	M 12x1.5. Nominal diameter 2x Ø 1.3. 2-stage. Link Connection: 4x 90°. With lever			
464 002 332 0	M 12x1.5. Nominal diameter 2x Ø 1.3. 2-stage. Link Connection: 2x 180°. Without lever			
464 002 333 0	M 12x1.5. Nominal diameter 2x Ø 1.3. 2-stage. Link Connection: 4x 90°. With lever. Link Connection			
464 002 338 0	M 12x1.5. Nominal diameter 2x Ø 1.0. 2-stage. Link Connection: 4x 90°. With lever			
464 002 440 0	M 12x1.5. Nominal diameter 2x Ø 3.0. 2-stage. Link Connection: 4x 90°. With lever			
464 002 530 0	M 12x1.5. Nominal diameter 2x Ø 1.3. 2-stage. Link Connection: 4x 90°. Without lever			
464 002 532 0	M 12x1.5. Nominal diameter 2x Ø 1.3. 1-stage. Link Connection: 2x 180°. Without lever			
464 004 000 0	M 10x1.0. Stroke max. 25.4 mm. With lever			
464 006 000 0	M 12x1.5. Nominal diameter 2x Ø 3.0. 2-stage. Link Connection: 4x 90°. Without lever. Cross throttle. Exhaust M 12x1.5			
464 006 002 0	M 12x1.5. Nominal diameter 2x Ø 3.0. 2-stage. Link Connection: 4x 90°. With lever. Cross throttle. Replacement for: 464 006 001 0			
464 006 003 0	¼-18 NPTF. Nominal diameter 2x Ø 3.0. 2-stage. Link Connection: 4x 90°. With lever. Cross throttle			
464 006 005 0	¼-18 NPTF. Nominal diameter 2x Ø 3.0. 2-stage. Link Connection: 4x 90°. Without lever. Cross throttle			
464 006 011 0	M 12x1.5. Nominal diameter 2x Ø 3.0. 2-stage. Link Connection: 4x 90°. Without lever. Cross throttle			
464 006 012 0	M 12x1.5. Nominal diameter 2x Ø 3.0. 2-stage. Link Connection: 4x 90°. With lever. Cross throttle			
464 006 100 0	Levelling valve with height limitation. M 12x1.5. Nominal diameter 2x Ø 3.0. 2-stage. Link Connection: 4x 90°. With lever. Cross throttle			
464 006 101 0	Levelling valve with height limitation. M 12x1.5. Nominal diameter 2x Ø 3.0. 2-stage. Link Connection: 4x 90°. With lever. Cross throttle. Black			
464 006 102 0	M 12x1.5. Nominal diameter 2x Ø 3.0. 2-stage. Link Connection: 4x 90°. With lever. Cross throttle. Push-in fitting			
464 006 201 0	Levelling valve with height limitation. M 12x1.5. Nominal diameter 2x Ø 3.0. 2-stage. Link Connection: 4x 90°. With lever. Cross throttle. Push-in fitting			
464 007 001 0	Cab Levelling Valve. Push-in fitting Ø 6 mm. stroke of lever ±30. Over stroke 70			
464 007 002 0	Cab Levelling Valve. M 10x1. stroke of lever ±30. Over stroke 70			
464 007 003 0	Cab Levelling Valve. M 10x1. stroke of lever ±30. Over stroke 70			
464 007 004 0	Cab Levelling Valve. Push-in fitting Ø 6.35 mm (U.S.). stroke of lever ±30. Over stroke 70			
464 007 006 0	Cab Levelling Valve. Push-in fitting Ø 6 mm. stroke of lever ±40.5. Over stroke 102			
464 007 007 0	Cab Levelling Valve. Push-in fitting Ø 6 mm. stroke of lever ±25.2. Over stroke 57			
464 007 008 0	Cab Levelling Valve. Push-in fitting Ø 6 mm. stroke of lever ±40.5. Over stroke 102			
464 007 009 0	Cab Levelling Valve. Push-in fitting Ø 6 mm. stroke of lever ±8°. Without lever			
464 007 010 0	Cab Levelling Valve. M 10x1. stroke of lever ±8°30'. Over stroke 19°			
464 007 011 0	Cab Levelling Valve. M 10x1. stroke of lever ±30. Over stroke 70			
464 007 012 0	Cab Levelling Valve. Push-in fitting Ø 6 mm. stroke of lever ±40.5. Over stroke 102			
464 007 013 0	Cab Levelling Valve. Push-in fitting Ø 6 mm. stroke of lever ±30. Over stroke 70			
464 007 014 0	Cab Levelling Valve. M 10x1. stroke of lever ±30. Over stroke 70			
464 007 015 0	Cab Levelling Valve. Push-in fitting Ø 6 mm. stroke of lever ±35. Over stroke 87			
464 007 018 0	Cab Levelling Valve. Push-in fitting Ø 6 mm. stroke of lever ±3°. Without lever			
464 007 019 0	Cab Levelling Valve. M 10x1. stroke of lever ±35. Over stroke 80			
464 007 020 0	Cab Levelling Valve. Push-in fitting Ø 6 mm. stroke of lever ±40.5. Over stroke 102			
464 007 021 0	Cab Levelling Valve. Push-in fitting Ø 6 mm. stroke of lever ±30. Over stroke 43			
464 007 022 0	Cab Levelling Valve. Push-in fitting Ø 6 mm. stroke of lever ±30. Over stroke 70			
464 007 023 0	Cab Levelling Valve. Push-in fitting Ø 6 mm. stroke of lever ±30. Over stroke 70			
464 008 005 0	M 12x1.5. stroke of lever ±50. Quick Venting Valve. Length of lever 200 mm			
464 008 010 0	¼" NPTF. stroke of lever ±50. Quick Venting Valve. Length of lever 200 mm			
464 008 011 0	¼" NPTF. stroke of lever ±50. Quick Venting Valve. Length of lever 200 mm			

8.02 Linkage 433 ...



433 401 003 0

433 401 006 0

433 401 003 0 For Levelling Valve / ECAS**433 401 006 0** For Levelling Valve / ECAS

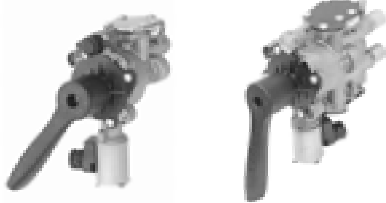
8.03 Rotary Slide Valve 463 032



463 032 020 0

463 032 020 0 Port 1 = M 16x1.5**463 032 023 0** Port 1 = M 12x1.5, without 23/24. Handle 122 mm**463 032 120 0** Port 1 = M 16x1.5. Auto-stop. Handle 122 mm**463 032 130 0** Port 1 = M 16x1.5. Auto-stop. Handle 171 mm**463 032 220 0** Port 1 = M 16x1.5. Auto-stop. Handle 122 mm. Push-in fitting Ø 8x1

8.04 TASC 463 090

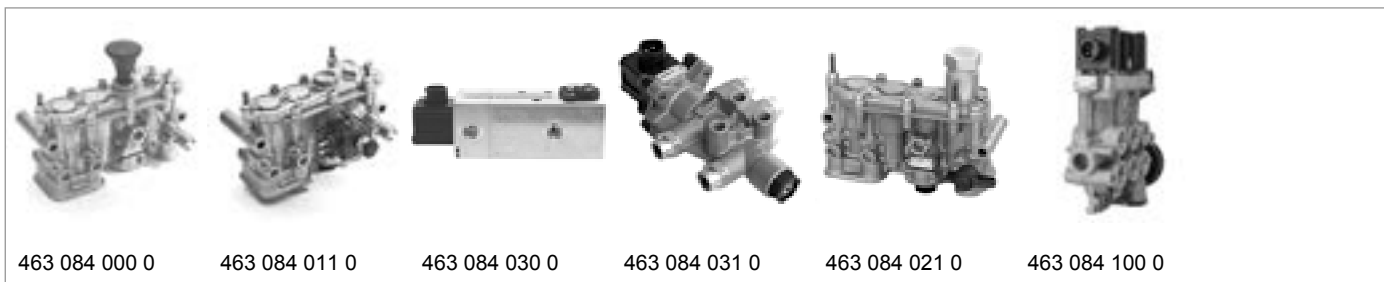


463 090 012 0

463 090 021 0

Part number	Type	Port	Function	Comments
463 090 012 0	Single-circuit	M 12×1.5; M 16×1.5	RTR, Locking in Lower	
463 090 020 0	Dual-circuit	Ø 8×1; Ø 12×1.5 Pipe	RTR, Locking in Lower	with test connection
463 090 021 0	Dual-circuit	Ø 8×1; Ø 12×1.5 Pipe	RTR, Locking in Lower	
463 090 023 0	Dual-circuit	M 12×1.5; M 16×1.5	RTR, Locking in Lower	
463 090 123 0	Dual-circuit	M 12×1.5; M 16×1.5	RTR, Deadman	

8.05 Lift Axle Control Valve 463 084



463 084 000 0	Actuation manually operated. M 16x1.5. Switching pressure: 4.0 bar. Mounting max. 5 mm
463 084 001 0	Actuation manually operated. M 16x1.5. Switching pressure: 4.0 bar. Mounting max. 12 mm
463 084 003 0	Actuation manually operated. M 16x1.5. Switching pressure: 3.7 bar. Mounting max. 5 mm
463 084 010 0	Electrical actuation, 24 V, M 27x1. Ports: M 16x1.5. Mounting max. 5 mm
463 084 011 0	Electrical actuation, 24 V, M 27x1. Ports: M 16x1.5. Mounting max. 12 mm
463 084 020 0	Actuation automatic. M 16x1.5. Switching pressure With raise/lower: 2.5 bar/4.5 bar. Mounting max. 5 mm
463 084 020 2	Air Reservoir, M 16x1.5. Container capacity 1 l. Plastic
463 084 021 0	Actuation automatic. M 16x1.5. Switching pressure With raise/lower: 2.5 bar/4.5 bar. Mounting max. 10 mm
463 084 030 0	Replacement: 463 084 031 0
463 084 031 0	1-circuit. automatic. 24 V. Bayonet (DIN). Ports: M 16x1.5. For Trailer EBS, ECAS
463 084 041 0	Like 463 084 031 0. Push-in fitting 8x1
463 084 042 0	Like 463 084 031 0. Push-in fitting 12x1.5
463 084 050 0	1-circuit. automatic. 12 V. Bayonet (DIN). Ports: 3/8"-18NPTF. For Trailer EBS, ECAS
463 084 100 0	Dual-circuit. Pulse-controlled. 24 V. Bayonet (DIN), with silencer. For Trailer EBS, ECAS, Immobilizer
563 446 931 0	M 14x1.5. Nominal diameter 7 mm. Control port M 10x1 & Push button. 3/2 Directional Control Valve

Electronic control of air suspension

9.01 ECAS ECU

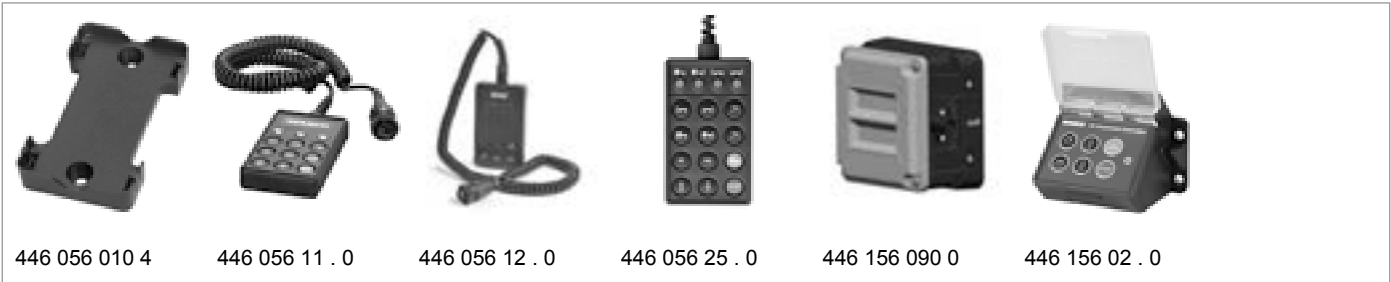


446 055 046 0 446 055 065 0 446 055 311 0 446 170 025 0 446 170 207 0 474 100 001 0 446 170 218 0

446 055 027 0	Truck 4x2 A. Connector pins: 25. Replacement: 446 055 303 0 (RVI), 446 055 307 0 (Iveco)
446 055 046 0	Truck 6x2 A. Connector pins: 35. Front axle, Rear axle, Control lifting axle. max number of Height Sensor: 3. Vehicle Application: Mercedes
446 055 051 0	Bus 6x2 A. Connector pins: 35. Alternative: 446 055 503 0
446 055 065 0	Trailer. Connector pins: 46. Front axle, Rear axle, Control lifting axle. max number of Height Sensor: 3. Connection: VCS I
446 055 066 0	Trailer. Connector pins: 46. Front axle, Rear axle, Control lifting axle. max number of Height Sensor: 3. Connection: EBS, VCS II
446 055 301 0	Truck 4x2 Ratio. Connector pins: 25. Front axle, Rear axle. max number of Height Sensor: 3. Vehicle Application: MAN
446 055 307 0	Truck 4x2 Ratio. Connector pins: 25. Front axle, Rear axle. max number of Height Sensor: 3. Vehicle Application: Iveco
446 055 311 0	Truck 4x2 Ratio. Connector pins: 25. Front axle, Rear axle. max number of Height Sensor: 3. Diagnostic Connection: KWP 2000. Vehicle Application: DAF
446 055 312 0	Truck 4x2 Ratio. Connector pins: 25. Front axle, Rear axle. max number of Height Sensor: 3. Diagnostic Connection: KWP 2000. Vehicle Application: DAF
446 055 402 0	Truck 6x2 DV. Connector pins: 35. max number of Height Sensor: 3. max number of press. sensors: 5. Vehicle Application: Iveco
446 055 403 0	Truck 6x2 Ratio. Connector pins: 35. max number of Height Sensor: 3. max number of press. sensors: 1. Vehicle Application: RVI
446 055 405 0	Truck 6x2 Ratio. Connector pins: 35. max number of Height Sensor: 3. max number of press. sensors: 2. Vehicle Application: DAF
446 055 406 0	Truck 6x2 DV. Connector pins: 35. max number of Height Sensor: 3. max number of press. sensors: 3. Vehicle Application: Scania
446 055 407 0	Truck 6x2 DV. Connector pins: 35. max number of Height Sensor: 2. max number of press. sensors: 3. Vehicle Application: Nissan Diesel
446 055 408 0	Truck 6x2 DV. Connector pins: 35. max number of Height Sensor: 3. max number of press. sensors: 4. Vehicle Application: Mitsubishi
446 055 450 0	Truck 4x2 S2000. 12 V. Connector pins: 35. max number of Height Sensor: 2. max number of press. sensors: 1. Vehicle Application: Iveco
446 055 503 0	Bus 4x2. Connector pins: 35. max number of Height Sensor: 3. max number of press. sensors: 1. Kneeling function
446 055 506 0	Bus. Connector pins: 35. max number of Height Sensor: 3. max number of press. sensors: 1. Kneeling function. Vehicle Application: Nissan Diesel
446 120 023 0	Trailer 6x0. Connector pins: 46. Set with EBS wiring. Front axle, Rear axle, Control lifting axle
446 170 003 0	Truck 4x2, CAN1. Connector pins: 18/15. max number of Height Sensor: 3. Vehicle Application: MAN TGA
446 170 024 0	Replacement: 446 170 026 0
446 170 025 0	Truck 4x2, CAN1. Connector pins: 18/15. max number of Height Sensor: 3. Replacement for: 446 170 026 0
446 170 053 0	Truck 6x2, CAN1. Connector pins: 18/15. max number of Height Sensor: 3. max number of press. sensors: 3
446 170 054 0	Replacement: 446 170 055 0
446 170 055 0	Truck 6x2, CAN1. Connector pins: 18/15. max number of Height Sensor: 3. max number of press. sensors: 3
446 170 084 0	Bus 4x2, CAN1. Connector pins: 18/15. max number of Height Sensor: 3. max number of press. sensors: 1. Kneeling function
446 170 207 0	Truck 4x2, CAN2. Connector pins: 18/15. max number of Height Sensor: 3. max number of press. sensors: 3
446 170 208 0	Truck/Bus 6x2, CAN2. Connector pins: 18/15/9. max number of Height Sensor: 3. max number of press. sensors: 6
446 170 209 0	Truck 4x2, CAN2. Connector pins: 18/15. max number of Height Sensor: 1. max number of press. sensors: 1
446 170 210 0	Bus 4x2/6x2/6x4, CAN2. Connector pins: 18/15/9. max number of Height Sensor: 4. max number of press. sensors: 5. Kneeling function
446 170 211 0	Truck 4x2, CAN2. Connector pins: 18/15. max number of Height Sensor: 3. Replacement for: 446 170 201 0
446 170 212 0	Truck 6x2, CAN2. Connector pins: 18/15/9. max number of Height Sensor: 3. max number of press. sensors: 5. Replacement for: 446 170 202 0
446 170 218 0	Truck 4x2, CAN2. Connector pins: 18/15. max number of Height Sensor: 2
446 170 219 0	Truck 6x2, CAN2. Connector pins: 18/15/9. max number of Height Sensor: 3. max number of press. sensors: 6
474 100 001 0	ELM - Electronic Air Suspension Module for Trailers

Please note that devices for replacement have to be calibrated or parameterised. Training and diagnosis are required.

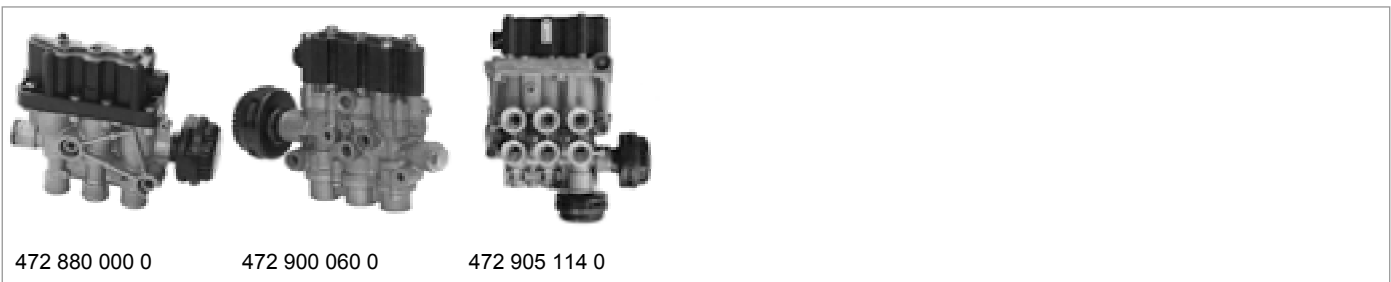
9.02 ECAS Remote Control Unit 446 .56



446 056 010 4 446 056 11 . 0 446 056 12 . 0 446 056 25 . 0 446 156 090 0 446 156 02 . 0

446 056 010 4	Support for ECAS Remote Control Unit
446 056 116 0	ELM Remote Control . Partial air suspension. Connector pins: 9 CPC. Alternative: 446 056 117 0
446 056 117 0	Universal type. Full air suspension. Control lifting axle. Memory. Connector pins: 9 CPC
446 056 119 0	ECAS Remote Control Unit. Partial air suspension. Memory. Connector pins: 4 CPC. Alternative: 446 056 120 0
446 056 120 0	Universal type. Full air suspension. Memory. Connector pins: 4 CPC
446 056 124 0	ECAS Remote Control Unit. Full air suspension. Control lifting axle. Memory. Connector pins: 9 CPC. Alternative: 446 056 117 0
446 056 125 0	Universal type. Partial air suspension. Memory. 12 V. Connector pins: 9 CPC
446 056 127 0	ECAS Remote Control Unit. Partial air suspension. Memory. Connector pins: 9 CPC. Alternative: 446 056 117 0
446 056 128 0	ECAS Remote Control Unit. Full air suspension. Memory. Connector pins: 9 CPC. Alternative: 446 056 117 0
446 056 129 0	ECAS Remote Control Unit. Partial air suspension. Memory. Connector pins: 9 CPC. Alternative: 446 056 136 0
446 056 130 0	Universal type. Full air suspension. Memory. Connector pins: 9 CPC
446 056 132 0	ECAS Remote Control Unit. Partial air suspension. Memory. Connector pins: 9 CPC. Alternative: 446 056 117 0
446 056 133 0	ECAS Remote Control Unit. Partial air suspension. Memory. Connector pins: 6 (Mercedes). Alternative: 446 056 334 0
446 056 134 0	Universal type. Full air suspension. Memory. Connector pins: 4 (Mercedes). Replacement: 446 056 334 0
446 056 135 0	ECAS Remote Control Unit. Partial air suspension. Memory. Connector pins: 9 CPC. Alternative: 446 056 136 0
446 056 136 0	Universal type. Partial air suspension. Memory. Connector pins: 9 CPC. Alternative: 446 056 117 0
446 056 137 0	Universal type. Full air suspension. Memory. Connector pins: 9 CPC. Alternative: 446 056 117 0
446 056 138 0	ECAS Remote Control Unit. Partial air suspension. Memory. Connector pins: 4 (MAN). Alternative: 446 056 139 0
446 056 139 0	Universal type. Full air suspension. Memory. Connector pins: 4 (MAN)
446 056 141 0	ECAS Remote Control Unit. Full air suspension. Memory. Connector pins: 9 CPC. Alternative: 446 056 137 0
446 056 250 0	Universal type. Full air suspension. Control lifting axle/Continuous. Memory
446 056 254 0	Universal type. Full air suspension. Control lifting axle/Continuous. Memory
446 056 333 0	Universal type. Partial air suspension. Memory. Connector pins: 6 (Mercedes)
446 056 334 0	Universal type. Full air suspension. Memory. Connector pins: 6 (Mercedes)
446 156 021 0	ECAS control box. Trailer EBS. ECAS . ELM.
446 156 022 0	ECAS control box. Trailer EBS. ECAS . Control lifting axle
446 156 023 0	ECAS control box. Trailer EBS. ECAS . Control lifting axle. Drawbar
446 156 090 0	Battery box ECAS, without Battery. Application: ECAS Trailer (with ELEX and TEBS E2)

9.03 ECAS Solenoid Valve 472 ...



472 880 000 0 472 900 060 0 472 905 114 0

Part number	Cross throttle	Silencer	Axles	Port	Electrical connection	Comments	Replacement for
472 880 000 0	no	1	RA	Voss	4.1 Bayonet		472 880 060 0
472 880 001 0	no	1	RA	Voss	4.1 Bayonet		472 880 053 0

Part number	Cross throttle	Silencer	Axles	Port	Electrical connection	Comments	Replacement for
472 880 020 0	yes	1	FA	Voss	3.6 Bayonet		472 900 054 0
472 880 021 0	yes	-	FA	Voss	2.1 Bayonet		472 900 058 0
472 880 024 0	yes	1	FA	Voss	3.6 Bayonet		
472 880 030 0	yes	1	RA	Voss	4.2 Bayonet		472 900 055 0
472 880 050 0	yes	1	RA, FA	Voss	2x 4.1 Bayonet		472 900 057 0
472 880 061 0	no	1	FA	Voss	3.6, 4.2 Bayonet	Kneeling	472 900 066 0
472 880 064 0	no	1	FA	Voss	3.6, 4.1 Bayonet	Kneeling, 3/2 valve	472 900 066 0
472 880 103 0	no	1	RA, LA	Voss	A2-4.1, A1-4.1 Bayonet		472 900 114 0
472 900 001 0	no	1	RA	Voss	3x M 27x1		472 900 000 0
472 900 021 0	yes	-	FA	Voss	M 27x1		
472 900 050 0	yes	1	RA, FA	M 22x1.5	6x M 27x1	Kneeling	
472 900 053 0	no	1	RA	Voss	4.1 Bayonet		472 900 001 0
472 900 054 0	yes	1	FA	Voss	3.6 Bayonet		
472 900 055 0	yes	1	RA	Voss	4.2 Bayonet		472 900 030 0
472 900 056 0	yes	1	RA, FA	Voss	4.1, 4.2, 3.6 Bayonet	Kneeling	
472 900 057 0	yes	1	RA, FA	Voss	3.6, 4.1 Bayonet		
472 900 058 0	yes	-	FA	Voss	2.1 Bayonet		
472 900 060 0	no	1	RA	Voss	4.1 Bayonet		
472 900 061 0	yes	1	RA	Voss	3.1 Bayonet		
472 900 062 0	no	-	RA	Voss	4.1 Bayonet		
472 900 063 0	no	1	RA	M 22x1.5	4.1 Bayonet		
472 900 065 0	yes	1	RA	M 22x1.5	4.2 Bayonet		
472 900 110 0	no	1	RA, TA	Voss	4.1, 4.2 Bayonet		472 900 105 0
472 900 112 0	no	-	RA, LA	Voss	4.1, 3.1 Bayonet		
472 900 113 0	no	-	RA, LA/TA	Voss	2x 4.1 Bayonet		
472 900 114 0	no	1	RA, LA	Voss	2x 4.1 Bayonet		472 900 104 0
472 905 111 0	no	1	RA, LA/TA	Voss	4.2, 4.1 Bayonet		472 905 107 0
472 905 114 0	yes	2	RA, LA/TA	Voss	4.1, 4.2 Bayonet		472 905 109 0
472 905 116 0	no	1	RA, LA/TA	Voss	4.2, 4.1 Bayonet		472 905 110 0

RA - rear axle; FA front axle; LA lifting axle; TA tag axle

9.04 ECAS Height Sensor 441 050



433 401 006 0	For Levelling Valve / ECAS
441 050 006 0	Bayonet. Without lever
441 050 008 0	M 24x1. Without lever
441 050 010 0	M 27x1. Without lever
441 050 011 0	Bayonet DIN 72585-A1-2.1-Sn/K2. Without lever
441 050 012 0	Bayonet DIN 72585-A1-2.1-Sn/K2. Without lever. Temperature not compensated
441 050 013 0	Bayonet DIN 72585-A1-2.1-Sn/K2. Without lever. Temperature not compensated
441 050 100 0	With lever. Bayonet DIN 72585-A1-2.1-Sn/K2. Temperature not compensated
441 050 120 0	With lever. Bayonet DIN 72585-A1-2.1-Sn/K2. Temperature not compensated
441 050 121 0	With lever. Bayonet DIN 72585-A1-2.1-Sn/K2. Temperature not compensated
441 050 123 0	With lever. Bayonet DIN 72585-A1-2.1-Sn/K2. Temperature not compensated
441 050 530 0	With ECAS sensor link. Plug, Number of Pins: 2. Temperature not compensated. Left

441 050 531 0	With ECAS sensor link. Plug, Number of Pins: 2. Temperature not compensated. Right
441 050 711 2	Link Connection. Length 209 mm. Cross section Ø 6
441 050 712 2	Link Connection. Length 289 mm. Cross section Ø 6
441 050 713 2	Link Connection. Length 299 mm. Cross section Ø 6
441 050 714 2	Link Connection. Length 323 mm. Cross section Ø 6
441 050 718 2	Lever ECAS Height Sensor / ELM. Length 225 / 250 / 275 mm. Cross section 14x3

9.05 Cable Air Suspension

Part number	Appli-cation	Length	Connection	Electrical connection	Comments
449 113 120 0	TCE	12 m	Power	15-pin	ISO 7638 Connector
449 121 120 0	TCE	12 m	Power	15-pin	bared ends
449 336 030 0	T ECAS	3 m	VCS II (Power+ Diag)		6-pin, Diode
449 337 328 0	T ECAS	3 / 12 m	VCS II (Power+ Diag) / Mod	ISO 15170-B1-3.1-Sn/K1	6-pin, Diode
449 340 153 0	ELM	6 / 3 m	Diag / VCS II		Diag: 446 300 329 2
449 348 020 0	TCE	2 m	T EBS E		
449 354 253 0	ELM	6 / 6 m	Diag / VCS I		Diag: 446 300 329 2
449 391 075 0	TCE	7.5 m	X23 Port Lighting	15-pin	bared ends
449 422 050 0	T ECAS	5 m	ECAS Solenoid Valve	ISO 15170-B1-3.1-Sn/K1	PG 11
449 422 100 0	T ECAS	10 m	ECAS Solenoid Valve	ISO 15170-B1-3.1-Sn/K1	PG 11
449 422 150 0	T ECAS	15 m	ECAS Solenoid Valve	ISO 15170-B1-3.1-Sn/K1	PG 11
449 517 060 0	T ECAS	6 m	Battery box ECAS		
449 620 156 0	T ECAS	10 m	Diag / VCS II		
449 621 010 0	T ECAS	1 m	Diagnostic connection		PG 11
449 621 080 0	T ECAS	8 m	Diagnostic connection		PG 11
449 632 015 0	T ECAS	1.5 m	ECAS Remote Control Unit		PG 11
449 632 050 0	T ECAS	5 m	ECAS Remote Control Unit		PG 11
449 632 080 0	T ECAS	8 m	ECAS Remote Control Unit		PG 11
449 633 060 0	ELM	6 m	ECAS Remote Control Unit		
449 637 050 0	T ECAS	5 m	ECAS control box		
449 638 060 0	ELM	6 m	ECAS control box		
449 732 100 0	T ECAS	10 m	Pressure Sensor		
449 742 050 0	T ECAS	5 m	ECAS Height Sensor	ISO 15170-B1-2.1-Sn/K1	PG 11
449 742 100 0	T ECAS	10 m	ECAS Height Sensor	ISO 15170-B1-2.1-Sn/K1	PG 11
449 742 150 0	T ECAS	15 m	ECAS Height Sensor	ISO 15170-B1-2.1-Sn/K1	PG 11
894 601 038 2	T ECAS	5 m	Solenoid Valve	Bayonet (DIN)	PG 11
894 604 215 2	T ECAS	5 m	Solenoid Valve	Kostal M 27x1	PG 11

9.06 TCE 446 122



446 122 001 0	TCE ECU
446 122 400 0	Ultrasonic Sensor
446 156 020 0	ECAS control box. Control lifting axle. TCE

Air Spring, Shock Absorber

10.01 Air Spring 896 .../ 951...



896 130 ...

951 811 ...

951 812 ...

951 814 ...

Part number	Type	Diameter	Height	Application	Comments
896 130 105 4	Air bellow	Ø 240	340	BPW, DC, DAF, IVECO, RVI, MAN, VOLVO, Neoplan	
896 130 106 4	Air bellow	Ø 240	460	BPW, DC, IVECO, MAN, VOLVO	
896 130 110 4	Air bellow	Ø 230	420	DC, IVECO, MAN, RVI, VOLVO	
896 130 111 4	Air bellow	Ø 230	445	IVECO, MAN	
896 130 117 4	Air bellow	Ø 240	390	Schmitz-Trailer, IVECO, MAN, VOLVO, Neoplan	
896 130 119 4	Air bellow	Ø 240	460	MAN	
896 130 120 4	Air bellow	Ø 225	345	VOLVO	
896 130 121 4	Air bellow	Ø 210	395	IVECO	
896 130 124 4	Air bellow	Ø 210	417	RVI, IVECO	
896 130 146 4	Air bellow	Ø 240	370	Buses	
896 130 153 4	Air bellow	Ø 210	465	MAN	
951 811 002 0	Air Spring	Ø 260	max. 632	Volvo	
951 811 005 0	Air Spring	Ø 280	max. 502	Volvo	
951 811 014 0	Air Spring	Ø 262	max. 274	Meritor, Granning, Weweler, Hendrickson	
951 811 106 0	Air Spring	Ø 295	max. 612	Meritor	with rolling-of piston
951 811 111 0	Air Spring	Ø 295	max. 612	Meritor, Weweler, Mercedes Axles	with rolling-of piston
951 811 700 0	Air Spring	Ø 240	max. 520	BPW 30	
951 811 702 0	Air Spring	Ø 295	max. 612	BPW 30	with rolling-of piston
951 811 703 0	Air Spring	Ø 240	max. 423	BPW 30K	
951 811 713 0	Air Spring	Ø 295	max. 564	SAF E5 3.229.0007.02	with rolling-of piston
951 811 714 0	Air Spring	Ø 295	max. 564	SAF E5 3.229.0029.00	with rolling-of piston
951 811 743 0	Air Spring	Ø 305	max. 700	BPW	with rolling-of piston
951 811 762 0	Air Spring	Ø 305	max. 697	BPW	with rolling-of piston
951 811 763 0	Air Spring	Ø 315	max. 557		with rolling-of piston
951 811 772 0	Air Spring	Ø 320	max. 610	SMB/ Fruehauf	with rolling-of piston
951 811 773 0	Air Spring	Ø 300	max. 560	FRUEHAUF/SMB, NEWAY	
951 812 701 0	Air Spring	Ø 332	max. 639	Montenegro, Samro	with rolling-of piston
951 812 702 0	Air Spring	Ø 332	max. 639	Fruehauf UJB 0203	with rolling-of piston
951 812 711 0	Air Spring	Ø 305	max. 440	DAF 388167 -95series	with rolling-of piston
951 812 712 0	Air Spring	Ø 305	max. 440	DAF 388165	with rolling-of piston
951 812 721 0	Air Spring	Ø 332	max. 639	Fruehauf, Trailor, Samro, Trouillet	with rolling-of piston
951 812 749 0	Air Spring	Ø 300	max. 700	Weweler	with rolling-of piston
951 812 762 0	Air Spring	Ø 300	max. 491	Volvo FH12	with rolling-of piston
951 813 150 0	Air Spring	Ø 348	max. 638	Hendrickson, DC	with rolling-of piston
951 813 711 0	Air Spring	Ø 325	max. 662	RVI Magnum/ Premium	with rolling-of piston
951 814 705 0	Air Spring	Ø 360	max. 655	SAF, Daf Coach, Hendrickson, Kässbohrer, Meritor	with rolling-of piston
951 814 708 0	Air Spring	Ø 310	max. 553	BPW 36	
951 814 712 0	Air Spring	Ø 390	max. 708	BPW 36	with rolling-of piston
951 814 716 0	Air Spring	Ø 360	max. 751	Trouillet, York	with rolling-of piston
951 814 748 0	Air Spring	Ø 390	max. 714	BPW 36, m. mehrteiligen Kolben	with rolling-of piston

Part number	Type	Diameter	Height	Application	Comments
951 814 756 0	Air Spring	Ø 390	max. 708	Gigant	with rolling-of piston
951 814 757 0	Air Spring	Ø 390	max. 564	BPW 36 K	with rolling-of piston
951 895 050 0	Air Spring	Ø 285	max. 482	DC ACTROS	with rolling-of piston
951 899 001 0	Air Spring	Ø 340	max. 400	SMB, Lohr, GT	with rolling-of piston

10.02 Shock Absorber 438 60.



438 600 ...

Part number	Application	Length	Vehicle Application List	Replacement for
438 600 320 0	Motor Vehicle	425 / 673	DAF FAD 2500 DHS	
438 600 321 0	Motor Vehicle	556 / 946	Scania P 114 CA (4 Series)	
438 600 322 0	Motor Vehicle	410 / 650	MAN 18.323 FAK-L	438 600 226 0
438 600 322 0	Motor Vehicle	419 / 658	MAN 16.292F; 18.323 FAK-L	
438 600 323 0	Motor Vehicle	411 / 690	Scania G 112 (2 Series)	
438 600 324 0	Motor Vehicle	484 / 817	Volvo FH12	
438 600 325 0	Motor Vehicle	387 / 647	MAN 18.323FLC	
438 600 326 0	Motor Vehicle	439 / 697	DAF FA 1900	
438 600 327 0	Motor Vehicle	398 / 693	MAN 16332	
438 600 328 0	Motor Vehicle	435 / 752	Iveco Eurostar	
438 600 329 0	Motor Vehicle	456 / 721	Volvo F12	438 600 008 0
438 600 331 0	Motor Vehicle	399 / 677	MAN 16.262 F	438 600 010 0
438 600 332 0	Motor Vehicle	416 / 667	Mercedes 1729L	438 600 017 0
438 600 334 0	Motor Vehicle	377 / 622	DAF FA 95.310	438 600 028 0
438 600 335 0	Motor Vehicle	477 / 817	Scania G 112 HA (2 Series)	438 600 030 0
438 600 342 0	Motor Vehicle	366 / 627	RVI Premium PR	438 600 202 0
438 600 343 0	Motor Vehicle	377 / 622	DAF FA 95	438 600 343 0
438 600 344 0	Motor Vehicle	419 / 689	Scania G 112 (2 Series)	438 600 037 0
438 600 555 0	Motor Vehicle	422 / 678	RVI AE380 - AE385; R33019T AirTronic	
438 600 564 0	Motor Vehicle	426 / 682	Mercedes 709/K/809/K/814/F/K/L/S	
438 600 579 0	Motor Vehicle	411 / 654	Iveco 180E-P--440ETY/EFP	
438 600 580 0	Motor Vehicle	413 / 693	Scania 114 (4 Series)	
438 600 585 0	Motor Vehicle	348 / 595	RVI AE420TI; AE500; AE380; AE385	
438 600 605 0	Motor Vehicle	526 / 882	RVI Midlum, Premium, Kerax	
438 601 066 0	Trailer	333 / 498	Diverse	438 601 023 0
438 601 067 0	Trailer	300 / 425	Meritor	438 601 031 0
438 601 068 0	Trailer	324 / 478	Fruehauf	438 601 045 0
438 601 069 0	Trailer	324 / 478	Diverse	
438 601 070 0	Trailer	354 / 539	Diverse	
438 601 071 0	Trailer	313 / 445	Fruehauf	
438 601 072 0	Trailer	433 / 694	BPW	
438 601 073 0	Trailer	468 / 765	Diverse	
438 601 074 0	Trailer	299 / 429	SAF	
438 601 075 0	Trailer	315 / 465	Diverse	438 601 032 0
438 601 077 0	Trailer	295 / 425		438 601 040 0
438 601 078 0	Trailer	325 / 485	Lohr	438 601 058 0

Part number	Application	Length	Vehicle Application List	Replacement for
438 601 079 0	Trailer	265 / 375	Hendrickson	438 601 061 0
438 601 211 0	Trailer	280 / 413	SAF	
438 601 212 0	Trailer	318 / 489	SAF	
438 601 223 0	Trailer	432 / 698	BPW	
438 601 227 0	Trailer	322 / 475	Meritor	
438 601 230 0	Trailer	328 / 497	BPW	
438 601 232 0	Trailer	355 / 535	Montenegro	
438 601 233 0	Trailer	334 / 499		
438 601 236 0	Trailer	308 / 420	Fruehauf	
438 601 238 0	Trailer	327 / 491	SAF	
438 604 017 0	Cabin	218 / 277	Volvo FL10	
438 604 043 0	Cabin	277 / 329	DAF 95	438 604 043 0
438 604 101 0	Cabin	255 / 315	MAN 14.262 U	
438 604 119 0	Cabin	280 / 315	Mercedes ACTROS 1831 ... 3353	
438 604 122 0	Cabin	260 / 310	MAN 19.293 FLL	
438 604 126 0	Cabin		RVI Premium	
438 604 134 0	Cabin	235 / 259	Volvo FH12	
438 604 136 0	Cabin	302 / 429	Volvo FH12	
438 604 137 0	Cabin	350 / 400	Volvo FH12	
438 604 138 0	Cabin	238 / 280	DAF 95 XF	
438 604 140 0	Cabin	360 / 411	Volvo FM/FH	438 604 004 0
438 604 141 0	Cabin	206 / 306	Volvo/Scania -	438 604 009 0
438 604 148 0	Cabin	277 / 329	DAF 65, 75, 85	438 604 032 0
438 604 150 0	Cabin	211 / 266	RVI Premium	438 604 046 0
438 604 151 0	Cabin	202 / 292	RVI Magnum	438 604 051 0
438 604 155 0	Cabin	206 / 306	Scania 94; 114; 124; 144; 164 (4 Series)	438 604 058 0
438 604 156 0	Cabin	206 / 306	Scania 4 series	438 604 059 0
438 604 157 0	Cabin		Scania 4 series	438 604 067 0
438 604 161 0	Cabin	206 / 306	Scania 4 series	438 604 010 0
438 604 162 0	Cabin	227 / 248	DAF 95 XF	438 604 042 0
438 604 163 0	Cabin	247 / 368	RVI Magnum	438 604 052 0
438 604 164 0	Cabin	363 / 408	Volvo FH12/16	438 604 006 0
438 604 165 0	Cabin	353 / 398	Volvo FH12	438 604 002 0
438 604 168 0	Cabin	272 / 318	DAF 95 XF, day/sleeper, CF	438 604 033 0
438 604 172 0	Cabin	277 / 329	DAF 95 XF	438 604 044 0
438 604 173 0	Cabin	245 / 283	DAF 65, 75, 85	438 604 045 0
438 604 174 0	Cabin	238 / 276	DAF 95	438 604 048 0

10.03 Bellow Servo Valve, CALM 964 ...

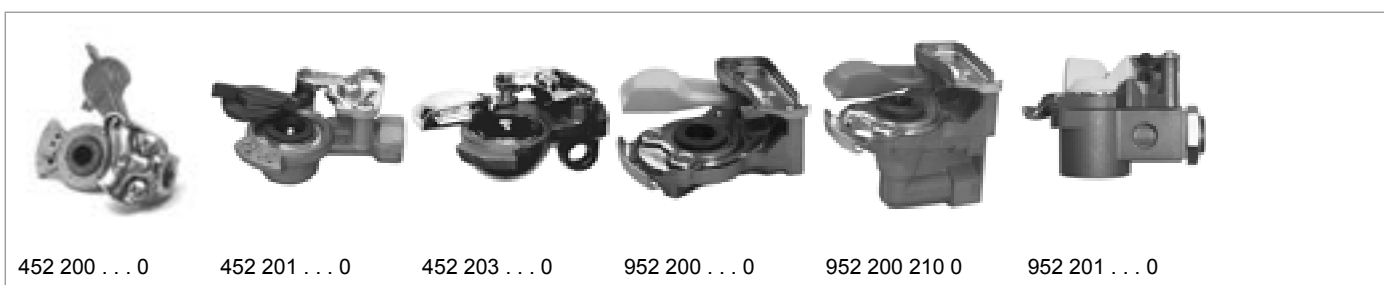


964 006 ...

964 006 019 0	MAN TG-A/ TGS. Level control 335 mm. Front , for articulated trucks. Replacement for: 964 006 001 0
964 006 020 0	MAN TG-A/ TGS. Level control 335 mm. Front . Replacement for: 964 006 002 0
964 006 021 0	MAN TG-A/ TGS. Level control 300 mm. Rear . Replacement for: 964 006 003 0
964 006 022 0	MAN TG-A/ TGS. Level control 300 mm. Rear . Replacement for: 964 006 004 0

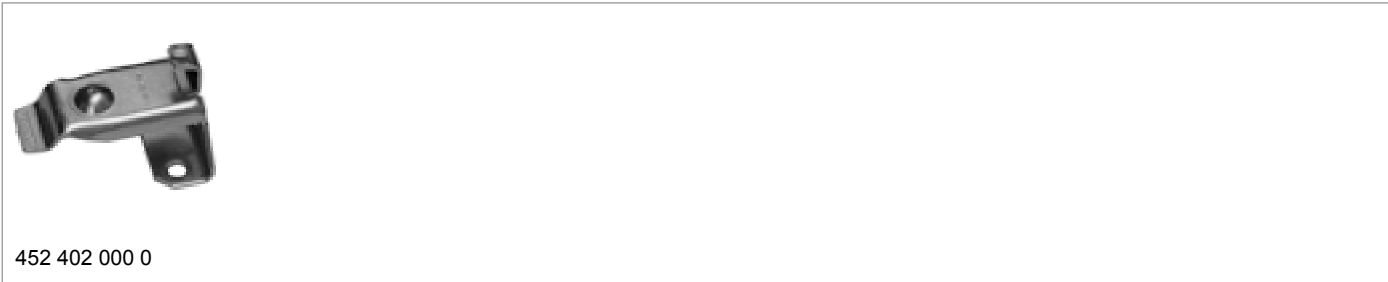
Trailer Connection

11.01 Coupling Head 452/ 952 ...



452 200 000 0	M 22x1.5. two line braking system Trailer. Supply line. Service line. without cover
452 200 004 0	M 22x1.5. two line braking system Trailer. Supply line. Service line. cover : Black
452 200 011 0	M 22x1.5. two line braking system Trailer. Supply line. Cover: Red
452 200 012 0	M 22x1.5. two line braking system Trailer. Service line. Cover: Yellow
452 200 211 0	M 22x1.5. two line braking system Motor Vehicle. Supply line. automatic. Cover: Red
452 200 212 0	M 22x1.5. two line braking system Motor Vehicle. Service line. automatic. Cover: Yellow
452 201 010 0	M 22x1.5. single line braking system Trailer. cover : Black. Pin
452 203 031 0	M 22x1.5. two line braking system Trailer. Version: Swiss . Cover: Red
452 203 032 0	M 22x1.5. two line braking system Trailer. Version: Swiss . Cover: Yellow
452 300 031 0	M 22x1.5. single line braking system Motor Vehicle. cover : Black. automatic
452 303 031 0	M 22x1.5. single line braking system Motor Vehicle. Version: Swiss . Cover: Red
452 303 032 0	M 22x1.5. single line braking system Motor Vehicle. Version: Swiss . Cover: Yellow
952 200 021 0	M 16x1.5. Trailer. Supply line. Cover: Red
952 200 022 0	M 16x1.5. Trailer. Service line. Cover: Yellow
952 200 033 0	M 16x1.5 Parker. Trailer. Service line. Cover: Yellow
952 200 034 0	M 22x1.5 Parker. Trailer. Service line. Cover: Yellow
952 200 035 0	M 16x1.5 Parker. Trailer. Service line. Cover: Yellow. Test Connection: M 16x1.5
952 200 037 0	M 22x1.5 Parker. Trailer. Supply line. Cover: Red
952 200 038 0	M 16x1.5 Parker. Trailer. Supply line. Cover: Red
952 200 040 0	M 16x1.5 Parker. Trailer. Supply line. Cover: Red. Test Connection: M 16x1.5
952 200 210 0	M 16x1.5, automatic. Motor Vehicle. Supply line. Service line. Cover: Red
952 200 221 0	M 16x1.5, automatic. Motor Vehicle. Supply line. Cover: Red
952 200 222 0	M 16x1.5, automatic. Motor Vehicle. Service line. Cover: Yellow
952 200 225 0	M 16x1.5 Parker, automatic. Motor Vehicle. Supply line. Cover: Red
952 200 226 0	M 16x1.5 Parker, automatic. Motor Vehicle. Service line. Cover: Yellow
952 201 001 0	M 16x1.5. Semi trailer. Service line. Cover: Yellow. With filter. With lock nut M 24x1.5 / M 16x1.5
952 201 002 0	M 16x1.5. Semi trailer. Supply line. Cover: Red. With filter. With lock nut M 24x1.5 / M 16x1.5
952 201 003 0	M 16x1.5. Drawbar . Service line. Cover: Yellow. With filter
952 201 004 0	M 16x1.5. Drawbar . Supply line. Cover: Red. With filter
952 201 007 0	M 16x1.5. Semi trailer. Service line. Cover: Yellow. With filter. With lock nut M 24x1.5 / M 16x1.5. Test Connection
952 201 008 0	M 16x1.5. Drawbar . Service line. Cover: Yellow. With filter. Test Connection
952 201 011 0	M 16x1.5. Semi trailer. Service line. without cover. With filter
952 201 012 0	M 16x1.5. Semi trailer. Supply line. without cover. With filter
952 201 013 0	M 16x1.5. Semi trailer. Service line. without cover. With filter. Test Connection
952 201 014 0	Push-in connection Ø 8x1. Semi trailer. Service line. without cover. With filter. Test Connection. Lateral port position
952 201 015 0	Push-in connection Ø 8x1. Semi trailer. Supply line. without cover. With filter. Lateral port position
952 201 016 0	M 16x1.5. Drawbar . Service line. without cover. With filter
952 201 017 0	M 16x1.5. Drawbar . Supply line. without cover. With filter
952 201 018 0	½" - 14 NPTF. Version: US. Cover: Red. With filter
952 201 019 0	½" - 14 NPTF. Version: US. Cover: With filter

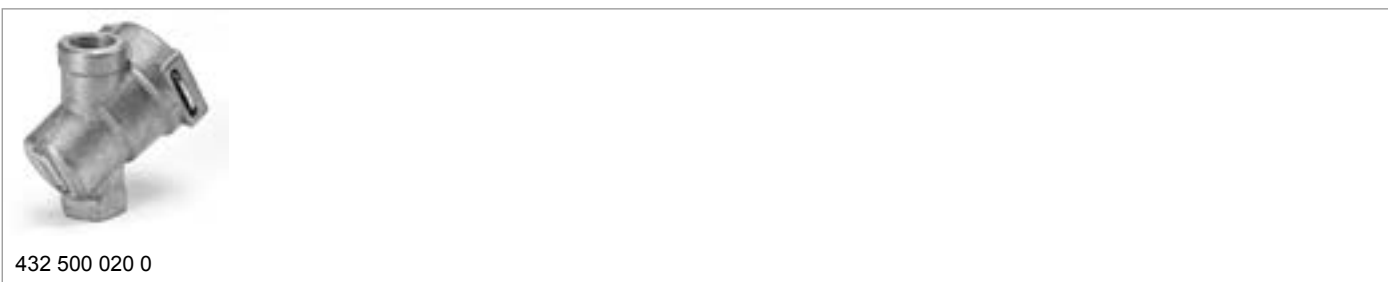
11.02 Dummy Coupling 452 ...



452 402 000 0

452 402 000 0 for 452 200/ 952 200 For Trailer

11.03 Line Filter 432 500



432 500 020 0

- 432 500 005 0** Port threads 1/2"-14NPTF
- 432 500 020 0** M 22x1.5, with flow in any direction
- 432 500 021 0** M 16x1.5, with flow in any direction
- 432 500 025 0** M 22x1.5

11

11.04 Duomatic 452 8..



452 802 007 0

452 803 005 0

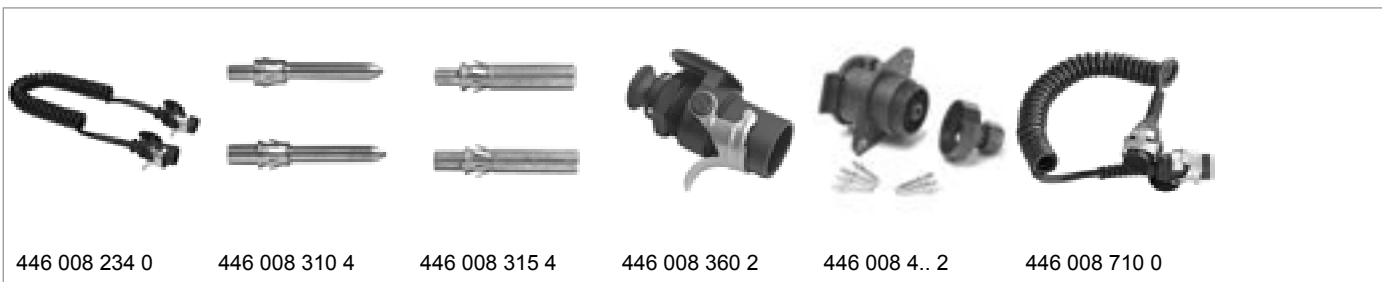
452 804 012 0

452 805 004 0

452 806 000 0

- 452 802 000 0** Duomatic Motor Vehicle, NPSF 1/4"-18
- 452 802 007 0** Duomatic Motor Vehicle, M 16x1.5. Without homologation (German ABE)
- 452 802 009 0** Duomatic Motor Vehicle, M 16x1.5. With homologation (German ABE)
- 452 802 920 2** Duomatic Retrofit kit. Motor Vehicle / Trailer
- 452 803 005 0** Duomatic. Semi trailer. M 16x1.5. With homologation (German ABE)
- 452 803 920 2** Duomatic Retrofit kit, for articulated trucks / Semi trailer
- 452 804 001 0** Duomatic. Trailer, G 3/8"
- 452 804 012 0** Duomatic. Trailer, M 16x1.5. With homologation (German ABE)
- 452 805 004 0** Duomatic, Truck - Semitrailer, M 16x1.5. With homologation (German ABE)
- 452 806 000 0** Trio-Matic
- 452 808 002 0** Trio-Matic
- 452 811 008 0** Duomatic, for Special vehicle Agriculture, M 22x1.5

11.05 Coiled Cable 446 ...



446 008 234 0

446 008 310 4

446 008 315 4

446 008 360 2

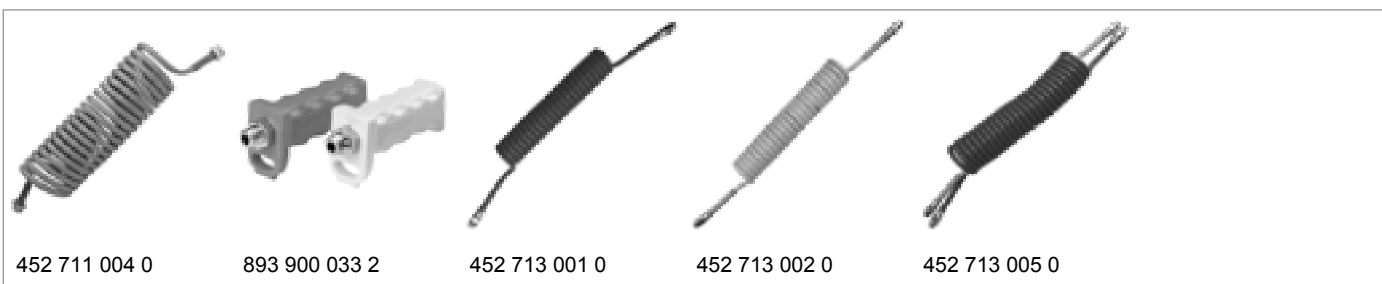
446 008 4.. 2

446 008 710 0

446 008 234 0	24 V, ABS 5-pin. "Economy". Length max. 4.5 m. ISO 7638. Cross section 2x 6 mm ² / 3x 1,5 mm ² . Working length 3 m
446 008 238 0	12 V, ABS 5-pin. "Economy". Length max. 4.5 m. ISO 7638. Cross section 2x 4 mm ² / 3x 1.5 mm ² . Working length 2.5 m
446 008 243 0	24 V, EBS / ABS 7-pin. "Classic". Length max. 4.5 m. ISO 7638. Cross section 2x 4 mm ² / 5x 1.5 mm ² . Working length 3 m
446 008 244 0	24 V, EBS / ABS 7-pin. "Economy". Length max. 4.5 m. ISO 7638. Cross section 2x 4 mm ² / 5x 1.5 mm ² . Working length 3 m
446 008 310 4	Contact pin 1.5 mm ²
446 008 311 4	Contact pin 6.0 mm ²
446 008 315 4	Contact bush 1.5 mm ²
446 008 316 4	Contact bush 6.0 mm ²
446 008 360 2	24 V. Plug ABS. Cable Diameter Ø 14.5 - 15.5
446 008 361 2	24 V. Connector. Cable Diameter Ø 14.5 - 15.5
446 008 380 2	24 V. Connector, with CAN. Cable Diameter Ø 7 - 12 (2x 4 mm ² / 3x 1.5 mm ²)
446 008 381 2	24 V, Connector, without CAN. Cable Diameter Ø 10 - 14, (2x 6 mm ² / 3x 1,5 mm ²)
446 008 390 2	24 V. Plug ABS. Cable Diameter Ø 7 - 12 (2x 4 mm ² / 3x 1.5 mm ²)
446 008 391 2	24 V. Plug ABS. Cable Diameter Ø 10 - 14 (2x 6 mm ² / 3x 1.5 mm ²)
446 008 404 2	24 V. Connector EBS. Cable Diameter Ø 10 - 14 (2x 4 mm ² / 5x 1.5 mm ²)
446 008 414 2	24 V. Plug EBS. Cable Diameter Ø 10 - 14, (2x 4 mm ² / 5x 1.5 mm ²)
446 008 420 2	24 V. Connector 15-pin, ISO 12098. Lighting. Cable Diameter ø 16
446 008 433 2	24 V. Connector EBS. Screwed contacts. Cable Diameter Ø 10 - 14, (2x 4 mm ² / 5x 1.5 mm ²)
446 008 700 0	24 V, EBS / ABS 7-pin. "Standard". Length max. 4.6 m. ISO 7638. Cross section 2x 4 mm ² / 5x 1.5 mm ² . Working length 3 m
446 008 710 0	24 V. Lighting 15-pin. "Standard". Length max. 4.6 m. ISO 12098. Cross section 12x 1.5 mm ² / 3x 2.5 mm ² . Working length 3 m
894 110 232 0	24 V / 12 V. Parking Socket. Replacement for 446 008 600 2

11

11.06 Coiled Tube 452 ...



452 711 004 0

893 900 033 2

452 713 001 0

452 713 002 0

452 713 005 0

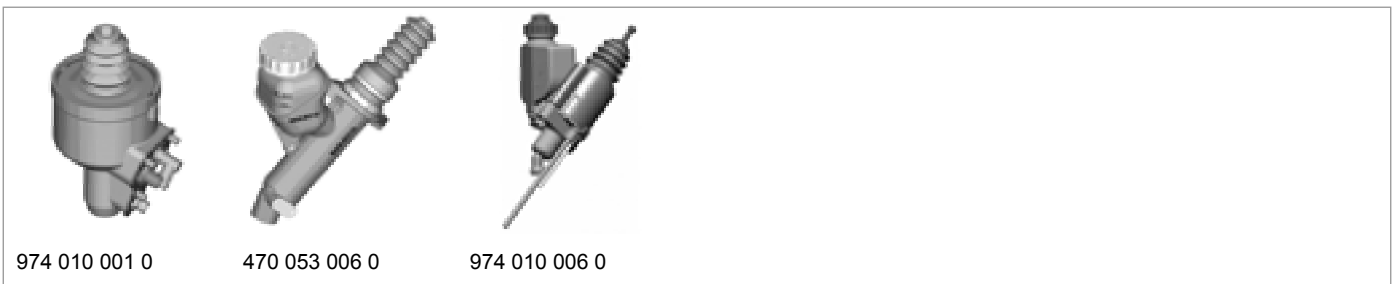
Part number	Type	Hose	Anti-kink	A Thread	B Thread	Replacement for	Comments
452 711 004 0	Wendelflex	Ø 12x1.5 Black	Red	M 22x1.5	M 22x1.5	452 711 001 0	4 m
452 711 005 0	Wendelflex	Ø 12x1.5 Black	Yellow	M 22x1.5	M 22x1.5	452 711 002 0	4 m
452 711 006 0	Wendelflex	Ø 12x1.5 Black	Red	M 16x1.5	M 16x1.5	452 711 011 0	4.5 m
452 711 007 0	Wendelflex	Ø 12x1.5 Black	Yellow	M 16x1.5	M 16x1.5	452 711 012 0	4.5 m
452 711 008 0	Wendelflex	Ø 12x1.5 Black	Red	M 16x1.5	M 18x1.5	452 711 021 0	4 m. Strap
452 711 009 0	Wendelflex	Ø 12x1.5 Black	Yellow	M 16x1.5	M 18x1.5	452 711 022 0	4 m. Strap
452 711 019 0	Wendelflex	Ø 12x1.5 Black	Black	M 16x1.5	M 18x1.5	452 711 023 0	4 m. Strap
452 711 028 0	Wendelflex	Ø 12x1.5 Black	Red	M 18x1.5 Nut	M 18x1.5 Nut		4 m
452 711 029 0	Wendelflex	Ø 12x1.5 Black	Yellow	M 18x1.5 Nut	M 18x1.5 Nut		4 m

Part number	Type	Hose	Anti-kink	A Thread	B Thread	Replacement for	Comments
452 711 030 0	Wendelflex	Ø 12x1.5 Black	Black	M 18x1.5 Nut	M 18x1.5 Nut		4 m
452 711 050 0	Wendelflex	Ø 12x1.5 Black	Red & yellow	2x M 18x1.5 Nut	2x M 18x1.5 Nut		4 m. Dual
452 711 053 0	Wendelflex	Ø 12x1.5 Black	Red	M 16x1.5	M 18x1.5 Nut	452 711 014 0, 452 711 033 0	4 m
452 711 054 0	Wendelflex	Ø 12x1.5 Black	Yellow	M 16x1.5	M 18x1.5 Nut	452 711 015 0, 452 711 035 0	4 m
452 711 055 0	Wendelflex	Ø 12x1.5 Black	Black	M 16x1.5	M 18x1.5 Nut	452 711 016 0, 452 711 037 0	4 m
452 713 001 0	Premium-Flex	Ø 12x2 Red	Steel	M 16x1.5 / M 18x1.5 Nut	M 16x1.5 / M 18x1.5 Nut		4 m
452 713 002 0	Premium-Flex	Ø 12x2 Yellow	Steel	M 16x1.5 / M 18x1.5 Nut	M 16x1.5 / M 18x1.5 Nut		4 m
452 713 003 0	Premium-Flex	Ø 12x2 Black	Red	M 16x1.5 / M 18x1.5 Nut	M 16x1.5 / M 18x1.5 Nut		4 m
452 713 004 0	Premium-Flex	Ø 12x 2 Black	Yellow	M 16x1.5 / M 18x1.5 Nut	M 16x1.5 / M 18x1.5 Nut		4 m
452 713 005 0	Premium-Flex	Ø 12x2 Red & yellow	Steel	M 16x1.5 / M 18x1.5 Nut	M 16x1.5 / M 18x1.5 Nut		4 m. Dual
452 713 006 0	Premium-Flex	Ø 12x2 Black	Red & yellow	2x M 16x1.5 / M 18x1.5 Nut	2x M 16x1.5 / M 18x1.5 Nut		4 m. Dual
893 900 033 2	2x Handle						Red & yellow

Material Wendelflex: PA. PremiumFlex: PUR

Drive Line Control

12.01 Master cylinder



974 010 001 0

470 053 006 0

974 010 006 0

470 053 006 0 Master cylinder . Ø 26.1 mm. Stroke: 36 mm. 19 cm³. Brake fluid DOT3, DOT 4. With Reservoir

974 010 001 0 Servo Master. Stroke: 30 mm. 28 cm³. Brake fluid DOT3, DOT 4, DOT5. Vehicle Application: Scania

974 010 006 0 Servo Master. Ø 26 mm. Stroke: 30 mm. 14 cm³. Mineral oil M3289 ZHF-1. With Reservoir. Vehicle Application: MAN. Replacement for: 974 010 003 0, 974 010 005 0

12.02 Clutch Servo 164/ /46/ 470 ...

164 217 130 8 Exchange Unit for: 164 217 630 8

164 217 180 8 Exchange Unit for: 164 217 680 8

164 217 240 8 Exchange Unit for: 164 217 740 8

164 217 670 8 Stroke 23 mm. Output force 6 kN. Brake fluid. Vehicle Application: RVI

164 217 680 8 Stroke 23 mm. Output force 6 kN. Brake fluid. Vehicle Application: RVI

460 719 3 Stroke 68. Output force 3 kN. Brake fluid. Ports: 4-1 = M 14x1.5; 1 = M 16x1.5; 31 = M 26x1.5. Vehicle Application: Nissan, Pegaso (Buses)

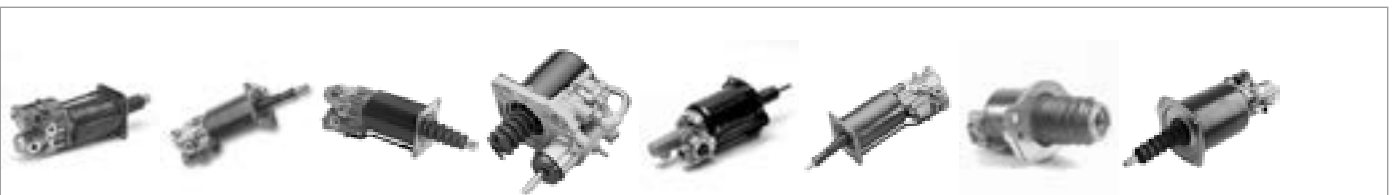
460 806 8 Stroke 59.5. Output force 7.5 kN. Brake fluid. Ports: 4-1, 2 = M 14x1.5; 1 = M 16x1.5

462 012 100 0 Ø 115. Stroke 22. Output force 700 kp, mechanical. Port: M 14x1.5

470 051 114 0 Ø 100, Stroke 59.5, Output force 4 kN. Brake fluid. Ports: 1-4, 2 = M 14x1.5; 1 = M 16x1.5. Vehicle Application: RVI

12.03 Clutch Servo 970 ...

970 051 1..



970 051 102 0

970 051 111 0

970 051 126 0

970 051 131 0

970 051 151 0

970 051 157 0

970 051 159 0

970 051 176 0

970 051 102 0 3". Stroke 67. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Vehicle Application: DAF

970 051 107 0 4". Stroke 58.5. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed). Vehicle Application: Scania

970 051 111 0 3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Vehicle Application: MAN F80/F81

970 051 114 0 3". Stroke 67. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed). Vehicle Application: DAF / ZF

970 051 124 0 4". Stroke 58. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed). Vehicle Application: RVI

970 051 126 0 3". Stroke 67. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Vehicle Application: Iveco

970 051 127 0 4". Stroke 58.5. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed). Vehicle Application: Iveco / ZF

970 051 128 0	4". Stroke 58.5. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed). Vehicle Application: Mercedes
970 051 129 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Vehicle Application: DAF. Replacement: 970 051 169 0
970 051 131 0	Ø 85. Stroke 72. Push-rod force 700 Nm. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Vehicle Application: Mercedes Ecosplit
970 051 132 0	4". Stroke 85. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Vehicle Application: MAN F90. Replacement: 970 051 157 0
970 051 136 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed). Vehicle Application: DAF
970 051 137 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed). Vehicle Application: Mercedes
970 051 150 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Vehicle Application: DAF
970 051 151 0	Ø 85. Stroke 65. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed). Vehicle Application: Mercedes G4. Replacement: 970 051 162 0
970 051 154 0	4". Stroke 85. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5, with fording ability. Vehicle Application: ZF
970 051 156 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Vehicle Application: ZF. Replacement: 970 051 183 0
970 051 157 0	4". Stroke 85. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed). Vehicle Application: MAN
970 051 158 0	4". Stroke 75. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Vehicle Application: Mercedes
970 051 159 0	4". Stroke 75. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Vehicle Application: Mercedes G4
970 051 162 0	Ø 85. Stroke 65. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed). Wear Indicator. Vehicle Application: Mercedes
970 051 163 0	4". Stroke 85. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed). Vehicle Application: Mercedes. Replacement: 970 051 164 0
970 051 164 0	4". Stroke 85. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed). Wear Indicator. Vehicle Application: Mercedes
970 051 165 0	4". Stroke 85. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Vehicle Application: ZF. Replacement: 970 051 176 0
970 051 169 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed). Vehicle Application: Kässbohrer
970 051 171 0	4". Stroke 70. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed). Vehicle Application: RVI
970 051 172 0	4". Stroke 85. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Vehicle Application: ZF
970 051 176 0	4". Stroke 85. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Wear Indicator. Vehicle Application: ZF
970 051 177 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed). Vehicle Application: ZF. Replacement: 970 051 183 0
970 051 179 0	4". Stroke 58.5. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed). Wear Indicator
970 051 181 0	4". Stroke 85. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. with fording ability. Vehicle Application: ZF
970 051 182 0	4". Stroke 58.5. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed)
970 051 183 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Vehicle Application: ZF
970 051 190 0	Ø 85. Stroke 60. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed)
970 051 191 0	4". Stroke 58.5. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed)
970 051 192 0	4". Stroke 58.5. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5, (21 closed)
970 051 193 0	4". Stroke 58.5. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 12x1.5; 11 = M 14x1.5; 21 = M 16x1.5, (21 closed)
970 051 194 0	4". Stroke 58.5. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = 7/16"; 11 = M 12x1.5; 21 = M 16x1.5, (21 closed)

970 051 2.. – 970 051 3..



970 051 209 0

970 051 204 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 12, 22 = M 12x1.5; 11 = M 16x1.5. 3/2 Directional Control Valve. Vehicle Application: Iveco
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970 051 205 0	3". Stroke 67. Output force 4 kN. Mineral oil. Ports: 1-4 = M 14x1.5; 12, 22 = M 12x1.5; 11 = M 16x1.5. 3/2 Directional Control Valve. Vehicle Application: Iveco
970 051 209 0	4". Stroke 58.5. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 12, 22 = M 12x1.5; 11, 21 = M 16x1.5. 3/2 Directional Control Valve. Vehicle Application: RVI
970 051 217 0	4". Stroke 26. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 12, 22 = M 12x1.5; 11, 21 = M 16x1.5. 3/2 Directional Control Valve. Vehicle Application: MAN
970 051 218 0	4". Stroke 23. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 12, 22 = M 12x1.5; 11 = M 16x1.5. 3/2 Directional Control Valve. Vehicle Application: RVI
970 051 224 0	4". Stroke 26. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 12, 22 = M 12x1.5; 11 = M 16x1.5. Wear Indicator. Vehicle Application: ZF
970 051 307 0	4". Stroke 85. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 22x1.5 Voss 230. Wear Indicator. Replacement: 970 051 414 0

970 051 4..



970 051 402 0	4". Stroke 25.2. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 12, 22 = M 12x1.5; 11 = M 16x1.5. Vehicle Application: RVI
970 051 405 0	4". Stroke 85. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = Special fittings, 11 = M 16x1.5. Electrical connection Bayonet (DIN). Replacement: 970 051 431 0
970 051 406 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 22x1.5 Voss 230. Wear Indicator. Vehicle Application: MAN
970 051 412 0	4". Stroke 85. Output force 6 kN. Mineral oil. Ports: 1-4 = M 14x1.5, 11 = M 22x1.5 Voss 230. Electrical connection Bayonet (DIN). Vehicle Application: MAN
970 051 414 0	4". Stroke 85. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 22x1.5 Voss 230. Wear Indicator. Vehicle Application: MAN
970 051 415 0	4". Stroke 25.5. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 12, 22 = M 12x1.5; 11 = M 22x1.5 Voss 230. Wear Indicator. Replacement: 970 051 438 0
970 051 422 0	4". Stroke 75. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Wear Indicator. Vehicle Application: RVI
970 051 423 0	4". Stroke 85. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5. Wear Indicator. Vehicle Application: ZF
970 051 424 0	4". Stroke 85. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 11, 21 = M 16x1.5. Wear Indicator. Vehicle Application: ZF-FO
970 051 429 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Wear Indicator. Vehicle Application: RVI
970 051 430 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Wear Indicator. Vehicle Application: RVI
970 051 431 0	4". Stroke 85. Output force 6.2 kN. Brake fluid SAE J1703. Ports: 1-4 = Special fittings, 11 = M 16x1.5. Electrical connection Bayonet (DIN). Vehicle Application: Mercedes
970 051 432 0	3". Stroke 85. Output force 4 kN. Mineral oil. Ports: 1-4 = M 14x1.5, 11 = M 22x1.5 Voss 230. Electrical connection Bayonet (DIN)
970 051 435 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Wear Indicator. Vehicle Application: ZF
970 051 436 0	4". Stroke 85. Output force 6.2 kN. Brake fluid SAE J1703. Ports: 1-4 = Special fittings, 11 = M 16x1.5. Wear Indicator. Vehicle Application: Mercedes
970 051 437 0	3". Stroke 85. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 22x1.5 Voss 230. Wear Indicator
970 051 438 0	4". Stroke 25.5. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 12, 22 = M 12x1.5; 11 = M 22x1.5 Voss 230. Wear Indicator. Vehicle Application: RVI
970 051 439 0	4". Stroke 25.2. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 12, 22 = M 12x1.5; , 11 = M 16x1.5
970 051 440 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Wear Indicator
970 051 441 0	4". Stroke 85. Output force 6.2 kN. Mineral oil. Ports: 1-4 = Special fittings, 11 = M 16x1.5. Electrical connection Bayonet (DIN). Vehicle Application: Mercedes
970 051 445 0	4". Stroke 86.5. Output force 6.2 kN. Brake fluid SAE J1703. Ports: 1-4 = Special fittings, 11 = M 16x1.5. Wear Indicator
970 051 447 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 22x1.5 Voss 230. Wear Indicator. Replacement: 970 051 453 0
970 051 449 0	4". Stroke 85. Output force 6 kN. Mineral oil. Ports: 1-4 = M 16x1.5, 11 = M 16x1.5. Electrical connection Bayonet (DIN)
970 051 451 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Wear Indicator

970 051 454 0	4". Stroke 85. Output force 6.2 kN. Brake fluid SAE J1703. Ports: 1-4 = Special fittings, 11 = M 16x1.5. Electrical connection Bayonet (DIN). Vehicle Application: Mercedes
970 051 455 0	4". Stroke 25.2. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5; 12, 22 = M 12x1.5; , 11 = M 16x1.5
970 051 457 0	4". Stroke 85. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 22x1.5 Voss 230. Wear Indicator
970 051 458 0	3". Stroke 85. Output force 4 kN. Mineral oil. Ports: 1-4 = M 14x1.5, 11 = M 22x1.5 Voss 230. Electrical connection Bayonet (DIN)
970 051 465 0	4". Stroke 65. Output force 6 kN. Mineral oil. Ports: 1-4 = M 14x1.5, 11 = M 22x1.5 Voss 230. Electrical connection Bayonet (DIN)
970 051 466 0	4". Stroke 85. Output force 6 kN. Mineral oil. Ports: 1-4 = M 14x1.5, 11 = M 22x1.5 Voss 230. Electrical connection Bayonet (DIN)

970 051 5.. – 970 051 8..



970 051 601 0

970 051 506 0	Ø 35.7. Stroke 25. Output force 3.2 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5. Vehicle Application: Volvo
970 051 601 0	3". Stroke 17. Output force 4 kN. Brake fluid SAE J1703. Push-in connection Anoflex: 12, 22 = 3/8"; 11 = 1/2"; 1-4. Wear Indicator
970 051 604 0	3", with fording ability. Stroke 17. Output force 4 kN. Brake fluid SAE J1703. Push-in connection Anoflex: 12, 22 = 3/8"; 11 = 1/2"; 1-4. Exhaust: Hose nipple. Wear Indicator
970 051 809 0	4". Stroke 75. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5 (35°). Wear Indicator. Vehicle Application: DAF
970 051 810 0	4". Stroke 75. Output force 6 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5 (35°). Wear Indicator. Vehicle Application: DAF
970 051 811 0	3". Stroke 85. Output force 4 kN. Brake fluid SAE J1703. Ports: 1-4 = M 14x1.5, 11 = M 16x1.5 (35°). Wear Indicator. Vehicle Application: DAF

970 190 ...

970 190 034 0 2 1/8".

12.08 Electronic Drive Line Control



433 150 021 0 441 100 064 0 441 100 072 0 421 350 072 0 446 160 019 0 421 351 070 0 472 400 070 0 970 150 001 0

421 350 001 0	EDS 3 Position Cylinder. Mercedes SK. Electrical connection: M 27x1. Operating pressure: 3...10 bar
421 350 061 0	EDS 3 Position Cylinder. Mercedes SK. Electrical connection: M 27x1. Operating pressure: 3...10 bar
421 350 072 0	EDS 3 Position Cylinder. Actros MP3. EPS II. Electrical connection Bayonet (DIN)
421 351 000 0	EDS 3 Position Cylinder. Mercedes SK. Electrical connection: M 27x1. Operating pressure: 5...10 bar
421 351 001 0	EDS 3 Position Cylinder. Mercedes SK. Electrical connection: M 27x1. Operating pressure: 5...10 bar
421 351 070 0	EDS 2 Position Cylinder. Actros MP1/MP2. EPS II. Electrical connection Bayonet (DIN). Operating pressure: 3...10 bar
421 351 075 0	EDS 2 Position Cylinder. Actros MP1. EPS II. Electrical connection Bayonet (DIN). : 3...10 bar
421 352 082 0	EDS 3 Position Cylinder. Mercedes Actros MP2, Evobus. EPS III. Replacement for: 421 352 080 0
421 355 930 2	Valve block. For ZF Gearbox control
421 355 931 2	Pressure Limiting Valve. For ZF Gearbox control 421 355 011/ 012/ 014/ 022/ 023 0
421 355 934 2	Body Lower part. For ZF Gearbox control
433 150 004 0	EDS Control Unit EPS
433 150 014 0	EDS Control Unit EPS

433 150 020 0	EDS Control Unit EPS II
433 150 021 0	EDS Control Unit EPS II
433 150 022 0	EDS Control Unit Actros MP1, EPS II
433 150 023 0	EDS Control Unit EPS II
433 150 030 0	EDS Control Unit Actros MP1
433 150 070 0	EDS Control Unit EPS
441 036 000 0	Reversing Switch, Actros MP1/MP2
441 036 001 0	Reversing Switch, Mercedes, Evobus
441 100 064 0	EDS Sensor. EPS II. Regulating range 9.6 mm. Electrical connection Bayonet DIN 72585-A1-2.1-Ag/K2
441 100 070 0	EDS Sensor. Actros MP1
441 100 071 0	EDS Sensor. Actros MP1
441 100 072 0	EDS Sensor. EPS II. Regulating range 13.5 mm. Electrical connection Bayonet DIN 72585-A1-2.1-Ag/K2
441 100 102 0	EDS Sensor. Actros MP1
446 160 018 0	EDS Electronic Control Unit EPS II B. Connector pins: 9/6/12/15
446 160 019 0	EDS Electronic Control Unit EPS II B. Connector pins: 9/6/12/15
446 162 000 0	MKR ECU. System: EAS. Actros MP1
472 400 055 0	EDS Solenoid Valve. 4x 3/2 Solenoid valve. EPS. Electrical connection: 4x M 27x1
472 400 070 0	EDS Solenoid Valve. 2x 3/2 Solenoid valve. EPS II. Actros MP1/MP2. Electrical connection Bayonet (DIN). Voss 230
472 400 075 0	EDS Solenoid Valve. 2x 3/2 Solenoid valve. EPS II. Actros MP1. Electrical connection Bayonet (DIN)
478 100 002 0	Solenoid Valve. With Brake fluid SAE J 1703. Ports closed
970 150 001 0	Clutch Actuator EPS III. Stroke: 69.5 mm. Control medium: Air. Electrical connection Bayonet DIN 72585-A1-2.1-Ag/K2

12.09 Retarder Control 472 260



472 260 ... 0

472 260 005 0	Proportional valve Voith. Port M 22x1.5 Parker
472 260 006 0	Proportional valve Voith VR 115 E. For Mercedes, Evobus
472 260 011 0	Proportional valve Voith. Port Voss 232 NG12

Devices for Buses

13.01 Climate Control



446 024 020 0 446 091 004 0 446 092 003 0 446 095 003 0 446 095 004 0 446 195 004 0 446 196 000 0

446 024 012 0	Climate Control - ECU. Fan Control unit. 24 V. Regulator / PWM. Vehicle Application: DAF, MAN, Mercedes
446 024 020 0	Climate Control - ECU. Fan Control unit. 24 V. Vehicle Application: Mercedes, Setra
446 090 024 0	ATC Climate Control - ECU. 24 V. Diagnostic Connection: ISO 9141
446 091 001 0	Climate Control - Water Control Valve, 1400 l/h. 24 V, with wiring 6-pin
446 091 002 0	Climate Control - Water Control Valve, 1400 l/h. 24 V. with wiring 4-pin
446 091 004 0	Climate Control - Water Control Valve 2/2. 1800 l/h. 24 V
446 091 200 0	Climate Control - Water Control Valve 3/2. 1800 l/h. 24 V
446 091 301 0	Climate Control - Water Control Valve 2/2. 350 l/h. 24 V. Ports: Ø 16. Plug 2-pin
446 091 303 0	Climate Control - Water Control Valve 3/2. 350 l/h. 12 V. Ports: Ø 16. Electrical connection: Tyco HDSCS, 4-pin
446 092 002 0	Temperature Sensor. Temperature range -40 °C ... +85 °C. Plug Tyco AMP. Cable: 500 mm
446 092 003 0	Temperature Sensor. Temperature range -40 °C ... +85 °C. Plug Tyco AMP. Cable: 200 mm
446 095 003 0	Climate Control. Remote Control ATC (ATR-E)
446 095 004 0	Climate Control. Remote Control ATC (BOVA)
446 096 002 0	Climate Control - ECU Substation, 24 V
446 097 000 0	Temperature Sensor, outside air temperature. Temperature range -40 °C ... +85 °C
446 097 001 0	Temperature Sensor Water. Temperature range -40 °C ... +125 °C
446 195 001 0	Climate Control ATC CAN 2C3T. Remote Control
446 195 002 0	Climate Control ATC CAN 2C4T. Remote Control
446 195 003 0	Climate Control ATC CAN 2C5T. Remote Control
446 195 004 0	Climate Control ATC CAN 2C5T. Remote Control
446 196 000 0	Climate Control - ECU Substation ATC CAN, 24 V
446 197 004 0	Climate Control ATC CAN. Remote Control
446 197 040 0	Climate Control ATC CAN, Remote Control

13.02 Electronic Door Control System



372 060 022 0 422 802 402 0 422 812 000 0 446 190 001 0 446 190 150 0 472 017 480 0 472 600 001 0 472 600 022 0

372 060 022 0	Door Control Valve ETS, 24 V, IP 65. Nominal diameter 4. Ports: M 12x1.5. Port 4 = Pipe 8x1
372 060 062 0	Door Control Valve ETS, 24 V, IP 65. Nominal diameter 4. Ports: M 12x1.5
422 802 402 0	Door cylinder Ø 60. Stroke 180, M 16. Max. operating pressure 8 bar
422 802 421 0	Door cylinder Ø 60. Stroke 160, M 12. Max. operating pressure 8 bar
422 812 000 0	Door cylinder Ø 50. Stroke 140, M 14x1.5. Max. operating pressure 10 bar
422 812 002 0	Door cylinder Ø 55. Stroke 160, M 14x1.5. Max. operating pressure 10 bar
446 190 001 0	Electronic Door Control System. Door ECU MTS-PX. Pneumatic Pressure. Replacement for 446 190 000 0, 446 190 002 0
446 190 010 0	Electronic Door Control System. Door ECU MTS-E-BM. Electrical. Replacement: 446 190 011 0

446 190 011 0	Electronic Door Control System. Door ECU MTS-EX. Electrical
446 190 150 0	MTS Door sensor. Actuating range Electrical 125° ±3°. Connection Pressure Switch
446 190 151 0	MTS Door sensor. Actuating range Electrical 180° ±3°
446 190 152 0	MTS Door sensor. Actuating range Electrical 125° ±3°
472 017 480 0	MTS Door Control Valve, M 12x1.5, 24 V. Operating pressure 8 bar, vented
472 600 001 0	MTS Door Control Valve 4/3, M 12x1.5. 24 V. Operating pressure 5...10 bar. Ports 4.1, 4.2 = Pipe 8x1
472 600 022 0	MTS Door Control Valve 4/3, M 12x1.5. 24 V. Operating pressure 5...10 bar

Please note that devices for replacement have to be calibrated or parameterised. Training and diagnosis are required.

Hydraulic Devices, HPB

14.01 Cut-off Valve 477 397



477 397 001 0

477 397 014 0

477 397 015 0

- 477 397 001 0** Cut-in pressure 130 bar. Cut-out pressure 150 bar. Single-circuit. Rated current 16 l/min
- 477 397 007 0** Cut-in pressure 120 bar. Cut-out pressure 150 bar. Triple circuit. Rated current 16 l/min
- 477 397 011 0** Cut-in pressure 120 bar. Cut-out pressure 150 bar. Single-circuit. Rated current 45 l/min
- 477 397 014 0** Cut-in pressure 120 bar. Cut-out pressure 150 bar. Triple Circuit Protection Valve
- 477 397 015 0** Cut-in pressure 120 bar. Cut-out pressure 150 bar. Two Circuit Protection Valve
- 477 397 032 0** Cut-in pressure 70 bar. Cut-out pressure 100 bar. Two Circuit Protection Valve. Rated current 62 l/min

14.02 Pressure Accumulator 458 ...



458 501 101 0

- 458 501 071 0** Port M 18x1.5. Volume 0.75 dm³. Pre-pressurised 50 bar. Max. operating pressure 180 bar
- 458 501 101 0** Port M 22x1.5. Volume 1 dm³. Pre-pressurised 50 bar. Max. operating pressure 200 bar.

14.03 Brake Valve, hydr. 467 406



467 406 102 0

- 467 406 101 0** Single-circuit. Brake pressure 0 ... max 100 bar. Treadle 45°. Spool diameter Ø 14
- 467 406 102 0** Single-circuit. Brake pressure 0 ... max 80 bar. Treadle 45°. Spool diameter Ø 14
- 467 406 216 0** Dual-circuit. Brake pressure 0 ... max 110 bar. Treadle 40°. Spool diameter Ø 14
- 467 406 233 0** Dual-circuit. Brake pressure 0 ... max 150 bar. Treadle 25°. Spool diameter Ø 14
- 467 406 401 0** Dual-circuit. Brake pressure 0 ... max 70 bar. Treadle 45°. Spool diameter Ø 20

14.04 Hand Brake Valve, hydr. 467 410



467 410 011 0

467 410 011 0 Max. operating pressure 150 bar. Delivered pressure 50 bar max.

467 410 012 0 Max. operating pressure 150 bar. Delivered pressure 125 bar max.

Tire Monitoring System

15.01 IVTM ECU 446 22.



446 220 013 0

446 221 000 0

960 901 050 4

446 220 012 0	IVTM ECU Truck
446 220 013 0	IVTM ECU Trailer
446 220 014 0	IVTM ECU "Trailer Train"
446 221 000 0	IVTM Display
446 221 100 0	IVTM Display Type "straddle carrier"
960 901 050 4	Mounting bracket for ECU

Please note that devices for replacement have to be calibrated or parameterised. Training and diagnosis are required.

15.02 IVTM Wheel Module 960 73.



960 730 820 4

960 731 011 0

960 731 802 0

960 730 820 4	Counterweight independent wheels, wheel bolt Ø 26
960 730 822 4	Counterweight independent wheels, wheel bolt Ø 26. For L-shape
960 730 832 4	Counterweight independent wheels, wheel bolt Ø 26. For L-shape (NA)
960 731 001 0	WM2. Without support. Connector Voss 203, 20°
960 731 003 0	WM2. Without support. Connector Voss 203, 20°
960 731 011 0	WM2, wheel bolt Ø 26. Rim hole circle 335 mm. Connector Voss 203, 90°. Application: Trailer, single tire. Replacement for: 960 730 001 0
960 731 013 0	WM2, wheel bolt Ø 23. Rim hole circle 335 mm. Connector Voss 203, 20°. Application: Trailer, single tire
960 731 015 0	WM2, wheel bolt Ø 26. Rim hole circle 335 mm. Connector Voss 203, 20°.
960 731 017 0	WM2, wheel bolt Ø 23. Rim hole circle 335 mm. Connector Voss 203, 90°. Application: Trailer, single tire
960 731 019 0	WM2, wheel bolt Ø 23. Rim hole circle 425 mm. Connector Voss 203, 90°.
960 731 021 0	WM2, wheel bolt Ø 32. Rim hole circle 335 mm. Connector Voss 203, 90°. Application: Trailer, single tire
960 731 031 0	WM2, wheel bolt Ø 26. Rim hole circle 335 mm. Connector Voss 203, 20°. T-shape. Angle 70°. Application: Twin Tires
960 731 041 0	WM2, wheel bolt Ø 32. Rim hole circle 335 mm. Connector Voss 203, 20°. T-shape. Angle 70°. Application: Twin Tires
960 731 051 0	WM2, wheel bolt Ø 26. Rim hole circle 335 mm. Connector Voss 203, 20°. L-shape. Angle 60°. Application: Truck
960 731 053 0	WM2, wheel bolt Ø 32. Rim hole circle 335 mm. Connector Voss 203, 20°. L-shape. Application: Truck
960 731 057 0	WM2, wheel bolt Ø 26. Rim hole circle 335 mm. Connector Voss 203, 20°. L-shape. Angle 0°. Application: Truck
960 731 063 0	WM2, wheel bolt Ø 26. Rim hole circle 335 mm. Connector Voss 203, 20°. L-shape. Angle 33°. Application: Truck
960 731 071 0	WM2, wheel bolt Ø 26. Rim hole circle 285.75 mm. Connector Voss 204, 90°.
960 731 073 0	WM2, wheel bolt Ø 26. Rim hole circle 285.75 mm. Connector Voss 203, 20°. T-shape. Angle 70°. Application: Twin Tires
960 731 075 0	WM2, wheel bolt Ø 26. Rim hole circle 285.75 mm. Connector Voss 203, 20°. L-shape. Angle 33°. Application: Truck
960 731 081 0	WM2, wheel bolt Ø 26. Rim hole circle 225 mm. Connector Voss 203, 20°. T-shape. Angle 70°. Application: Twin Tires
960 731 130 0	WM2, wheel bolt Ø 26. Rim hole circle 335 mm. Connector Voss 203, 20°. T-shape. Angle 70°.
960 731 802 0	WM2. Pipe, 350 mm
960 731 808 0	WM2. Pipe, 117 / 40 mm

960 731 816 0 WM2. Pipe, 110 / 40 mm

960 731 823 0 WM2. Pipe, 180 mm

15.03 Cable

Part number	Application	Length	Connection	Comments
449 302 015 0	TCE - IVTM	1.5 m	Trailer	
449 376 070 0	IVTM	7 m	Trailer	7-pin
449 376 250 0	IVTM	25 m	Trailer	7-pin
449 674 273 0	T EBS D - IVTM	7 m / 6 m	Trailer	
449 911 060 0	T EBS E - IVTM	6 m	Trailer	
449 911 120 0	T EBS E - IVTM	12 m	Trailer	
894 607 295 0	IVTM	9 m	Bus	5-pin
894 607 390 0	IVTM	9 m	Motor Vehicle	7-pin

Telematic

16.01 TrailerGUARD TTU 446 290



446 290 110 0

446 290 150 0

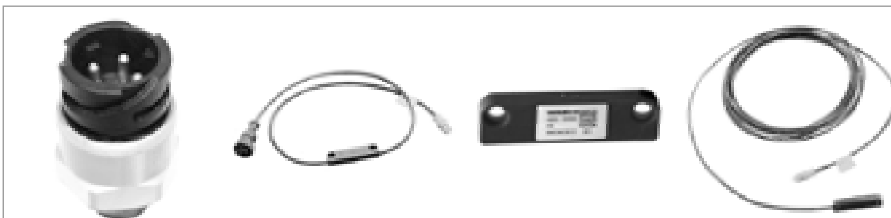
446 290 120 0

446 290 110 0 TTU Set: Trailer Telematic Unit (12...24 V), Cable clip, plug (3x)

446 290 120 0 Mounting Set: Cable clip (Bottom, Upper part), plug (3x)

446 290 150 0 Battery Set: Battery (Li-Io-Mn, 7.2 V, 4350 mAh), Screw

16.02 TrailerGUARD Accessory 446 290



441 044 110 0

446 290 231 0

446 290 261 0

446 290 25 / 26 0

441 044 110 0 Pressure Sensor (State recognition of trailer coupling). 0...10 bar. Electrical connection Bayonet (DIN)

446 290 231 0 Converter (State recognition of trailer coupling). 6...15 V. Length: 1.08 m

446 290 251 0 Door sensor. Length: 0.5 m. LIN Address ID: 1

446 290 252 0 Door sensor. Length: 0.5 m. LIN Address ID: 2

446 290 255 0 Door sensor. Length: 6 m. LIN Address ID: 1

446 290 256 0 Door sensor. Length: 6 m. LIN Address ID: 2

446 290 259 0 Door sensor. Length: 18 m. LIN Address ID: 1

446 290 260 0 Door sensor. Length: 18 m. LIN Address ID: 2

446 290 261 0 Solenoid for Door sensor

16.03 TrailerGUARD Connecting Cable

Part number	Application	Length	Connection	Electrical connection	Comments
449 718 005 0	Cooling	0.5 m	3× bared ends	Plug	Temperature Sensor
449 718 020 0	Cooling	2.0 m	3× bared ends	Plug	Temperature Sensor
449 718 025 0	Cooling	2.5 m	3× bared ends	Plug	Temperature Sensor
449 718 050 0	Cooling	5.0 m	3× bared ends	Plug	Temperature Sensor
449 718 150 0	Cooling	15.0 m	3× bared ends	Plug	Temperature Sensor
449 718 160 0	Cooling	16.0 m	3× bared ends	Plug	Temperature Sensor
449 745 005 0	Sensor	0.5 m	Socket	LIN	
449 746 150 0	Cooling	15.0 m	Plug	Socket	Elongation
449 747 060 0	Sensor	6.0 m	Plug	Socket	Elongation
449 748 180 0	Cooling	18.0 m	2× bared ends	Plug	Battery
449 910 005 0	power supply line	5.0 m	IN/OUT2 Trailer EBS D	POWER	

Part number	Application	Length	Connection	Electrical connection	Comments
449 917 025 0	power supply line	2.5 m	SUBSYSTEM Trailer EBS E	POWER	
449 917 050 0	power supply line	5.0 m	SUBSYSTEM Trailer EBS E	POWER	
449 918 025 0	power supply line	2.5 m	GIO 5 Trailer EBS E	POWER	
449 918 050 0	power supply line	5.0 m	GIO 5 Trailer EBS E	POWER	
449 919 050 0	power supply line	5.0 m	5× bared ends	POWER	
449 920 248 0	power supply line	1.0 m + 3.0/6.0 m	SUBSYSTEM Trailer EBS E	POWER	IVTM /SmartBoard
894 600 024 0	Sensor	0.15 m	Plug	2× Socket	Y-Manifold
894 600 025 0	Cooling	0.5 / 0.5 / 1.0 m	2× Socket	OPTION	Diagnostic connection
894 600 036 0	Cooling	0.5 / 0.5 m	2× Socket	OPTION	

Devices for Universal Application

17.01 Operating Cylinder 421 ...



421 410 025 0 421 410 041 0 421 411 021 0 421 411 078 0 421 411 311 0 421 429 003 0 421 444 020 0 421 445 000 0

421 410 020 0	F (4.5 bar) = 200...120 N. Type: Ø 30x45. Piston rod end: M 8. Port: 5x3. Max. operating pressure: 8 bar. Mounting: female M 8
421 410 023 0	F (4.5 bar) = 270...240 N. Type: Ø 30x25. Piston rod end: M 6. Port: 5x3. Max. operating pressure: 8 bar. Mounting: female M 6
421 410 025 0	F (4.5 bar) = 266...229 N. Type: Ø 30x25. Piston rod end: Hole Ø 6. Port: M 10x1. Max. operating pressure: 8 bar. Mounting hole: Ø 6
421 410 039 0	F (4.5 bar) = 270...240 N. Type: Ø 30x25. Piston rod end: M 8. Port: M 10x1. Max. operating pressure: 10 bar. Mounting hole: Ø 6
421 410 041 0	F (4.5 bar) = 200...120 N. Type: Ø 30x45. Piston rod end: M 8. Port: M 10x1. Max. operating pressure: 8 bar. Mounting hole: Ø 6
421 410 052 0	F (4.5 bar) = 270...240 N. Type: Ø 30x25. Piston rod end: M 6. Port: 5x3. Max. operating pressure: 8 bar. Mounting: female M 6
421 410 054 0	F (4.5 bar) = 200...120 N. Type: Ø 30x45. Piston rod end: M 8. Port: 5x3. Max. operating pressure: 8 bar. Mounting: female M 8. With gaiter
421 410 059 0	F (4.5 bar) = 235...170 N. Type: Ø 30x30. Piston rod end: M 6. Port: M 10x1. Max. operating pressure: 8 bar. Mounting: female M 6. With gaiter
421 410 060 0	F (4.5 bar) = 270...240 N. Type: Ø 30x25. Piston rod end: M 6. Port: M 10x1. Max. operating pressure: 8 bar. Mounting hole: Ø 6
421 410 066 0	F (4.5 bar) = 200...120 N. Type: Ø 30x45. Piston rod end: M 8. Port: M 10x1. Max. operating pressure: 8 bar. Mounting: female M 8
421 410 072 0	F (4.5 bar) = 212...94 N. Type: Ø 30x25. Piston rod end: M 8. Port: M 10x1. Max. operating pressure: 8 bar. Mounting hole: Ø 6
421 410 075 0	F (4.5 bar) = 235...170 N. Type: Ø 30x32. Piston rod end: M 8. Port: M 10x1. Max. operating pressure: 8 bar. Mounting: female M 8
421 410 079 0	F (4.5 bar) = 230...190 N. Type: Ø 30x55. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 8
421 411 021 0	F (5.0 bar) = 230...190 N. Type: Ø 30x65. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 8
421 411 031 0	F (4.5 bar) = 300...110 N. Type: Ø 30x85. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 8
421 411 065 0	F (4.5 bar) = 310...145 N. Type: Ø 30x85. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 16
421 411 070 0	F (6.0 bar) = 410...270 N. Type: Ø 30x38. Piston rod end: Yoke. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 10. With gaiter
421 411 078 0	F (5.0 bar) = 350...190 N. Type: Ø 30x65. Piston rod end: M8. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 8. With gaiter. Replacement: 421 411 021 0
421 411 079 0	F (6.0 bar) = 410...270 N. Type: Ø 30x38. Piston rod end: M8. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 8. With gaiter. Replacement: 421 411 070 0
421 411 094 0	F (4.5 bar) = 348...240 N. Type: Ø 30x50. Piston rod end: M12. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 8
421 411 300 0	F (4.5 bar) = 310...145 N. Type: Ø 30x85. Piston rod end: M12. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 8
421 411 301 0	F (4.5 bar) = 300...120 N. Type: Ø 30x78. Piston rod end: M8. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 8.
421 411 302 0	F (4.5 bar) = 320...145 N. Type: Ø 30x85. Piston rod end: M 12x1.5. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 8
421 411 304 0	F (4.5 bar) = 320...145 N. Type: Ø 30x85. Piston rod end: Yoke. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 8
421 411 305 0	F (4.5 bar) = 270...130 N. Type: Ø 30x54. Piston rod end: M 8. Port: 1/4"-18NPTF. Max. operating pressure: 10 bar. Mounting hole: Ø 8
421 411 306 0	F (4.5 bar) = 310...145 N. Type: Ø 30x85. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 8
421 411 308 0	F (4.5 bar) = 354...215 N. Type: Ø 30x85. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 8

421 411 309 0	F (4.5 bar) = 330...240 N. Type: Ø 30x54. Piston rod end: M 8. Port: 1/4"-18NPTF. Max. operating pressure: 10 bar. Mounting hole: Ø 8
421 411 311 0	F (4.5 bar) = 330...20 N. Type: Ø 30x73. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 8.
421 411 312 0	F (4.5 bar) = 330...230 N. Type: Ø 30x60. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 8. Replacement: 421 411 314 0
421 411 314 0	F (4.5 bar) = 340...230 N. Type: Ø 30x60. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 8
421 411 316 0	F (4.5 bar) = 340...230 N. Type: Ø 30x60. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 16
421 411 500 0	F (6.5 bar) = 1145...1075 N. Type: Ø 50x53. Piston rod end: M 10. Port: M 12x1.5. Max. operating pressure: 12 bar. Mounting hole: Ø 16.5
421 412 000 0	F (4.5 bar) = 590...410 N. Type: Ø 50x65. Piston rod end: M 12x1.5. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting hole: Ø 12. With gaiter
421 425 011 0	F (6.0 bar) = 160...60 N. Type: Ø 25x48. Piston rod end: M 8. Port: male M 12x1.5. Max. operating pressure: 8 bar. Mounting hole: Ø 8
421 427 002 0	F (7.0 bar) = 175...133 N. Type: Ø 20x38. Piston rod end: Hole Ø 4. Port: M 12x1.5. Max. operating pressure: 7 bar. Mounting hole: Ø 6
421 429 002 0	F (5.5 bar) = 270...140 N. Type: Ø 20x70. Piston rod end: M 8. Port: M 10x1. Max. operating pressure: 10 bar. Mounting hole: Ø 8.
421 429 003 0	F (5.5 bar) = 250...120 N. Type: Ø 28x48. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 8.5 bar. Mounting hole: Ø 8.2
421 429 006 0	F (5.5 bar) = 270...194 N. Type: Ø 28x48. Piston rod end: M 8. Port: M 10x1. Max. operating pressure: 10 bar. Mounting hole: Ø 8.
421 441 003 0	F = 324...68 N. With compensation feature for injection pumps. Type: Ø 35x32x50. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 8 bar. Mounting: female M 8
421 441 013 0	F = 324...68 N. With compensation feature for injection pumps. Type: Ø 35x40x40. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 8 bar. Mounting: female M 8
421 441 020 0	F = 324...68 N. Type: Ø 35x32. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 8 bar. Mounting: ball socket B 10
421 441 022 0	F = 360...100 N. Type: Ø 35x55. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 8 bar. Mounting: female M 8
421 441 050 0	F = 324...68 N. With compensation feature for injection pumps. Type: Ø 35x32x50. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 8 bar. Mounting: ball socket B 10
421 441 060 0	F = 324...16 N. With compensation feature for injection pumps. Type: Ø 35x40x40. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 8 bar. Mounting: ball socket B 10
421 442 000 0	F = 701...445 N. Type: Ø 35x40. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 8 bar. Mounting: ball socket B 10
421 442 005 0	F = 669...259 N. Type: Ø 35x40. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 8 bar. Mounting: female M 8. Replacement: 421 442 008 0
421 442 008 0	F = 669...259 N. Type: Ø 35x40. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 8 bar. Mounting: female M 8
421 442 017 0	F = 649...259 N. Type: Ø 35x40. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 11.2 bar. Mounting: ball socket B 10
421 442 018 0	F = 669...259 N. Type: Ø 35x60. Piston rod end: M 8. Port: M 12x1.5. Max. operating pressure: 8 bar. Mounting: female M 8
421 444 020 0	F = 86...68 N. Type: Ø 20x15. Piston rod end: Ø 6. Port: M 12x1.5. Max. operating pressure: 10 bar. Mounting: male M 14x1.5
421 445 000 0	F = 255...55 N. Type: Ø 32x32. Piston rod end: M 8. Port: M 10x1. Max. operating pressure: 10 bar. Mounting hole: Ø 10.2
463 100 2	F = 265...98 N. Type: Ø 28x48. Piston rod end: M 8. Port: G 1/8". Max. operating pressure: 8 bar. Mounting hole: Ø 10
463 209 8	F = 265...98 N. Type: Ø 28x48. Piston rod end: M 8. Port: M 10. Max. operating pressure: 8 bar. Mounting hole: Ø 10

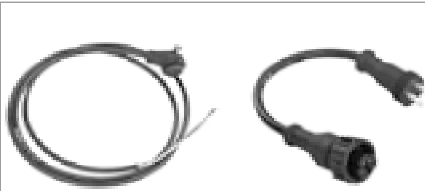
17.02 Shut-off cock 452 002/ 952 00.



452 002 131 0	2/2, M 22x1.5, without Exhaust. Lever actuation: 90° (one way). Replacement for: 452 002 105 0
452 002 132 0	2/3, M 22x1.5. With Exhaust. Lever actuation: 90°. Replacement for: 452 002 100 0 /107 0
452 002 133 0	2/3, M 22x1.5, without Exhaust. Lever actuation: 90°. Replacement for: 452 002 114 0
452 003 020 0	4/2, M 12x1.5. Lever actuation: 90° (one way)
452 003 022 0	4/2, M 12x1.5. Lever actuation: 90° (one way)

952 002 000 0	2/2, M 22x1.5. Lever actuation: 90° (one way)
952 003 023 0	4/2 Way Cock, M 12x1.5. With operating assembly
952 003 032 0	4/2 Way Cock, M 12x1.5. Without actuating knob. With micro switch
952 003 100 0	4/2 Way Cock, M 12x1.5. With operating assembly. Port 3 closed

17.03 Connecting Cable 449/ 894 6..



449 753 100 0

894 601 132 2

Part number	Type	Length	A Connection	B Connection	Comments
449 413 040 0	Bayonet	4 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	
449 413 050 0	Bayonet	5 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	
449 413 060 0	Bayonet	6 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	
449 413 080 0	Bayonet	8 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	
449 413 100 0	Bayonet	10 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	
449 413 150 0	Bayonet	15 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	
449 415 060 0	Bayonet	6 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	
449 415 080 0	Bayonet	8 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	
449 415 100 0	Bayonet	10 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	
449 513 004 0	Bayonet	0.4 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 040 0	Bayonet	4 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 050 0	Bayonet	5 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 060 0	Bayonet	6 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 080 0	Bayonet	8 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 090 0	Bayonet	9 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 100 0	Bayonet	10 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 120 0	Bayonet	12 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 150 0	Bayonet	15 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 513 160 0	Bayonet	16 m	ISO 15170-B1-3.1-Sn/K1	3x bared ends	90° Plug
449 515 004 0	Bayonet	0.4 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	90° Plug
449 515 020 0	Bayonet	2 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	90° Plug
449 515 050 0	Bayonet	5 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	90° Plug
449 515 070 0	Bayonet	7 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	90° Plug
449 515 100 0	Bayonet	10 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	90° Plug
449 515 150 0	Bayonet	15 m	ISO 15170-B1-2.1-Sn/K1	2x bared ends	90° Plug
449 521 005 0	Kostal	0.5 m	M 27x1	2x bared ends	
449 521 100 0	Kostal	10 m	M 27x1	2x bared ends	
449 521 150 0	Kostal	15 m	M 27x1	2x bared ends	
894 600 451 2	Kostal	0.3 m	M 27x1	2x bared ends	90° Plug
894 600 454 2	Kostal	5 m	M 27x1	2x bared ends	90° Plug
894 600 458 2	Kostal	10 m	M 27x1	2x bared ends	90° Plug
894 601 132 2	Adapter	0.15 m	ISO 15170-B1-3.1-Sn/K1	M 24	Kostal Plug
894 601 133 2	Adapter	0.15 m	ISO 15170-B1-3.1-Sn/K1	M 24	Kostal Connector
894 601 134 2	Adapter	0.15 m	ISO 15170-B1-2.1-Sn/K1	M 27	Kostal Plug
894 601 135 2	Adapter	0.15 m	ISO 15170-B1-2.1-Sn/K1	M 27	Kostal Connector

17.04 Silencer 432 407



432 407 012 0	Snap-on contour / Clip. Max. operating pressure 18.5 bar. Exhaust with silencer
432 407 015 0	Saw-tooth profile. With O-Ring. Operating pressure max. 18.5 bar. Exhaust with silencer
432 407 016 0	Saw-tooth profile. With O-Ring. Operating pressure max. 13 bar. Exhaust with silencer
432 407 018 0	Max. operating pressure 13 bar. Silencer
432 407 060 0	M 22x1.5. Max. operating pressure 13 bar. Silencer
432 407 070 0	Snap-on contour max. 10 bar. Silencer
532 400 111 0	M 10x1. Max. operating pressure 10 bar
532 400 117 0	M 12x1.5. Max. operating pressure 10 bar
975 303 531 2	Silencer, for 975 303 ... 0. Max. operating pressure 12 bar

17.05 Double Check Valve 434 20.



434 200 000 0	M 22x1.5. Pressure Reducing Valve
434 202 000 0	M 22x1.5. Nominal diameter 12 mm
434 202 100 0	M 22x1.5. Nominal diameter 7 mm
434 205 030 0	3/2 Directional Control Valve. Max. operating pressure 11 bar. Nominal diameter 5. Push button
434 205 031 0	M 12x1.5. Mounting nut. Without actuating knob
434 205 032 0	M 12x1.5, Mounting holes
434 208 000 0	M 22x1.5
434 208 002 0	G 3/8"
434 208 009 0	M 16x1.5
434 208 019 0	M 16x1.5, flange fixation
434 208 020 0	M 16x1.5, flange fixation
434 208 021 0	M 22x1.5
434 208 027 0	M 22x1.5, flange fixation, Voss 230
434 208 028 0	M 16x1.5, flange fixation
434 208 029 0	M 22x1.5, flange fixation
434 208 030 0	M 16x1.5, flange fixation, Voss 230
434 208 031 0	M 22x1.5
434 208 035 0	M 16x1.5, flange fixation
434 208 050 0	M 16x1.5 / M 14x1.5. Priority control 2 -11
434 208 054 0	M 22x1.5 / M 14x1.5 / M 16x1.5. Priority control 2 -11
434 208 055 0	M 16x1.5 / M 14x1.5. Priority control 2 -11
463 068 003 0	M 16x1.5
534 017 009 0	M 14x1.5, 0.3 - 10 bar

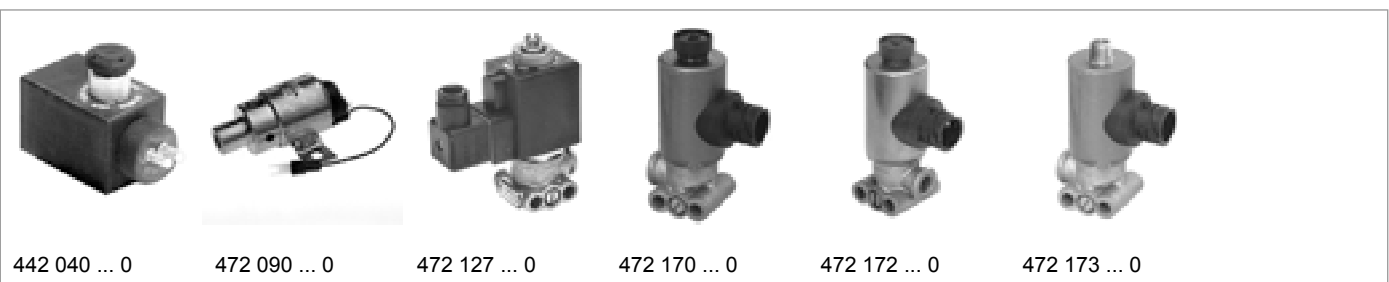
17.06 Control Valve 463 ...



434 205 026 0 463 013 ... 0 463 013 124 0 463 036 000 0 463 037 001 0 463 079 003 0 563 020 000 0 571 040 000 0

434 205 026 0	3/2 Directional Control Valve. M 12x1.5. Without actuating knob
463 013 110 0	Stroke 5.7. Stem 46.9 mm, M 12x1.5
463 013 111 0	Stroke 5.7. Stem 39.6 mm, M 12x1.5
463 013 112 0	Stroke 5.7. Stem 37.9 mm, M 12x1.5
463 013 114 0	Stroke 5.7. Stem 95.6 mm, M 12x1.5
463 013 116 0	Stroke 5.7. Stem 46.9 mm, M 12x1.5. Nut M 26x1.5
463 013 118 0	Stroke 7.5. Stem 112 mm
463 013 122 0	Stroke 7.5. Stem 57 mm, M 12x1,5
463 013 124 0	Stroke 5.7. Stem 37.9 mm, M 12x1.5. Nut M 26x1.5
463 013 126 0	Stroke 7.5. Stem 57 mm, M 12x1.5
463 013 128 0	Stroke 7.5. Stem 39.6 mm, M 12x1.5
463 013 130 0	Stroke 5.7. Stem 37.9 mm, M 16x1.5
463 013 200 0	Stroke 10. Stem 41 mm, M 12x1.5 / M 16x1.5
463 013 210 0	Stroke 5.7. Stem 37.9 mm, M 12x1.5 / M 16x1.5
463 022 020 0	Stroke 12.5. Stem 42 mm, M 10x1
463 022 021 0	Stroke 12.5. Stem 42 mm, M 10x1
463 036 000 0	With operating assembly. With parking position, M 10x1
463 036 001 0	With operating assembly. With parking position, M 10x1
463 036 008 0	With operating assembly. With parking position, M 12x1.5
463 036 010 0	Without actuating knob. With parking position, M 16x1.5, for Voss 230
463 036 016 0	With operating assembly. With parking position, M 16x1.5, for Voss 230
463 036 024 0	Push button. Actuating range 4.5. Nominal diameter M 10x1, for Voss 230
463 036 026 0	Without actuating knob. Iveco Stralis
463 037 001 0	Nominal diameter 2.5
463 037 006 0	4/3 Directional Control Valve. With operating assembly. Nominal diameter 4
463 037 110 0	4/3 Directional Control Valve. With operating assembly. Nominal diameter 3
463 079 003 0	4/2. Type: Spool. Control pressure 2 - 5 bar. Operating pressure 8 bar
463 079 012 0	3/2 Directional Control Valve. Port threads M 14x1.5. Control port 3...10 bar, M 14x1.5. Nominal diameter 7
563 020 000 0	3/2 Directional Control Valve. Nominal diameter 4. Port threads M 10x1
563 446 931 0	M 14x1.5. Nominal diameter 7 mm. Control port M 10x1 & Push button. 3/2 Directional Control Valve
571 040 000 0	3/2 Directional Control Valve, M 14x1.5, 24 V, Normally Open or Closed. Nominal diameter 7
964 001 002 0	Nominal diameter 7 mm. Max. operating pressure 12 bar. Lock valve

17.07 Solenoid Valve 472 ...



442 040 ... 0 472 090 ... 0 472 127 ... 0 472 170 ... 0 472 172 ... 0 472 173 ... 0

442 001 222 1	3/2, 24 V, vented. Nominal diameter 1. Electrical connection Bayonet DIN 72585-A1-3.6-Sn/K2
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442 019 115 1	24 V. Application 432 431 / 432 432
442 040 602 0	24 V. Nominal diameter 1, for ECAS Valve 472 900 ...
472 070 339 0	24 V, vented. Nominal diameter 4. with fording ability
472 070 628 0	24 V, vented. Nominal diameter 4. Electrical connection Bayonet DIN 72585-A1-3.2-Sn/K1
472 070 639 0	24 V, vented. Nominal diameter 4. Electrical connection Bayonet DIN 72585-A1-2.1-Sn/K2, for Voss push-in fittings
472 072 628 0	24 V, vented, Nominal diameter 2.2. Electrical connection Bayonet DIN 72585-A1-3.2-Sn/K1
472 072 639 0	24 V, vented, Nominal diameter 2.2. Electrical connection Bayonet DIN 72585-A1-2.1-Sn/K, for Voss push-in fittings
472 090 202 0	24 V, vented. Nominal diameter 2.8. NPSF 1/4"-18. Alternative: 472 170 606 0 & 449 515 004 0
472 102 040 0	12 ... 24 V, Normally Open. Nominal diameter 2.2. with Plug
472 123 107 0	12 V, vented. Nominal diameter 2.2. Electrical connection M 27x1
472 123 142 0	24 V, vented. Nominal diameter 2.2
472 125 707 0	12 V. Normally Open. Nominal diameter 4. Electrical connection Kostal M 27x1
472 127 140 0	12 ... 24 V, vented. Nominal diameter 2.2, with Plug
472 132 198 0	24 V, vented. Nominal diameter 2.2. Electrical connection Bayonet
472 170 600 0	24 V, vented. Nominal diameter 4. Electrical connection Kostal M 27x1
472 170 601 0	12 V, vented. Nominal diameter 4. Electrical connection Kostal M 27x1
472 170 604 0	24 V, vented. Nominal diameter 4. Electrical connection Bayonet
472 170 606 0	24 V, vented. Nominal diameter 4. Electrical connection Bayonet DIN 72585-A1-2.1-Sn/K1
472 170 616 0	24 V, vented. Nominal diameter 4. Bayonet DIN 72585-A1-2.1-Sn/K2
472 170 636 0	24 V, vented. Nominal diameter 4. Electrical connection Bayonet DIN 72585-A1-2.1-Sn/K2
472 170 637 0	12 V, vented. Nominal diameter 4. Electrical connection Bayonet DIN 72585-A1-2.1-Sn/K2
472 170 686 0	24 V, vented. Nominal diameter 4. Electrical connection Bayonet DIN 72585-A1-2.1-Sn/K2
472 171 000 0	24 V, Normally Open. Nominal diameter 2.2. Electrical connection Kostal M 27x1
472 171 336 0	24 V. Normally Open. Nominal diameter 2.2. Electrical connection Bayonet DIN 72585-A1-2.1-Sn/K2
472 171 428 0	24 V, Normally Open. Nominal diameter 2.2. Electrical connection DIN 72585-A1-3.2-Sn/K1
472 171 700 0	24 V. Normally Open. Nominal diameter 2.2. Electrical connection Kostal M 27x1
472 171 704 0	24 V, Normally Open. Nominal diameter 2.2
472 171 726 0	24 V, Normally Open. Nominal diameter 2.2. Electrical connection DIN 72585-A1-2.1-Sn/K1
472 172 600 0	24 V, vented. Nominal diameter 2.2. Electrical connection Kostal M 27x1
472 172 604 0	24 V, vented. Nominal diameter 2.2. Electrical connection Bayonet
472 172 606 0	24 V, vented. Nominal diameter 2.2. Electrical connection Bayonet DIN 72585-A1-2.1-Sn/K1
472 172 620 0	24 V, vented. Nominal diameter 2.2. Electrical connection Kostal M 27x1.5
472 172 626 0	24 V, vented. Nominal diameter 2.2. Electrical connection Bayonet DIN 72585-A1-2.1-Sn/K1
472 172 686 0	24 V, vented. Nominal diameter 2.2. Electrical connection DIN 72585-A1-2.1-Sn/K1
472 172 704 0	24 V, vented. Nominal diameter 2.2. Electrical connection Bayonet
472 173 204 0	24 V, Normally Open. Nominal diameter 4
472 173 226 0	24 V, Normally Open. Nominal diameter 4. Electrical connection Bayonet DIN 72585-A1-2.1-Sn/K2
472 173 428 0	24 V, Normally Open. Nominal diameter 4. Electrical connection Bayonet DIN 72585-A1-3.2-Sn/K1
472 173 700 0	24 V, Normally Open. Nominal diameter 4. Electrical connection Kostal M 27x1
472 173 704 0	24 V, Normally Open. Nominal diameter 4. Electrical connection Bayonet
472 176 316 0	24 V, Normally Open. Nominal diameter 4 mm. Bayonet DIN 72585-A1-2.1-Sn/K1, M 16x1.5, Voss 230
472 178 426 0	Supply dump valve, 24 V. Idle position: closed. Nominal diameter 2.2 mm. Bayonet DIN 72585-A1-2.1-Sn/K1
472 279 906 0	3/2 Directional Control Valve + Supply dump valve, 24 V, vented. Nominal diameter 4. Electrical connection Bayonet DIN 72585-A1-2.1-Sn/K1

17.08 Exhaust Filter 432 70.



432 700 000 0



432 703 000 0

432 700 000 0 M 22x1.5, for Valves / Brake Actuator

432 703 000 0 M 12x1.5

17.09 Exhaust 899 470



899 470 200 0

899 470 200 0 M 14x1, DIN 158

17.10 Non-return Valve 434 ...



434 014 000 0

434 014 100 0

434 014 000 0 M 22x1.5, max. 20 bar

434 014 001 0 M 22x1.5. Max. operating pressure 8 bar, constant throttling Ø 1mm

434 014 008 0 M 22x1.5, max. 20 bar. Port 2 with strainer screen

434 014 011 0 M 22x1.5 (Parker), max. 20 bar

434 014 100 0 M 22x1.5, max. 20 bar. with silencing

434 014 101 0 M 22x1.5. Max. operating pressure 20 bar. with throttle Ø1.5

434 014 200 0 M 22x1.5, max. 20 bar. Port 2 with strainer screen

434 021 004 0 M 22x1.5 / M 22x1.5

434 023 000 0 Max. operating pressure 8 bar. Port threads M 22x1.5

17.11 Throttled Check Valve 434 0..



434 015 000 0

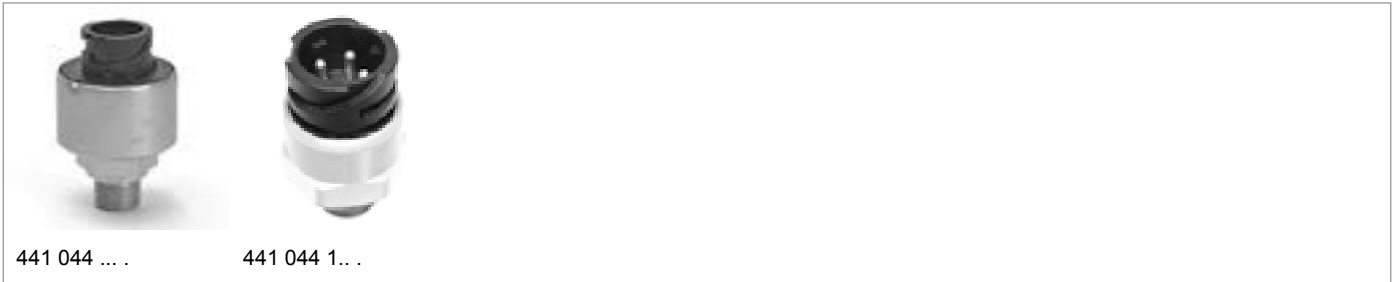
434 015 000 0 M 22x1.5, plate Ø 0.3 mm - Ø 5 mm,

17.12 Pressure Switch 441 009/ 441 0.4



Part number	Type	Switch pressure	Port threads	Max. operating pressure
262625	Cut-in switch	5 PSI	1/4"-18 NPTF	
441 009 001 0	Cut-in switch	5,0 ±0,1 bar	M 22x1,5	10 bar
441 009 100 0	Cut-out switch	0.3 ±0.1 bar	M 22x1,5	10 bar
441 009 101 0	Cut-out switch	5 ±0.2 bar	M 22x1,5	10 bar
441 014 001 0	Cut-in switch	2.0 ±0.2 bar	M 12x1.5	10 bar
441 014 002 0	Cut-in switch	1.0 ±0.2 bar	M 10x1 tapered	10 bar
441 014 004 0	Cut-out switch	5.5 ±0.6 bar	M 12x1.5	10 bar
441 014 006 0	Cut-out switch	2.0 ±0.2 bar	M 12x1.5	10 bar
441 014 007 0	Cut-in switch	3.0 ±0.3 bar	M 10x1 tapered	10 bar
441 014 009 0	Cut-in switch	4.0 ±0.4 bar	M 10x1 tapered	10 bar
441 014 010 0	Cut-out switch	0.3 ±0.1 bar	M 12x1.5	10 bar
441 014 012 0	Cut-out switch	3.5 ±0.4 bar	M 12x1.5	10 bar
441 014 013 0	Cut-out switch	4.0 ±0.4 bar	M 12x1.5	10 bar
441 014 014 0	Cut-out switch	4.5 ±0.5 bar	M 12x1.5	10 bar
441 014 015 0	Cut-out switch	5.0 ±0.5 bar	M 12x1.5	10 bar
441 014 017 0	Cut-in switch	4.0 ±0.4 bar	M 12x1.5	10 bar
441 014 018 0	Cut-out switch	1.2 ±0.2 bar	M 12x1.5	10 bar
441 014 019 0	Cut-in switch	0.15 +0.05-0.1 bar	M 12x1.5	10 bar
441 014 021 0	Cut-in switch	0.5 ±0.1 bar	M 12x1.5	10 bar
441 014 022 0	Cut-in switch	6.0 ±0.7 bar	M 12x1.5	10 bar
441 014 023 0	Cut-in switch	2.5 ±0.3 bar	M 12x1.5	10 bar
441 014 024 0	Cut-in switch	1.0 ±0.2 bar	M 12x1.5	10 bar
441 014 025 0	Cut-out switch	6.0 ±0.7 bar	M 12x1.5	10 bar
441 014 026 0	Cut-in switch	4.5 ±0.5 bar	M 12x1.5	10 bar
441 014 029 0	Cut-in switch	5.0 ±0.5 bar	M 12x1.5	10 bar
441 014 032 0	Cut-out switch	5.2 ±0.5 bar	M 12x1.5	10 bar
441 014 040 0	Cut-in switch	3.0 ±0.4 bar	M 12x1.5	10 bar
441 014 044 0	Cut-out switch	17 ±1 bar	M 12x1.5	200 bar
441 014 049 0	Cut-out switch	50 ... 150 bar	M 12x1.5	200 bar
441 014 055 0	Cut-in switch	1 ... 10 bar	M 12x1.5	200 bar
441 014 061 0	Cut-out switch	5.7 ±0.6 bar	M 12x1.5	10 bar
441 014 072 0	Cut-out switch	6.6 ±0.5 bar	M 12x1.5	10 bar
441 014 102 0	Cut-out switch	5.5 ±0.6 bar	M 12x1.5 internal	10 bar
441 014 104 0	Cut-in switch	0.5 ±0.1 bar	M 12x1.5 internal	10 bar
441 014 105 0	Cut-out switch	5.7 ±0.6 bar	M 12x1.5 internal	10 bar
441 024 006 0	Cut-out switch	5.8 ±4 bar	M 12x1.5	10 bar
441 024 007 0	Cut-in switch	0.6 ±0.1 bar	M 12x1.5	10 bar

17.13 Pressure Sensor 441 04.



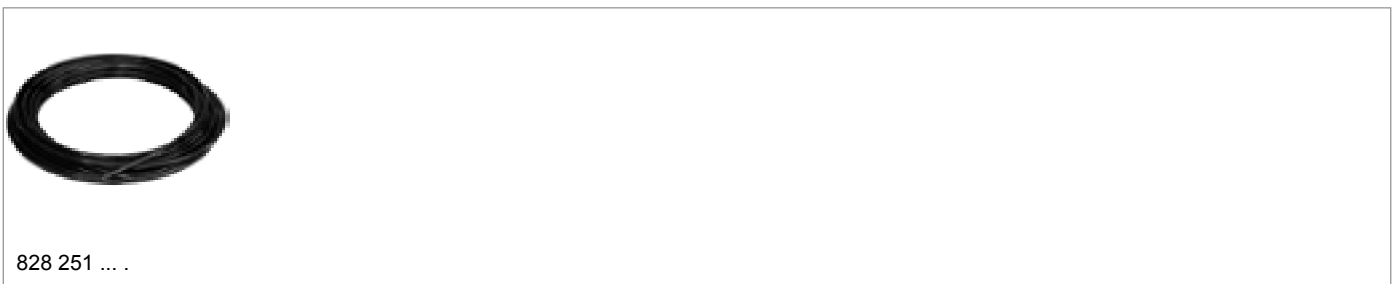
441 040 013 0	M 16x1.5. Bayonet DIN 72585-A1-3.1-Sn/K2, 400 mV/bar (16 counts/bar)
441 040 017 0	M 16x1.5. Bayonet DIN 72585-A1-3.1-Sn/K2, O-Ring, 400 mV/bar (16 counts/bar). Replacement: 441 044 105 0
441 040 018 0	M 16x1.5. Bayonet DIN 72585-A1-3.1-Sn/K2, 400 mV/bar (16 counts/bar). Replacement: 441 044 109 0
441 040 101 0	M 16x1.5. Bayonet DIN 72585-A1-3.1-Sn/K2, 400 mV/bar (16 counts/bar)
441 040 102 0	M 16x1.5. Bayonet DIN 72585-A1-3.1-Sn/K2, 400 mV/bar (16 counts/bar),
441 044 001 0	M 16x1.5. Bayonet DIN 72585-A1-3.1-Sn/K2, 400 mV/bar (16 counts/bar)
441 044 101 0	Pressure Sensor. M 16x1.5. Bayonet DIN 72585-A1-3.1-Sn/K2, 400 mV/bar. Replacement for: 441 040 007 0, 441 040 010 0
441 044 102 0	Pressure Sensor. M 16x1.5. Bayonet DIN 72585-A1-3.1-Sn/K2, 400 mV/bar. Replacement for: 441 040 015 0; 441 044 002 0
441 044 104 0	Pressure Sensor. M 16x1.5. Bayonet DIN 72585-A1-3.1-Sn/K2, 333 mV/bar
441 044 108 0	Pressure Sensor. M 16x1.5. Bayonet DIN 72585-A1-3.1-Sn/K2, 400 mV/bar

17.14 Relay 894 055



446 036 000 0	24 V, 20 A
894 055 070 2	Relay 12 V, 40/20 A, without Shackle
894 055 080 2	Relay 24 V, 30/20 A, without Shackle
894 055 100 2	Relay 24 V, 30/20 A, without Shackle

17.15 Plastic Tube 828 ...



Part number	Nominal diameter	Colour	Length	Range of application
828 002 110 6	Ø 10x1.5	Black	100 m	
828 002 116 6	Ø 16x2	Black	100 m	
828 251 008 6	Ø 8x1	Black	100 m	

Part number	Nominal diameter	Colour	Length	Range of application
828 251 010 6	Ø 10x1	Black	100 m	
828 251 011 6	Ø 10x1.5	Black	50 m	
828 251 012 6	Ø 12x1.5	Black	100 m	
828 251 106 6	Ø 6x1	Black	25 m	
828 251 108 6	Ø 8x1	Black	25 m	
828 251 110 6	Ø 10x1	Black	25 m	
828 251 112 6	Ø 12x1.5	Black	25 m	
828 251 114 6	Ø 14x2	Black	25 m	
828 251 115 6	Ø 15x1.5	Black	25 m	
828 251 116 6	Ø 16x2.25	Black	25 m	
828 251 118 6	Ø 18x2	Black	25 m	
828 251 914 6	Ø 12x1.5	Black	50 m	
828 251 915 6	Ø 10x1	Black	50 m	
828 251 924 6	Ø 4x1	Blue	25 m	Ancillaries
828 251 934 6	Ø 10x1.25	Black	100 m	
828 251 942 6	Ø 15x2	Black	50 m	
828 251 950 6	Ø 8x1	Yellow	100 m	Ancillaries
828 251 951 6	Ø 8x1	Blue	100 m	Ancillaries
828 251 952 6	Ø 8x1	Red	100 m	Ancillaries
828 251 953 6	Ø 8x1	Green	100 m	Ancillaries
828 251 967 6	Ø 6x1	Black	100 m	
828 251 968 6	Ø 15x1.5	Black	100 m	
828 251 969 6	Ø 18x2	Black	100 m	
828 251 970 6	Ø 6x1	Black	50 m	
828 251 971 6	Ø 8x1	Black	50 m	
828 251 972 6	Ø 15x1.5	Black	50 m	
828 251 976 6	Ø 10x1.25	Black	500 m	
828 251 977 6	Ø 15x2	Black	100 m	
828 251 978 6	Ø 4x1	Black	100 m	
828 252 110 6	Ø 10x1.5	Black	25 m	
828 252 112 6	Ø 12x1.75	Black	25 m	
828 252 113 6	Ø 8x1	Black	500 m	
828 252 114 6	Ø 10x1	Black	500 m	
828 252 115 6	Ø 12x1.5	Black	500 m	
828 876 952 6	Ø 4x1	Red	25 m	Ancillaries
828 876 953 6	Ø 4x1	Black	25 m	

17.16 Brake Hose 828 87.

Part number	Nominal diameter	Colour	Length	Comments
828 876 011 6	Ø 11x3.5	Black	20 m	smooth
828 876 013 6	Ø 13x6	Black	20 m	smooth
828 876 411 6	Ø 11x3.5	Black	40 m	smooth
828 876 413 6	Ø 13x6	Black	40 m	smooth
828 876 915 6	Ø 4x3	Blue	25 m	
828 877 000 6	Ø 13x6	Black	20 m	Rolled laminated
828 877 001 6	Ø 11x3.5	Black	20 m	Rolled laminated

17.17 Grease 830 ...



- 830 502 076 4** 5 g. Standard grease RHF1
- 830 503 062 4** 5 g. High temperatur grease for Sensors
- 830 503 065 4** 1 kg. Standard grease RHF 1

17.18 Others



- 434 500 003 0** Double Cut-Off Valve, M 22x1.5, "Select low"
- 434 500 007 0** Double Cut-Off Valve M 22x1.5 Voss 232. "Select low"
- 452 601 000 0** Tyre Inflation Hose, Length 6 m
- 452 601 005 0** Tyre Inflation Hose. Length 10 m
- 453 002 000 0** Pressure Gauge, Ø 60, to 10 bar. Lighting. Application: Vehicles
- 453 011 000 0** Pressure Gauge, Ø 62, to 25 bar.
- 453 197 000 0** Twin Pressure Gauge, Ø 60, to 10 bar. Lighting. Application: Vehicles
- 975 009 001 0** Air Control Unit. Engine Control. EURO 4 SCR System. Mercedes

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10 270 258	78	246 301 902 0	123	40 465 020	75	412 704 009 0	8	421 411 311 0	112
10 270 259	78	246 301 904 0	123	400 500 070 0	46	412 704 015 0	8	421 411 312 0	112
10 310 009	78	372 060 022 0	103	400 500 081 0	46	412 704 018 0	8	421 411 314 0	112
10 310 010	78	372 060 062 0	103	400 500 082 0	46	414 001 002 0	10	421 411 316 0	112
10 315 059	78	40 100 001	75	400 500 083 0	46	415 403 105 0	9	421 411 500 0	112
10 315 060	79	40 100 002	75	400 500 084 0	46	415 403 106 0	9	421 412 000 0	112
10 360 077	79	40 160 015	75	400 500 086 0	46	415 403 112 0	9	421 425 011 0	112
10 360 078	79	40 160 016	75	400 500 102 0	46	415 403 122 0	9	421 427 002 0	112
10 360 079	79	40 175 049	76	400 500 103 0	47	415 403 126 0	9	421 429 002 0	112
10 360 080	79	40 175 050	76	400 600 010 0	41	415 403 300 0	9	421 429 003 0	112
10 360 097	79	40 175 051	76	400 600 464 0	48	415 403 301 0	9	421 429 006 0	112
10 360 098	79	40 175 052	76	400 600 465 0	48	415 403 302 0	9	421 441 003 0	112
10 360 105	79	40 175 058	76	411 003 011 0	7	415 403 303 0	9	421 441 013 0	112
10 360 106	79	40 175 059	76	411 033 801 2	7	415 403 304 0	9	421 441 020 0	112
10 410 837	79	40 175 062	76	411 033 806 2	7	415 403 305 0	9	421 441 022 0	112
10 410 838	79	40 175 063	76	411 034 501 0	7	415 403 401 0	9	421 441 050 0	112
10 410 839	79	40 175 064	76	411 141 001 0	7	415 403 402 0	9	421 441 060 0	112
10 410 840	79	40 175 065	76	411 141 002 0	7	415 403 404 0	10	421 442 000 0	112
10 410 849	79	40 175 070	76	411 141 004 0	7	415 404 001 0	10	421 442 005 0	112
10 410 850	79	40 175 071	76	411 141 005 0	7	421 021 030 0	74	421 442 008 0	112
10 410 851	79	40 175 072	76	411 141 006 0	7	421 350 001 0	100	421 442 017 0	112
10 500 783	79	40 175 073	76	411 141 010 0	7	421 350 061 0	100	421 442 018 0	112
10 500 784	79	40 175 080	76	411 141 102 0	7	421 350 072 0	100	421 444 020 0	112
10 500 785	79	40 175 081	76	411 141 503 0	7	421 351 000 0	100	421 445 000 0	112
10 500 789	79	40 195 001	76	411 141 506 0	7	421 351 001 0	100	422 802 402 0	103
12 182 091	79	40 195 002	76	411 141 552 0	7	421 351 070 0	100	422 802 421 0	103
12 258 184VT	79	40 195 009	76	411 141 845 0	7	421 351 075 0	100	422 812 000 0	103
12 258 186VT	79	40 195 010	76	411 143 805 0	7	421 352 082 0	100	422 812 002 0	103
12 258 187VT	79	40 195 017	77	411 145 507 0	7	421 355 930 2	100	423 000 534 2	72
12 258 651VT	79	40 195 018	77	411 146 003 0	7	421 355 931 2	100	423 000 535 2	72
12 258 669VT	79	40 195 021	77	411 147 066 0	7	421 355 934 2	100	423 003 502 0	61
12 603 115VT	79	40 195 022	77	411 151 000 0	7	421 410 020 0	111	423 003 508 0	61
12 603 176VT	79	40 195 037	77	411 151 003 0	7	421 410 023 0	111	423 007 019 0	61
12 603 186VT	79	40 195 038	77	411 151 004 0	7	421 410 025 0	111	423 008 917 0	61
12 603 187VT	79	40 195 043	77	411 151 009 0	7	421 410 039 0	111	423 008 919 0	61
12 603 195VT	79	40 195 044	77	411 153 500 0	7	421 410 041 0	111	423 014 350 4	72
12 739 075VT	80	40 195 045	77	411 154 004 0	7	421 410 052 0	111	423 020 000 0	61
12 739 085VT	80	40 195 046	77	411 553 001 0	8	421 410 054 0	111	423 020 016 0	61
12 999 755VT	80	40 225 003	77	411 553 003 0	8	421 410 059 0	111	423 020 017 0	61
12 999 792	80	40 225 004	77	412 352 002 0	7	421 410 060 0	111	423 044 000 0	63
12 999 797	80	40 225 007	77	412 352 003 0	7	421 410 066 0	111	423 044 002 0	63
13 151 250	80	40 225 008	77	412 352 004 0	7	421 410 072 0	111	423 044 103 0	63
13 162 041	80	40 225 011	77	412 352 005 0	7	421 410 075 0	111	423 045 000 0	63
13 162 042	80	40 225 012	77	412 352 008 0	7	421 410 079 0	111	423 045 001 0	63
13 162 043	80	40 225 015	77	412 352 011 0	7	421 411 021 0	111	423 046 000 0	63
13 601 001	80	40 225 016	77	412 352 014 0	7	421 411 031 0	111	423 046 001 0	63
13 601 002	80	40 244 009	75	412 352 015 0	7	421 411 065 0	111	423 057 003 0	42
13 601 005	80	40 244 010	75	412 352 016 0	7	421 411 070 0	111	423 058 002 0	42
132 407 552 0	14	40 244 017	75	412 352 020 0	7	421 411 078 0	111	423 060 004 0	42
160 246 990 8	10	40 244 018	75	412 352 025 0	7	421 411 079 0	111	423 069 002 0	63
164 217 130 8	97	40 444 149	75	412 352 026 0	7	421 411 094 0	111	423 069 005 0	63
164 217 180 8	97	40 444 150	75	412 352 027 0	7	421 411 300 0	111	423 070 050 0	63
164 217 240 8	97	40 444 183	75	412 442 000 0	8	421 411 301 0	111	423 072 101 0	63
164 217 670 8	97	40 444 184	75	412 442 001 0	8	421 411 302 0	111	423 073 040 0	63
164 217 680 8	97	40 450 013	75	412 636 001 0	8	421 411 304 0	111	423 073 101 0	63
18 534 004	80	40 450 014	75	412 704 001 0	8	421 411 305 0	111	423 074 020 0	63
18 534 007	80	40 456 033	75	412 704 004 0	8	421 411 306 0	111	423 076 020 0	63
246 301 900 0	123	40 456 034	75	412 704 005 0	8	421 411 308 0	111	423 076 040 0	63
246 301 901 0	123	40 465 019	75	412 704 008 0	8	421 411 309 0	112	423 082 010 0	63

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423 102 015 0	61	423 106 081 0	62	423 110 711 0	63	423 506 130 0	65	432 410 021 0	11
423 102 900 0	61	423 106 082 0	62	423 112 710 0	64	423 506 140 0	65	432 410 022 0	11
423 103 100 0	61	423 106 088 0	62	423 114 000 0	63	423 506 141 0	65	432 410 023 0	11
423 103 298 0	61	423 106 091 0	62	423 114 002 0	63	423 506 142 0	65	432 410 026 0	11
423 103 900 0	61	423 106 095 0	62	423 114 008 0	63	423 506 143 0	65	432 410 027 0	11
423 104 010 0	61	423 106 106 0	62	423 114 010 0	63	423 507 000 0	65	432 410 028 0	11
423 104 020 0	64	423 106 115 0	62	423 114 710 0	64	423 509 012 0	65	432 410 031 0	11
423 104 050 0	61	423 106 135 0	62	423 142 001 0	63	423 509 013 0	65	432 410 033 0	11
423 104 053 0	61	423 106 144 0	62	423 143 001 0	63	423 509 020 0	65	432 410 034 0	11
423 104 093 0	61	423 106 150 0	62	423 143 002 0	63	423 510 010 0	65	432 410 035 0	11
423 104 298 0	61	423 106 201 0	62	423 143 004 0	63	423 510 020 0	65	432 410 036 0	11
423 104 606 0	61	423 106 202 0	62	423 143 012 0	63	423 510 021 0	65	432 410 041 0	11
423 104 608 0	61	423 106 207 0	62	423 143 020 0	63	423 511 010 0	65	432 410 042 0	11
423 104 612 0	61	423 106 208 0	62	423 143 902 0	63	423 511 011 0	65	432 410 050 0	11
423 104 632 0	61	423 106 292 0	62	423 205 100 0	63	423 512 010 0	65	432 410 064 0	11
423 104 700 0	64	423 106 297 0	62	423 205 101 0	63	423 514 010 0	65	432 410 066 0	11
423 104 701 0	64	423 106 298 0	62	423 503 000 0	64	423 514 020 0	65	432 410 069 0	11
423 104 710 0	64	423 106 350 4	72	423 504 002 0	64	423 902 533 2	72	432 410 071 0	11
423 104 711 0	64	423 106 409 0	62	423 504 003 0	64	423 902 534 2	72	432 410 073 0	11
423 104 712 0	64	423 106 417 0	62	423 504 012 0	64	423 903 532 2	72	432 410 074 0	11
423 104 715 0	64	423 106 421 0	62	423 504 013 0	64	425 307 013 0	73	432 410 075 0	11
423 104 716 0	64	423 106 422 0	62	423 504 014 0	64	425 307 018 0	73	432 410 076 0	11
423 104 900 0	61	423 106 423 0	62	423 504 024 0	64	425 311 004 0	73	432 410 079 0	11
423 105 004 0	61	423 106 426 0	62	423 504 030 0	64	425 327 064 0	68	432 410 080 0	11
423 105 020 0	64	423 106 450 0	62	423 505 000 0	64	425 331 000 0	68	432 410 083 0	11
423 105 021 0	61	423 106 900 0	62	423 505 001 0	64	425 331 003 0	68	432 410 086 0	11
423 105 022 0	61	423 106 903 0	62	423 505 002 0	64	425 333 001 0	68	432 410 087 0	11
423 105 042 0	61	423 106 926 0	62	423 505 004 0	64	425 333 100 0	68	432 410 088 0	11
423 105 043 0	61	423 107 008 0	62	423 505 007 0	64	425 333 201 0	68	432 410 091 0	11
423 105 072 0	61	423 107 090 0	62	423 505 020 0	64	425 333 212 0	68	432 410 095 0	11
423 105 074 0	61	423 107 098 0	62	423 505 021 0	64	425 352 350 4	72	432 410 102 0	12
423 105 084 0	61	423 107 298 0	62	423 505 190 0	64	425 426 201 0	68	432 410 102 7	12
423 105 091 0	61	423 107 350 4	72	423 505 191 0	64	425 428 900 0	68	432 410 104 0	12
423 105 103 0	61	423 107 403 0	62	423 506 001 0	64	425 429 901 0	68	432 410 110 7	12
423 105 111 0	61	423 107 404 0	62	423 506 002 0	64	425 451 050 0	68	432 410 111 7	12
423 105 125 0	61	423 107 406 0	62	423 506 003 0	64	425 451 051 0	68	432 410 112 0	12
423 105 126 0	61	423 107 407 0	62	423 506 006 0	64	425 451 052 0	68	432 410 113 0	12
423 105 130 0	61	423 107 408 0	62	423 506 007 0	64	425 451 053 0	68	432 410 114 0	12
423 105 134 0	61	423 107 410 0	62	423 506 020 0	64	425 451 054 0	68	432 410 115 0	12
423 105 199 0	61	423 107 411 0	62	423 506 021 0	64	425 451 055 0	68	432 410 116 0	12
423 105 298 0	61	423 107 416 0	62	423 506 022 0	64	425 452 022 0	68	432 410 117 0	12
423 105 350 4	72	423 107 417 0	62	423 506 023 0	64	425 452 023 0	68	432 410 118 0	12
423 105 408 0	61	423 107 900 0	62	423 506 024 0	64	425 457 051 0	68	432 410 120 0	12
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423 105 417 0	62	423 109 001 0	62	423 506 042 0	64	432 199 030 0	17	432 410 129 0	12
423 105 450 0	62	423 109 002 0	62	423 506 043 0	64	432 406 101 0	14	432 410 134 0	12
423 105 451 0	62	423 109 003 0	62	423 506 050 0	65	432 406 920 2	15	432 410 140 0	12
423 105 700 0	64	423 109 007 0	62	423 506 051 0	65	432 407 012 0	114	432 410 200 0	12
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423 105 702 0	62	423 109 010 0	63	423 506 081 0	65	432 407 016 0	114	432 410 202 0	12
423 105 703 0	62	423 109 020 0	63	423 506 100 0	65	432 407 018 0	114	432 410 204 0	12
423 105 704 0	62	423 109 022 0	63	423 506 101 0	65	432 407 060 0	114	432 410 220 2	15
423 105 705 0	62	423 109 023 0	63	423 506 102 0	65	432 407 070 0	114	432 410 221 0	12
423 105 900 0	62	423 109 102 0	63	423 506 103 0	65	432 410 000 0	11	432 410 221 2	15
423 106 005 0	62	423 109 120 0	63	423 506 104 0	65	432 410 007 0	11	432 410 222 7	15
423 106 070 0	62	423 110 001 0	63	423 506 120 0	65	432 410 020 0	11	432 410 244 2	15

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432 411 166 0	12	432 500 020 0	94	434 100 047 0	19	434 208 028 0	114	438 601 077 0	90
432 413 001 0	12	432 500 021 0	94	434 100 048 0	19	434 208 029 0	114	438 601 078 0	90
432 413 002 0	12	432 500 025 0	94	434 100 049 0	19	434 208 030 0	114	438 601 079 0	91
432 413 003 0	12	432 511 000 0	17	434 100 051 0	19	434 208 031 0	114	438 601 211 0	91
432 413 007 0	12	432 700 000 0	116	434 100 080 0	19	434 208 035 0	114	438 601 212 0	91
432 415 000 0	12	432 703 000 0	116	434 100 083 0	19	434 208 050 0	114	438 601 223 0	91
432 415 003 0	12	432 901 223 2	15	434 100 122 0	19	434 208 054 0	114	438 601 227 0	91
432 415 005 0	12	432 901 228 2	15	434 100 123 0	19	434 208 055 0	114	438 601 230 0	91
432 415 006 0	12	432 901 245 2	15	434 100 124 0	19	434 300 000 0	24	438 601 232 0	91
432 415 013 0	12	432 901 246 2	15	434 100 125 0	19	434 500 003 0	121	438 601 233 0	91
432 415 015 0	12	433 150 004 0	100	434 100 126 0	19	434 500 007 0	121	438 601 236 0	91
432 415 016 0	12	433 150 014 0	100	434 100 127 0	19	434 608 220 0	16	438 601 238 0	91
432 415 017 0	12	433 150 020 0	101	434 100 128 0	19	434 608 221 0	16	438 604 017 0	91
432 415 019 0	12	433 150 021 0	101	434 100 130 0	19	434 608 226 0	16	438 604 043 0	91
432 415 022 0	12	433 150 022 0	101	434 100 131 0	19	434 612 001 0	16	438 604 101 0	91
432 415 024 0	13	433 150 023 0	101	434 100 133 0	19	434 612 003 0	16	438 604 119 0	91
432 415 028 0	13	433 150 030 0	101	434 100 137 0	19	434 612 004 0	16	438 604 122 0	91
432 415 030 0	13	433 150 070 0	101	434 100 139 0	19	434 612 005 0	16	438 604 126 0	91
432 415 033 0	13	433 302 002 0	37	434 100 143 0	19	434 612 054 0	16	438 604 134 0	91
432 415 037 0	13	433 302 008 0	37	434 100 150 0	19	434 612 055 0	16	438 604 136 0	91
432 415 038 0	13	433 302 016 0	37	434 100 153 0	19	434 612 064 0	16	438 604 137 0	91
432 415 124 0	13	433 302 026 0	37	434 100 220 0	19	434 612 065 0	16	438 604 138 0	91
432 415 138 0	13	433 302 029 0	37	434 100 221 0	19	435 002 007 0	123	438 604 140 0	91
432 415 220 7	15	433 306 024 0	37	434 100 222 0	19	435 002 011 0	123	438 604 141 0	91
432 415 921 0	13	433 306 040 0	37	434 100 224 0	19	435 008 000 0	123	438 604 148 0	91
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432 420 002 0	13	433 401 006 0	82, 87	434 100 226 0	19	438 600 320 0	90	438 604 151 0	91
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452 303 031 0	93	461 307 439 0	27	461 318 001 0	29	461 491 158 0	30	463 084 010 0	83
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452 402 000 0	94	461 307 475 0	27	461 318 003 0	29	461 494 110 0	30	463 084 020 0	83
452 600 003 0	123	461 307 479 0	27	461 318 005 0	29	461 494 113 0	30	463 084 020 2	83
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452 711 005 0	95	461 315 008 0	27	461 318 025 0	29	461 494 511 0	31	463 084 042 0	83
452 711 006 0	95	461 315 012 0	28	461 318 026 0	29	461 494 512 0	31	463 084 050 0	83
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467 406 233 0	105	472 172 604 0	116	472 880 020 0	87	475 010 010 0	20	475 015 028 0	22
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Water Separator	17
Wear Indicator	79

Online Product Catalogue INFORM



With our online product catalogue INFORM in the Internet you have easy access to the technical documentation like product data sheets, outline drawings, cross references, vehicle applications, repair information and wiring diagrams. This information is connected with adequate product numbers.

- Go in the Internet to our Homepage www.wabco-auto.com
- Click the link INFORM in the “Quick Access Links” box

Technical Publication in many languages



The technical publications describe the functions of systems and components as well as installation, retrofit and diagnostics.

All brochures are available in PDF format in the product database INFORM. For printed copies, please contact your WABCO Partner. Please find some examples of technical publications.

System Descriptions

- System and Components in Commercial Vehicles
- ECAS for Trailers / System Description
- Air Braking Equipment for Towed Vehicles

- Trailer EBS / System Description
- EBS Truck
- VCS II / ABS for Trailers

Catalogues

- Shock Absorbers for Commercial Vehicles
- Air springs for Commercial Vehicles
- Pipe Couplings List
- Spare Parts for Foundation Brakes

Assembly and Maintenance Instructions

- General Repair and Test Hints
- Service and Maintenance Instructions
- Maintenance Instructions for Disc Brakes
- Maintenance Instructions for Drum Brakes

Diagnosis

- Diagnosis / Hardware, Software

Posters

- Trailer EBS E
- VCS II / ABS for Trailers
- Spare Part Concept for Air Disc Brakes

Price lists

- Currencies: EUR, GBP, CHF, NOK, SEK, DKK

Your direct contact to WABCO



In addition to our online services, trained specialists in WABCO's Customer Care Center are always on hand to answer your technical and commercial questions, providing the help you need in your local language.

Contact us directly for your support needs:

- Finding the right product
- Diagnostic support
- Training
- System support
- Order management

Find a list of your local contacts in the Internet at our Homepage www.wabco-auto.com. Click the link “Service & Support”.



WABCO University offers training courses, ongoing training and consulting. We want to pass on our knowledge and experience and help you with practical skills and knowledge to ensure your success.

Technical Training



Steadily growing complexity of systems in commercial vehicles requires a wide technical knowledge of employees of authorized workshops and spare parts trade.

Technical training of WABCO University conveys structure, effectiveness as well as test, adjustment and diagnosis of compressed air braking systems and different

systems in commercial vehicles.

- Safety and driving safety courses
- Air Braking Systems in commercial vehicles
- Anti-Lock Braking System (ABS)
- Electronic Braking System (EBS)
- Electronically controlled air suspension (ECAS)
- Bus systems courses (KOM)
- Trailer Central Electronic
- Integrated Vehicle Tire Monitoring system for commercial vehicles (IVTM)

Business Training



WABCO also offers programmes that cover the business part and conveys social competences in sales, management and leadership.

All trainings and modules are also offered as customised company-internal action.

- PC skills for practical use
- Sales training
- Telephone training - effective telephoning
- Handling complaints
- Personal and time management

e-Learning



No travel or hotel

We offer you online training. So that travelling time and costs can be reduced.

By participating in a course you will not be tied to a schedule or have to work through all the training modules in one go. You can define your learning time and progress by

yourself. You can interrupt the training at any time, skip known topics or repeat the whole module. Tests in each chapter help you to check the success of your learning process.

WABCO E-Learning is available via the Internet. It is abbreviated to Web Based Training (WBT). You will therefore need a computer with Internet access to proceed with WBT training.

Please register in e-learning center at <http://wbt.wabco.info>. There you can start a demo version of the course or book a course with credit card. Alternatively you can also purchase the course using the retail system.

WABCO E-Learning makes use of all the benefits associated with computer-aided learning: you are guided through the course step by step. The subject matter is well presented, well structured and easily accessed using simple navigations. Technical functions are explained in many realistic animations for all to understand.

- Trailer EBS E
- VCS II
- ECAS
- IVTM
- Basic Training "Air Braking Systems"
- Disc brake

Service & Consulting



WABCO uses its own experiences and detailed knowledge in the section of commercial vehicle industry to offer practical and achievable Consulting services. Thereby it can be about personal and organisational development or also about general optimisation of business productivity.

- Six Sigma training program
- Team Management System (TMS)

You will find further information at our homepage

www.wabco-university.com

For information on offers and trainings please use the following contact via e-mail:
university@wabco-auto.com



When buying a WABCO product, please check that it contains the typical WABCO marks (particularly on the packaging, labels and identification plate) as evidence that it is an original WABCO part. In case you have any doubts, please contact WABCO or an authorized WABCO partner.

WABCO Vehicle Control Systems (NYSE: WBC) is a leading supplier of safety and control systems for commercial vehicles. For over 140 years, WABCO has pioneered breakthrough electronic, mechanical and mechatronic technologies for braking, stability, and transmission automation systems supplied to the world's leading commercial truck, trailer, and bus manufacturers. WABCO is headquartered in Brussels, Belgium.

For more information, visit www.wabco-auto.com

Distributor stamp

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