3/2-way solenoid valve
series PS129

Poppet valves for vacuum G1/8 ÷ G1 1/2

- A complete range: G1/8 - G1/4 - G3/8 - G1/2 - G3/4 - G1 - G1 1/2
- Servoassisted version
- A complete range of solenoid valves and pneumatic valves for vacuum with connection from G1/8 ÷ G1 1/2 to satisfy all requirements
- The internal system ensures high reliability and long life

Available ATEX version upon request

CE Ex **II 2Gc IIC T5 II 2Dc T100°C**

CE Ex **II 3 GD c nA II T5-10°C ≤ Ta ≤ 45°C**

TECHNICAL CHARACTERISTICS

Ambient temperature	+50 °C						
Fluid temperature	-5 ÷ +60 °C						
Fluid	50 µm filtered air, with or without lubrication - vacuum						
Commutation system	poppet						
Ways/Positions	**2/2 NC (upon request), 3/2 NC, 3/2 NO, 3/2 NC-NO**						
Control	indirect vacuum						
Return	automatic by vacuum						
Connections	**G 1/8**	**G 1/4**	**G 3/8**	**G 1/2**	**G 3/4**	**G 1**	**G 1 1/2**
Nominal Ø (mm)	5,5	8	10	15	19	25	39

CONSTRUCTIVE CHARACTERISTICS

Valve body	**G1/8 ÷ G1** = zamak
	G1 1/2 = aluminium
Seals	**valve for vacuum with external air operation**
	polyurethane conical poppets and Vulkollan diaphragm
	valve for direct vacuum with external vacuum operation
	silicon poppets
Actuators	**G1/8 ÷ G1** = zamak
	G1 1/2 = aluminium
Spool	**G1/8 ÷ G3/8** = aluminium
	G1/2 ÷ G1 1/2 = steel + plastic

ELECTRIC CHARACTERISTICS

	G1/8	**G1/4 ÷ G1 1/2**
Electropilot	U1	U2
Coil	DA	DB
Power consumption	3,5 W (DC) - 5 VA (AC)	11 W (DC) - 10 VA (AC)
Connector	AM 5110	AM 5111
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC	
Manual override	impulse screw - 2 positions	

Abbildungen unverbindlich, Konstruktions-, Maß- und Werkstoffänderungen vorbehalten
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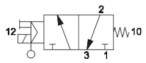
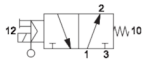
3/2-way solenoid valve
series PS129

3/2 Solenoid valve for vacuum with external pilot air supply

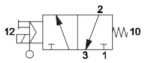
3/2 NC **G1/2 - G3/4 - G1**



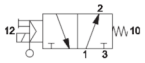
3/2 NO **G1/2 - G3/4 - G1**



3/2 NC **G1 1/2**

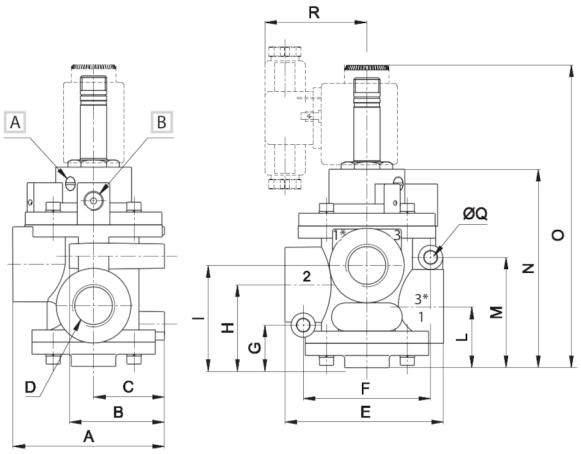


3/2 NO **G1 1/2**



	Connect.	Control	Return	Ø	Resp. Time (ms)		Minimum control	Pump	Max vacuum		Weight
		12	10	mm	En.	De-en.	pressure bar	max m³/h	mm Hg	Torr	Kg
3/2 NC	G1/2			15	16	40	3	20	759,5	0,5	1,19
	G3/4	electric	mechanical	19	16	40	3	35	759,5	0,5	1,13
	G1	amplified	spring	25	18	42	3	90	759,5	0,5	1,62
	G1 1/2			39	60	38	4	180	759,5	0,5	2,25
3/2 NO	G1/2			15	16	40	3	20	759,5	0,5	1,19
	G3/4	electric	mechanical	19	16	40	3	35	759,5	0,5	1,13
	G1	amplified	spring	25	18	42	3	90	759,5	0,5	1,62
	G1 1/2			39	60	38	4	180	759,5	0,5	2,25

G1/2 - G3/4 - G1



NC

1 = Supply port
2 = Use
3 = Exhaust

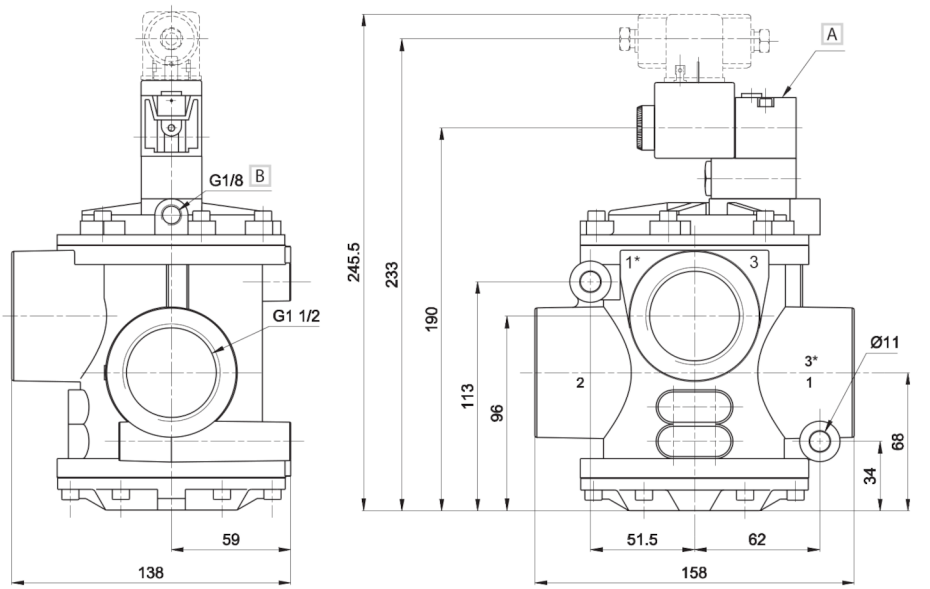
NO

1* = Supply port
2 = Use
3* = Exhaust

A Manual override
B Supply port for external servoassistance of the pilot

	A	B	C	D	E	F	G	H	I	L	M	N	O	Q	R
G1/2	75	47	35	G1/2	78,5	63	21	41	50,5	30	54,5	100	150	6,4	50,5
G3/4	75	47	35	G3/4	78,5	63	21	41	50,5	30	54,5	100	150	6,4	50,5
G1	89	55	40	G1	101	76	25,5	51	64	38	62,5	115	167	8,4	50

G1 1/2



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A Manual override
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