24011 series, 3/2
Direct solenoid actuated poppet valve

- Port size: 1/4" (ISO G or NPT), NAMUR Interface
- Main application: Single and double acting actuators
- Approval based on type examination 2014/68/EU (PED) and IEC 61508 (SIL), multichannel up to SIL 3
- Add-on manual override or inductive limit switches on request
- Suited for outdoor use under critical environment conditions.
- Variable valve solenoid combination
- All valves are available with Ex-protected coils, certified according to ATEX, IECEx, or other international standards



Technical features

Medium:
Compressed air, filtered, non-lubricated and dry. Other gase and liquid fluids on request. (Viscosity for gaseous or liquid fluids up to 40 mm^2/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 acutator sping chamber

Flow direction:
Optional

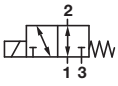
Mounting position:
Any, but preferably with solenoid vertical

Ambient/Media temperature:
NBR80 (Standard):
-25 ... +80°C (-13 ... +176°F)
FKM:
-10...+120°C (+14 ... +248°F)
Water +95°C (+203°F)
NBR70 (Low temperature):
-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: FKM, NBR80, NBR70
Inner parts: stainless steel, brass

Flow conversion:
Cv US Gallon/min (water) = l/min (air) x 0,001
Kv m^3/h (water) = l/min (air) x 0,000906

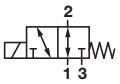
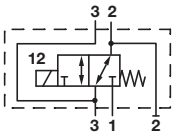
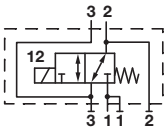
Technical data
Housing: Brass

Symbol	Port size	Operating pressure (bar)	(psi)	Material Seat seal	Manual override	Test certificate SIL	PED	Weight (kg)	Drawing No.	Solenoid group	Model *1)
	G1/4	0 ... 10	0 .. 145	NBR80	Not possible	X	–	0,65	1	A + B	2401103
	G1/4	0 ... 10	0 .. 145	NBR80	Without detent	X	–	0,70	1	A + B	2401107
	G1/4	0 ... 10	0 .. 145	NBR80	With detent	–	–	0,70	1	A + B	2401119
	G1/4	0 ... 10	0 .. 145	NBR80	Not possible	X	X	0,65	1	A + B	2401149
	G1/4	0 ... 10	0 .. 145	FKM	Not possible	X	–	0,65	1	A + B	2401126
	G1/4	0 ... 10	0 .. 145	NBR70	Not possible	X	–	0,65	1	A + B	2401153
	G1/4	0 ... 10	0 .. 145	NBR70	Semi automatic	X	–	0,70	1	A + B	2401154
	1/4 NPT	0 ... 10	0 .. 145	NBR80	Not possible	X	X	0,65	1	A + B	2401138
	1/4 NPT	0 ... 10	0 .. 145	NBR80	Without detent	X	–	0,70	1	A + B	2401148
	1/4 NPT	0 ... 10	0 .. 145	NBR80	With detent	–	–	0,70	1	A + B	2401136
	1/4 NPT	0 ... 10	0 .. 145	NBR80	Semi automatic	X	–	0,70	1	A + B	2401140
	1/4 NPT	0 ... 10	0 .. 145	FKM	Not possible	X	–	0,65	1	A + B	2401131
	1/4 NPT	0 ... 10	0 .. 145	NBR70	Not possible	X	–	0,65	1	A + B	2401106
	1/4 NPT	0 ... 10	0 .. 145	NBR70	Semi automatic	X	–	0,70	1	A + B	1025226

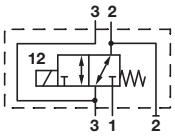
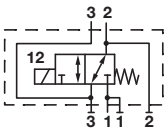
*1) When ordering please indicate solenoid, voltage and current type (frequency).

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Housing: Stainless steel

Symbol	Port size	Operating pressure (bar)	Material Seat seal	Manual override	Test certificate SIL	PED	Weight (kg)	Drawing No.	Solenoid group	Model *1)
	G1/4	0 ... 10	NBR80	Not possible	X	X	0,65	2	A + B	2401186
	G1/4	0 ... 10	FKM	Not possible	–	–	0,70	2	A	2401127 *2)
	G1/4	0 ... 10	FKM	Without detent	–	–	0,70	2	A	2401170 *2)
	G1/4	0 ... 10	FKM	With detent	–	–	0,70	2	A	2401139 *2)
	G1/4	0 ... 10	NBR70	Not possible	–	X	0,65	2	A	2401155 *2)
	1/4 NPT	0 ... 10	NBR80	Not possible	X	X	0,65	2	A + B	2401112
	1/4 NPT	0 ... 10	FKM	Semi automatic	–	–	0,70	2	A + B	2401146
	1/4 NPT	0 ... 10	FKM	Not possible	X	–	0,65	2	A + B	1025227
	1/4 NPT	0 ... 10	FKM	Not possible	–	–	0,65	2	A	2401147 *2)
	1/4 NPT	0 ... 10	NBR70	Not possible	–	X	0,65	2	A	2401168 *2)
	G1/4 NAMUR	0 ... 10	NBR80	Without	X	–	1,00	3	A + B	2401196
	G1/4 NAMUR	0 ... 10	NBR70	Without	–	–	1,00	3	A	2401142
	G1/4 NAMUR	0 ... 10	NBR80	Without	X	X	1,00	4	A + B	1025212 *3)
	1/4 NPT NAMUR	0 ... 10	NBR80	Without	X	X	1,00	4	A + B	1025328 *3)

Housing: Aluminium anodized

Symbol	Port size	Operating pressure (bar)	Material Seat seal	Manual override	Test certificate SIL	PED	Weight (kg)	Drawing No.	Solenoid group	Model *1)
	G1/4 NAMUR	0 ... 10	NBR80	Without	X	X	0,55	3	A + B	2401190
	G1/4 NAMUR	0 ... 10	NBR80	Without	X	X	0,55	3	A + B	2401191
	G1/4 NAMUR	0 ... 10	NBR80	Without	X	X	0,55	3	A + B	2401116 *4)
	G1/4 NAMUR	0 ... 10	NBR80	Without	–	–	0,70	5	A + B	1025333 *5)
	1/4 NPT NAMUR	0 ... 10	NBR80	Without	X	X	0,55	3	A + B	1025254
	G1/4 NAMUR	0 ... 10	NBR70	Without	X	–	0,55	3	A + B	2401133
	G1/4 NAMUR	0 ... 10	NBR80	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

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Solenoids group A, standard voltages

	Power consumption 24 V d.c. (W)	230 V a.c. (VA)	Rated current 24 V d.c. (m A)	230 V a.c. (m A)	Protection class IP/NEMA	Ex-Protection (ATEX-Category)	Temperature Ambient/Media (°C)	Electrical connection	Drawing No.	Circuit diagram No.	Model
	16,9	–	703	–	IP65 (with connector)	–	-25 ... +60 Media: +80 max	Connector DIN EN 175301-803, Form A *6)	3	1	0800
	–	17,3	–	75	IP65 (with connector)	–	-25 ... +60 Media: +80 max	Connector DIN EN 175301-803, Form A *6)	4	6	3803
	8,9	–	369	–	IP65	–	-30...+90 Media: +110	Terminals, cable gland Pg 13,5	9	2	4120
	–	10	–	43	IP65	–	-30...+90 Media: +110	Terminals, cable gland Pg 13,5	9	6	4121
	8,9	–	369	–	IP67	–	-30...+90 Media: +110	3 m cable, encapsulated in EP resin	9	2	4122
	–	10	–	43	IP67	–	-30...+90 Media: +110	3 m cable, encapsulated in EP resin	9	6	4123
	8,9	–	369	–	IP66 (with cable gland)	II 2G Ex eb mb IIC T4/ T5 Gb II 2D Ex tb IIIC T130°C Db	T4: -40 ... +65 T5: -40 ... +55 -40 ... +65	M20 x 1,5 *6)	6	4	4270
	–	10,0	–	43	IP66 (with cable gland)	II 2G Ex eb mb IIC T4/ T5 Gb II 2D Ex tb IIIC T130°C Db	T4: -40 ... +65 T5: -40 ... +55 -40 ... +65	M20 x 1,5 *6)	6	7	4271
	8,9	–	369	–	IP66 (with cable gland)	II 2G Ex db mb IIC T4/ T6 Gb II 2G Ex eb mb IIC T4/ T6 Gb II 2D Ex tb IIIC T130°C Db	T4: -40 ... +70 T6: -40 ... +40 -40 ... +70	1/2 NPT *6)	7	20	4670
	–	10,0	–	43	IP66 (with cable gland)	II 2G Ex db mb IIC T4/ T6 Gb II 2G Ex eb mb IIC T4/ T6 Gb II 2D Ex tb IIIC T130°C Db	T4: -40 ... +70 T6: -40 ... +40 -40 ... +70	1/2 NPT *6)	7	21	4671
	8,9	–	369	–	IP66 (with cable gland)	II 2G Ex db mb IIC T4/ T6 Gb II 2G Ex eb mb IIC T4/ T6 Gb II 2D Ex tb IIIC T130°C Db	T4: -40 ... +70 T6: -40 ... +40 -40 ... +70	M20 x 1,5 *6)	7	20	4672
	–	10,0	–	43	IP66 (with cable gland)	II 2G Ex db mb IIC T4/ T6 Gb II 2G Ex eb mb IIC T4/ T6 Gb II 2D Ex tb IIIC T130°C Db	T4: -40 ... +70 T6: -40 ... +40 -40 ... +70	M20 x 1,5 *6)	7	21	4673
	8,9	–	369	–	IP66 (with cable gland)	II 2G Ex db mb IIC T4 Gb II 2G Ex eb mb IIC T4 Gb	T4: -40 ... +50	M20 x 1,5 *6)	10	4	4872
	–	10	–	43	IP66 (with cable gland)	II 2G Ex db mb IIC T4 Gb II 2G Ex eb mb IIC T4 Gb	T4: -40 ... +50	M20 x 1,5 *6)	10	7	4873
	13,6	–	567	–	4x	Cl. I, Div. 1, Gr. A - D Cl. II/III, Div. 1, Gr. E - G T3C (160°C)	-20 ... +60	Flying leads length 460 mm	8	1	3826
	–	15,7	–	68	4x	Cl. I, Div. 1, Gr. A - D Cl. II/III, Div. 1, Gr. E - G T3C (160°C)	-20 ... +60	Flying leads length 460 mm	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.
*6) 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 db mb; if a cable gland with Ex e type of protection is used, the solenoid will have protection class Ex eb 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	EPS 18 ATEX 1 019	IECEx EPS 18.0013	N/en 7.1.590

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Solenoids group B, standard voltages

	Power consumption 24 V d.c. (W)	230 V a.c. (VA)	Rated current 24 V d.c. (m A)	230 V a.c. (m A)	Protection class IP/NEMA	Ex-Protection (ATEX-Category)	Temperature Ambient/Media (°C)	Electrical connection	Drawing No.	Circuit diagram No.	Model
	6,8	–	284	–	IP65 (with connector)	–	-25 ... +60	Connector DIN EN 175301-803, form A *6)	2	1	0827
	–	10,6	–	46	IP65 (with connector)	–	-25 ... +60	Connector DIN EN 175301-803, form A *6)	3	6	3805
	3,9	–	162	–	IP65	–	-30...+100 Media: +110	Terminals, cable gland Pg 13,5	9	2	4140
	–	5,3	–	23	IP65	–	-30...+100 Media: +110	Terminals, cable gland Pg 13,5	9	6	4141
	3,9	–	162	–	IP67	–	-30...+100 Media: +110	3 m cable, encapsulated in EP resin	9	2	4142
	–	5,3	–	23	IP67	–	-30...+100 Media: +110	3 m cable, encapsulated in EP resin	9	6	4143
	3,9	–	162	–	IP66 (with cable gland)	II 2G Ex eb mb IIC T4/ T6 Gb II 2D Ex tb IIIC T130°C Db	T4: -40 ...+80 T6: -40 ... +55 -40 ...+80	M20 x 1,5 *6)	6	4	4260
	–	5,3	–	23	IP66 (with cable gland)	II 2G Ex eb mb IIC T4/ T6 Gb II 2D Ex tb IIIC T130°C Db	T4: -40 ...+80 T6: -40 ... +55 -40 ...+80	M20 x 1,5 *6)	6	7	4261
	3,9	–	162	–	IP66 (with cable gland)	II 2G Ex db mb IIC T4/ T6 Gb II 2G Ex eb mb IIC T4/ T6 Gb II 2D Ex tb IIIC T130°C Db	T4: -40 ...+80 T6: -40 ... +55 -40 ...+80	1/2 NPT *6)	7	20	4660
	–	5,3	–	23	IP66 (with cable gland)	II 2G Ex db mb IIC T4/ T6 Gb II 2G Ex eb mb IIC T4/ T6 Gb II 2D Ex tb IIIC T130°C Db	T4: -40 ...+80 T6: -40 ... +55 -40 ...+80	1/2 NPT *6)	7	21	4661
	3,9	–	162	–	IP66 (with cable gland)	II 2G Ex db mb IIC T4/ T6 Gb II 2G Ex eb mb IIC T4/ T6 Gb II 2D Ex tb IIIC T130°C Db	T4: -40 ...+80 T6: -40 ... +55 -40 ...+80	M20 x 1,5 *6)	7	20	4662
	–	5,3	–	23	IP66 (with cable gland)	II 2G Ex db mb IIC T4/ T6 Gb II 2G Ex eb mb IIC T4/ T6 Gb II 2D Ex tb IIIC T130°C Db	T4: -40 ...+80 T6: -40 ... +55 -40 ...+80	M20 x 1,5 *6)	7	21	4663
	8,9	–	369	–	4x	Cl. I, Div. 1, Gr. A - D Cl. II/III, Div. 1, Gr. E - G T3C (160°C)	-20 ... +60	Flying leads length 460 mm	8	1	3824
	–	9,5	–	41	4x	Cl. I, Div. 1, Gr. A - D Cl. II/III, Div. 1, Gr. E - G T3C (160°C)	-20 ... +60	Flying leads length 460 mm	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.
*6) 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 db mb; if a cable gland with Ex e type of proteciton is used, the solenoid will have protection class Ex eb 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

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Partnumbers for international approval

Land/Approval	Coil/Code	321x	372x	42xx	46xx
Europa/ATEX	Standard	x	–	x	x
International/IECEx	Standard	x	–	x	x
China/NEPSI	-01	–	–	x	x
Brasilien/INMETRO	-02	–	–	x	x
Korea/KOSHA (only gas approval)	-03	–	–	x	x
Russland, Kasachstan & Weißrussland/TR-CU 012	-04	–	–	x	x
Indien/CCOE	Standard	–	–	x	x
Taiwan/ITRI	-05	–	–	x	x
USA/FM	Standard	–	x	–	–
Kanada/CSA	Standard	–	x	–	–

Example: 0000000422002400-04
(Coil: 4220; Voltage: 24V DC; Approval: TR-CU 012)

Accessories
Electrical connection

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



Page 10

For solenoid	Thread	Cable Ø (mm)	Material	Protection class (ATEX)	Ambient temperatur limitation *7)	Model
42xx	M20 x 1,5	7,0 ... 12,0	Plastic	II 2G Ex e / II 2D Ex t	See table	0589735
42xx	M20 x 1,5	10,0 ... 14,0	Plastic	II 2G Ex e / II 2D Ex t	See table	0589736
42xx	M20 x 1,5	6,0 ... 12,0	Plastic	II 2G Ex eb / II 2D Ex tb	See table	0589737
42xx	M20 x 1,5	5,0 ... 10,0	Plastic	II 2G Ex e / II 2D Ex t	See table	0589739
46xx	M20 x 1,5	5,0 ... 14,0	Nickel plated brass	II 2G Ex e / II 2D Ex t	-	0589654
46xx	M20 x 1,5	10,0 ... 14,0	Nickel plated brass	II 2G Ex d / II 2D Ex t	-	0588851
46xx	1/2 NPT	7,5 ... 11,9	Nickel plated brass	II 2G Ex d / II 2D Ex t	-	0588925
46xx, 48xx	M20 x 1,5	7,0 ... 12,0	Stainless steel 1.4404	II 2G Ex d / II 2D Ex t	-	0589395
46xx, 48xx	M20 x 1,5	10,0 ... 14,0	Stainless steel 1.4404	II 2G Ex d / II 2D Ex t	-	0589387

*7) The limitation of the temperature range to the mentioned range is due to the self-heating of the solenoid.

Connector
DIN EN 175301-803



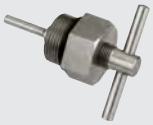
0570275 (form A)

For solenoid	Ambient temperatur limitation solenoid 42xx		
	0589735 & 0589736 *8)	0589737	0589739 *8)
421x/426x	T4 & Dust Ex: -35°C ... + 80°C T6: -35°C ... + 55°C	T4 & Dust Ex: -40°C...+ 65°C T6: -40°C...+ 55°C	T4 & Dust Ex: -40...+78°C T6: -40...+55°C
422x/427x	T4 & Dust Ex: -35°C +65°C T5: -35°C + 55°C	T4 & Dust Ex: -40°C...+ 62°C T5: -40°C + 55°C	T4 & Dust Ex: -40...+65°C T5: -40...+55°C

*8) Tested for the lower level of mechanical risk (4 joule), an additional protection against impacts might be needed.

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Connector for proximity switch 4-pin, 90°	4-pin, 90°	4-pin, straight	4-pin, straight	Silencer *9)	Exhaust guard *10)
					
Page 13	Page 13	Page 13	Page 13	Page 11	Page 11
0523058 (2 m cable,4-core)	0523056 (without cable)	0523057 (2 m cable, 4-core)	0523055 (without cable)	C/S2 (1/4 NPT)	0613422 (G1/4, 1/4 NPT)
0523053 (5 m cable,4-core)		0523052 (5 m cable, 4-core)		M/S2 (G1/4)	

Filter	Add-on manual override *11) Without detent	with detent
		
Page 11	Page 8	Page 8
0681173 (G1/4, 1/4 NPT)	0600205	0601765

*9) For indoors use
*10) For outdoors use, opening pressure ~ 0,2 bar
*11) 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 *12)	Flange plate	Yoke	Distance plate for pressure switches	Mounting plate	Quick exhaust module *13)
					
Page 12	Page 11 & 12	Page 12	Page 12	Page 11	Page 12
4040239	0612790 (NAMUR single connection plate)	0540593	0540109	0613453 (90°)	4050218
	0612791 (NAMUR-rip use in combination with 0612790)			0612631 (180°)	
				0613556 (270°)	

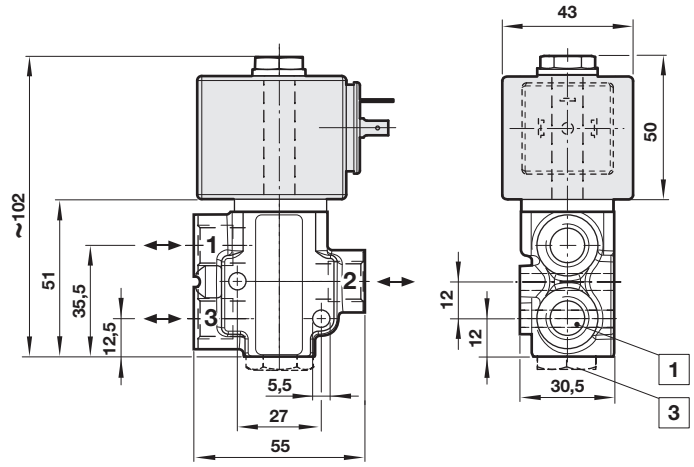
*12) The throttle control plate 4040239 has a minimum flow rate for safety reason.
*13) Technical details see catalogue page en 5.4.820.

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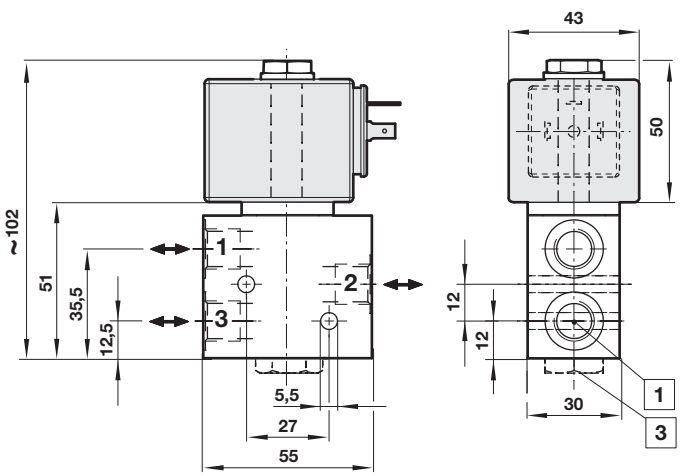
Drawings
Valves

Dimensions in mm
Projection/First angle

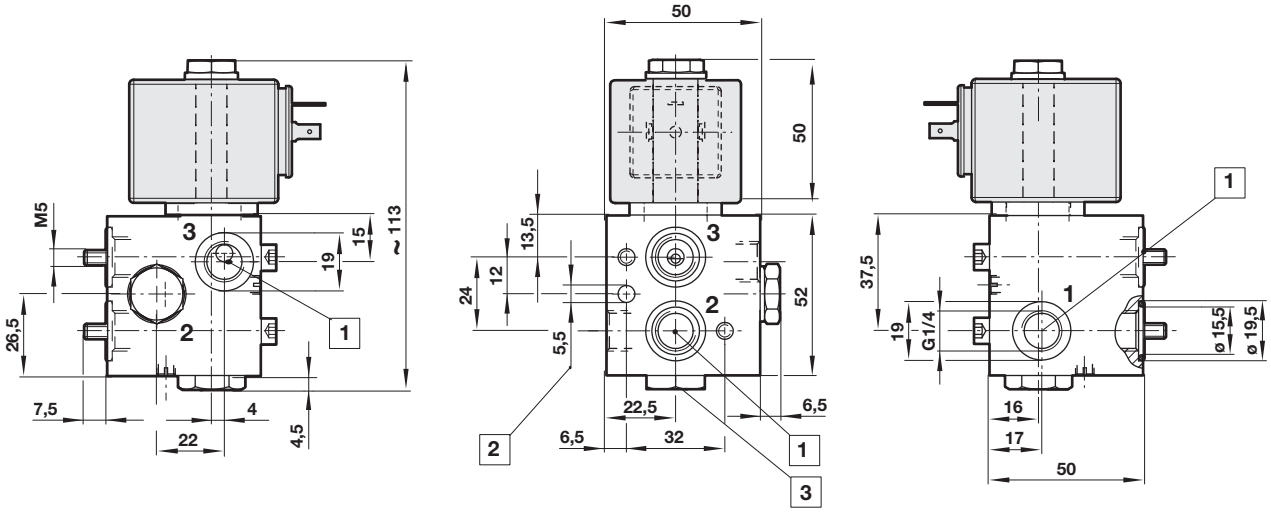
1



2



3



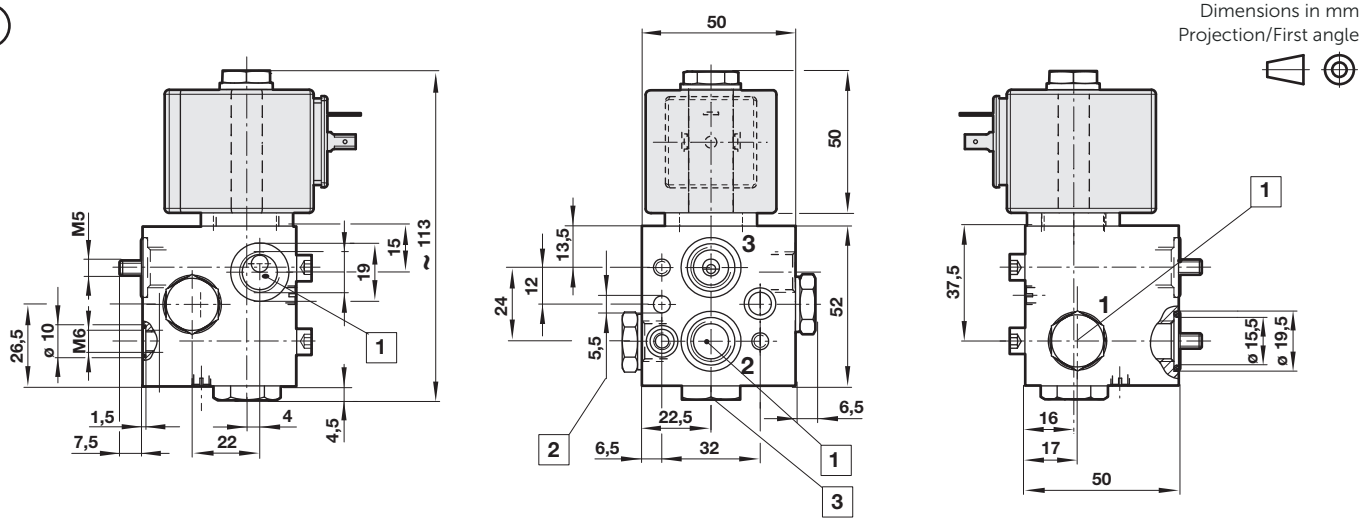
1 Port size G1/4 or 1/4 NPT
2 3 mm deep
3 Retrofit option for manual override

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IMI

4

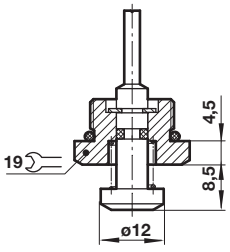
Dimensions in mm
Projection/First angle



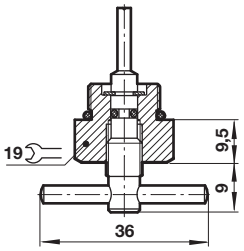
1 Port size G1/4 or 1/4 NPT
2 3 mm deep
3 Retrofit option for manual override

Add-on manual override

Without detent
Model: 0600205

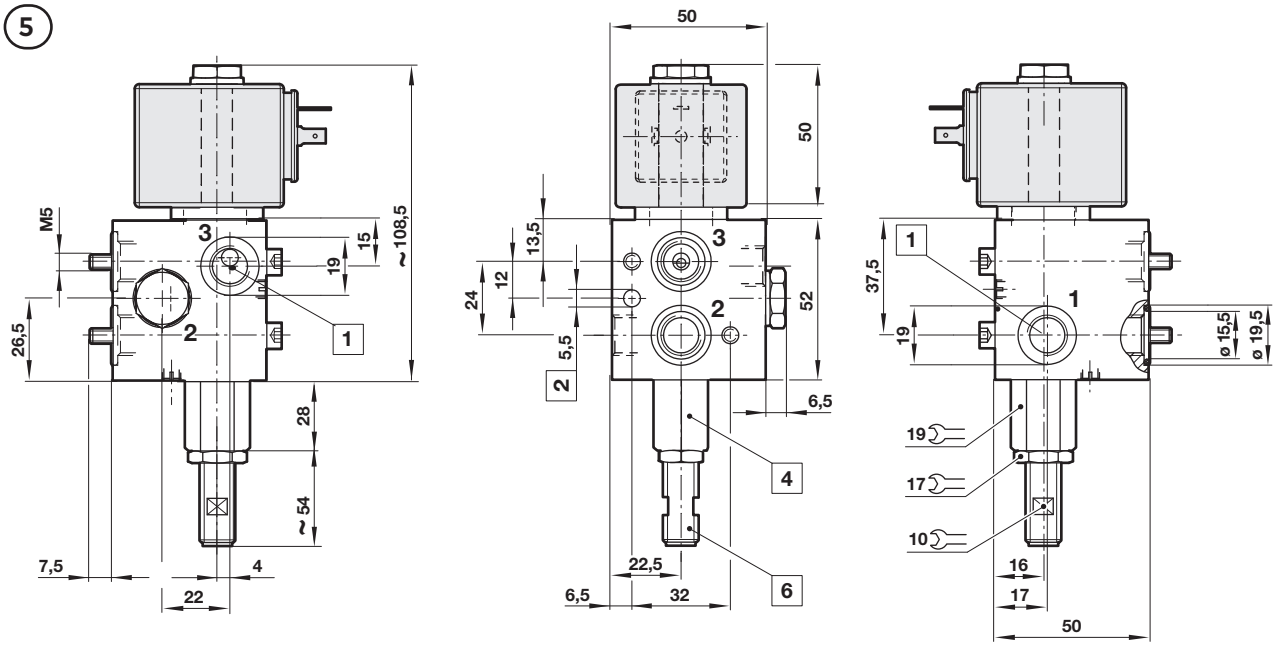


With detent
Model: 0601765



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

5

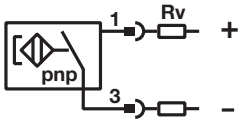


1 Port size G1/4 or 1/4 NPT
2 3 mm deep
4 Proximity switch
6 Thread M12 x 1

Proximity switch
Technical features

Supply voltage (Ub):
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)



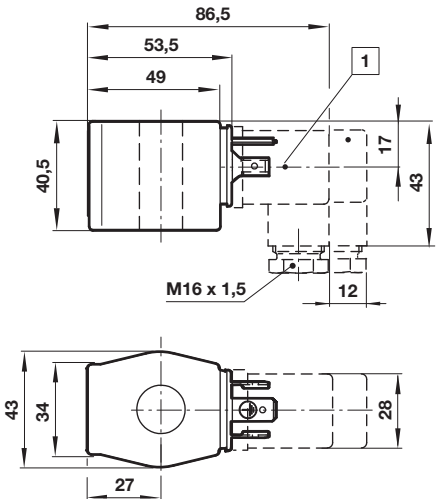


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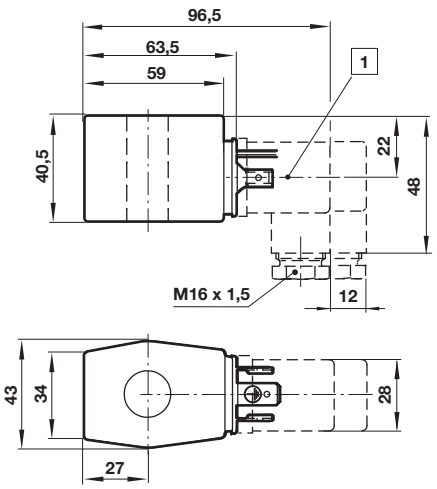
Solenoids

Dimensions in mm
Projection/First angle

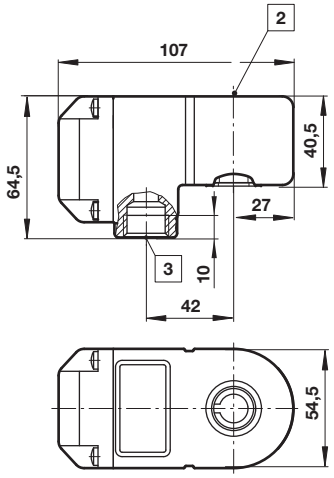
3
Weight: 0,27 kg



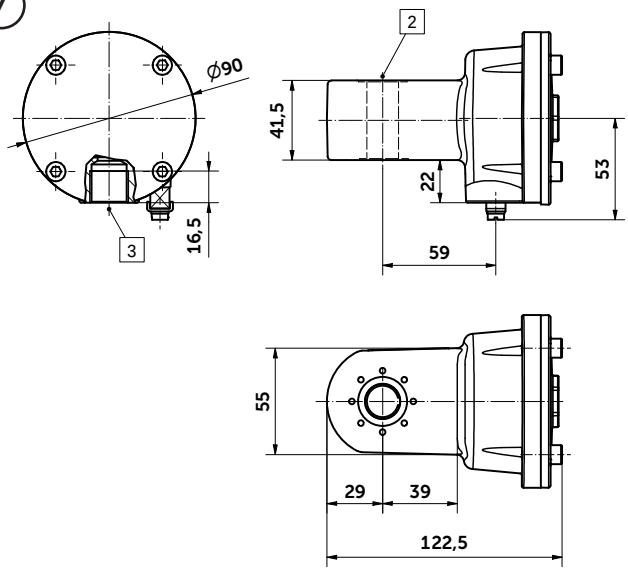
4
Weight: 0,32 kg



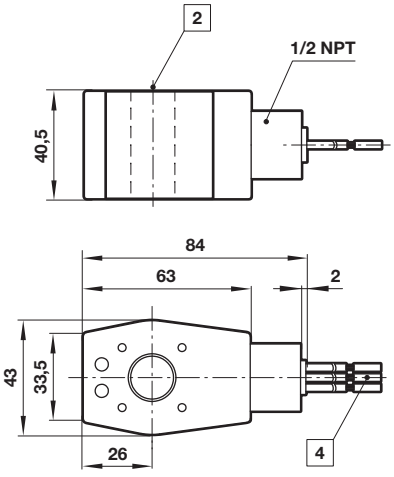
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Weight: 0,6 kg



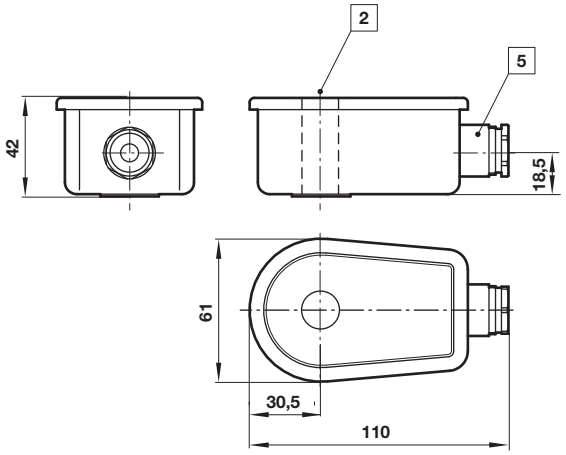
7
Weight: 0,85 kg



8
Weight: 0,8 kg



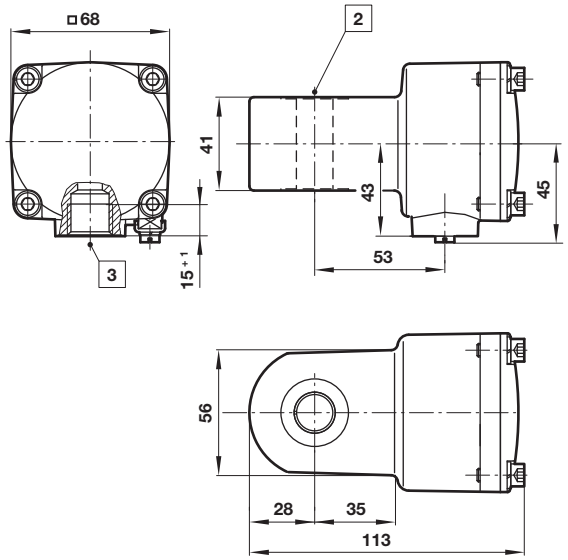
9
Weight: 0,7 kg



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 (460 mm long)
5 With cable gland, Pg 13,5

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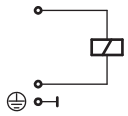
10 Weight: 1,2 kg



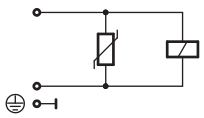
2 Ø 16
3 M20 x 1,5

Circuit diagrams

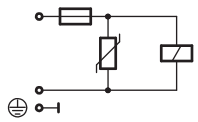
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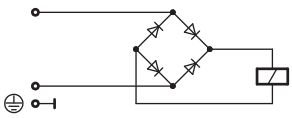
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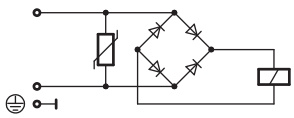
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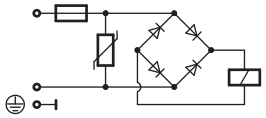
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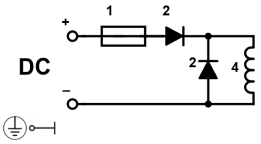
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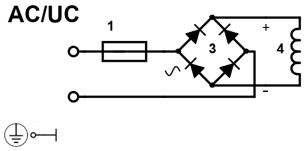
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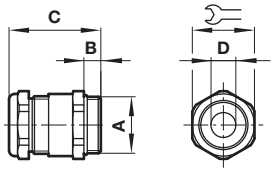
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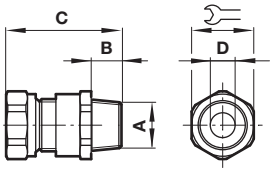


21



Cable gland



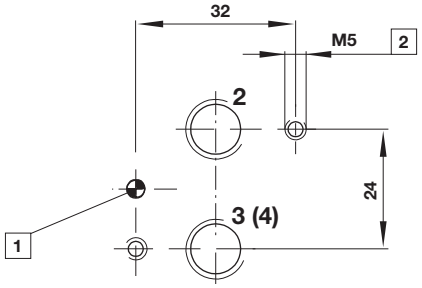


0588925 only

A	B	C	ø D		Model
M20 x 1,5	10	40	7,0 ... 12,0	24	0589735
M20 x 1,5	10	43	10,0 ... 14,0	27	0589736
M20 x 1,5	10	48,7	6,0 ... 12,0	24	0589737
M20 x 1,5	10	39,5	5,0 ... 10,0	24	0589739
M20 x 1,5	6,5	35,5	5,0 ...14,0	24	0589654
M20 x 1,5	12	37	9,0 ... 14,0	30	0588851
1/2 NPT	15	58	7,5 ... 11,9	24	0588925
M20 x 1,5	16	40	7,0 ... 12,0	24	0589395
M20 x 1,5	16	41	10,0 ... 14,0	24	0589387

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NAMUR hole pattern (actuator side)



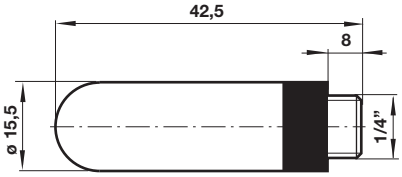
NAMUR quick exhaust module for a better kv-value by exhaust see data sheet 5.4.820

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

Accessories

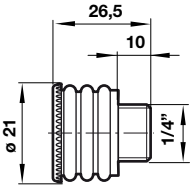
Silencer

Model: M/S2, C/S2



Exhaust guard

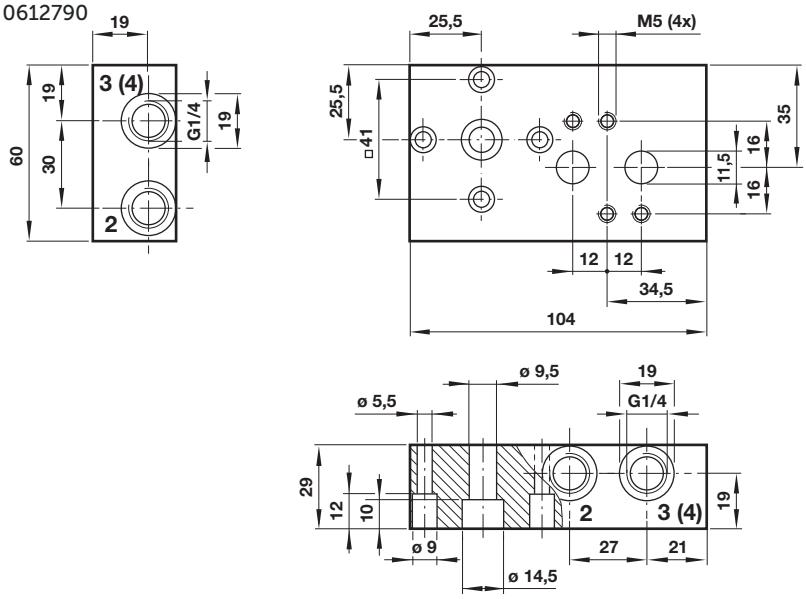
Model: 0613422



Dimensions in mm
Projection/First angle

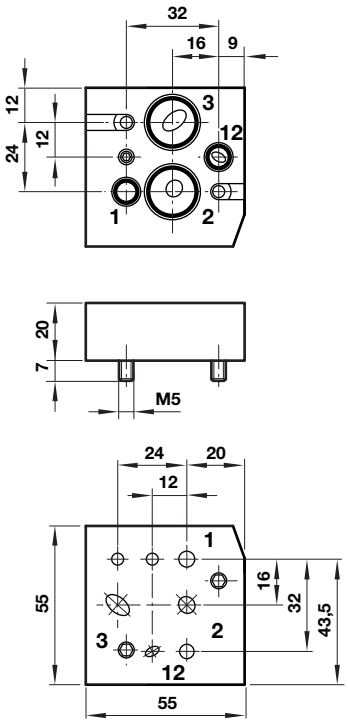
Single connection plate

Model:
0612790



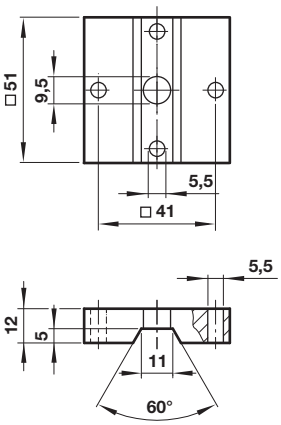
Mounting plate

Model: 0613453
(90°)

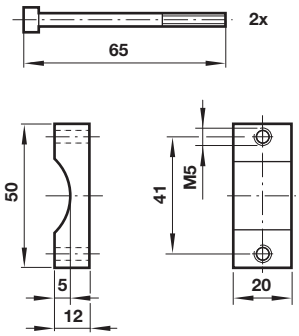


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NAMUR slot
Model: 0612791

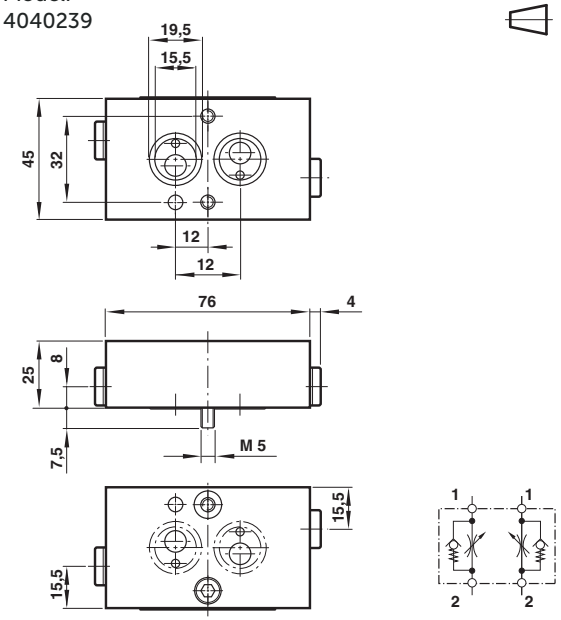


Yoke
Model:
0540593

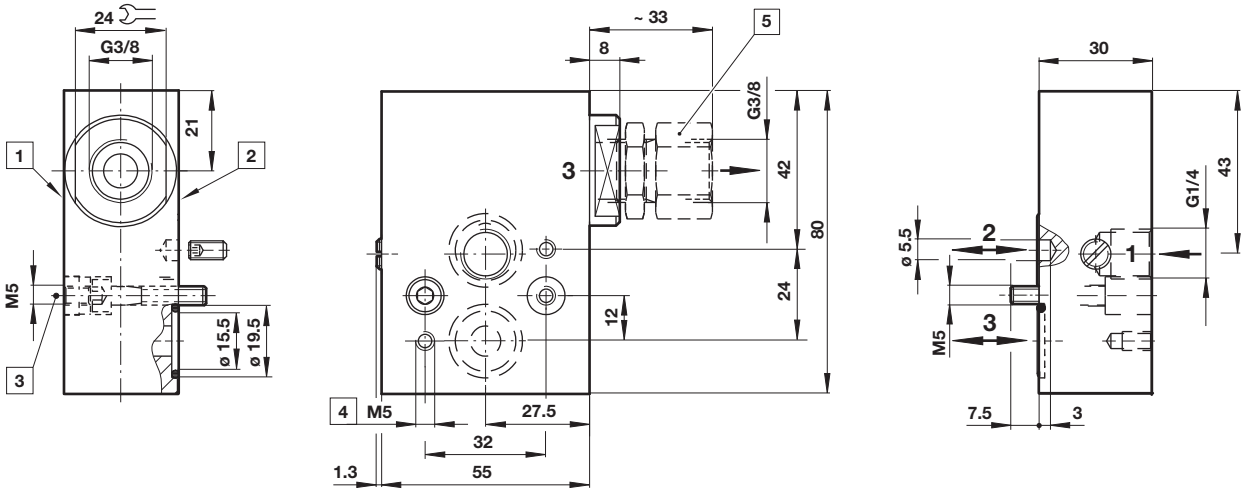


Throttle control plate
Model:
4040239

Dimensions in mm
Projection/First angle



Quick exhaust module
Typ: 4050218

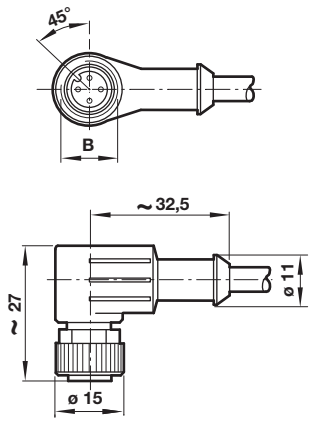


1 Flanged surface NAMUR or externally mounted valve
2 Flanged surface NAMUR actuator
3 Push-in threaded piece after plate mounting (to secure correct position)
4 8 mm deep
5 Flow regulator retrofittable

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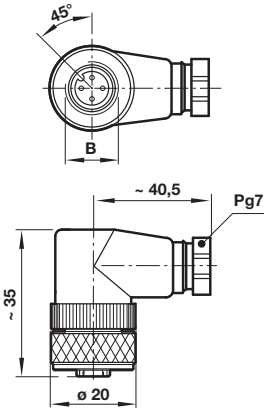
Connector
90°, 4 pin, with PUR cable

Dimensions in mm
Projection/First angle



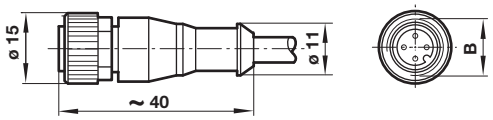
B	C	øD	øD1	F	Wire x dim.	Cable length (m)	Weight (g)	Model
M12 x 1	32,5	15	11	27	4 x 0,34 mm2	2	90	0523058
M12 x 1	32,5	15	11	27	4 x 0,34 mm2	5	180	0523053

90°, 4 pin, without cable



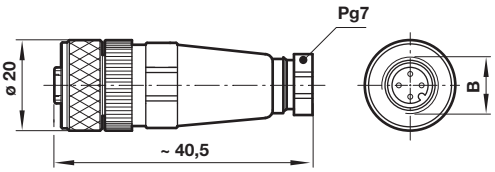
B	C	øD	E	F	Weight (g)	Model
M12 x 1	40,5	20	Pg 7	35	30	0523056

Straight, 4 pin, with PUR cable



B	C	øD	øD1	Wire x dim.	Cable length (m)	Weight (g)	Model
M12 x 1	40	15	11	4 x 0,34 mm2	2	80	0523057
M12 x 1	40	15	11	4 x 0,34 mm2	5	200	0523052

Straight, 4 pin, without cable



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

IMPORTANT NOTE
The IEC 61508 Safety Integrity Level (SIL) certification is ONLY valid for such combinations of valves and solenoids that are in a published list of SIL certificates released for appropriate valve series.
An instruction manual intended for given valve series shall be followed in order to ensure proper safety function of resulting valve and solenoid assembly. Further, every valve on the list of given SIL certificates has the following mark on a product label: "IEC 61508 SIL".
However, if these valves are combined with any solenoids that are NOT on the list of given SIL certificates, the SIL certificate is NOT valid for such combinations, even it is stated on the valve product label. Each SIL certificate together with the revision list can be found in IMI web site.

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 GmbH.

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.

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