

4/2 Directional Control Valves



Nominal size 4
For double-acting cylinders
Solenoid pilot actuated poppet valve
Flanged design with NAMUR interface
Port size G 1/8
Operating pressure 2 to 8 bar

Catalog Register
P11

Publication 7503296.06.08.97

Description

Solenoid valve for filtered, lubricated¹⁾ or non-lubricated air

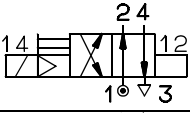
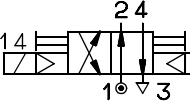
Flow direction: Fixed
 Temperature range: -10 to +50°C
 Material:
 – Body: Anodized aluminium
 – Solenoid pilot flange: Synthetic material (PBT)
 – Seals: NBR (Perbunan)
 AU (Polyester-Urethan)

Features

- Standard manual override with detent
- Mounting position optional
- Compact design
- Exhaust air muffled
- High flow rate
- Common exhaust line
- Maintenance-free
- Easily interchangeable solenoid system
- Connector interface to DIN 43650 Form A and B
- Low power consumption (< 2 Watt standard)



Parameters

Symbol ³⁾	Nom. size	Line connection ³⁾				Operating pressure [bar]		Flow rate Q _N [l/min]	Switching time ²⁾ appr. [ms]		Weight [kg]	Dimensional drawing No.	Cat. No.	
		1	3	2	4	min.	max.		On	Off			Valve	Solenoid
	4	G1/8		Flange		2	8	700	18	10	0.3	01	2622077	See solenoid tables
	4	G1/8		Flange		2	8	700	13	13	0.4	02	2622177	See solenoid tables

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





²⁾ At a pressure of 6 bar to VDI 3290, with DC type solenoid

³⁾ Port 3 cannot be throttled

Solenoids with / without connectors acc. to DIN 43650




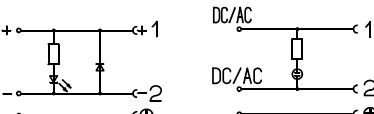





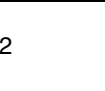
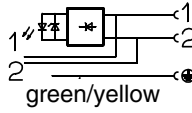

Standard voltage: 24 VDC, 230 VAC. Further voltages available on request.

Design acc. to VDE 0580, 100% duty cycle.

Picture	Connector interface to DIN 43650	Degree of protection DIN 40050	Rated power at DC [W]	AC [VA] Inrush/Holding	Temperatures ¹⁾ [°C]		Cat. No.
					Fluid max.	Ambience	
	Form A	IP 00	1.6	4.55/3.5	-20 to +50	-20 to +50	3036
		IP 65	1.6	4.55/3.5	-20 to +50	-20 to +50	3037
	Form B	IP 00	1.7	5.6/4.3	-20 to +50	-20 to +50	3050
		IP 65	1.7	5.6/4.3	-20 to +50	-20 to +50	3051

¹⁾ Temperatures refer to the respective solenoid only. Permissible valve temperatures are not considered here. The max. temperature sum, composed of ambient + fluid temperatures, must not be exceeded.


Connectors for solenoids / Degree of protection acc. to DIN 40050: IP 65

Picture	Description	Electrical circuit diagram	Operating temperature [°C]	Operating voltage [V]	Cat. No.
	Connector acc. to DIN 43650, Form A Without cable Without LED		-40...+125	12...250 DC/AC	0570275
	Connector acc. to DIN 43650, Form B Without cable Without LED		-40...+125	12...250 DC/AC	0680003
	Connector acc. to DIN 43650, Form A Without cable With LED and quenching diode or fluorescent lamp		-40...+100	15...30 DC	0663035
	Connector acc. to DIN 43650, Form B Without cable With LED and quenching diode or fluorescent lamp		-40...+100	150...250 DC/AC	0663034
	Connector acc. to DIN 43650, Form A With cable, 3 m Without LED		-40...+100	15...30 DC	0664811
	Connector acc. to DIN 43650, Form B With cable, 3 m Without LED		-40...+100	150...250 DC/AC	0664812
	Connector acc. to DIN 43650, Form A With cable, 3 m Without LED		-40...+90	12...250 DC/AC	0681493
	Connector acc. to DIN 43650, Form B With cable, 3 m Without LED		-40...+90	12...250 DC/AC	0681494
	Connector acc. to DIN 43650, Form A With cable, 3 m With LED and Zener diode		-20...+80	24 DC/AC	0664363
	Connector acc. to DIN 43650, Form B With cable, 3 m With LED and Zener diode		-20...+80	24 DC/AC	0680208

Solenoids in protection class EEx m

Standard voltages: 24 VDC, 230 VAC. Further voltages available on request.

Design acc. to VDE 0580 or VDE 0171, 100% duty cycle.

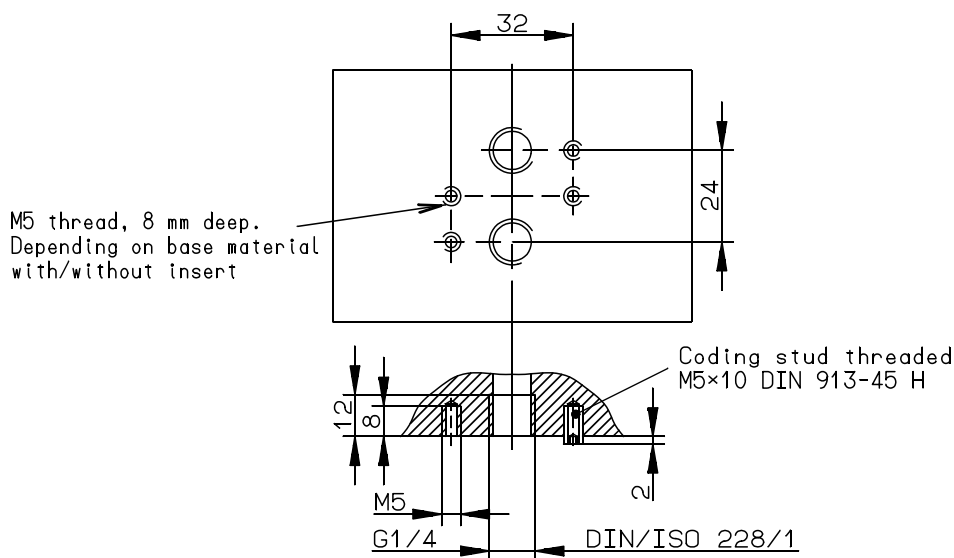
Picture	Protection class	Degree of protection DIN 40050	Rated power at		Permissible temperatures [°C]		Cat. No.
			DC [W]	AC [VA]	Fluid max.	Ambience	
	EEx m II T5 with cable 3 m	IP 65	3.3	—	+50	−15 to +50	3042
	EEx m II T5 with cable 3 m	IP 65	—	3.3	+50	−15 to +50	3043

Cat. No. (example): 2622077. **3050**
Valve Solenoid

A distance plate, Cat. No. **0540109** is required when mounting a solenoid with an overall width of 30 mm.

Please indicate voltage [V] and frequency [Hz]

NAMUR interface

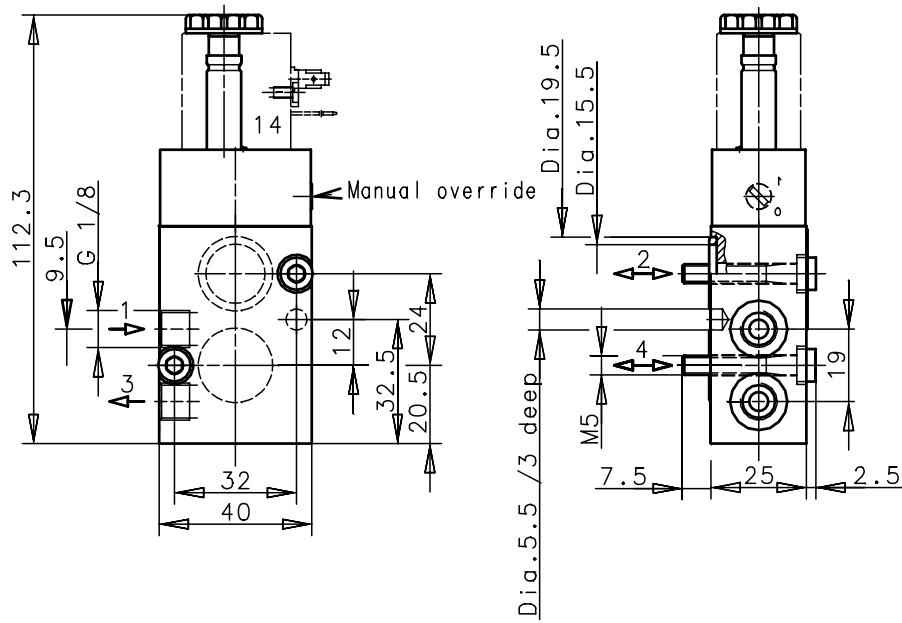


Fitting accessories

Description	Use	For additional information see publication	Weight [kg]	Cat. No.
Flange plate	Direct attachment to pneumatic lifting drives with NAMUR ridge; in case of wall mounting, dependent on position of piping	HERION 7502242	0.49	0559857
Clamp	Used in conjunction with flange plate to pneumatic lifting drives with NAMUR post		0.10	0540593
Distance plate	Required when using solenoids with an overall width of 30 mm		0.25	0540109
Silencer	Pressure connection G 1/8; max. back pressure 6 bar	HERION 7501080	0.01	0014500

Dimensional drawings [mm]

01



02

