

3-PORTS PROPORTIONAL VALVE WITH CONTROL LOOP

PULSTRONIC

GENERAL

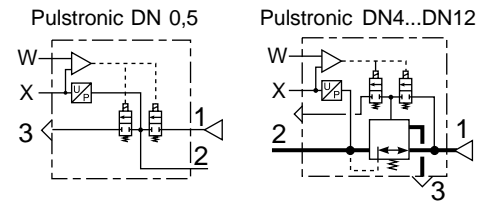
The PULSTRONIC is a compact **electropneumatic pressure regulator** (E/P transducer) which converts an electrical signal into a pneumatic pressure. It is particularly suited for precise pressure regulation due to its integrated control loop with electronic pressure feedback.

SPECIFICATIONS

FLUID : air or neutral gases, filtered at 50 µm, lubricated or not
 CONNECTION : instant fittings for flexible hose O.D. 4 mm
 G 1/8, G 1/4, G 1/2
 OPERATING PRESSURE : see "pressure range"
 TEMPERATURE - FLUID : 0 °C to 60 °C
 - AMBIENT : 0 °C to 50 °C
 ANALOG SETPOINT : 0 - 10 V, 0 - 20 mA, 4 - 20 mA
 SECURITY FUNCTION : pressure hold at power supply shut-off , without control
 HYSTERESIS : < 1 % of maximum output pressure (PMR)
 REPEATABILITY : 0.5 % of maximum output pressure (PMR)

CONSTRUCTION

Body: aluminium and synthetic material
 Internal parts: stainless steel and synthetic material
 Sealings: nitrile (NBR), FPM



ELECTRICAL CHARACTERISTICS

Voltage (residual ripple: max.10 %)	Max. consumption (W)	Max. current (mA)	Insulation class	Protection degree	Electrical connection
24 V= +/-10%	3.6	150	F	IP 65	Spade plug size 15 connector, DIN 43650, 9,4 mm, industry standard B, rotatable by 90° (delivered with solenoid valve)

CHOICE OF EQUIPMENT

Ø Ports	Ø Nominal diameter (mm)	Flow at 6 bar (l/min - ANR)
Instant fitting O.D. 4 mm	0.5	7
G 1/8	4	550
G 1/4	7	1250
G 1/2	12	4000

CODIFICATION

6 0 5 A S O F P

A: CONSTRUCTION (connection), body
 1 = DN 12, 1/2, indirectly operated
 5 = DN 0.5, instant fitting for flexible hose O.D. 4, directly operated
 7 = DN 4, 1/8, indirectly operated
 9 = DN 7, 1/4, indirectly operated

S: SETPOINT
 0 = 0 ... 10 Volt
 1 = 0 ... 20 mA
 2 = 4 ... 20 mA

O: OPTION (*)
 0 - without option
 1 = Feedback output 0 ... 10 Volt
 2 = PNP pressure switch, ± 5 %
 (*) Only one option possible.
 Special designs (consult us).

P: PRESSURE RANGE
 Relative pressure: Min.-max. input pressure :
 1 = 0 - 1 bar (only to DN 0,5) 1,5 - 2 bar
 2 = 0 - 2 bar 2,5 - 5 bar
 3 = 0 - 3 bar 3,5 - 5 bar
 6 = 0 - 6 bar 6,5 - 8 bar
 0 = 0 - 10 bar 10,5 - 12 bar

F: PNEUMATIC CONNECTION
 (tapped port 1 - 2 (3))
 0 = **tapped G (ISO 228/1), exhaust (3) protected, non connectable**
 3 = tapped G (ISO 228/1), with connectable exhaust (3) (**)
 4 = tapped NPT, exhaust (3) protected, non connectable (**)
 5 = tapped NPT, with collectable exhaust (3) (**)
 (**) selectable for DN4, 7, 12 only.
 For DN0,5 : F=0

Versions in bold letters are standard versions.

ACCESSORIES

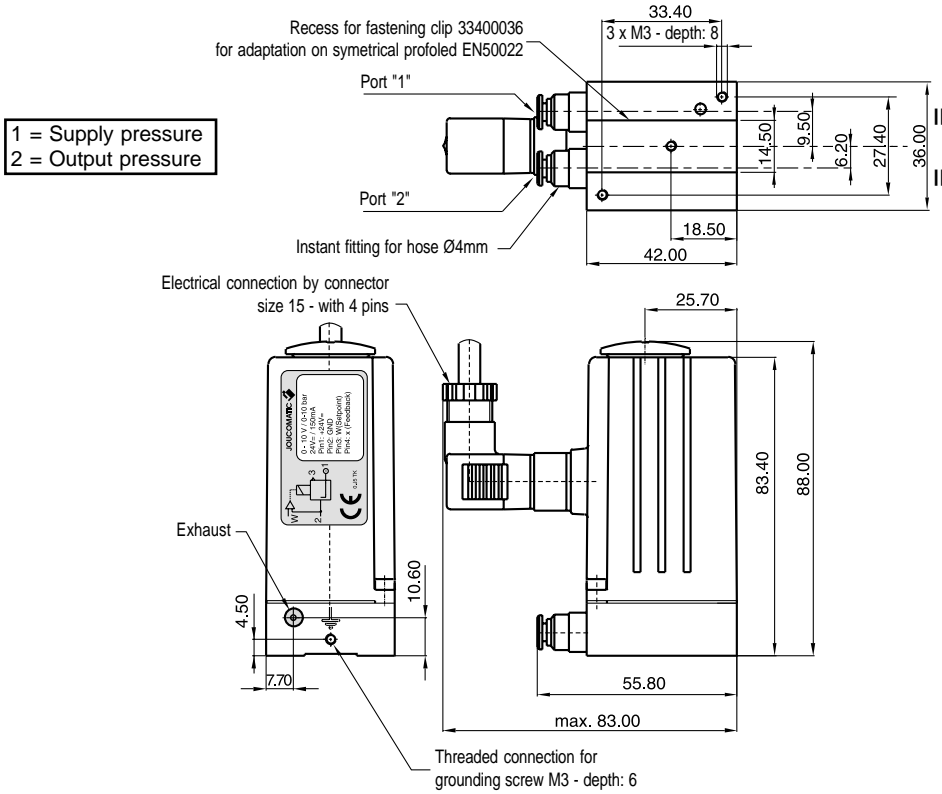
- Fastening clips for adaptation on symmetrical rails DIN/EN 50022, set of 10 clips - cat.no.: **33400036** (only for DN 0,5 version)
- Spade plug, 4 to 6 mm diameter cable, size 15 connector, DIN 43650, 9,4 mm, industry standard B - IP65, with 4 pins - cat.no.: **88100240**

Series 605

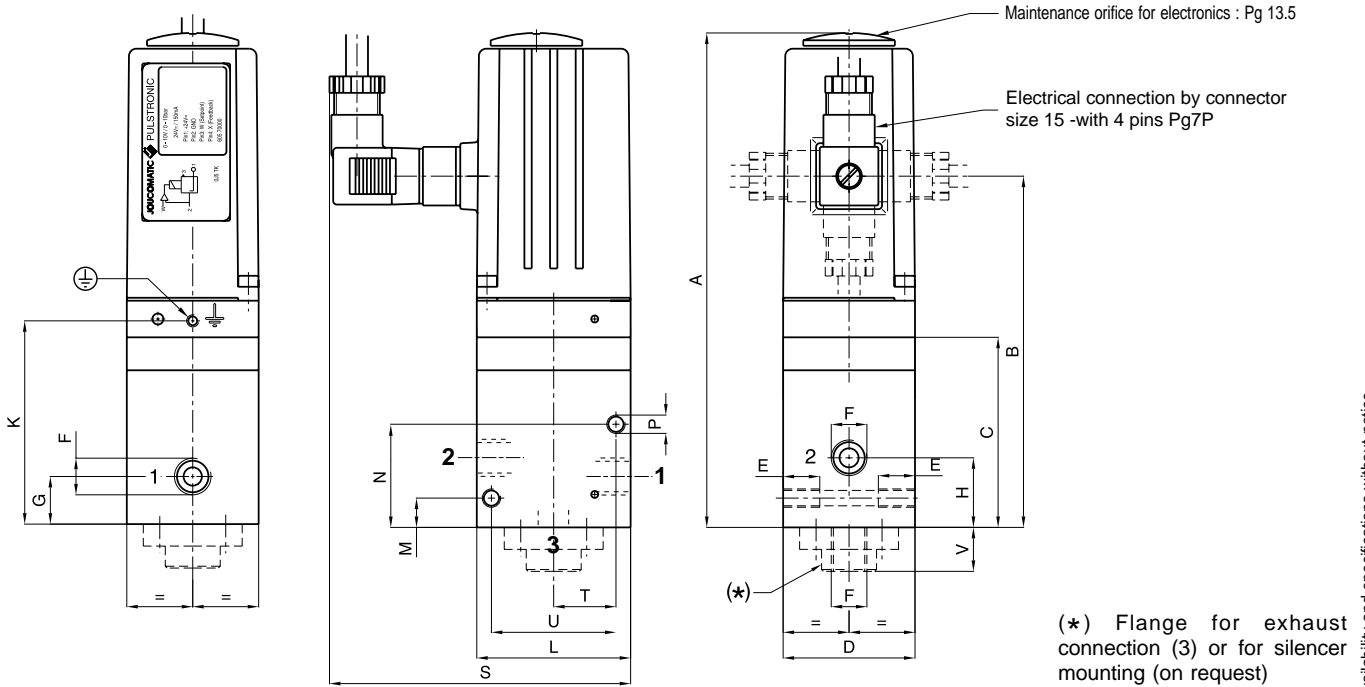
DIMENSIONS AND WEIGHTS

DN 0.5 VERSION WITH INSTANT FITTING O.D. 4 mm

Weight: 175 g

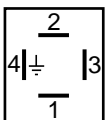


VERSIONS G 1/8 (DN4) - G 1/4 (DN 7) - G 1/2 (DN 12)



Ports diameter	Dimensions (mm)																Weights (kg)	
	A	B	C	D	E	F	G	H	K	L	M	N	P	S	T	U		V
G1/8	135	96	51	36	10	G1/8	13	21,5	55,5	42	10	22	M5	83	17	34	12	0,400
G1/4	150	112	67	46	10	G1/4	18,5	30,5	71,5	60	45	32	M5	94	24	48	12	0,700
G1/2	187	148	103	55	12	G1/2	25,5	45,5	107,5	70	17	45,7	M8	98	26	52	15	1,000

CONNECTION



- 1 - + 24V (POWER)
 - 2 - GND (POWER)
 - 3 - Setpoint (0 - 10 V / 0 - 20 mA / 4 - 20 mA)
 - 4 - Option: Feedback output or pressure switch
- (4 pin is not a connection to protection earth)**

All leaflets are available on: www.ascojoucomatic.com