

3/2, 4/2 and 5/2 Directional control valves
Modular NAMUR design
Actuation: electromagnetic
Indirectly controlled spool valves
Port size: G 1/4

For single and double operated actuators

Standard manual override with detent

Compact design

High flow rate

Simple design of soft spool seal system

Maintenance-free

Easily interchangeable solenoid system

Exhaust air recirculation

The solenoids are ATEX approved
(see solenoids page 2)

Valves and solenoids are ATEX approved



Technical data

Medium:

Solenoid valve for filtered, lubricated *1)
 or non-lubricated air

Operation:

Solenoid, indirectly controlled

Flow direction:

Fixed

Mounting position:

Optional, preferably with solenoid on top

Nominal size:

6

Port size:

G 1/4

Electrical connection:

See solenoid table

Operating pressure:

2 to 8 bar

Temperature:

-10 ... 50°C

Please consult our technical service for use below +2°C. If installed
 in the open protect all connections against the penetration of moisture!

Materials:

Housing: Aluminium

Pilot flange: Plastic

Seat seal: NBR (Perbunan)

*1) Oil recommendation: Shell Hydrol DO 32, Esso Febis (as of July 1992) or comparable
 oils with DVI values < 8 (DIN 53521) and ISO viscosity class 32-46 (DIN 51519).

Ordering information

3/2 directional control valve, connection G 1/4,
 solenoid 24 V DC, protection class IP65

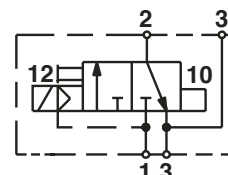
Part No.: 8010777.3036.024.00

Connector: 0570275

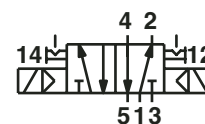
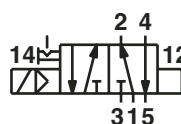
Connections

See data sheet N/UK 7.7.002

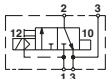
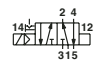
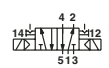
3/2



5/2

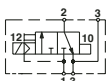
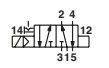


General information

Symbol	Type*	Port size		Actuation	Nominal size	Operating pressure (bar)	kv-value (Cv (US) ▼ kv x 1,2)	Weight (kg)	Dimensions Nr.
		1, 3 (5)	2 (4)						
	8010777	G 1/4	Flange	Solenoid indirectly controlled	6	2 ... 8	1,2	0,4	1
	2623077	G 1/4	Flange	Solenoid indirectly controlled	6	2 ... 8	1,2	0,55	2
	2623177	G 1/4	Flange	2 x Solenoid indirectly controlled	6	2 ... 8	1,2	0,9	3






* When ordering please indicate solenoid, voltage and current type (frequency).
Port 3 not throttleable.

3/2- or 5/2 way function (Conversion Instruction see page 6)

Symbol	Type*	Port size		Actuation	Nominal size	Operating pressure (bar)	kv-value (Cv (US) ▼ kv x 1,2)	Weight (kg)	Dimensions Nr.
		1, 3 (5)	2 (4)						
	2623079	G 1/4	Flange	Solenoid indirectly controlled	6	2 ... 8	1,2	0,4	4
	2623179	G 1/4	Flange	2 x Solenoid indirectly controlled	6	2 ... 8	1,2	0,9	5

* When ordering please indicate solenoid, voltage and current type (frequency).
Port 3 not throttleable.

Solenoid actuators

	Type	Power consumption		Rated current at		Protection class Fluid max.	Temperature Ambience (°C)	Weight (kg)	Dimensions No.	Circuit diagram No.
		24 V DC (W)	230 V AC (VA)	24 V DC (mA)	230 V AC (mA)					
	3050 *2)	1,7	5,6/4,3	–	–	IP 65 with connector DIN EN 175301-803 Form B *6)	-40 ... +50	0,06	6	1
	3036 *2)	1,6	3,5	30	–	IP 65 with connector DIN EN 175301-803 Form A *6)	-40 ... +50	0,1	7	1
	3062 *3)	2,7	–	115	–	Cat. II2G, EEx m II T5 3 m cable	-20 ... +50	0,3	8	1
	3063 *3)	–	2,1	–	9	Cat. II2G, EEx m II T5 3 m Kabel	-20 ... +50	0,3	8	8
	3071	2,7	–	115	–	IP 66 Connector M12x1 DIN EN 60947-5-2 Anh. D	-10 ... +50	0,3	9	8



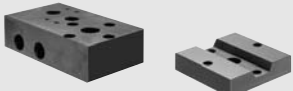

Standard voltages 24 V DC, 230 V AC. Other voltages on request.
Design acc. to VDE 0580, EN 50014/50028. 100% duty cycle.

*2) Required connector, see page 3

*3) Certificate of Conformity PTB No. PTB 03 ATEX 2015 X

*6) Connector is not indicated in delivery

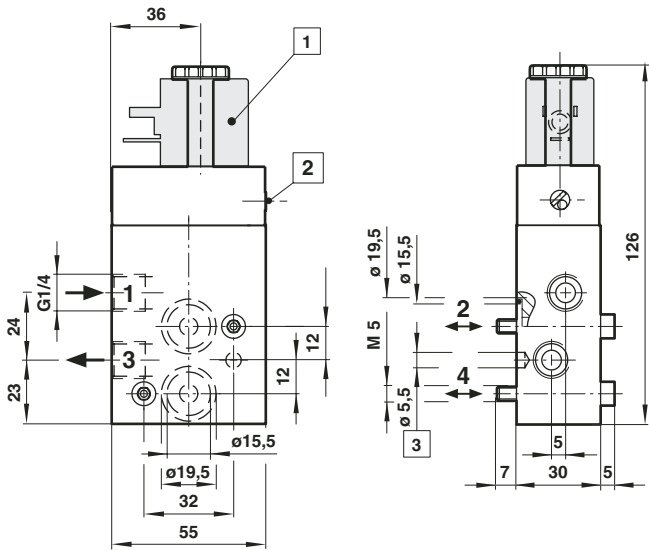
Accessories

Silencer	Connectors	Flange plate	Yoke
			
0014600 (G1/4) *1)	0570275 Form A 0680003 Form B	0612790 NAMUR sigle connection plate 0612791 NAMUR rip use in combination with 0612790 (Alu)	0540593

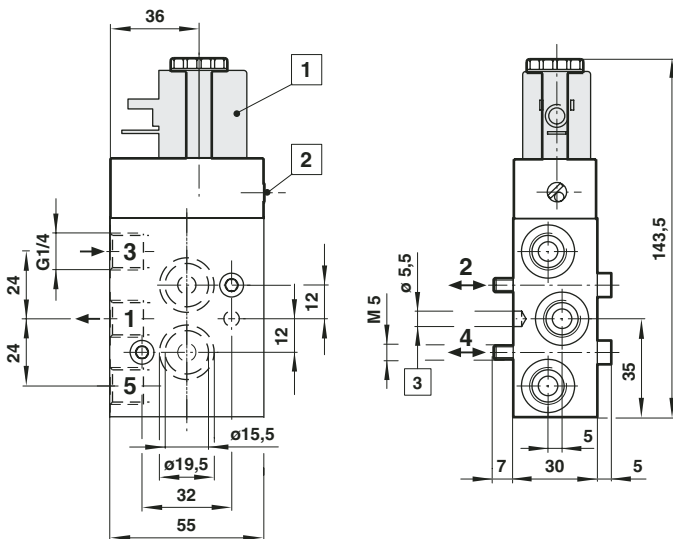
*1) For indoors use

Basic dimensions for valves

①

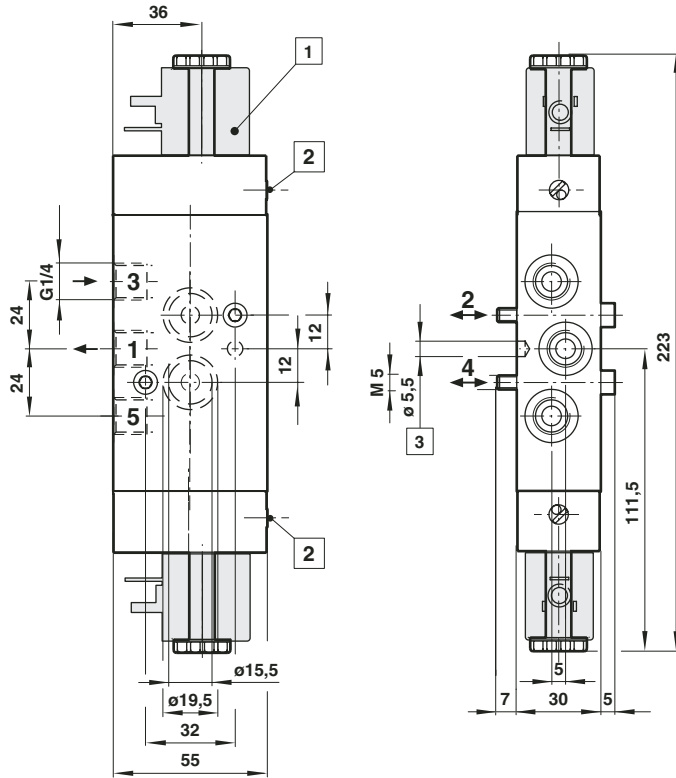


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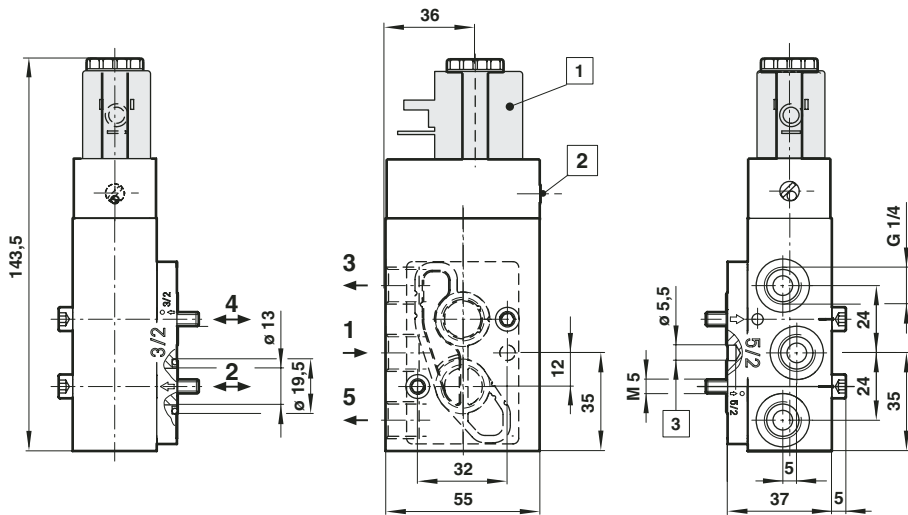


- 1 Solenoid 90° turnable
- 2 Manual override

③

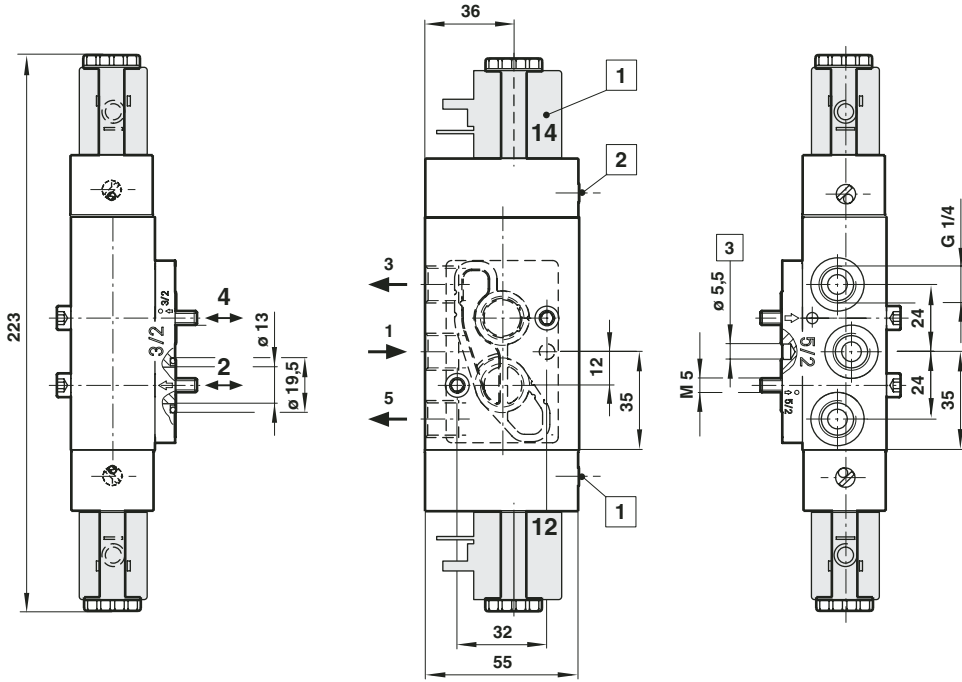


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- 1 Solenoid 90° turnable
- 2 Manual override

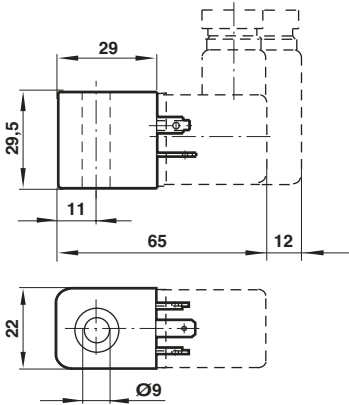
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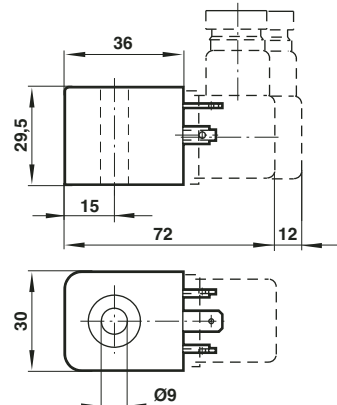
1	Solenoid 90° turnable
2	Manual override

Dimensions for solenoid operators

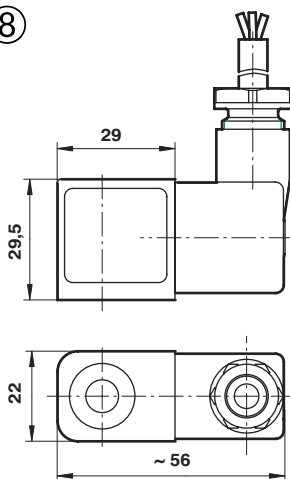
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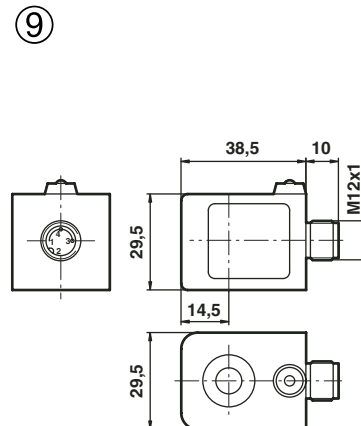
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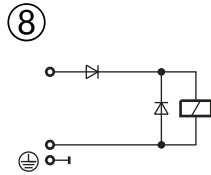
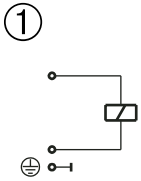
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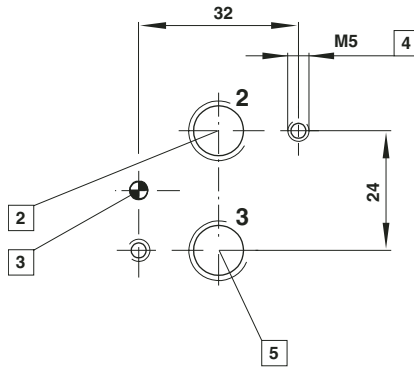
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Circuit diagrams



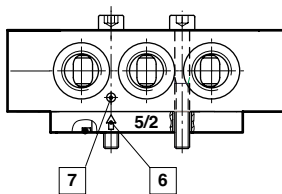
NAMUR hole pattern



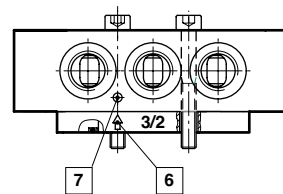
2	Port 2 (A)
3	Coding stud threaded
4	M5 (10 deep)
5	Port 3 (R)

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

5/2 way function (original mode of supply)



3/2 way function



3/2 resp. 5/2 way function can be achieved just by swapping enclosed adaptor plates. Make sure Marker and Arrow do match as shown on above drawing. Original mode of supply: 5/2 function.

6	arrow
7	Marker

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 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 where applicable.