

## 3/2 poppet valves electromagnetic actuated, directly controlled G 1/4, 1/4 NPT or flanged with NAMUR interface

**TÜV-approval based on IEC 61 508**

**Valves for safety systems up to SIL 4**

**Add-on manual override or inductive limit switches**

**Valve switches at power failure into starting position (mechanical spring return)**

**Suited for outdoor use under critical environment conditions (see solenoid list)**

**These solenoid valves are applicable in Ex protection class ATEX (categories II 2 GD) and other international approvals**



Approval depends on magnetic system, see pages 3 and 4!



### Technical features

**Medium:**

Compressed air, filtered, non-lubricated and dry  
Other gase and liquid fluids on request

**Operation:**

Direct solenoid operated poppet valves

**Flow direction:**

Optional

**Mounting position:**

Any, but preferably with solenoid vertical

**Flow:**

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

**Port size:**

G 1/4, 1/4 NPT or flanged with NAMUR Interface

**Orifice:**

DN 5

**Operating pressure:**

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

**Fluid/Ambient temperature:**

Fluid: -25°C ... +80°C  
[-13 ... +176°F] (NBR)  
-10°C ... +120°C (+14 ... +248°F) (FKM)

Water: ... +95°C (+ 203°F)  
-40°C ... +60°C (-40 ... +140°F) (VMQ)

Depending on solenoid system  
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (35°F)  
For outdoor installation please protect all connections against the penetration of moisture!

**Materials:**

Housing:  
stainless steel 1.4404 (316L),  
brass 2.0402 (Ms 58),  
hard anodized aluminium 3.0615  
Seal: FKM, NBR (perbunan),  
VMQ (silicon)  
Inner parts: stainless steel, brass

### Technical data

#### With threaded connection, brass valves

Symbol	Solenoid group	Port size	Operating pressure * (bar)	Material Seat seal	Manual override	Weight (kg)	Test certificate IEC 61 508 *2) 97/23EG *7)	Dimension No.	Model *1)	
	A + B	G 1/4	0 ... 10	NBR	without	0,65	X	—	1	2401103
	A + B	G 1/4	0 ... 10	NBR	push only	0,70	X	—	1	2401107
	A + B	G 1/4	0 ... 10	NBR	turn and lock	0,70	—	—	1	2401119
	A + B	G 1/4	0 ... 10	NBR	without	0,65	X	X	1	2401149
	A + B	G 1/4	0 ... 10	FKM	without	0,65	X	—	1	2401126
	A + B	G 1/4	0 ... 10	Silicon *3)	without	0,65	X	—	1	2401153
	A + B	G 1/4	0 ... 10	Silicon *3)	push only*5)	0,70	X	—	1	2401154
	A + B	1/4 NPT	0 ... 10	NBR	without	0,65	X	X	1	2401138
	A + B	1/4 NPT	0 ... 10	NBR	push only	0,70	X	—	1	2401148
	A + B	1/4 NPT	0 ... 10	NBR	turn and lock	0,70	—	—	1	2401136
	A + B	1/4 NPT	0 ... 10	NBR	push only *5)	0,70	X	—	1	2401140
	A + B	1/4 NPT	0 ... 10	FKM	without	0,65	X	—	1	2401131
	A + B	1/4 NPT	0 ... 10	Silicon *3)	without	0,65	X	—	1	2401106
	A + B	1/4 NPT	0 ... 10	Silicon *3)	push only *5)	0,70	X	—	1	1025226

\* Viscosity for gaseous or liquid fluids up to 40 mm<sup>2</sup>/s

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

\*2) Approval is not included in delivery, part No. 0695241

\*3) For ambient temperature down to -40°C

\*5) For semi automatic operation

\*7) EG Type examination according to directive 97/23/EG

- Particular for valves with TÜV approval and attachment in plants based on safety standards DIN V 19250, IIEC 61511, taking into account to the operating and maintenance instructions document 7503444.
- The responsibility for the maintenance and repair of the solenoid valves lies with the users or the supervisory authority for these process systems.

**Housing: stainless steel (1.4404) for aggressive environment**

Symbol	Solenoid group	Port size	Operating pressure * (bar)	Material Seat seal	Manual override	Weight (kg)	Test certificate IEC 61 508 *2) 97/23EG *7)	Dimension No.	Model *1)
	A + B	G 1/4	0 ... 10	NBR	without	0,65	X X	2	2401186
	A + B	1/4 NPT	0 ... 10	NBR	without	0,65	X X	2	2401112

Symbol	Solenoid group	Port size	Operating pressure * (bar)	Material Seat seal	Manual override	Weight (kg)	Test certificate IEC 61 508 *2) 97/23EG *7)	Dimension No.	Model *1)
	A	G 1/4	0 ... 10	FKM	without	0,70	— —	2	2401127
	A	G 1/4	0 ... 10	FKM	push only	0,70	X —	2	2401170
	A	G 1/4	0 ... 10	FKM	turn and lock	0,70	— —	2	2401139
	A	G 1/4	0 ... 10	Silicon *3)	without	0,65	— X	2	2401155
	A	1/4 NPT	0 ... 10	FKM	without	0,65	— —	2	2401147
	A	1/4 NPT	0 ... 10	FKM	push only *5)	0,70	X —	2	2401146
	A	1/4 NPT	0 ... 10	Silicon *3)	without	0,65	— X	2	2401168

**Housing: aluminium hard anodized, flanged with NAMUR Interface**

Symbol	Solenoid group	Port size	Operating pressure * (bar)	Material Seat seal	Manual override *6)	Besonderheiten	Weight (kg)	Test certificate IEC 61 508 *2) 97/23EG *7)	Dimension No.	Model *1)
	A + B	G 1/4	0 ... 10	NBR	without	—	0,55	X X	3	2401191
	A + B	G 1/4	0 ... 10	NBR	without	free of non-ferrous metals	0,55	— X	3	2401116
	A + B	G 1/4	0 ... 10	NBR	without	with limit switch	0,70	—	5	1025333
	A + B	1/4 NPT	0 ... 10	NBR	without	—	0,55	X X	3	1025254
	A + B	G 1/4	0 ... 10	Silicon *3)	without	—	0,55	X	3	2401133
	A + B	G 1/4	0 ... 10	NBR	without	P in flange interface *4)	0,55	X X	4	2401109

**Housing: stainless steel (1.4404) for aggressive environment, flanged with NAMUR Interface**

Symbol	Solenoid group	Port size	Operating pressure * (bar)	Material Seat seal	Manual override *6)	Besonderheiten	Weight (kg)	Test certificate IEC 61 508 *2) 97/23EG *7)	Dimension No.	Model *1)
	A + B	G 1/4	0 ... 10	NBR	without	—	1,00	X —	2	2401196
	A	G 1/4	0 ... 10	Silicon *3)	without	—	1,00	—	2	2401142
	A + B	G 1/4	0 ... 10	NBR	without	P in flange interface *4)	1,00	X X	3	1025212
	A + B	1/4 NPT	0 ... 10	NBR	without	P in flange interface *4)	1,00	X X	3	1025328

\* Viscosity for gaseous or liquid fluids up to 40 mm<sup>2</sup>/s.

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

\*2) Approval is not included in delivery, part No. 0695241

\*3) For ambient temperature down to -40°C

\*4) Acc. to VDI/VDE 3845 port P in flange for attachment of positioners or to interlinking plate (see data sheet N/en 5.8.300)

\*5) For semi automatic operation

\*6) Add-on manual override, see accessories

\*7) EG Type examination according to directive 97/23/EG

• Approval S 137/01, SIL 4 for low demand mode, SIL 3 for high demand mode, Approval S 83/96, AK 7 (request from manufacturer)

• Particular for valves with TÜV approval and attachment in plants based on safety standards DIN V 19250, IIEC 61511, taking into account to the operating and maintenance instructions document 7503444.

• The responsibility for the maintenance and repair of the solenoid valves lies with the users or the supervisory authority for these process systems.

**Solenoid operator, solenoids group A**

	Power consumption		Rated current		Ex-Protection (ATEX-Category)	Protection class *7)	Temperature Ambient/ Fluid (°C)	Electrical connection	Weight (kg)	Dimension 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	—	—	IP 65 (with connector) *5)	-25 ... +60 Fluid: max. 80	Connector DIN EN 175301-803, Form A *6)	0,26	3	1	0800
	—	17,3	—	75	—	IP 65 (with connector) *5)	-25 ... +60 Fluid: max. 80	Connector DIN EN 175301-803, Form A *6)	0,35	4	6	3803
	8,9	—	369	—	—	IP65	-30...+90 Fluid: 110	Terminals, cable gland Pg 13,5	0,5	9	2	4120
	—	10,0	—	43	—	IP65	-30...+90 Fluid: 110	Terminals, cable gland Pg 13,5	0,5	9	6	4121
	8,9	—	369	—	—	IP67	-30...+90 Fluid: 110	3 m cable, encapsulated in EP resin	0,7	9	2	4122
	—	10,0	—	43	—	IP67	-30...+90 Fluid: 110	3 m cable, encapsulated in EP resin	0,7	9	6	4123
	8,9	—	369	—	II2G	Ex e mb IIC T4/T5 Gb	-40 ... +65 T4 -40 ... +55 T5	M20 x 1,5 *6)	0,5	6	4	4270 *8)
	—	10,0	—	43	II2D	Ex tb IIIC T130°C Db IP66*2), *10)	-40 ... +65					
	—	10,0	—	43	II2G	Ex e mb IIC T4/T5 Gb	-40 ... +65 T4 -40 ... +55 T5	M20 x 1,5 *6)	0,5	6	7	4271 *8)
	8,9	—	369	—	II2G	Ex d mb IIC T4/T6 Gb	-40 ... +70 T4 -40 ... +40 T6	1/2 - 14 NPT *6)	0,8	7	20	4670 *8)
	—	10,0	—	43	II2D	Ex tb IIIC T130°C Db *3) *10)	-40 ... +70					
	—	10,0	—	43	II2G	Ex d mb IIC T4/T6 Gb	-40 ... +70 T4 -40 ... +40 T6	1/2 - 14 NPT *6)	0,8	7	21	4671 *8)
	—	10,0	—	43	II2D	Ex tb IIIC T130°C Db *3) *10)	-40 ... +70					
	8,9	—	369	—	II2G	Ex d mb IIC T4/T6 Gb	-40 ... +70 T4 -40 ... +40 T6	M20 x 1,5 *6)	0,8	7	20	4672 *8)
	—	10,0	—	43	II2G	Ex e mb IIC T4/T6 Gb	-40 ... +70 T4 -40 ... +40 T6	M20 x 1,5 *6)	0,8	7	21	4673 *8)
Stainless steel	8,9	—	369	—	II2G	Ex mb d IIC T4/T6	-40 ... +50 T4 -40 ... +40 T6	M20x1,5 *6)	1,2	10	4	4872 *8), *11)
	—	10	—	43	II2D	Ex mb D 21 tD A21 IP66 T100°C	-40 ... +50					
	13,6	—	567	—	—	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C) *4) NEMA 4, 4X, 6, 6P, 7, 9 *4)	-20 ... +60	Flying leads 450 mm long	0,5	8	1	3826
	—	15,7	—	68	—	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II/III, Gr. E-G T3 (160°C) *4) NEMA 4, 4X, 6, 6P, 7, 9 *4)	-20 ... +60	Flying leads 450 mm long	0,5	8	5	3827

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

- \*1) EG-Type-Examination-Certificate KEMA 02 ATEX 1347 X
- \*2) EG-Type-Examination-Certificate KEMA 98 ATEX 4452 X
- \*3) EG-Type-Examination-Certificate PTB 02 ATEX 2085 X
- \*4) CSA-LR 57643-6, FM Approval
- \*5) Required connector: type 0570275
- \*6) Connector cable gland not supplied, see table »Accessories«
- \*7) IP-Protection class according to EN60529
- \*8) Suitable for outdoor installation

\*10) IEC Ex Certificate of Conformity

\*11) EG-Type-Examination-Certificate PTB 06 ATEX 2054 X

**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 dmb; if a cable gland with Ex e type of protection is used, the solenoid will have protection class Ex emb.

Solenoid operator, solenoids group B

	Power consumption		Rated current		Ex-Protection (ATEX-Category)	Protection class *7)	Temperature Ambient/ Fluid (°C)	Electrical connection	Weight (kg)	Dimension 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)								
	6,8	—	284	—	—	IP65 with connector *5)	-25...+60	Connector DIN EN 175301-803, Form A *6)	0,33	3	1	0827
	—	10,6	—	46	—	IP65 with connector *5)	-25...+60	Connector DIN EN 175301-803, Form A *6)	0,34	4	6	3805
	3,9	—	162	—	—	IP65	-30...+100 Fluid: 110	Terminals, cable gland Pg 13,5	0,5	9	2	4140
	—	5,3	—	23	—	IP65	-30...+100 Fluid: 110	Terminals, cable gland Pg 13,5	0,5	9	6	4141
	3,9	—	162	—	—	IP67	-30...+100 Fluid: 110	3 m cable, encapsulated in EP resin	0,7	9	2	4142
	—	5,3	—	23	—	IP67	-30...+100 Fluid: 110	3 m cable, encapsulated in EP resin	0,7	9	6	4143
	3,9	—	162	—	I12G	Ex d mb IIC T4/T6 Gb	-40...+80 T4 -40...+55 T6 -40...+80	M20 x 1,5 *6)	0,6	6	4	4260
	—	5,3	—	23	I12D	Ex tb IIIC T130°C Db IP66 *2), *10)	-40...+80 T4 -40...+55 T6 -40...+80	M20x1,5 *6)	0,6	6	7	4261
	3,9	—	162	—	I12G	Ex d mb IIC T4/T6 Gb	-40...+80 T4 -40...+55 T6 -40...+80	1/2 NPT *6)	0,8	7	20	4660 *8)
	—	5,3	—	23	I12D	Ex e mb IIC T4/T6 Gb Ex tb IIIC T130°C Db *3) *10)	-40...+80 T4 -40...+55 T6 -40...+80	1/2 NPT *6)	0,8	7	21	4661 *8)
	3,9	—	162	—	I12G	Ex d mb IIC T4/T6 Gb	-40...+80 T4 -40...+55 T6 -40...+80	M20x1,5 *6)	0,8	7	20	4662 *8)
	—	5,3	—	23	I12D	Ex e mb IIC T4/T6 Gb Ex tb IIIC T130°C Db *3) *10)	-40...+80 T4 -40...+55 T6 -40...+80	M20x1,5 *6)	0,8	7	21	4663 *8)
	3,9	—	162	—	I12G	Ex d mb IIC T4/T6 Gb	-40...+80 T4 -40...+55 T6 -40...+80	M20x1,5 *6)	0,8	7	20	4662 *8)
	—	5,3	—	23	I12D	Ex e mb IIC T4/T6 Gb Ex tb IIIC T130°C Db *3) *10)	-40...+80 T4 -40...+55 T6 -40...+80	M20x1,5 *6)	0,8	7	21	4663 *8)
	8,9	—	369	v	—	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II / III, Gr. E-G T3 (160°C) *4) NEMA 4, 4X, 6, 6P, 7, 9	-20 ... +60	Flying leads 450 mm long	0,5	8	1	3824
	—	9,5	—	41	—	XP/DIP, Div. 1 & 2 Cl. I, Gr. A-D Cl. II / III, Gr. E-G T3 (160°C) *4) NEMA 4, 4X, 6, 6P, 7, 9	-20 ... +60	Flying leads 450 mm long	0,5	8	5	3825

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

- \*1) EG-Type-Examination-Certificate KEMA 02 ATEX 1347 X
- \*2) EG-Type-Examination-Certificate KEMA 98 ATEX 4452 X
- \*3) EG-Type-Examination-Certificate PTB 02 ATEX 2085 X
- \*4) CSA-LR 57643-6, FM Approval
- \*5) Required connector: type 0570275
- \*6) Connector cable gland not supplied, see table »Accessories«
- \*7) IP-Protection class according to EN60529

\*8) Suitable for outdoor installation  
\*10) IEC Ex Certificate of Conformity

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 dmb; if a cable gland with Ex e type of protection is used, the solenoid will have protection class Ex emb.

## Accessories

Cable gland  
Protection class Ex e, Ex d  
(ATEX),  
Nickel plated brass/stainless  
steel



Page 12 Thread	Cable Ø	Material	Protection class (ATEX)	Model
M 20x1,5	5,0...8,0 mm	Nickel plated brass	II2GD Ex e	0588819
M 20x1,5	10...14 mm	Nickel plated brass	II2GD Ex d	0588851
1/2-14-NPT	7,5...11,9 mm	Nickel plated brass	II2GD Ex d	0588925
M 20x1,5	9,0...13 mm	Stainless steel 1.4571	II2GD Ex e	0589385
M 20x1,5	7,0...12 mm	Stainless steel 1.4404	II2GD Ex d	0589395
M 20x1,5	10...14 mm	Stainless steel 1.4404	II2GD Ex d	0589387

Connector	Connector M12 x 1 (straight)	M12 x 1 (90°)	Silencer *1)	Exhaust guard *2)	Filter	Add-on manual override *3) Without detent      with detent	
Page 12	Page 12	Page 12	Page 12	Page 12	Page 12	Page 7	
0570275	0523055 (without cable) 0523057 (2 m cable length) 0523052 (5 m cable length)	0523056 (90°, (without cable) 0523058 (90°, 2 m cable length) 0523053 (90°, 5 m cable length)	C/S2 1/4 NPT	0613422 (G1/4, 1/4 NPT)	0681173 (G1/4, 1/4 NPT)	0600205	0601765
		M/S2 6 1/4					

\*1) For indoors use

\*2) For outdoors use

\*3) Add on for NAMUR valves always possible, Inline on request

Throttle control plate	Flange plate	Yoke
Page 11	Page 11	Page 11
4040239 (for G1/4 only)	0612790 (NAMUR single connection plate, for G1/4 only) 0612791 (NAMUR-rip use in combination with 0612790, Atu)	0540593

### Manual override

Solenoid not energized with button actuation valve is connected and reset by spring. (For testing only prior to commissioning)

### Semi automatic

Solenoid energized. When button operation valve is switched and remains switched to magnetic current.

### Manual reset

Solenoid no more energized, valve still working. Need to push a button at the valve to switch off the operating.

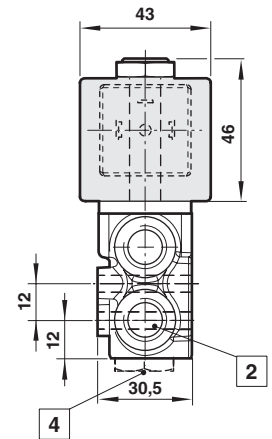
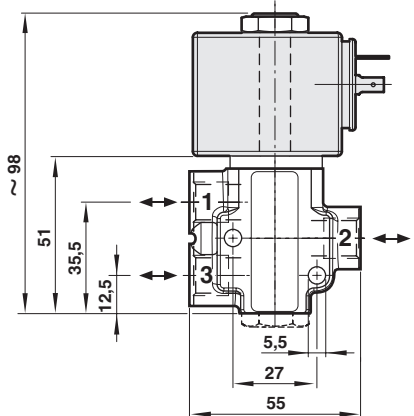
Dimensions

Valves

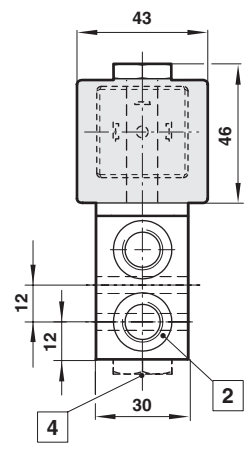
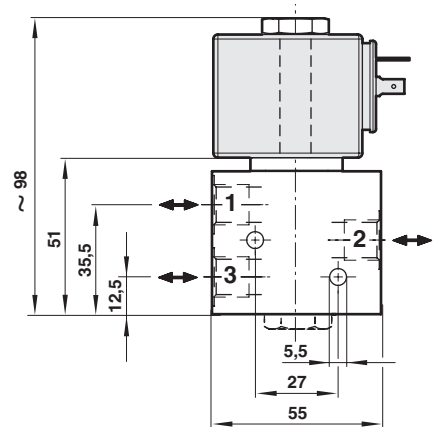
Dimensions shown in mm  
Projection/First angle



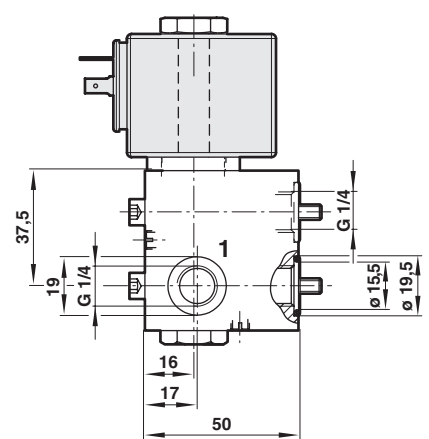
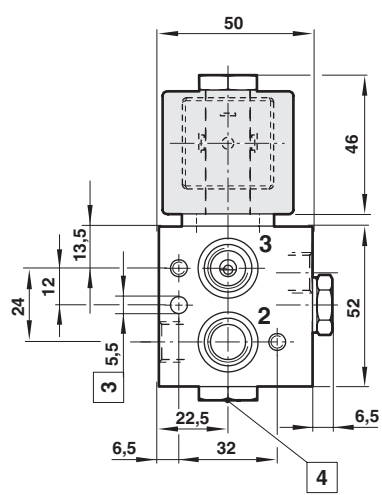
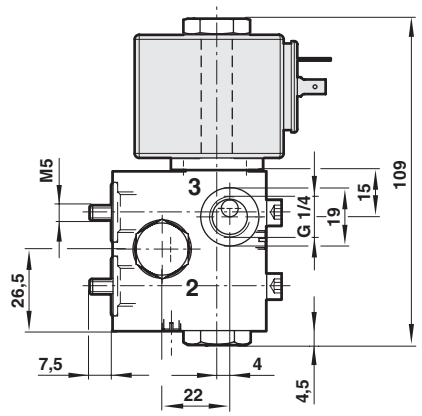
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2



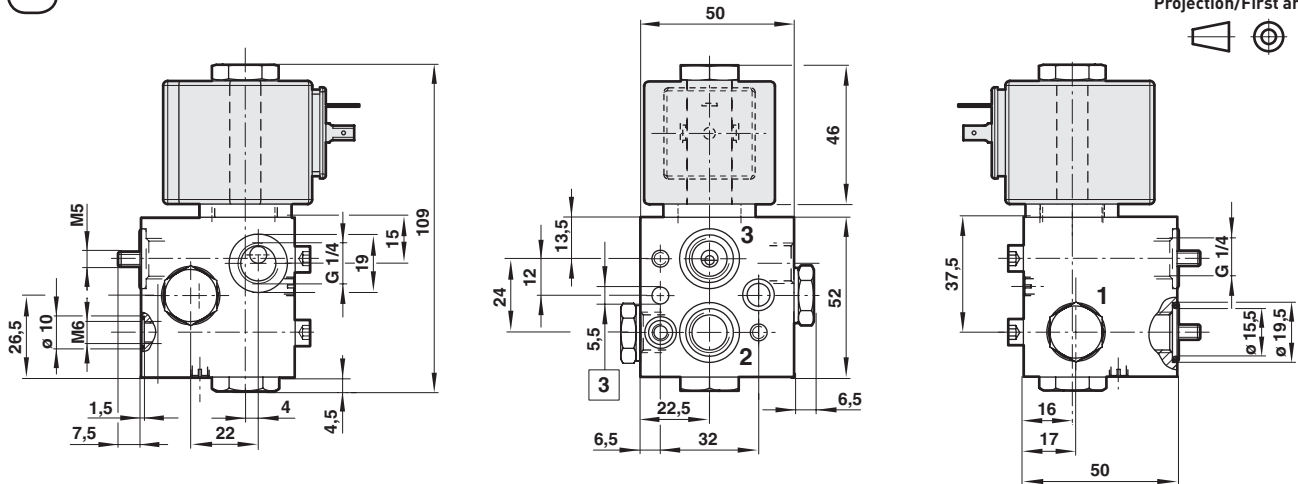
3



- 2 Port size G 1/4 or 1/4 NPT
- 3 3 mm deep
- 4 Screw, only for valves with the Option "retrofit manual override" see technical data table and page 7

4

Dimensions shown in mm  
Projection/First angle

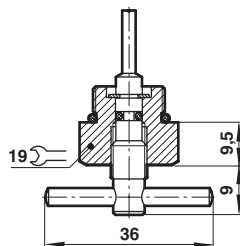
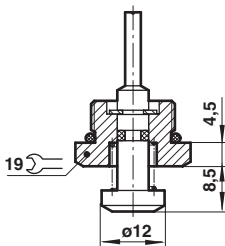


- 2 Port size G 1/4 or 1/4 NPT
- 3 3 mm deep

**Add-on manual override**

**Without detent**  
Model: 0600205

**With detent**  
Model: 0601765

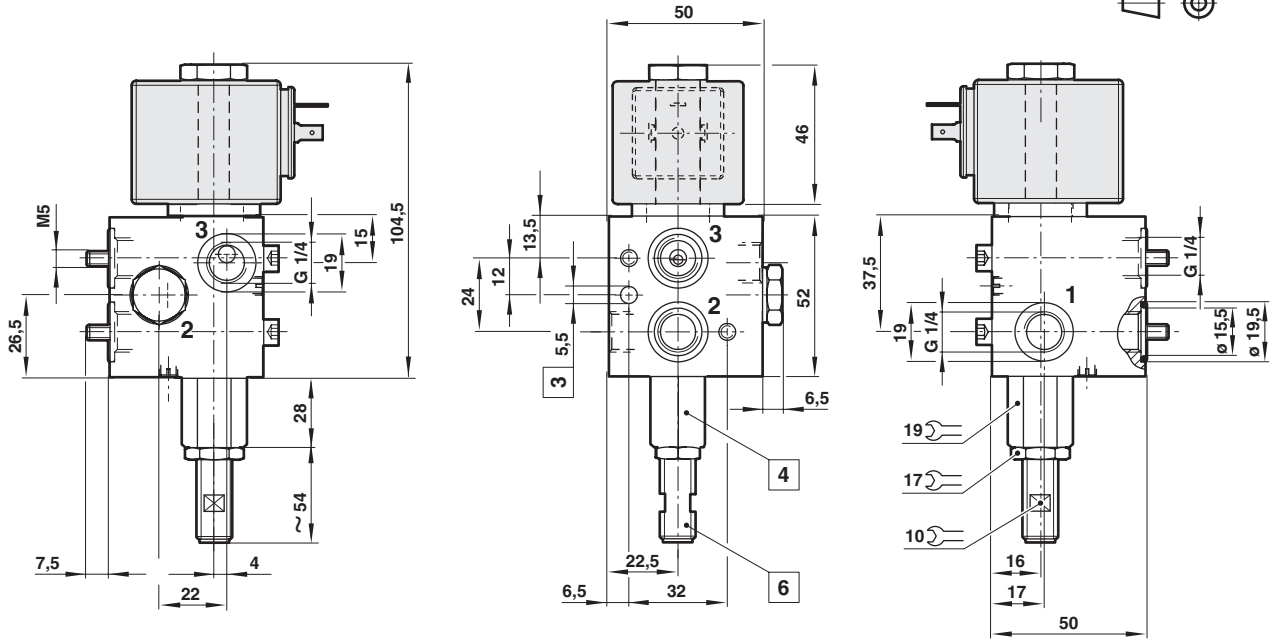


Please note: add-on manual override for NAMUR valves provided only for commissioning and tests

Dimensions shown in mm  
Projection/First angle



5



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

**Proximity switch**

**Technical features**

**Supply voltage (U<sub>b</sub>):**

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

**Ripple:**

15%

**Frequency of operating cycles:**

1000 Hz

**Protection class:**

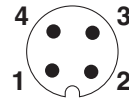
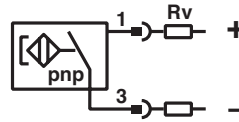
IP68

**Pressure-resistant:**

500 bar

**Ambient temperature:**

-25 ... +70°C

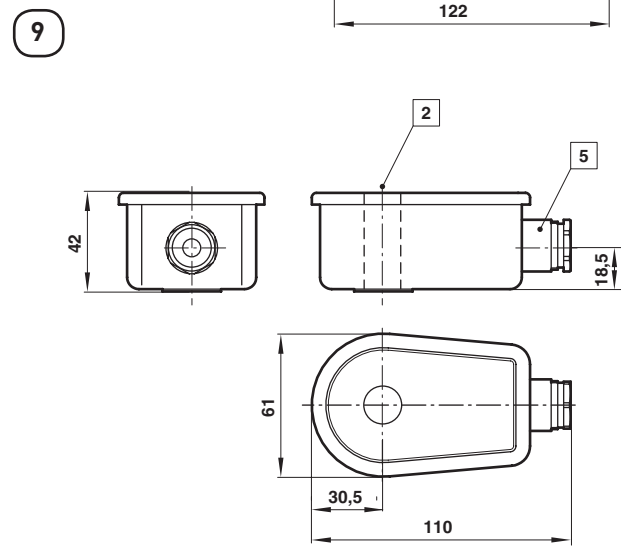
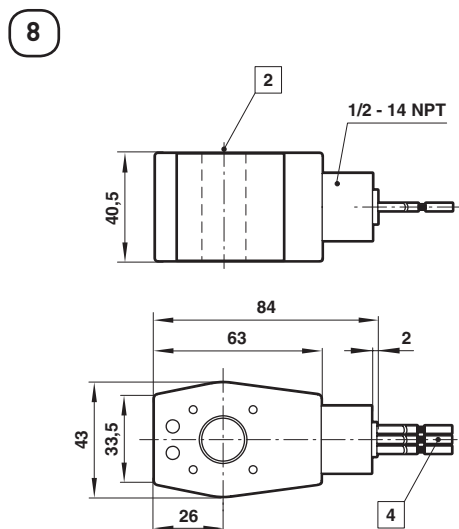
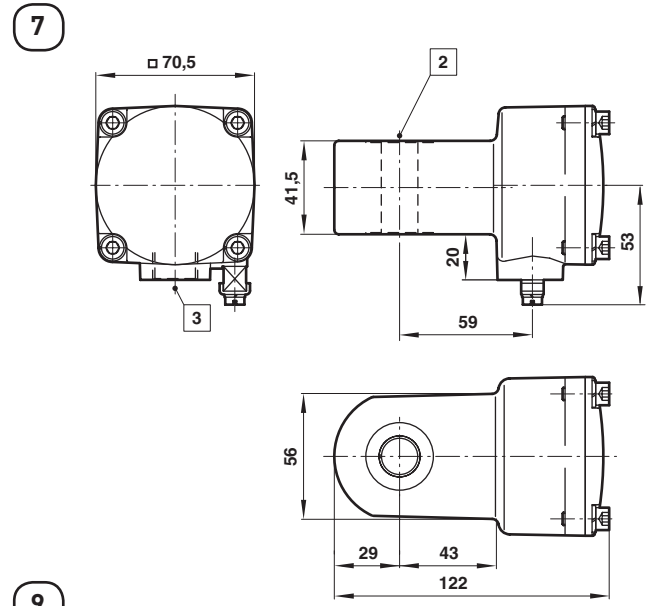
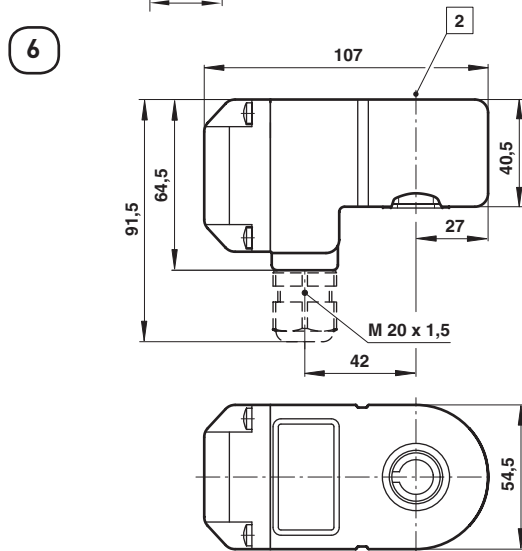
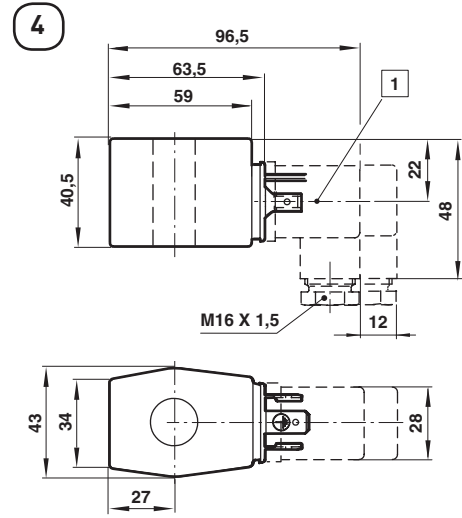
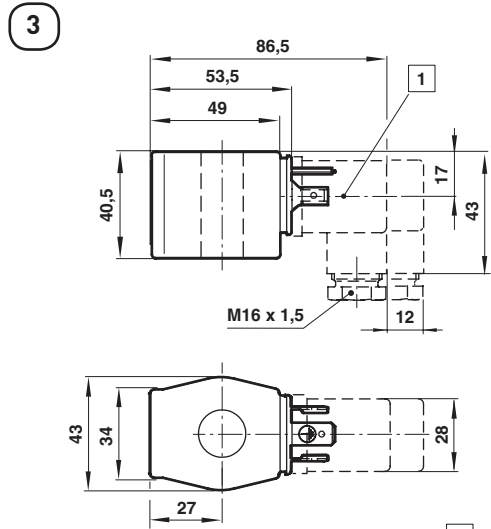




**Dimensions**

**Solenoids**

Dimensions shown in mm  
Projection/First angle

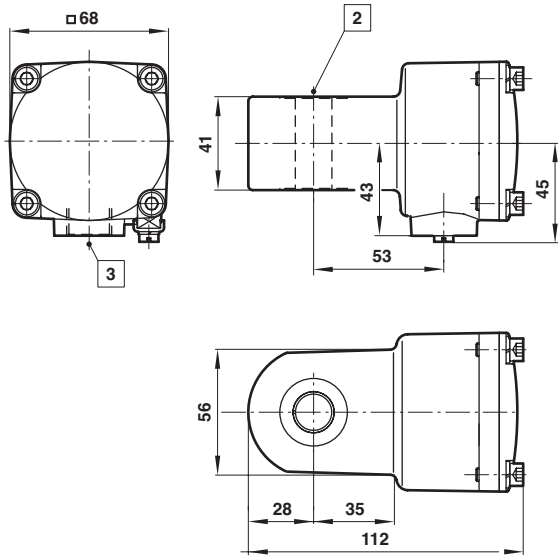


- 1 Connector can be indexed by 4x90°
- 2 Ø 16 or 13 (with spacer tube)
- 3 M20 x 1,5 or 1/2 - 14 NPT
- 4 Flying leads AWG 18 (450 mm long)
- 5 With cable gland, Pg 13,5

Dimensions shown in mm  
Projection/First angle



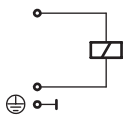
10



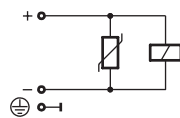
2  $\varnothing$  16  
3 M20 x 1,5

Circuit diagrams

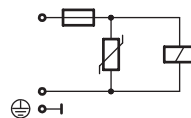
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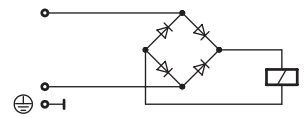
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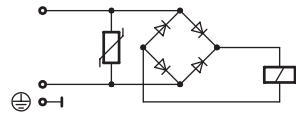
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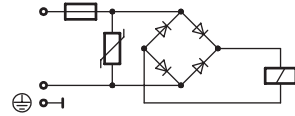
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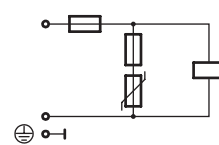
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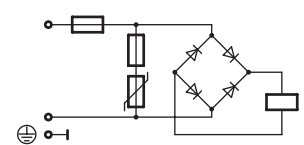
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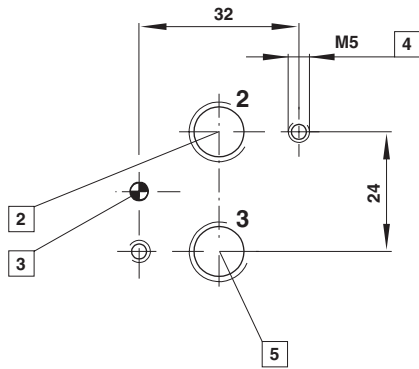
20



21



**NAMUR hole pattern (driving side)**



- 2 Port 2 (A)
- 3 Coding stud threaded
- 4 M5 (10 deep)
- 5 Port 3 (R)

Dimensions shown in mm  
Projection/First angle

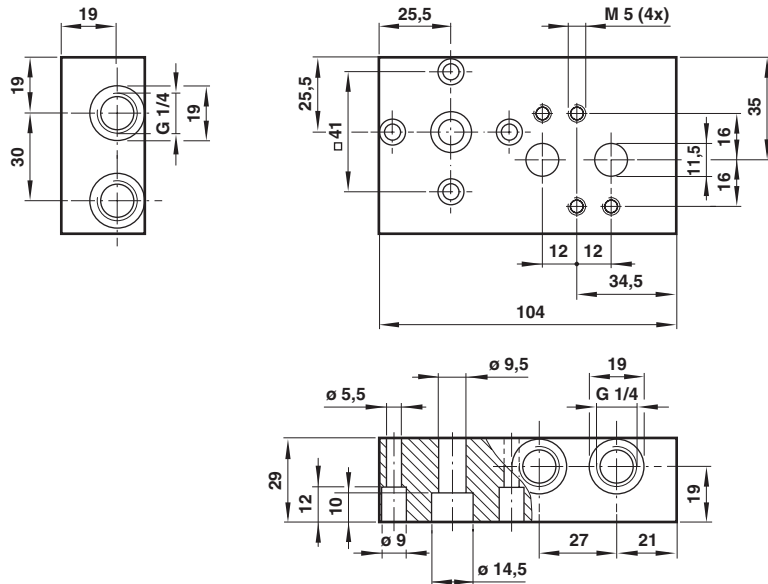


NAMUR quick exhaust module for a better kv-value by exhaust see data sheet 5.4.820

NAMUR interlinking plates in redundancy design for »safety exhausting« and »safety ventilating« see data sheet 5.4.830

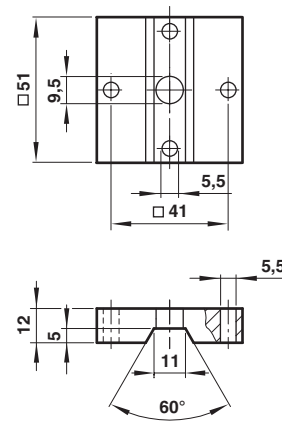
**Single connection plate**

Model: 0612790



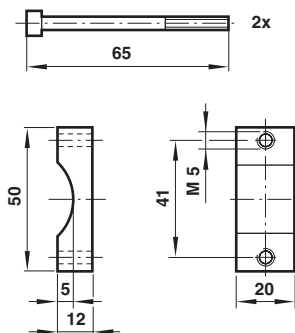
**NAMUR slot in combination with 0612790**

Model: 0612791



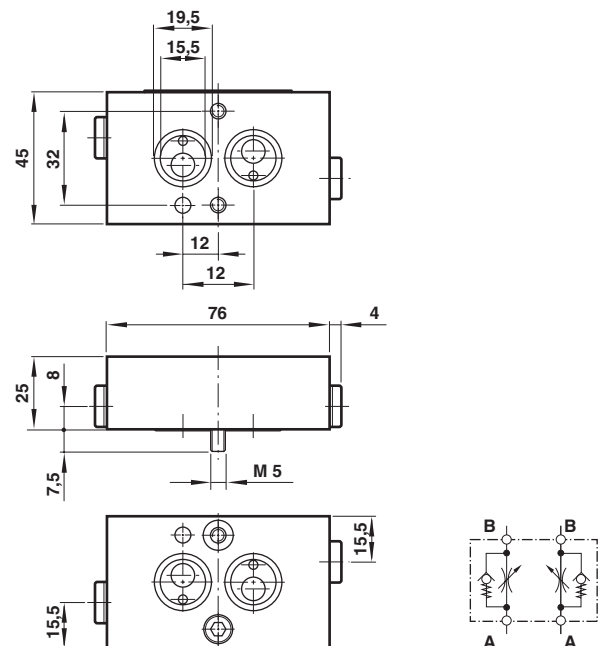
**Yoke**

Model: 0540593

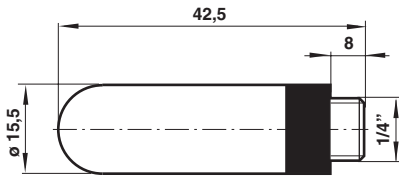


**Throttle control plate**

Model: 4040239

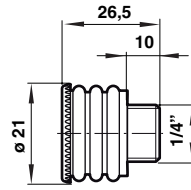


**Silencer**  
Model: M/S2, C/S2



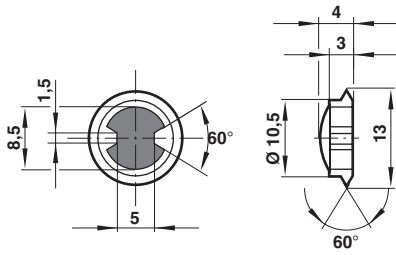
**Exhaust guard**  
Model: 0613422

Dimensions shown in mm



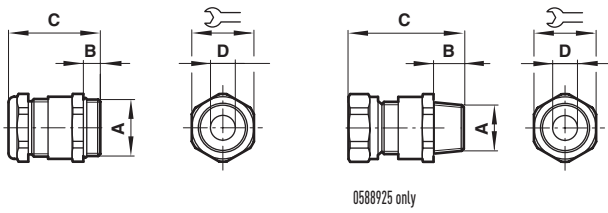
**Filter**  
Model: 0681173

Dimensions shown in mm  
Projection/First angle



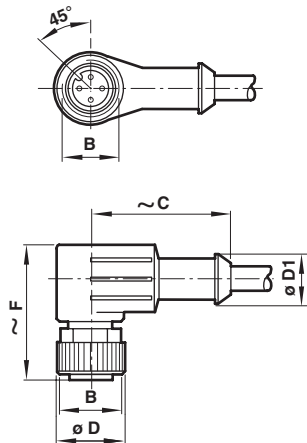
Thread pitch diameter max. 11,85 mm

**Cable gland**



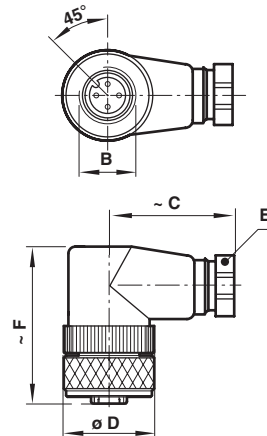
A	B	C	∅ D		Model
M20 x 1,5	9	36	5 ... 8	22	0588819
M20 x 1,5	6,5	27,5	9 ... 13	22	0589385
M20 x 1,5	14	39	10 ... 14	24	0588851
1/2-14 NPT	15	58	7,5 ... 11,9	24	0588925
M20 x 1,5	14	39	7 ... 12	24	0589395
M20 x 1,5	10	34	10 ... 14	24	0589387

**Connector - valve position sensor**  
**90°, 4 pin, with cable**



B	C	ø D	ø D1	F	Cable Wire x dim.	Cable Material	Cable length (m)	Weight (g)	Model
M12 x 1,5	32,5	15	11	27	4 x 0,34 mm <sup>2</sup>	PUR	2	90	0523058
M12 x 1,5	32,5	15	11	27	4 x 0,34 mm <sup>2</sup>	PUR	5	180	0523053

**90°, 4 pin, without cable**



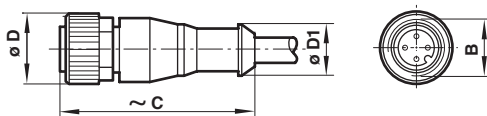
B	C	ø D	E	F	Weight (g)	Model
M12 x 1,5	40,5	20	Pg 7	35	30	0523055

Dimensions shown in mm

Projection/First angle

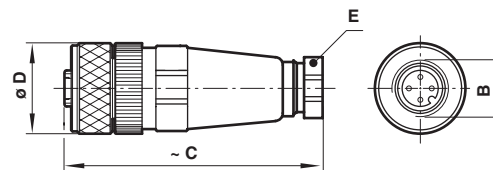


**straight, 4 pin, with cable**



B	C	ø D	ø D1	Cable Wire x dim.	Cable Material	Cable length (m)	Weight (g)	Model
M12 x 1,5	40	15	11	4 x 0,34 mm <sup>2</sup>	PUR	2	80	0523057
M12 x 1,5	40	15	11	4 x 0,34 mm <sup>2</sup>	PUR	5	200	0523052

**straight, 4 pin, without cable**



B	C	ø D	E	Weight (g)	Model
M12 x 1,5	40,5	20	Pg 7	26	0523056

**Warning**

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features**«.

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 pneumatic 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.