



PIMATIC SOLUTIONS FOR MOBILE APPLICATIONS

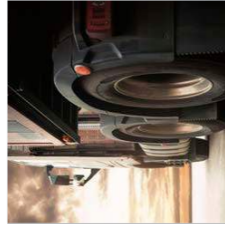
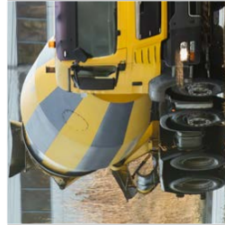
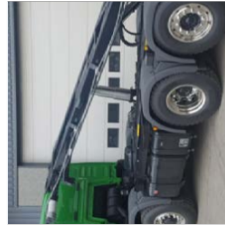


YOUR PARTNER IN PRESSURE SINCE 1974

PIMATIC has many years of experience in designing and manufacturing pneumatic standard products and customized systems for truck and trailer industry. This has provided us a deep knowledge of this specific industrial field. Our goal is to offer advanced products and ideally suited systems to a wide range of applications. We have our own design department which works closely with our customers to understand their unique requirements and to ensure that the best possible solution is offered to their application. Pimatic products are used in various application worldwide and they have long-life expectation. Our products are maintenance free, even in toughest application. Pimatic mobile product range covers, cylinders, special cylinders, servo valves with wide selection of handles, customized valve cabins, limit valves, fittings and many more...

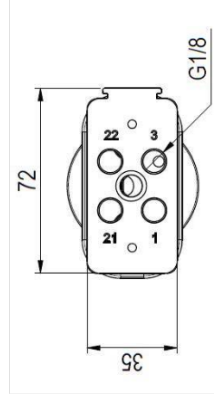
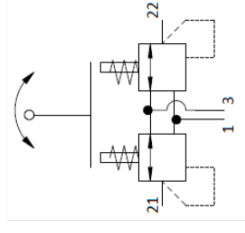
TYPICAL APPLICATIONS FOR PIMATIC MOBILE PRODUCTS

- Lower/Raiser applications
- Cargo door opening applications
- Container handling systems
- Hatch openings
- Tipping applications
- Fire truck applications
- Fuel systems
- Axle lift systems
- Heavy duty applications
- Drawbar couplings



Pimatic servo valve

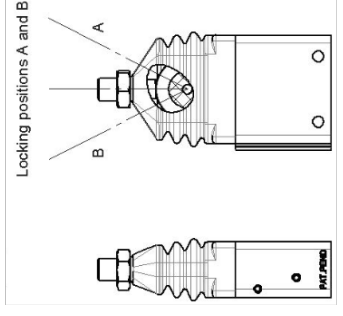
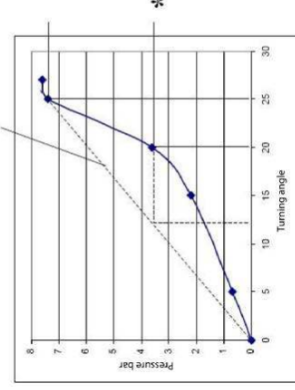
Pimatic servo valve is a patented manually operated pneumatic proportional pressure regulator designed to control the actuators of position cylinders in hydraulic systems. The valve is designed for both industrial and mobile applications such as hook loaders, skip loaders, front loaders, forklifts and proportional speed control of air motors and other applications where proportional pressure control is required. The servo valve adjusts the pressure in two different directions and can be equipped with different kind of handles with integrated electric push buttons. Several different valve modules and LED-modules can be combined with servo valve. The Pimatic servo valve is used in numerous applications, and it has a long-life expectation even in hardest applications.



TECHNICAL CHARACTERISTICS

- Double 3/2 proportional pressure regulator
- Wide selection of handles with integrated electrical push buttons
- Body material: Anodized aluminium (black)
- Supply pressure 2...10 bar
- Ambient temperature -30...+80°C
- Operating medium: Compressed dried air (Filtrated 20µm) lubricated or non-lubricated.
- Nominal flow 600 l/min
- Connection port size G1/8"
- If servo valve has a handle with push buttons. Maximum load of each buttons is 5A. Length of a cable is 0,5m and cable ends are flying leads.

Servo valves that are generally available on the market



Servo valve + handle combinations



**SERVO VALVE
WITH PLAIN HANDLE**
Type 9421-75-501174



**SERVO VALVE
WITH ROCKER SWITCH
ON TOP**
(ON-OFF-ON)
Type 9421-75-501172



**SERVO VALVE
WITH SHORT HANDLE
AND 2 BUTTONS ON TOP**
Type 9421-75-033997



**SERVO VALVE
WITH SHORT HANDLE AND
ROCKER SWITCH ON TOP**
(ON-OFF-ON)
Type 9421-75-033999

Servo valve + handle combinations



**SERVO VALVE
WITH PLAIN BALL HANDLE**
Type 9421-75-034000



**SERVO VALVE
WITH BALL HANDLE AND
1PC PUSH BUTTON**
Type 9421-75-034001



**SERVO VALVE
WITH BALL HANDLE AND
1PC ROCKER SWITCH**
(ON-OFF-ON)
Type 9421-75-034002



**SERVO VALVE
WITH BALL HANDLE AND
4PCS PUSH BUTTON**
Type 9421-75-034003



**SERVO VALVE
WITH PLAIN SMALL
BALL HANDLE**
Type 9421-75-034007

Servo valve + handle combinations



**SERVO VALVE
WITH SMALL BALL HANDLE
AND BUTTON ON TOP**
Type 9421-75-034008



**SERVO VALVE
WITH HANDLE INCLUDING 2 BUSH
BUTTON AND ROCKER SWITCH
(ON-OFF-ON)**
Type 9421-75-034009



**SERVO VALVE
WITH HANDLE INCLUDING 2 BUSH
BUTTON AND ROCKER SWITCH
(ON-OFF-ON)**
Type 9421-75-034010



**SERVO VALVE
WITH HANDLE INCLUDING
4 BUSH BUTTON AND 2 PCS
ROCKER SWITCH
(ON-OFF-ON)**
Type 9421-75-034011

Valve and led modules

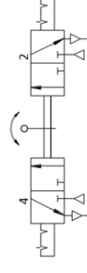
DESCRIPTION:

- Valve modules can be easily combined with servo valve, or they can be used without it.
- Easy to connect by two screws
- Compressed air supply and exhaust through main valve body

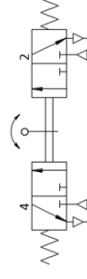


TECHNICAL CHARACTERISTICS

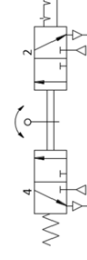
- Body material: Anodized aluminum (black)
- CAP POM
- Internal valve parts brass
- Springs stainless steel
- Seals PU/NBR
- Supply pressure 2...10 bar
- Ambient temperature -30...+80°C
- Operating medium: Compressed dried air (Filtrated 20µm) lubricated or non-lubricated. Nominal flow 300l/min
- Connection port size M5"



**DETENT VALVE MODULE
WITH 2X3/2 VALVE**
Type 9130-707-030200



**SPRING CENTERED VALVE
MODULE WITH 2X3/2 VALVE**
Type 9130-757-030044



**SPRING-DETENT VALVE
MODULE WITH 2X3/2 VALVE**
Type 9130-757-030533



Valve and led modules

LED-MODULE WITH GREEN AND RED-LIGHT
0.5m cable with flying leads.
Type 9130-LED-030202



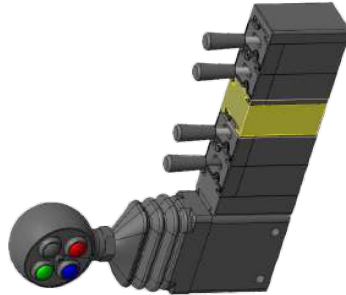
SUPPLY MODULE WITH INLET AND EXHAUST PORTS ON A BOTTOM
Type 9130-SP-030126



SUPPLY MODULE WITH INLET AND EXHAUST PORTS ON A LEFT SIDE
Type 9130-SP-033161
(not possible to combine with a servo valve)



SUPPLY MODULE MIDDLE. INLET AND EXHAUST PORTS ON THE BOTTOM
Type 9130-MSP-030557



SUPPLY MODULE 45° ANGLE INCLUDING LED MODULE AND 0.5M CABLE WITH FLYING LEADS. INLET AND EXHAUST PORTS ON A BOTTOM.
Type 9130-ASP-033789



END PLATE
Type 9130-EP-030046



We manufacture customized servo valve assemblies upon customers' request.

PLEASE CONTACT OUR SALES DEPARTMENT FOR FURTHER INFORMATION.



Pimatic can deliver complete assembled units. Including for example cable connectors, fittings customized modules etc. This provides the best possible option to full fill your specific requirements. Please contact our sales department for more information.

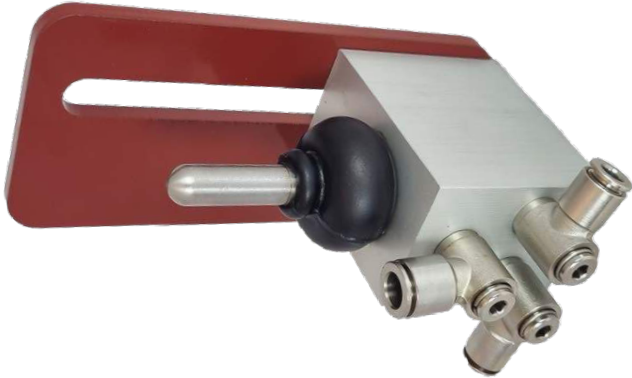
Limit valve for controlling tipping hydraulics

DESCRIPTION:

- Pneumatic limit valve for tipping systems
- Assembly between pneumatic servo valve and hydraulic valve

TECHNICAL CHARACTERISTICS

- Body material: Anodized aluminium (black)
- Internal valve parts brass
- Springs stainless steel
- Seals PU/NBR
- Gaiter EPDM
- Supply pressure 2...10 bar
- Ambient temperature -30...+80°C
- Operating medium: Compressed dried air (Filtrated 20µm) lubricated or non-lubricated.
- Nominal flow 600l/min
- Connection port size G1/8", 6mm tube push in fittings (exhaust 8mm push in fitting)



Order code: PT0019728



Pimatic cylinders for mobile applications

ISO 15552 cylinders P2720 series

TECHNICAL CHARACTERISTICS

- Double acting and spring return version
- Magnetic piston as standard feature
- ISO15552 construction
- Diecast aluminium covers
- Hard anodized profile tube or round tube with tie rod construction available
- Chromed piston rod
- Pressure range 0...10 bar
- Temperature range -35...+80°C with standard seals (PU) and 0...150°C with high temperature seals. Metal piston rod scraper upon request. Temperature -40°C)
- Media: Pressurized air (Filtered 40µm) or inert gases, lubricated or dry
- Diameter: 32, 40, 50, 63, 80, 100, 125, 160, 200, 250 and 320mm
- Stroke lengths of spring return cylinders 25,50,80,100,125 and 160mm (profiled tube only available)



ORDER EXAMPLE

P2720 RV - 63 / 20 - 100

1 2 3 4

1. Cylinder series
P2720-Double acting cylinder
P2721- Cylinder with a double rod
P2723- rear opposed tandem cylinder
Blank = standard structure
H = Chromed piston rod, AISI 316
- 2.
- 3.
- 4.

R = tie-rod construction
RK = the external parts of cylinder are corrosion resistant aluminium or AISI316, tie-rod construction
3. Cylinder / piston rod diameter
4. Stroke

ISO 6432 cylinders O series

TECHNICAL CHARACTERISTICS

- Double acting and spring return version
- Magnetic piston as standard feature
- ISO6432 construction
- Diecast aluminium covers
- Tube AISI304, Piston rod AISI303
- Pressure range 0...10 bar
- Temperature range -35...+80°C with standard seals (PU)
- Media: Pressurized air (Filtered 40µm), non-lubricated
- Diameter: 8, 10,12,16,20 and 25mm
- Maximum stroke 1000mm



ORDER EXAMPLE

ODM 025 100 GS M

1 2 3 4 5

1. Cylinder series
ODM= double acting
OSF= single acting rear spring (ø16-25)
OSM= single acting front spring
Diameter
(008-010-012-016-020-025)
- 2.
- 3.

4. Seals
GS=standard seals (PU), more seal materials upon request
5. Thread
M=Male thread as standard feature (female thread upon request)

Valves for mobile applications

2-way ball valves with pneumatic actuator



SPECIFICATIONS

- Material of valve body: Brass (nickel plated)
- Working temperature -20...+150°C
- Material of seals PTFE and FKM O-rings
- Product code includes valve body and actuator
- Ex-approval available upon request

DN	THREAD	PRESSURE RATNG	PRODUCT CODE (DOUBLE ACTING ACTUATOR)	PRODUCT CODE (SPRING RETURN ACTUATOR)
10	3/8"	PN64	D101H003	SG10IH003
15	1/2"	PN64	D101H004	SG10IH004
20	3/4"	PN50	DG101H005	SG10IH005
25	1"	PN50	DG101H006	SG10IH006
32	1 1/4"	PN40	DG101H007	SG10IH007
40	1 1/2"	PN40	DG101H008	SG10IH008
50	2"	PN32	DG101H009	SG10IH009
65	2 1/2"	PN25	DG101H010	SG10IH010
80	3"	PN25	DG101H011	SG10IH011

2-way butterfly valve with pneumatic actuator



SPECIFICATIONS

- Materials: Body valve, cast iron, epoxy coated, Disc: AISI316, Liner: NBR
- Wafer construction (mounting between flanges)
- Working temperature -23...+82°C
- Product code includes valve body and actuator
- Available up to Dn600.
- Ex-approved version available upon request

DN	THREAD	PRESSURE RATNG	PRODUCT CODE (DOUBLE ACTING ACTUATOR)	PRODUCT CODE (SPRING RETURN ACTUATOR)
50	Wafer	PN16	DG376XN69	SG376XN69
65	Wafer	PN16	DG376XN70	SG376XN70
80	Wafer	PN16	DG376XN71	SG376XN71
100	Wafer	PN16	DG376XN72	SG376XN72
125	Wafer	PN16	DG376XN73	SG376XN73
150	Wafer	PN16	DG376XN74	SG376XN74
200	Wafer	PN10	DG376XN75	SG376XN75
250	Wafer	PN10	DG376XN76	SG376XN76
300	Wafer	PN10	DG376XN77	SG376XN77

Valves for mobile applications

2-way ball valves with AISI316 valve body and pneumatic actuator



SPECIFICATIONS

- Material of valve body: AISI316
- Working temperature -20...+180°C
- Material of seals PTFE and FKM O-rings
- Product code includes valve body and actuator
- Ex-approval available upon request

DN	THREAD	PRESSURE RATNG	PRODUCT CODE (DOUBLE ACTING ACTUATOR)	PRODUCT CODE (SPRING RETURN ACTUATOR)
8	1/4"	PN63	DG424H402	SG424H402
10	3/8"	PN63	DG424H403	SG424H403
15	1/2"	PN63	DG424H404	SG424H404
20	3/4"	PN63	DG424H405	SG424H405
25	1"	PN63	DG424H406	SG424H406
32	1 1/4"	PN63	DG424H407	SG424H407
40	1 1/2"	PN63	DG424H408	SG424H408
50	2"	PN63	DG424H409	SG424H409
65	2 1/2"	PN63	DG424H410	SG424H410
80	3"	PN63	DG424H411	SG424H411
100	4"	PN63	DG424H412	SG424H412

2-way ball valves for high pressure applications with pneumatic actuator



SPECIFICATIONS

- Material of valve body: Carbon steel (AISI316 body available upon request)
- Working temperature -20...+80°C
- Material of seals NBR
- Product code includes valve body and actuator
- Ex-approval available upon request

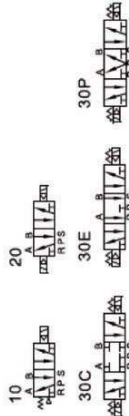
DN	THREAD	PRESSURE RATNG	PRODUCT CODE (DOUBLE ACTING ACTUATOR)	PRODUCT CODE (SPRING RETURN ACTUATOR)
10	3/8"	PN400	DHA5BABAP03AFCA0	SHA5BABAP03AFEA0
15	1/2"	PN400	DHA5BABAP04AFDA0	SHA5BABAP04AFGA0
20	3/4"	PN320	DHA5BABAP05AFEA0	SHA5BABAP05AFHA0
25	1"	PN320	DHA5BABAP06AFGA0	SHA5BABAP06AFIA0

5/2 Valves for mobile applications

In-line mounted valves / Series 4A and 4V

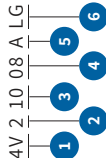
4V200/4V400 SERIES, ELECTRIC

Valve type and control mode



SERIES	4V10-06 4V120-06	4V130C-06 4V130E-06 4V130P-06	4V210-08 4V220-08	4V230C-08 4V230E-08 4V230P-08	4V410-15 4V420-15	4V430C-15 4V430E-15 4V430P-15
Flow-through opening mm ²	10,2	8,6	16	12	50	30
Working fluid	Dry or spray-lubricated air or neutral gases, filtration 40µm					
Connector size	Input/output G1/8; outlet G1/4; Input/output G1/8; Input/output/outlet G1/2					
Type of action	Electrical					
Lubrication (Note 1)	Additional					
Valve type	5/2	5/3	5/2	5/3	5/2	5/3
Pressure range	1.5-8bar (0.15-0.8MPa)					
Temperature range	-40...+70 °C					
Max. operating frequency	5 actions/sec	3 actions/sec	5 actions/sec	5 actions/sec	3 actions/sec	3 actions/sec
Voltage range	AC: ±15% DC: ±10%					
Power requirement:	110/220VAC:4.5VA 24VAC:5VA 12/24VDC:3W					
Duty cycle	100%ED					
Insulation class	B					
Protection class	IP65					
Electrical connection	Led connector DINB Pg07, cable diameter 6 to 8 mm					

ORDER EXAMPLE



1. Kit, electrically
2. Size
1: 100 (G1/8)
2: 200 (G1/4)
4: 400 (G1/2)
3. Valve type
10: electric-spring 5/3
20: electric-electric 5/2
30C: electric-electric, spring centering, closed centre position
30E: electric-electric, spring centering 5/3 open centre position
30P: electric-electric, spring centering
4. Connector size
08: 1/4 (koko 200)
15: 1/2 (koko 400)
5. Voltage
A: 220VAC
B: 24VDC
C: 110VAC
E: 24VAC
F: 12VDC
6. LG: Low temperature -40°C, Thread type G

Available also 3-way valve 3V21008... (G1/4)

Maintenance equipment GA Series

SPECIFICATIONS

- Modular service kit for handling compressed air
- Materials: Frame: Aluminium
Cup: Polycarbonate (G1/4-1/2), metal (G1)
- Pressure range 1.5–9 bar
- Temperature range: Filter –40 °C to +70 °C, regulator –40 °C to +70 °C
- Filter degree: Standard 40 µm, on order 5 µm
- Wall mount as standard on maintenance device
- Pressure regulators have a gauge as a standard accessory

BASE COMPONENTS



FILTER		
ORDER NUMBER	CONNECTOR SIZE Ø	FLOW dm ³ /s
GAFF20008LG	G1/4	25
GAFA0015LG	G1/2	75
GAFF600C25ALG	G1	170

PRESSURE REGULATOR		
ORDER NUMBER	CONNECTOR SIZE Ø	FLOW dm ³ /s
GAR20008SLG	G1/4	25
GAR40015SLG	G1/2	80
GAR60025SLG	G1	130

On order 0 to 4 bar L. On order with a non-return valve K.



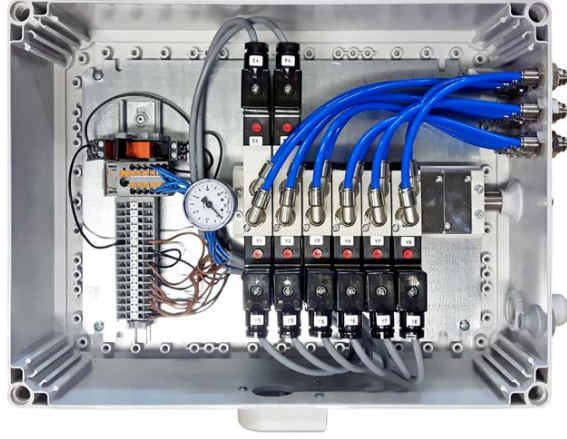
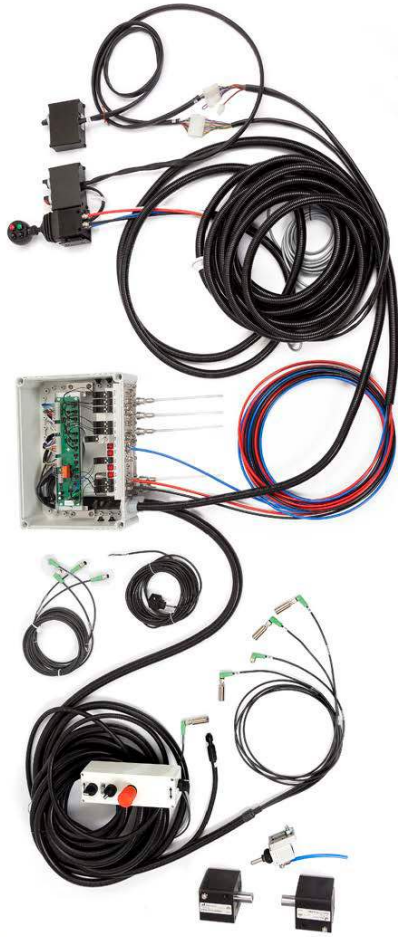
FILTER REGULATOR		
ORDER NUMBER	CONNECTOR SIZE Ø	FLOW dm ³ /s
GAFR20008SLG	G1/4	25
GAFR40015SLG	G1/2	80
GAFR60025SLG	G1	130



**Pneumatic rotary actuator
for coupling applications**



**Pneumatic control valve 5/3,
normally open, detent**
Designed for outdoor use, robust design,
additional enclosure is not required



Plug connectors MA Series

SPECIFICATIONS

- The frame and release ring are nickel-plated brass
- The claw ring is AISI 301
- Gaskets: NBR
- Pressure range: max. 20 bar
- Vacuum operation: 750 mmHg
- Tubes: PA11, PA12, PA6, PUR (98 Shore A)
- Temperature range: -20...+80 °C



MA SERIES CONNECTORS AND ORDER NUMBERS

MA-12 DIRECT OUTPUT CONNECTOR, CYLINDRICAL THREAD	
TYPE	
MA 12 04 M5	MA 12 08 14
MA 12 06 M5	MA 12 08 38
MA 12 04 18	MA 12 08 12
MA 12 04 14	MA 12 10 14
MA 12 06 M12x1.25	MA 12 10 38
MA 12 06 M12x1.5	MA 12 10 12
MA 12 06 18	MA 12 12 14
MA 12 06 14	MA 12 12 38
MA 12 08 18	MA 12 12 12

MA-13 DIRECT OUTPUT CONNECTOR, INTERIOR THREAD	
TYPE	
MA 13 04 18	MA 13 12 38
MA 13 06 18	MA 13 12 12
MA 13 06 14	
MA 13 08 18	
MA 13 08 14	
MA 13 08 38	
MA 13 10 14	
MA 13 10 38	
MA 13 10 12	

Brake connectors MT Series

SPECIFICATIONS

TÜV approved DIN74324 connectors for pneumatic brakes

- Frame: Brass
- Internal tube: Ø 6–12, PA6.6
- Gaskets: NBR
- Claw ring: Brass
- Dust gasket: EPDM
- Pressure range 0–16 bar
- Temperature -50...+100 °C
- Tubes: PA12 DIN74324 or DIN 73378



MT SERIES CONNECTORS AND ORDER NUMBERS



MT-12 DIRECT OUTPUT CONNECTOR, CYLINDRICAL THREAD	
TYPE	
MT 12 06 M10x1	MT 12 08 M22x1.5
MT 12 06 M12x1.5	MT 12 10 M12x1.5
MT 12 06 M14x1.5	MT 12 10 M14x1.5
MT 12 06 M16x1.5	MT 12 10 M16x1.5
MT 12 08 M10x1	MT 12 10 M22x1.5
MT 12 08 M12x1.5	MT 12 16 M22x1.5
MT 12 08 M14x1.5	MT 12 12 M12x1.5
MT 12 08 M16x1.5	MT 12 12 M14x1.5
MT 12 08 M18x1.5	MT 12 12 M16x1.5

MT-13 DIRECT OUTPUT CONNECTOR, INTERNAL THREAD	
TYPE	
MT 13 06 M10x1	
MT 13 06 M16x1.5	
MT 13 08 M10x1	



MT-16 ADJUSTABLE ANGLE OUTPUT CONNECTOR, CYLINDRICAL THREAD	
TYPE	
MT 16 06 M10x1	MT 16 08 m22x1.5
MT 16 06 M12x1.5	MT 16 10 M12x1.5
MT 16 06 M14x1.5	MT 16 10 M14x1.5
MT 16 06 M16x1.5	MT 16 10 M16x1.5
MT 16 08 M10x1	MT 16 10 M22x1.5
MT 16 08 M12x1.5	MT 16 12 M12x1.5
MT 16 08 M14x1.5	MT 16 12 M14x1.5
MT 16 08 M16x1.5	MT 16 12 M16x1.5

MT-21 ADJUSTABLE T OUTPUT CONNECTOR, CYLINDRICAL THREAD	
TYPE	
MT 21 06 M10x1	MT 21 08 M22x1.5
MT 21 06 M12x1.5	MT 21 10 M12x1.5
MT 21 06 M14x1.5	MT 21 10 M14x1.5
MT 21 06 M16x1.5	MT 21 10 M16x1.5
MT 21 08 M10x1	MT 21 10 M22x1.5
MT 21 08 M12x1.5	MT 21 12 M12x1.5
MT 21 08 M14x1.5	MT 21 12 M14x1.5
MT 21 08 M16x1.5	MT 21 12 M16x1.5

Brake connectors MT Series

MT SERIES CONNECTORS AND ORDER NUMBERS



MT-24 ADJUSTABLE ANGLE T-OUTPUT CONNECTOR, CYLINDRICAL THREAD		
TYPE		
MT 24 06 M10x1	MT 24 08 M22x1.5	MT 24 12 M22x1.5
MT 24 06 M12x1.5	MT 24 10 M12x1.5	MT 24 15 M16x1.5
MT 24 06 M14x1.5	MT 24 10 M14x1.5	MT 24 15 M22x1.5
MT 24 06 M16x1.5	MT 24 10 M16x1.5	MT 24 16 M16x1.5
MT 24 08 M10x1	MT 24 10 M22x1.5	MT 24 16 M22x1.5
MT 24 08 M12x1.5	MT 24 12 M12x1.5	MT 24 18 M22x1.5
MT 24 08 M14x1.5	MT 24 12 M14x1.5	
MT 24 08 M16x1.5	MT 24 12 M16x1.5	



MT-26 EXTENSION CONNECTOR	
TYPE	
MT 26 06 06	
MT 26 08 08	
MT 26 10 10	
MT 26 12 12	
MT 26 15 15	
MT 26 16 16	
MT 26 18 18	



MT-28 ANGLE CONNECTOR	
TYPE	
MT 28 06 06	MT 28 15 15
MT 28 08 08	MT 28 16 16
MT 28 10 10	MT 28 18 18
MT 28 12 12	



MT-29 T CONNECTOR	
TYPE	
MT 29 06 06	MT 29 15 15
MT 29 08 08	MT 29 16 16
MT 29 10 10	MT 29 18 18
MT 29 12 12	



TREL REMOVAL TOOL	
TYPE	
TREL-1	6-12 mm
TREL-2	15-18 mm

Brake connectors RT Series

RT SERIES CONNECTORS AND ORDER NUMBERS



RT-15 REDUCTION NIPPLE	
TYPE	
RT 15 M12 x 1.5 M16x1.5	
RT 15 M12 x1.5 M22 x1.5	
RT 15 M16 x 1.5 M22 x1.5	



RT-22 ADJUSTABLE ANGLE COUPLING	
TYPE	
RT 22 M16 x1.5 M16 x1.5	
RT 22 M16 x1.5 M22 x1.5	
RT 22 M22 x 1.5 M22 x1.5	



RT-23 T COUPLING	
TYPE	
RT 23 M16 x 1.5 M16x1.5	
RT 23 M22 x1.5 M22 x1.5	



RT-24 ADJUSTABLE T COUPLING	
TYPE	
RT 24 M12 x 1.5 M16x1.5	
RT 24 M16 x1.5 M16x1.5	
RT 24 M16 x 1.5 M22 x1.5	
RT 24 M22 x 1.5 M22x1.5	



RT-30 HOSE NIPPLE	
TYPE	
RT 30 12.5 M16 x1.5	
RT 30 12.5 M22 x1.5	



RT-46 PLUG, O-RING	
TYPE	
RT 46 00 M12 x1.5	
RT 46 00 M16 x1.5	
RT 46 00 M22 x1.5	



VT-90 DRAIN VALVE	
TYPE	
VT 90 00 M22 x 1.5	



VT-91 MEASUREMENT NIPPLE	
TYPE	
VT 91 00 M16 x1.5	
VT 91 00 M22 x1.5	

Please contact
our sales department
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