- **Port size: 1/4“ (ISO G/NPT) or flanged with NAMUR interface**
- **Suited for outdoor use under critical environment conditions (see solenoid list)**
- **Variable valve solenoid combination**
- **The solenoid valves are applicable in the protection classes Ex e mb, Ex d mb, Ex mb, for zones 1 & 2 (gas), 21 & 22 (dust), ATEX cat. II 2GD**
- **International approvals: ATEX, IECEx, NEPSI, others on request**

Technical features

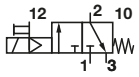
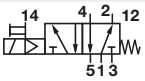
Medium:
Filtered, non-lubricated or lubricated and dried compressed air
Operation:
Indirect solenoid operated spool valve
Operating pressure:
2,5 ... 8 bar (36 ... 116 psi) with internal air supply

Orifice:
6 mm (1/4”)
Port size:
G1/4, 1/4 NPT or NAMUR Interface
Flow direction:
Fixed
Mounting position:
Optional, impulse valves preferably horizontally

Ambient/Media 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.
For outdoor installations must be protected all connections against the penetration of moisture and a solenoid with IP65 protection must be used!

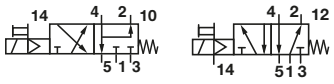
Material:
Body: Aluminum with surface treatment for critical environmental conditions
Seals: Special NBR
Flow conversion:
Cv US Gallon/min (water) = l/min (air) x 0,001
Kv m^3/h (water) = l/min (air) x 0,000906

Technical data
3/2 and 5/2 way valves Inline
Housing: Aluminium anodized, Seals: NBR -40 ... +60°C (-40 ... +140°F)

Symbol	Port size	Orifice (mm)	Function	Actuation/ return	Flow (l/min)	Operating pressure (bar)	Weight (kg)	Dimension No.	Model *1)
	G1/4	6	3/2	Solenoid/spring	1200	2,5 ... 8	0,392	1	6215M3530
	1/4 NPT	6	3/2	Solenoid/spring	1200	2,5 ... 8	0,392	1	6215M3540
	G1/4	6	5/2	Solenoid/spring	1200	2,5 ... 8	0,442	2	6215M0530
	1/4 NPT	6	5/2	Solenoid/spring	1200	2,5 ... 8	0,442	2	6215M0540

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

3/2 and 5/2 way valves NAMUR
Housing: Aluminium anodized, Seals: NBR -40 ... +60°C (-40 ... +140°F)

Symbol	Ports 1, 3, 5	2, 4	Orifice (mm)	Actuation/ return	Flow (l/min)	Operating pressure (bar)	Weight (kg)	Dimension No.	Model *1)
	G1/4	Flange	6	Solenoid/spring	1200	2,5 ... 8	0,48	3	6215M0500
	1/4 NPT	Flange	6	Solenoid/spring	1200	2,5 ... 8	0,48	3	6215M0510

*1) When ordering please indicate solenoid, voltage and current type (frequency)
Valve function: 3/2 or 5/2 way function (Conversion instructions see page 7)

Option selector

6215M★★★★★★★★★★★★★★

Function	Substitute
5/2 spring return (3/2 way with adapter plate for NAMUR flange)	**0**
3/2 spring return (Inline)	**3**
Material / Seals	**Substitute**
Aluminium/NBR -40 ... +60°C	**5**
Ports size	**Substitute**
G1/4 Namur	**0**
1/4 NPT Namur	**1**
G1/4 Inline	**3**
1/4 NPT Inline	**4**
Version	**Substitute**
With 1/4 turn manual override	**0**

Voltage	Substitute
24 V DC	**02400**
230 V AC	**23050**
24 V AC and 110 V AC are available on request	
Solenoid actuators	**Substitute**
3722	**3722**
3723	**3723**
4210	**4210**
4211	**4211**
4610	**4610**
4611	**4611**
4612	**4612**
4613	**4613**

Solenoids group 13B, standard voltages

	Power consumption		Rated current		Protection class	Ex-Protection (ATEX-Category)	Temperature Ambient/Media	Electrical connection	Weight	Drawing	Circuit diagram	Model
	24 V d.c. (W)	230 V a.c. (VA)	24 V d.c. (mA)	230 V a.c. (mA)	IP/NEMA		(°C)		(kg)	No.	No.	
	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)	0,5	6	4	4210
	-	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)	0,5	6	7	4211
	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	4610
	-	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	4611
	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	4612
	—	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	4613
	5,5	—	228	—	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	3722
	—	5,9	—	26	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	3723

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 proteciton 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 XX

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

Valve

Adaptor complete (Adaptor, inlet filter and seal ring)	Inlet filter	Silencer (plastic) *1)	Silencer (stainless steel) *1)	Silencer (brass) *1)	Exhaust guard *2)
					
Page 7	**Page 7**	**Page 7**	**Page 7**	**Page 7**	**Page 7**
0613487 (G1/4)	0681173 (G1/4, 1/4 NPT)	M/S2 (G1/4)	0014613 (G 1/4)	T40C2800 (G 1/4)	0613422 (G1/4, 1/4 NPT)
		C/S2 (1/4 NPT)	0613678 (1/4 NPT)	MS002A (1/4 NPT)	

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

Conversion plate

Page 7

A1502-Z11

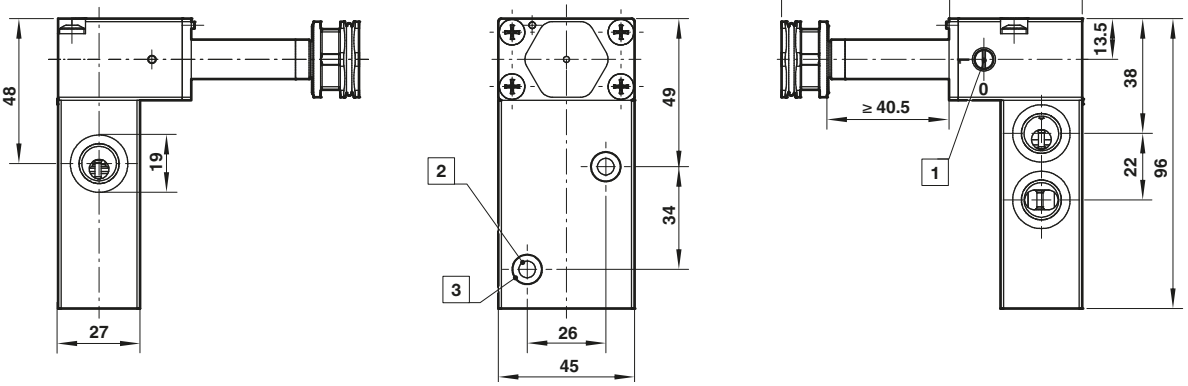
Drawings

Dimensions in mm
Projection/Third angle

Valves

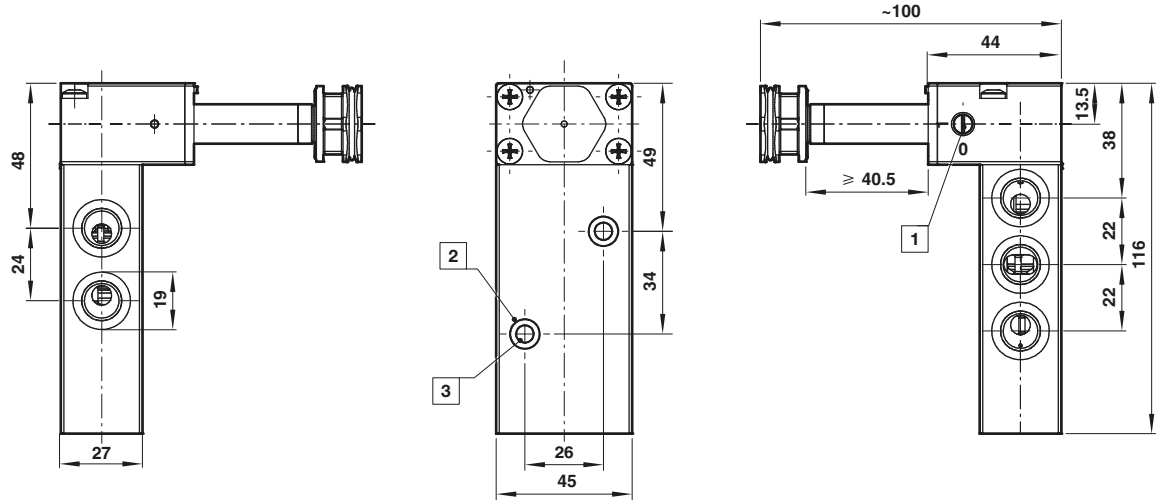
3/2 way Inline

1



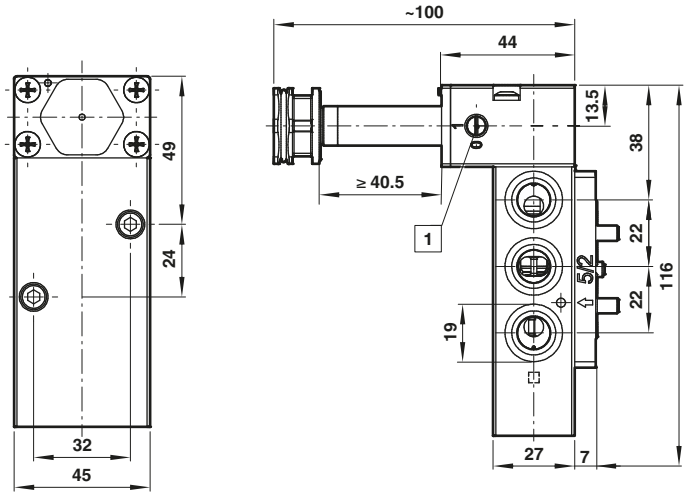
5/2 Inline

2



5/2 way NAMUR

3

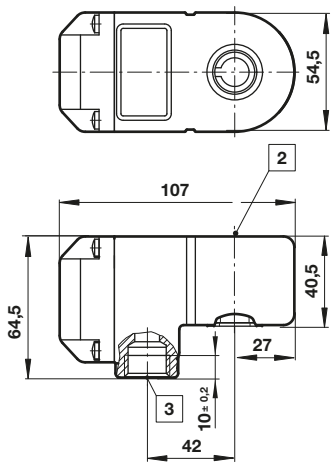


1 Manual override
2 Hole Ø 5.5
3 Hole Ø 9.5 x 5,5 deep

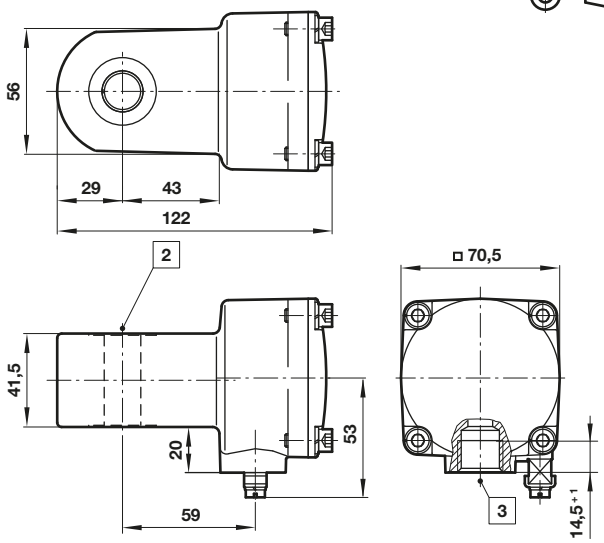
Drawings - Solenoid

Dimensions in mm
Projection/Third angle

6

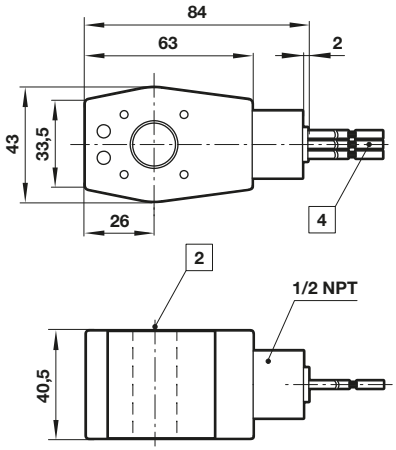


7



2 Ø 16 or 13 (with spacer tube)
3 M20 x 1,5 or 1/2 NPT

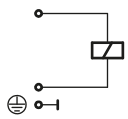
8



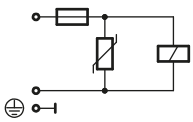
2 Ø 16 or 13 (with spacer tube)
3 M20 x 1,5 or 1/2 NPT
4 Flying leads AWG 18 (450 mm long)

Circuit diagrams

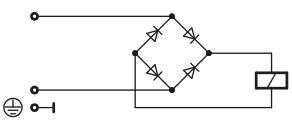
1



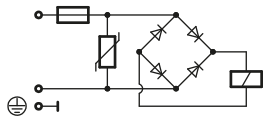
4



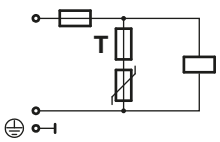
5



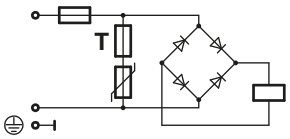
7



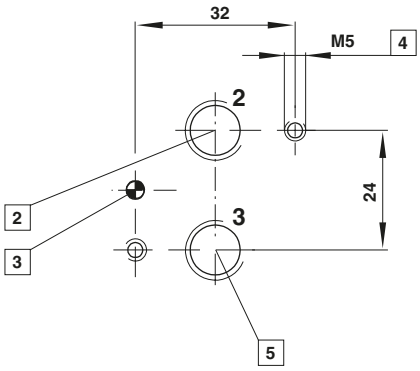
20



21



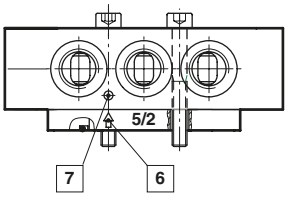
NAMUR hole pattern (driving side)
Port size G1/4



2 Port 2 (A)
3 Hole for coding stud
4 M5 & M6 (10 deep)
5 Port 3 (R)

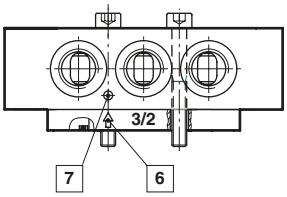
Conversion instructions of 5/2 into 3/2 way function

5/2 way function (original mode of supply)



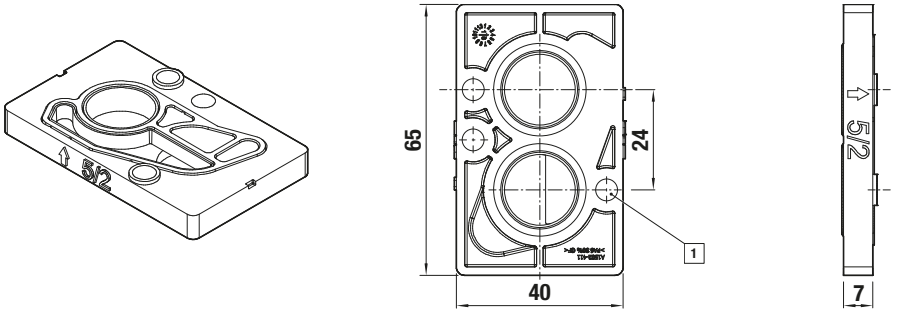
3/2 resp. 5/2 way function according to version by swapping or turning enclosed adaptor plates. Make sure Marker and Arrow do match as shown on above drawing.

3/2 way function



6 Arrow
7 Marker

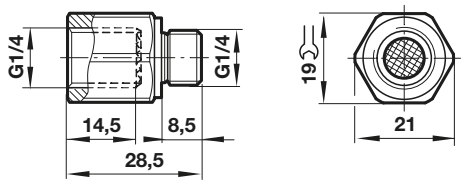
Conversion plate
Model: A1502-Z11



1 3x ø5,5 mm

Adaptor complete

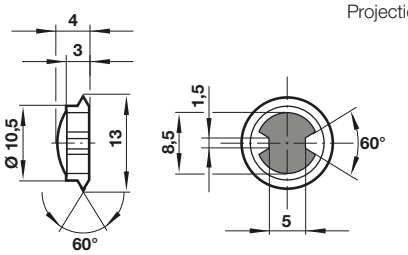
Model: 0613487



Inlet filter

Model: 0681173

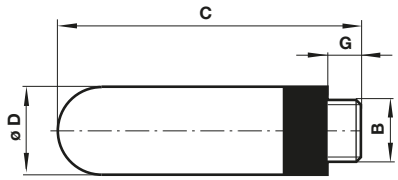
Dimensions in mm
Projection/Third angle



Thread pitch diameter max. 11,85 mm

Silencer (plastic)

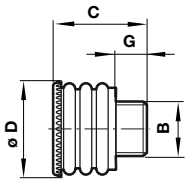
Model: M/S2, M/S4, C/S2



B	G	C	Ø D	Weight (g)	Model
G1/4	7	35,5	15,5	2,9	M/S2
1/4 NPT	7	35,5	15,5	2,9	C/S2

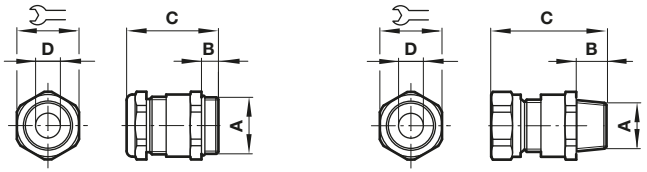
Exhaust guard

Model: 0613422



B	Suitable for	G	C	Ø D	Weight (g)	Model
1/4"	G1/4, 1/4 NPT	10	26,5	21	5	0613422

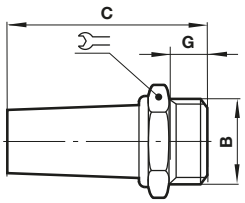
Cable gland



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

Silencer (brass or stainless steel)



B	C	G		Weight (g)	Model
G1/4	33	8	17	18	T40C2800
1/4 NPT	35	8	9/16	18	MS002A
G1/4	36	8	16	23	0014613 *1)
1/4 NPT	36	8	16	67	0613678 *1)

*1) Stainless steel

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 IMI Precision Engineering, Norgren Co., Ltd.
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.