

- > Port size: 1/4" (ISO G or NPT), NAMUR Interface
- > Main application: Single and double acting actuators
- > TÜV-approval based on type examination DGRL 97/23/EC and IEC 61508, multichannel up to SIL 3 (12 years)
- > Add-on manual override or inductive limit switches on request
- > Suited for outdoor use under critical environment conditions.
- > Variable valve solenoid combination



Technical features

Medium:

Compressed air, filtered, non-lubricated and dry. Other gas and liquid fluids on request. (Viscosity for gaseous or liquid fluids up to 40 mm²/s)

Operation:

Direct solenoid operated poppet valve

Operating pressure:

0 ... 10 bar (0 ... 145 psi)

Orifice:

5 mm

Flow:

Gaseous fluids: 340 l/min
Liquid fluids: Cv 0,34

Port size:

G1/4, 1/4 NPT
NAMUR Interface with integrated recirculation from the exhaust air to the actuator spring chamber

Flow direction:

Optional

Mounting position:

Any, but preferably with solenoid vertical

Ambient/Media temperature:

NBR: -25 ... +80°C (-13 ... +176°F)
FPM: -10...+120°C (+14 ... +248°F)
Water +95°C (+203°F)
VMQ: -40... +60°C (-40 ... +140°F)
Depending on solenoid system
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (35°F).
For outdoor installations must be protected all connections against the penetration of moisture and a solenoid with IP66 protection must be used!

Materials:

Body: Aluminium anodized (suitable for high humidity, sulphuric, sodium chloride or ammonia environments), brass 2.0401 (Ms 58) or stainless steel 1.4404 (316 L)
Seal: FPM, NBR, VMQ
Inner parts: stainless steel, brass

Flow conversion:

Cv US Gallon/min (water) =
l/min (air) x 0,001
Kv m³/h (water) =
l/min (air) x 0,000906

Technical data

Housing: Brass

Symbol	Port size	Orifice (mm)	Operating pressure (bar) (psi)	Material Seal seal	Manual override	Test certificate IEC 61508 97/23/EC	Weight (kg)	Drawing No.	Solenoid group	Model *1)
	G1/4	5	0 ... 10 0 .. 145	NBR	Not possible	X —	0,65	1	A + B	2401103
	G1/4	5	0 ... 10 0 .. 145	NBR	Push only	X —	0,70	1	A + B	2401107
	G1/4	5	0 ... 10 0 .. 145	NBR	Turn and lock	— —	0,70	1	A + B	2401119
	G1/4	5	0 ... 10 0 .. 145	NBR	Not possible	X X	0,65	1	A + B	2401149
	G1/4	5	0 ... 10 0 .. 145	FPM	Not possible	X —	0,65	1	A + B	2401126
	G1/4	5	0 ... 10 0 .. 145	VQM	Not possible	X —	0,65	1	A + B	2401153
	G1/4	5	0 ... 10 0 .. 145	VQM	Semi automatic	X —	0,70	1	A + B	2401154
	1/4 NPT	5	0 ... 10 0 .. 145	NBR	Not possible	X X	0,65	1	A + B	2401138
	1/4 NPT	5	0 ... 10 0 .. 145	NBR	Push only	X —	0,70	1	A + B	2401148
	1/4 NPT	5	0 ... 10 0 .. 145	NBR	Turn and lock	— —	0,70	1	A + B	2401136
	1/4 NPT	5	0 ... 10 0 .. 145	NBR	Semi automatic	X —	0,70	1	A + B	2401140
	1/4 NPT	5	0 ... 10 0 .. 145	FPM	Not possible	X —	0,65	1	A + B	2401131
	1/4 NPT	5	0 ... 10 0 .. 145	VQM	Not possible	X —	0,65	1	A + B	2401106
	1/4 NPT	5	0 ... 10 0 .. 145	VQM	Push only	X —	0,70	1	A + B	1025226

*1) When ordering please indicate solenoid, voltage and current type (frequency).

• Particular for valves with TÜV approval and attachment in plants based on safety standard IEC 61511, taking into account to the operating and maintenance instructions document 7503444.

Housing: Stainless steel

Symbol	Port size	Orifice (mm)	Operating pressure (bar)	Material Seat seal	Manual override	Test certificate		Weight (kg)	Drawing No.	Solenoid group	Model *1)
						IEC 61508	97/23/EC				
	G1/4	5	0 ... 10	NBR	Not possible	X	X	0,65	2	A + B	2401186
	1/4 NPT	5	0 ... 10	NBR	Not possible	X	X	0,65	2	A + B	2401112
	1/4 NPT	5	0 ... 10	FPM	Semi automatic	—	—	0,70	2	A + B	2401146
	1/4 NPT	5	0 ... 10	FPM	Not possible	—	—	0,65	2	A + B	1025227
	G1/4	5	0 ... 10	FPM	Not possible	—	—	0,70	2	A	2401127 *2)
	G1/4	5	0 ... 10	FPM	Push only	—	—	0,70	2	A	2401170 *2)
	G1/4	5	0 ... 10	FPM	Turn and lock	—	—	0,70	2	A	2401139 *2)
	G1/4	5	0 ... 10	VMQ	Not possible	—	X	0,65	2	A	2401155 *2)
	1/4 NPT	5	0 ... 10	FPM	Not possible	—	—	0,65	2	A	2401147 *2)
	1/4 NPT	5	0 ... 10	VMQ	Not possible	—	X	0,65	2	A	2401168 *2)
	NAMUR G1/4	5	0 ... 10	NBR	Without	X	—	1,00	2	A + B	2401196
	NAMUR G1/4	5	0 ... 10	VQM	Without	—	—	1,00	2	A	2401142
	NAMUR G1/4	5	0 ... 10	NBR	Without	X	X	1,00	3	A + B	1025212 *3)
	NAMUR 1/4 NPT	5	0 ... 10	NBR	Without	X	X	1,00	3	A + B	1025328 *3)

Housing: Aluminium anodized

Symbol	Port size	Orifice (mm)	Operating pressure (bar)	Material Seat seal	Manual over-ride	Test certificate		Weight (kg)	Drawing No.	Solenoid group	Model *1)
						IEC 61508	97/23/EC				
	NAMUR G1/4	5	0 ... 10	NBR	Without	X	X	0,55	3	A + B	2401191
	NAMUR G1/4	5	0 ... 10	NBR	Without	X	X	0,55	3	A + B	2401116 *4)
	NAMUR G1/4	5	0 ... 10	NBR	Without	—	—	0,70	5	A + B	1025333 *5)
	NAMUR 1/4 NPT	5	0 ... 10	NBR	Without	X	X	0,55	3	A + B	1025254
	NAMUR G1/4	5	0 ... 10	VQM	Without	X	—	0,55	3	A + B	2401133
	NAMUR G1/4	5	0 ... 10	NBR	Without	X	X	0,55	4	A + B	2401109 *3)

*1) When ordering please indicate solenoid, voltage and current type (frequency).

*2) Complete stainless steel version

*3) Port P in flange according to VDI/VDE 3845 for attachment of positioners or to interlinking plate (see data sheet N/en 5.8.300)

*4) Free of non-ferrous metals

*5) Proximity switch

• Particular for valves with TÜV approval and attachment in plants based on safety standard IEC 61511, taking into account to the operating and maintenance instructions document 7503444.

Solenoids group A, standard voltages

	Power consumption		Rated current		Protection class IP/NEMA	Ex-Protection (ATEX-Category)	Temperature Ambient/ Media (°C)	Electrical connection	Weight (kg)	Drawing No.	Circuit diagram No.	Model
	24 V d.c. (W)	230 V a.c. (VA)	24 V d.c. (mA)	230 V a.c. (mA)								
	16,9	—	703	—	IP65 (with connector)	—	-25 ... +60 Media: +80 max	Connector DIN EN 175301-803, Form A *1)	0,26	3	1	0800
	—	17,3	—	75	IP65 (with connector)	—	-25 ... +60 Media: +80 max	Connector DIN EN 175301-803, Form A *1)	0,35	4	6	3803
	8,9	—	369	—	IP65	—	-30...+90 Media: +110	Terminals, cable gland Pg 13,5	0,5	9	2	4120
	—	10	—	43	IP65	—	-30...+90 Media: +110	Terminals, cable gland Pg 13,5	0,5	9	6	4121
	8,9	—	369	—	IP67	—	-30...+90 Media: +110	3 m cable, encapsulated in EP resin	0,7	9	2	4122
	—	10	—	43	IP67	—	-30...+90 Media: +110	3 m cable, encapsulated in EP resin	0,7	9	6	4123
	8,9	—	369	—	IP66 (with cable gland)	II 2 G Ex e mb IIC T4/ T5 Gb II 2 D Ex tb IIC T130°C Db IP66	T4: -40 ... +65 T5: -40 ... +55 -40 ... +65	M20 x 1,5 *1)	0,5	6	4	4270
	—	10,0	—	43	IP66 (with cable gland)	II 2 G Ex e mb IIC T4/ T5 Gb II 2 D Ex tb IIC T130°C Db IP66	T4: -40 ... +65 T5: -40 ... +55 -40 ... +65	M20 x 1,5 *1)	0,5	6	7	4271
	8,9	—	369	—	IP66 (with cable gland)	II 2 G Ex d mb IIC T4/ T6 Gb II 2 G Ex e mb IIC T4/ T6 Gb II 2 D Ex tb IIC T130°C Db	T4: -40 ... +70 T6: -40 ... +40 -40 ... +70	1/2 NPT *1)	0,8	7	20	4670
	—	10,0	—	43	IP66 (with cable gland)	II 2 G Ex d mb IIC T4/ T6 Gb II 2 G Ex e mb IIC T4/ T6 Gb II 2 D Ex tb IIC T130°C Db	T4: -40 ... +70 T6: -40 ... +40 -40 ... +70	1/2 NPT *1)	0,8	7	21	4671
	8,9	—	369	—	IP66 (with cable gland)	II 2 G Ex d mb IIC T4/ T6 Gb II 2 G Ex e mb IIC T4/ T6 Gb II 2 D Ex tb IIC T130°C Db	T4: -40 ... +70 T6: -40 ... +40 -40 ... +70	M20 x 1,5 *1)	0,8	7	20	4672
	—	10,0	—	43	IP66 (with cable gland)	II 2 G Ex d mb IIC T4/ T6 Gb II 2 G Ex e mb IIC T4/ T6 Gb II 2 D Ex tb IIC T130°C Db	T4: -40 ... +70 T6: -40 ... +40 -40 ... +70	M20 x 1,5 *1)	0,8	7	21	4673
	8,9	—	369	—	IP66 (with cable gland)	II 2 G Ex mb d IIC T4/T6 II 2 G Ex mb e II T4/T6	T4: -40 ... +50 T6: -40 ... +40	M20 x 1,5 *1)	1,2	10	4	4872
	—	10	—	43	IP66 (with cable gland)	II 2 G Ex mb d IIC T4/T6 II 2 G Ex mb e II T4/T6	T4: -40 ... +50 T6: -40 ... +40	M20 x 1,5 *1)	1,2	10	7	4873
	13,6	—	567	—	NEMA 4, 4X, 6, 6P, 7, 9	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C)	-20 ... +60	Flying leads 450 mm	0,5	8	1	3826
	—	15,7	—	68	NEMA 4, 4X, 6, 6P, 7, 9	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C)	-20 ... +60	Flying leads 450 mm	0,5	8	5	3827

Standard voltages (±10%) 24 V d.c., 230 V a.c., other voltages on request. Design according to VDE 0580, EN 50014/50028. 100% duty cycle.

*1) Connector/cable gland is not scope of delivery, see table »Accessories«

Attention: The protection class for coil series 46xx and 48xx is determined by the choice of cable gland. Example: if an ATEX-certified cable gland is used that has Ex d type of protection, the solenoid will have the protection class Ex d mb; if a cable gland with Ex e type of protection is used, the solenoid will have protection class Ex e mb.

Approvals

Model	Approvals ATEX	IECEX	FM	Datasheet
382x	—	—	CSA-LR 57643-6	N/en 7.1.575
42xx	KEMA 98 ATEX 4452 X	IECEX KEM 09.0068X	—	N/en 7.1.580

Approvals

Model	Approvals ATEX	IECEX	Datasheet
46xx	PTB 02 ATEX 2085 X	IECEX PTB 11.0094X	N/en 7.1.585
48xx	PTB 06 ATEX 2054 X	IECEX PTB 07.0039X	N/en 7.1.590

Solenoids group B, standard voltages

	Power consumption		Rated current		Protection class IP/NEMA	Ex-Protection (ATEX-Category)	Temperature Ambient/ Media (°C)	Electrical connection	Weight (kg)	Drawing No.	Circuit diagram No.	Model
	24 V d.c. (W)	230 V a.c. (VA)	24 V d.c. (m A)	230 V a.c. (m A)								
	6,8	—	284	—	IP65 (with connector)	—	-25 ... +60	Connector DIN EN 175301-803, form A *1)	0,33	2	1	0827
	—	10,6	—	46	IP65 (with connector)	—	-25 ... +60	Connector DIN EN 175301-803, form A *1)	0,34	3	6	3805
	3,9	—	162	—	IP65	—	-30...+100 Media: +110	Terminals, cable gland Pg 13,5	0,5	9	2	4140
	—	5,3	—	23	IP65	—	-30...+100 Media: +110	Terminals, cable gland Pg 13,5	0,5	9	6	4141
	3,9	—	162	—	IP67	—	-30...+100 Media: +110	3 m cable, encapsulated in EP resin	0,7	9	2	4142
	—	5,3	—	23	IP67	—	-30...+100 Media: +110	3 m cable, encapsulated in EP resin	0,7	9	6	4143
	3,9	—	162	—	IP66 (with cable gland)	II 2 G Ex e mb IIC T4/ T6 Gb II 2 D Ex tb IIIC T130°C Db IP66	T4: -40 ...+80 T6: -40 ... +55 -40 ...+80	M20 x 1,5 *1)	0,6	6	4	4260
	—	5,3	—	23	IP66 (with cable gland)	II 2 G Ex e mb IIC T4/ T6 Gb II 2 D Ex tb IIIC T130°C Db IP66	T4: -40 ...+80 T6: -40 ... +55 -40 ...+80	M20 x 1,5 *1)	0,6	6	7	4261
	3,9	—	162	—	IP66 (with cable gland)	II 2 G Ex d mb IIC T4/ T6 Gb II 2 G Ex e mb IIC T4/ T6 Gb II 2 D Ex tb IIIC T130°C Db	T4: -40 ...+80 T6: -40 ... +55 -40 ...+80	1/2 NPT *1)	0,8	7	20	4660
	—	5,3	—	23	IP66 (with cable gland)	II 2 G Ex d mb IIC T4/ T6 Gb II 2 G Ex e mb IIC T4/ T6 Gb II 2 D Ex tb IIIC T130°C Db	T4: -40 ...+80 T6: -40 ... +55 -40 ...+80	1/2 NPT *1)	0,8	7	21	4661
	3,9	—	162	—	IP66 (with cable gland)	II 2 G Ex d mb IIC T4/ T6 Gb II 2 G Ex e mb IIC T4/ T6 Gb II 2 D Ex tb IIIC T130°C Db	T4: -40 ...+80 T6: -40 ... +55 -40 ...+80	M20 x 1,5 *1)	0,8	7	20	4662
	—	5,3	—	23	IP66 (with cable gland)	II 2 G Ex d mb IIC T4/ T6 Gb II 2 G Ex e mb IIC T4/ T6 Gb II 2 D Ex tb IIIC T130°C Db	T4: -40 ...+80 T6: -40 ... +55 -40 ...+80	M20 x 1,5 *1)	0,8	7	21	4663
	8,9	—	369	—	NEMA 4, 4X, 6, 6P, 7, 9	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C)	-20 ... +60	Flying leads 450 mm	0,5	8	1	3824
	—	9,5	—	41	NEMA 4, 4X, 6, 6P, 7, 9	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C)	-20 ... +60	Flying leads 450 mm	0,5	8	5	3825

Standard voltages (±10%) 24 V d.c., 230 V a.c., other voltages on request. Design according to VDE 0580, EN 50014/50028. 100% duty cycle.

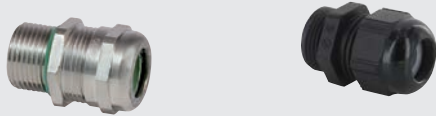
*1) Connector/cable gland is not scope of delivery, see table »Accessories«

Attention: The protection class for coil series 46xx and 48xx is determined by the choice of cable gland.

Example: if an ATEX-certified cable gland is used that has Ex d type of protection, the solenoid will have the protection class Ex d mb; if a cable gland with Ex e type of protection is used, the solenoid will have protection class Ex e mb.

Approvals

Model	Approvals ATEX	IECEX	FM	Datasheet
372x, 382x	—	—	CSA-LR 57643-6	N/en 7.1.575
42xx	KEMA 98 ATEX 4452 X	IECEX KEM 09.0068X	—	N/en 7.1.580
46xx	PTB 02 ATEX 2085 X	IECEX PTB 11.0094X	—	N/en 7.1.585

Accessories
Electrical connection
Cable gland
Protection class
Ex e, Ex d

Page 9

Thread	Cable Ø (mm)	Materials	Protection class (ATEX)	Model
M20 x 1,5	5 ... 8	Nickel plated brass	II 2 GD Ex e	0588819
M20 x 1,5	10 ... 14	Nickel plated brass	II 2 GD Ex d	0588851
1/2 NPT	7,5 ... 11,9	Nickel plated brass	II 2 GD Ex d	0588925
M20 x 1,5	9 ... 13	Stainless steel 1.4571 (316 Ti)	II 2 GD Ex e	0589385
M20 x 1,5	7 ... 12	Stainless steel 1.4404 (316 L)	II 2 GD Ex d	0589395
M20 x 1,5	10 ... 14	Stainless steel 1.4404 (316 L)	II 2 GD Ex d	0589387
M20 x 1,5	5 ... 9	Plastic (PA)	—	0110854
M20 x 1,5	6 ... 12	Plastic (PA)	—	0110855

Accessories
Connector for proximity switch
4-pin, 90°

Page 12

 0523058
 (2 m cable, 4-core)

 0523053
 (5 m cable, 4-core)

4-pin, 90°

Page 12

 0523056
 (without cable)

4-pin, straight

Page 12

 0523057
 (2 m cable, 4-core)

 0523052
 (5 m cable, 4-core)

4-pin, straight

Page 12

0523055 (wi hout cable)

Connector
DIN EN 175301-803


0570275 (form A)

Silencer *1)

Page 10

 C/S2 (1/8 NPT)
 M/S2 (G1/8)

Exhaust guard *2)

Page 10

0613422 (G1/4, 1/4 NPT)

Filter

Page 10

0681173 (G1/4, 1/4 NPT)

Add-on manual override *3)
Without detent

Page 7

0600205

with detent

Page 7

0601765

*1) For indoors use

*2) For outdoors use, opening pressure ~ 0,2 bar

 *3) Add on for NAMUR valves always possible, Inline on request
 Using the manual override with detent cancels the SIL-Approval!

Manual Override

The manual override is meant to be used for system testing. Upon de-energisation of the coil the valve returns to rest position by mechanical spring force (for testing only prior to commissioning).

Semi automatic/Manual reset

Function: The valve does not switch after energisation of the coil. It will only operate if the reset button is being pushed. The valve will then, by means of the coil voltage, be held in its switching position even if the reset button is being released. It will return to rest position when the coil is being de-energised. Allowable voltage tolerance: +/- 10%.

NAMUR accessories

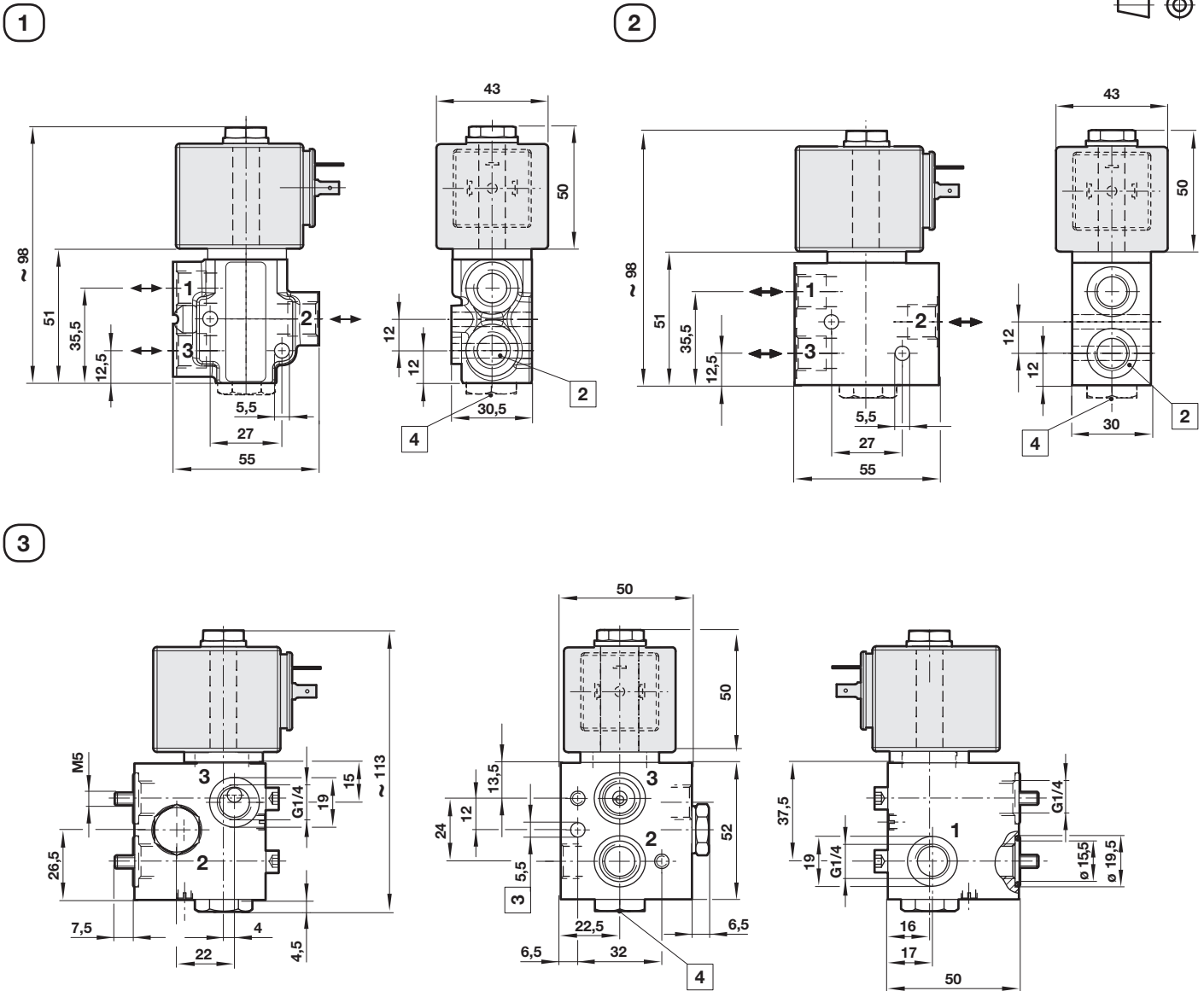
Throttle control plate *1)	Flange plate	Yoke	Distance plate for pressure switches	Mounting plate	Quick exhaust module *2)
Page 11	Page 10 & 11	Page 11	Page 11	Page 11	
4040239	0612790 (NAMUR single connection plate) 0612791 (NAMUR-rip use in combination with 0612790)	0540593	0540109	0613453 (90°) 0612631 (180°) 0613556 (270°)	4050218

*1) The throttle control plate 4040239 has a minimum flow rate for safety reason.

*2) Technical details see catalogue page en 5.4.820.

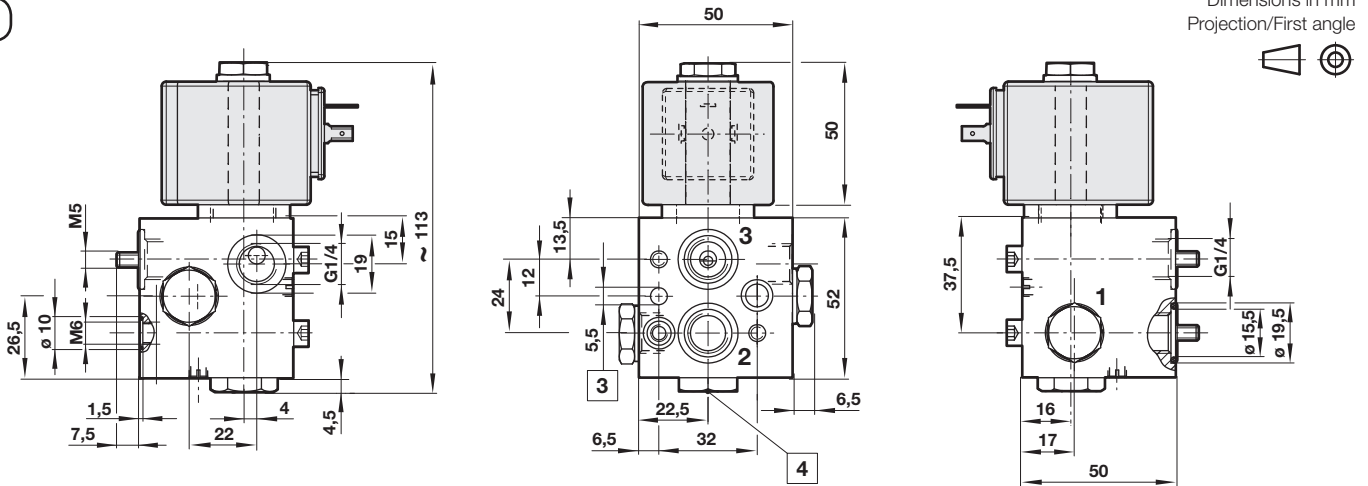
**Drawings
Valves**

Dimensions in mm
Projection/First angle



- 2 Port size G1/4 or 1/4 NPT
- 3 3 mm deep
- 4 Retrofit option for manual override

4



Dimensions in mm
Projection/First angle

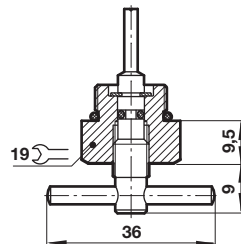
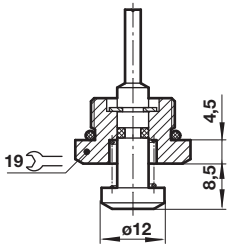


- 2 Port size G1/4 or 1/4 NPT
- 3 3 mm deep
- 4 Retrofit option for manual override

Add-on manual override

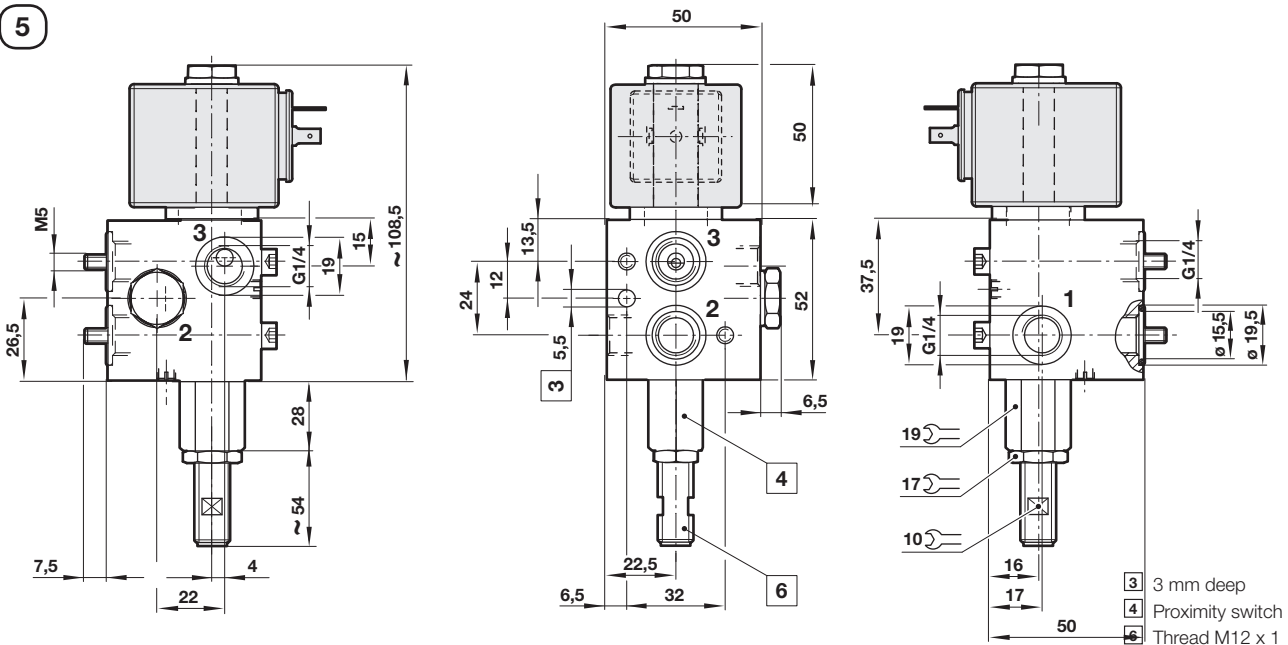
Without detent
Model: 0600205

With detent
Model: 0601765



Please note: add-on manual override for NAMUR valves provided only for commissioning and tests

5



- 3 3 mm deep
- 4 Proximity switch
- 6 Thread M12 x 1

Proximity switch Technical features

Supply voltage (U_b):

7,7 ... 9 V d.c.

Ripple:

15%

Frequency of operating cycles:

1000 Hz

Protection class:

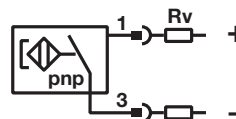
IP68

Pressure-resistant:

500 bar (7251 psi)

Ambient temperature:

-25 ... +70°C (-13 ... +158°F)

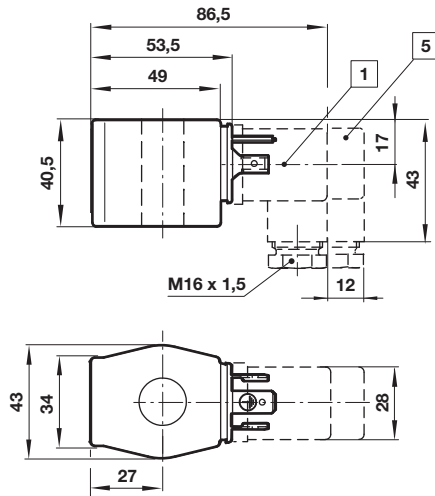


Solenoids

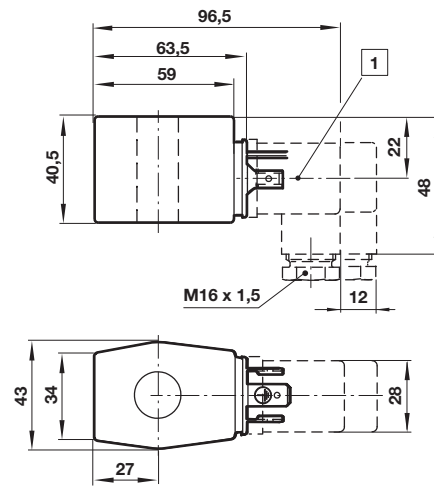
Dimensions in mm
Projection/First angle



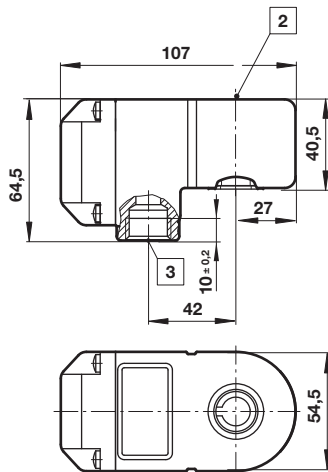
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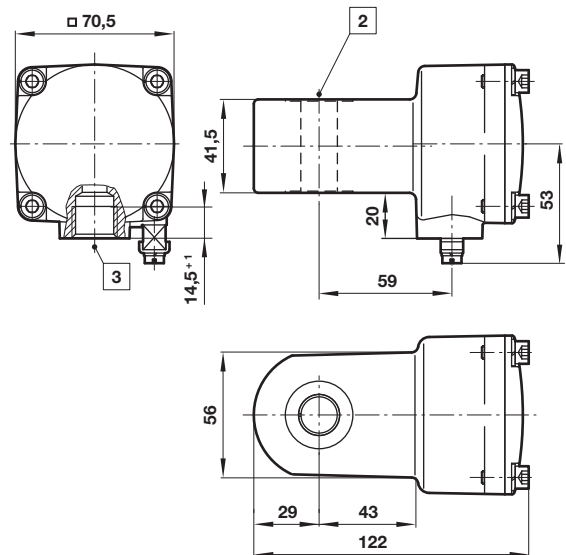
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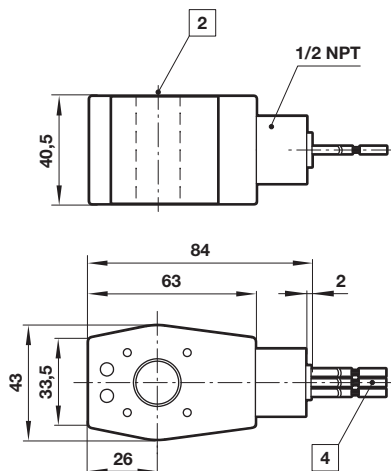
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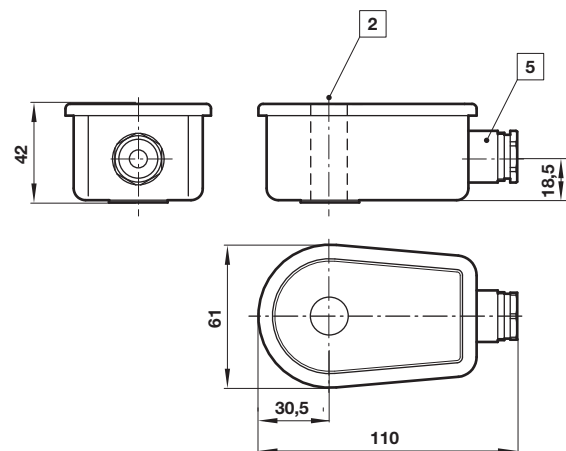
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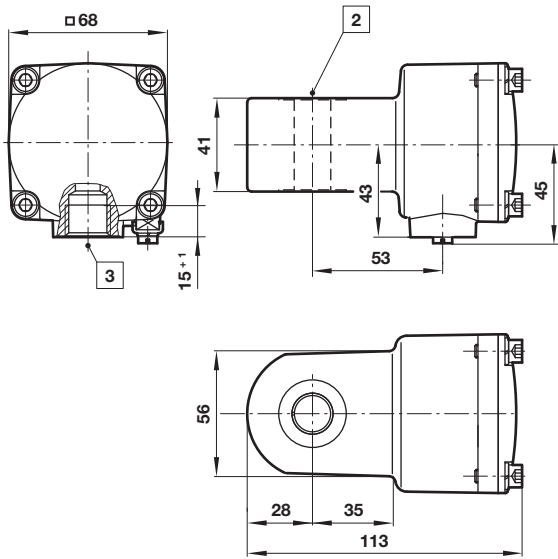


9



- 1 Connector can be indexed by 4x90°
- 2 Ø 16 or 13 (with spacer tube)
- 3 M20 x 1,5 or 1/2 NPT
- 4 Flying leads AWG 18 (450 mm long)
- 5 With cable gland, Pg 13,5

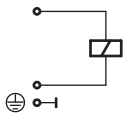
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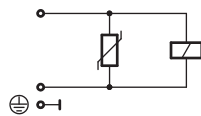
2 Ø 16
3 M20 x 1,5

Circuit diagrams

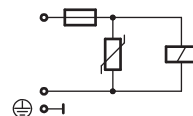
1



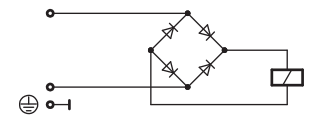
2



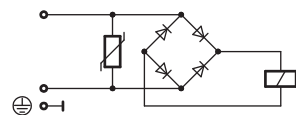
4



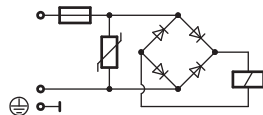
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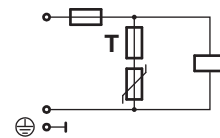
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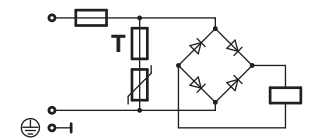
7



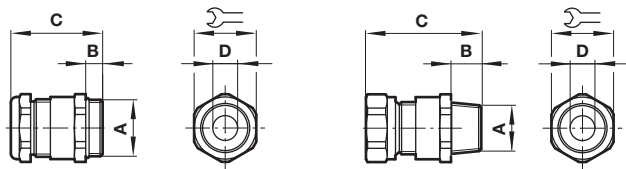
20



21



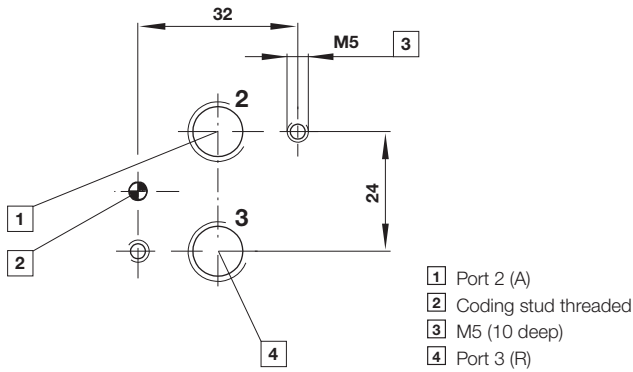
Cable gland



0588925 only

A	B	C	ø D	⌀	Model
M20 x 1,5	9	36	5 ... 8	22	0588819
M20 x 1,5	6,5	27,5	9 ... 13	22	0589385
M20 x 1,5	14	39	10 ... 14	24	0588851
1/2 NPT	15	58	7,5 ... 11,9	24	0588925
M20 x 1,5	14	39	7 ... 12	24	0589395
M20 x 1,5	10	34	10 ... 14	24	0589387
M20 x 1,5	9	36	5 ... 9	24	0110854
M20 x 1,5	9	36	6 ... 12	24	0110855

NAMUR hole pattern (driving side)



Accessories

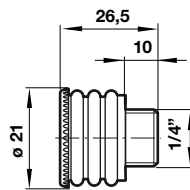
Silencer

Model: M/S2, C/S2



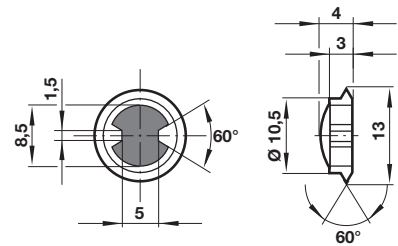
Exhaust guard

Model: 0613422



Filter

Model: 0681173



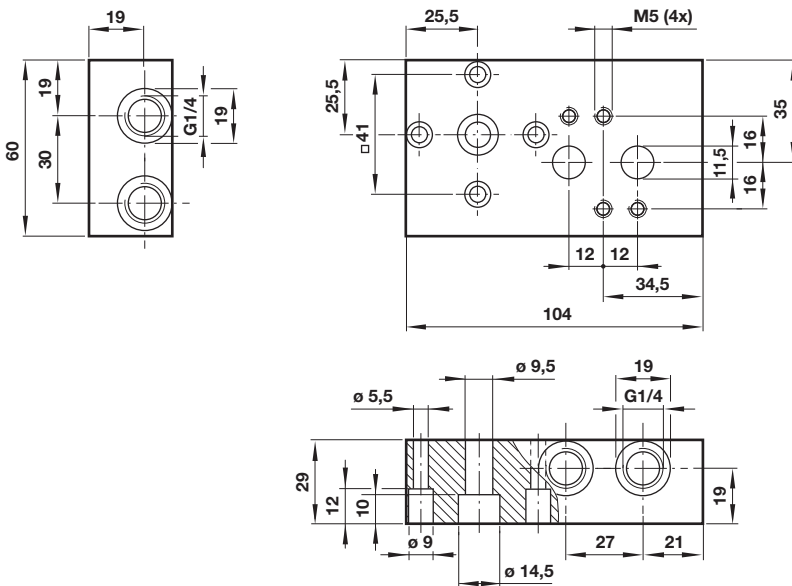
Thread pitch diameter max. 11,85 mm

Dimensions in mm
Projection/First angle

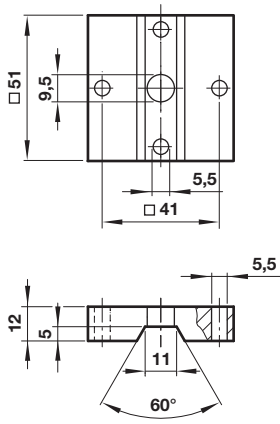


Single connection plate

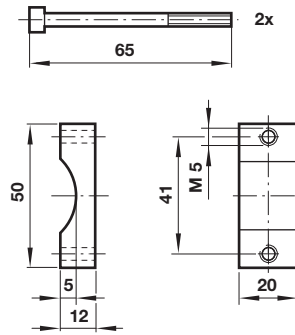
Model: 0612790



NAMUR slot
Model: 0612791

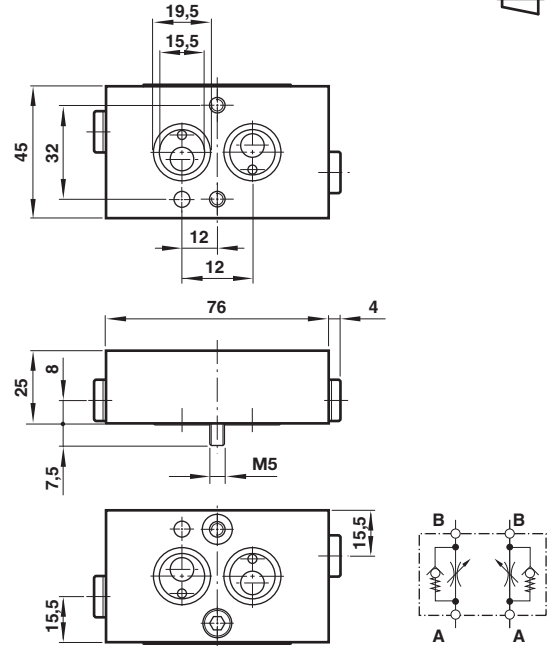


Yoke
Model: 0540593

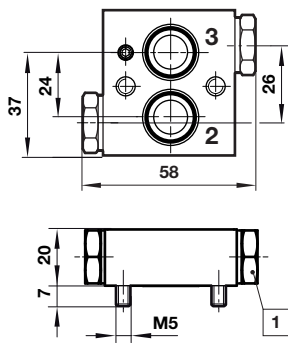


Throttle control plate
Model: 4040239

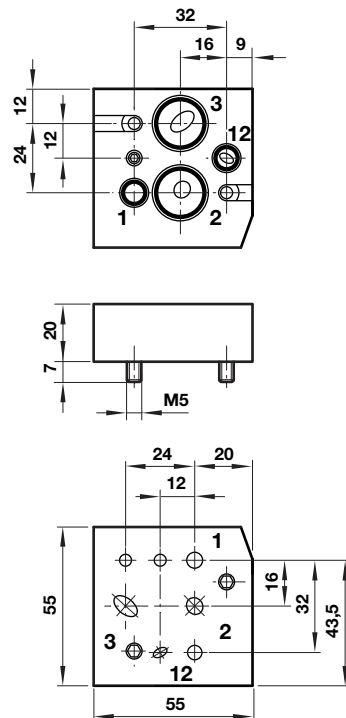
Dimensions in mm
Projection/First angle



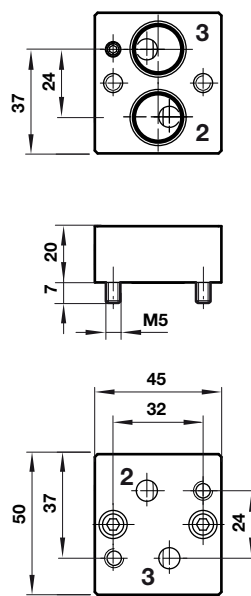
Distance plate for pressure switches
Model: 0540109



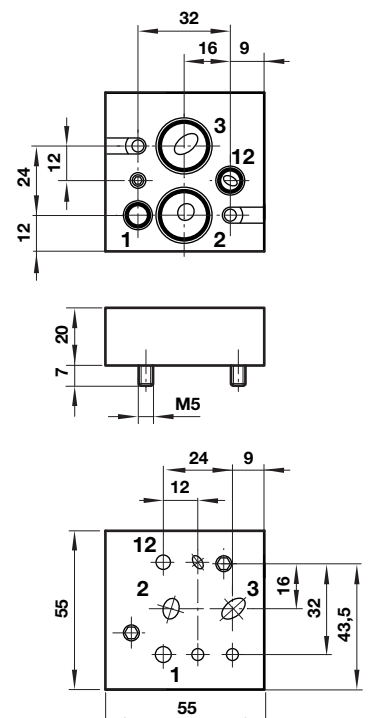
Mounting plate
Model: 0613453 (90°)



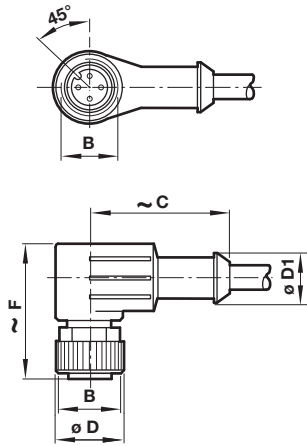
Model: 0612631 (180°)



Model: 0613556 (270°)

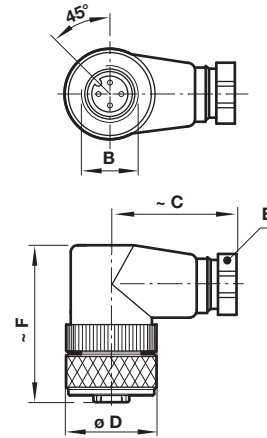


Connector
90°, 4 pin, with PUR cable



B	C	øD	øD1	F	Wire x dim.	Cable length (m)	Weight (g)	Model
M12 x 1,5	32,5	15	11	27	4 x 0,34 mm ²	2	90	0523058
M12 x 1,5	32,5	15	11	27	4 x 0,34 mm ²	5	180	0523053

90°, 4 pin, without cable

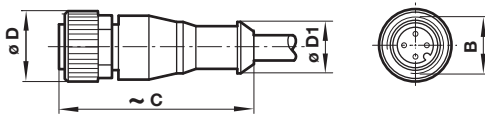


B	C	øD	E	F	Weight (g)	Model
M12 x 1,5	40,5	20	Pg 7	35	30	0523056

Dimensions in mm
Projection/First angle

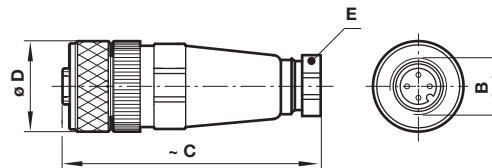


Straight, 4 pin, with PUR cable



B	C	øD	øD1	Wire x dim.	Cable length (m)	Weight (g)	Model
M12 x 1,5	40	15	11	4 x 0,34 mm ²	2	80	0523057
M12 x 1,5	40	15	11	4 x 0,34 mm ²	5	200	0523052

Straight, 4 pin, without cable



B	C	øD	E	Weight (g)	Model
M12 x 1,5	40,5	20	Pg 7	26	0523055

Warning

These products are intended for use in industrial compressed air and fluid systems only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/data**«. Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the

event of such failure. System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided. System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

Functional safety (SIL): Suitable for certain applications can only be evaluated through examination of each safety-related overall system with regard to the requirements of IEC 61508/61511.