

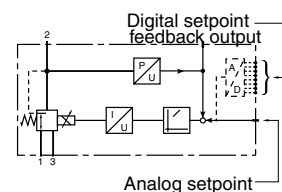


ASCO
JOUCOMATIC

PROPORTIONAL VALVES

SENTRONIC

with integrated control electronics



3 Ports
Series
833-354

GENERAL

Fluids	: Air or neutral gas, filtered at 50 µm, condensate-free, lubricated or unlubricated
Ports	: G1/8 - G1/4 - G1/2 - G1
Maximum allowable pressure (MAP)	: See table below
Control range	: See table below
Temperature fluid	: 0 °C to 60 °C
ambient	: 0 °C to 40 °C
Setpoint - analog	: 0 - 10 V (impedance 100 KΩ) 0 - 20 mA (impedance 500 Ω) 4 - 20 mA (impedance 500 Ω)
- digital (option)	: 8 bits + memory function (Hold) 8 bits + pressure reset (Enable)
Hysteresis	: 1 % of span
Linearity / pressure measurement	: ± 0,5 % of span
Repeatability	: ± 0,5 % of span

CONSTRUCTION

Direct operated poppet valve
Body: See table below
Internal parts: Stainless steel and brass
Seal materials: FPM and NBR

ASSEMBLY POSITION

any



ELECTRICAL CHARACTERISTICS

nominal diameter DN (mm)	voltage *	max. power (W)	max. current (mA)	insulation class	degree of protection	electrical connection
3	24 V = +/-10%	12	500	F	IP 65	7-pin connector (16-pin digital) DIN 43651
6		24	1000			
12		34	1400			
20		44	1800			

* Max. ripple: 10 %

SPECIFICATIONS

Ø connection	Ø orifice DN (mm)	flow	
		K _v coefficient (Nm ³ /h)	at 6 bar (l/min - ANR)
G 1/8	3	0,18	210
G 1/4	6	0,60	700
G 1/2	12	1,20	1400
G 1	20	4,80	5600

CATALOGUE NUMBER

8 3 3 - 3 5 4 A S I D P P

A: VERSION (ports), body

0 = DN6 (G 1/4), Alu	6 = DN20 (NPT 1"), Alu
1 = DN12 (G 1/2), Alu ³⁾	7 = DN3 (G 1/8), brass
2 = DN20 (G 1), Alu	8 = DN6 (G 1/4), brass
3 = DN6 (ISO 1), Alu	9 = DN3 (NPT 1/8"), brass
4 = DN6 (NPT 1/4"), Alu	A = DN6 (NPT 1/4"), brass
5 = DN12 (NPT 1/2"), Alu	C = DN6 (G 1/4), VA
	H = DN6 (G 1/4), brass ²⁾

S: SETPOINT

0 = 0 ... 10 V
1 = 0 ... 20 mA
2 = 4 ... 20 mA
3 = Digital input 8 bits with HOLD, 24V level ¹⁾
4 = Digital input 8 bits with pressure reset ¹⁾

I: FEEDBACK

0 = WITHOUT
1 = Feedback output 0 ... 10 V
2 = Feedback output 0 ... 20 mA ¹⁾
3 = Feedback output 4 ... 20 mA ¹⁾
4 = Feedback input 0 ... 10 V
5 = Feedback input 0 ... 20 mA
6 = Feedback input 4 ... 20 mA

PP: PRESSURE RANGE

Relative pressure	Max. inlet pressure (bar)	Vacuum (relative)
40 = 0 - 100 mbar	2	V1 = 0 ... -1 bar
50 = 0 - 500 mbar	2	shut-off valve
60 = 0 - 1 bar	2	V2 = 0 ... -1 bar
02 = 0 - 2 bar	3	bypass version
03 = 0 - 3 bar	8	
05 = 0 - 5 bar	8	
06 = 0 - 6 bar	12	
10 = 0 - 10 bar	12	
12 = 0 - 12 bar	14	
16 = 0 - 16 bar ⁴⁾	18	
20 = 0 - 20 bar ⁴⁾	22	
3H = 0 - 30 bar ⁵⁾	40	
5H = 0 - 50 bar ⁵⁾	60	

⁴⁾Only for DN3 and DN6

⁵⁾Only for DN6, brass

D: PRESSURE SWITCH

0 = WITHOUT
1 = ± 5 %, PNP, feedback=setpoint

Note:

¹⁾ Only one option possible (G1/8), max. 2 options possible (G 1/4 ... G 1)

²⁾ Only for pressure ranges from 30 to 50 bar

³⁾ Up to max. 10 bar

Other versions on request

All leaflets are available on: www.ascojoucomatic.com

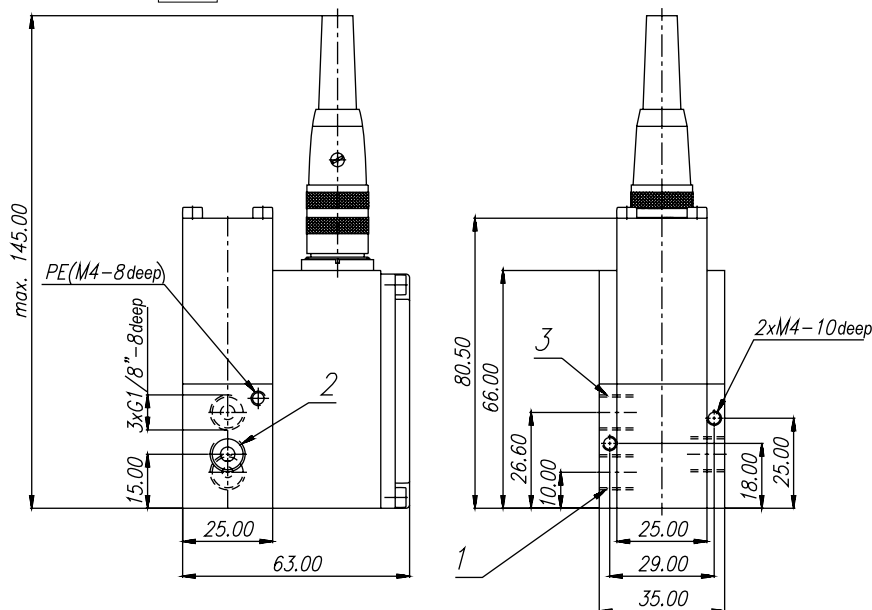


Pneutrol International Ltd are Platinum Distributors for ASCO Numatics

DIMENSIONS (mm), WEIGHT (kg)

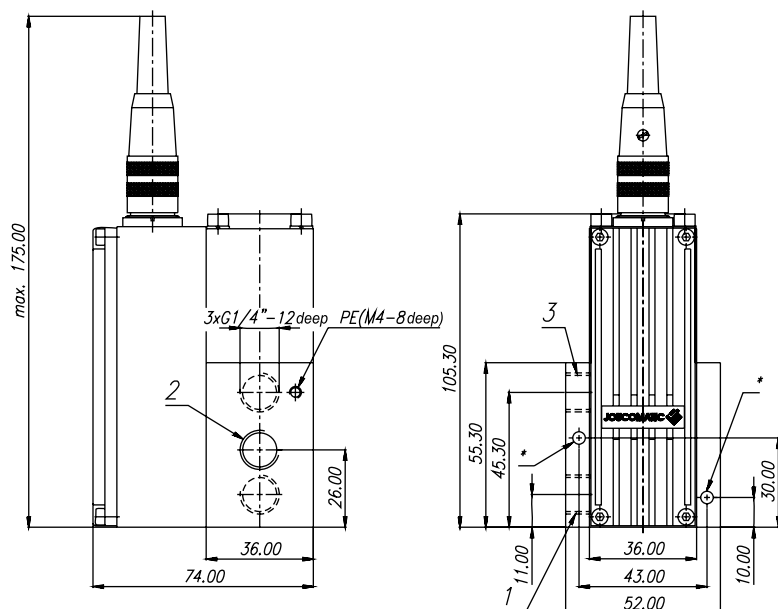
G 1/8

Weight: 0,650 kg



G 1/4

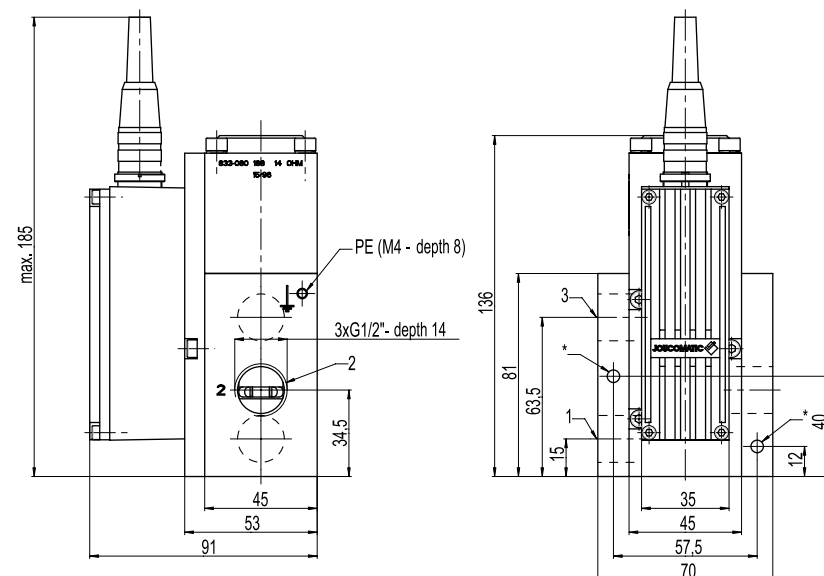
Weight: 0,950 kg



* Thread M6 - depth 10 (on opposite side); tapped through-hole for M4 screw.

G 1/2

Weight: 1,900 kg



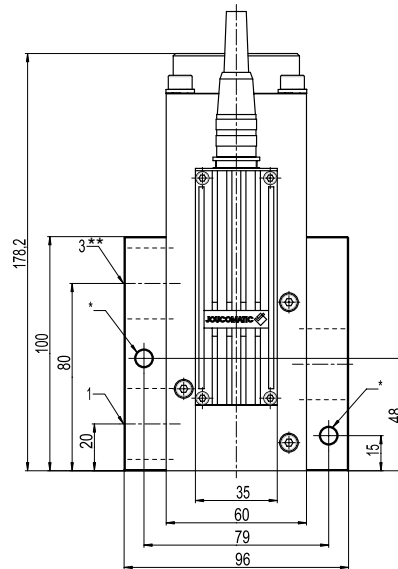
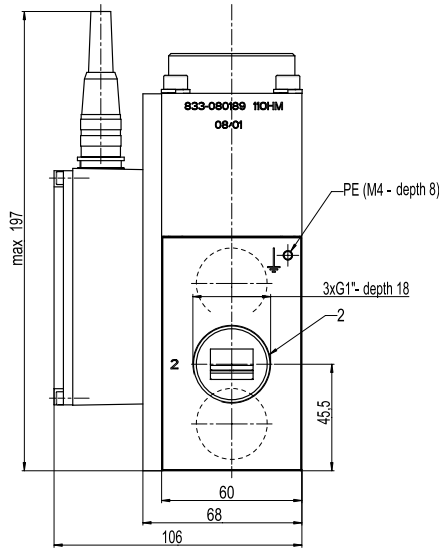
* Thread M6 - depth 10 (on opposite side); tapped through-hole for M4 screw.

DIMENSIONS (mm), WEIGHT (kg)



G 1

Weight: 3,900 kg



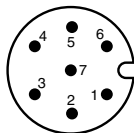
* Thread M8 - depth 15 (on opposite side); tapped through-hole for M6 screw.

**The exhaust connection on the 0-16 bar version is at the bottom of the valve.

CONNECTOR WIRING

Version: **Analog** setpoint

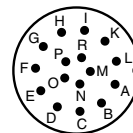
View on solder side of female connector



- 1 - + 24V
 - 2 - GND (24 V)
 - 3 - Setpoint
 - 4 - GND (setpoint)
 - 5 - Output voltage stabilised 12 V (max. 30 mA)
 - 6 - Feedback output pressure - max. 10 mA (option)
 - Feedback input for external electrical pressure sensor (option)
 - 7 - Pressure switch output (option)
- Pin 2 must be connected to ground.

Version: **Digital** setpoint

View on solder side of female connector



- A - +24V
- B - GND
- C - Bit 0 (LSB)
- D - Bit 1
- 4 - Bit 2
- F - Bit 3
- G - Bit 4
- H - Bit 5
- I - Bit 6
- K - Bit 7 (MSB)
- L - Memory function (Hold)
- Pressure reset (Enable)
- M - Pressure switch output (option)
- P - Feedback output pressure 0 - 10 V (option)
- Feedback input for external electrical pressure sensor (option)

