AVENTICS™ Proportional Valves SENTRONIC^D

With Digital Pressure Control



FEATURES

- **SENTRONIC**^D is a highly dynamical 3-way proportional valve with digital control.
- **SENTRONIC**^D stands for:
- Digital communication and control
- Display (integrated)
- Direct operated valve
- **D**ynamic behaviour (high speed)
- A special feature of the **Sentronic**^D is its DaS software supplied for optimum adjustmentover PC and viewing of setpoint and feedback signals.
- Other functions are valve diagnostics, parameter setting and maintenance.
- The valve's outlet pressure can also be adjusted over the integrated display and the function buttons.

GENERAL

Fluids Air or neutral gases filtered at 50 μm, without conden-

sate, lubricated or unlubricated

Maximum allowable pressure (MAP) 6 to 13 bar

Pressure range 0-3 bar, 0-6 bar, 0-10 bar

Fluid temperature $0^{\circ}\text{C to } +60^{\circ}\text{C}$ Ambient temperature $0^{\circ}\text{C to } +50^{\circ}\text{C}$

Flow (Qv at 6 bar) 470 to 1300 l/min (ANR) Setpoint 0 - 10 V (impedance 100 kΩ)

0 - 20 mA /4 - 20 mA (impedance 250 Ω)

Hysteresis< 1% of span</th>Linearity< 0,5% of span</th>Repeatability< 0,5% of span</th>

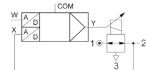
Minimum setpoint 100 mV (0,2 mA/4,2mA) with shutoff function

Minimum outlet pressure 1% of span

CONSTRUCTION

Body aluminium Internal parts POM (polyacetal)

Seals NBR (nitrile) and FPM (fluoroelastomer)



ELECTRICAL CHARACTERISTICS

nominal diameter DN (mm)	stabilised voltage *	max. power (W)	max. current (mA)	insulation class	degree of protection	electrical connection
4	24 V = +/-10%	21	850	ш	IP 65	5-pin M12 connector
8	24 V - 7	40	1650	"	11 05	(not supplied)

^{*} Max. ripple: 10 %

SPECIFICATIONS

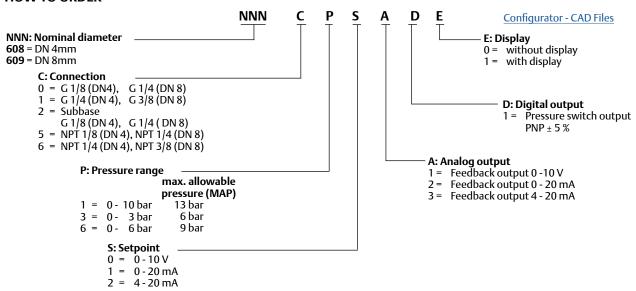
Ø	Ø	flow		
ports	orifice DN (mm)	K _v coefficient (Nm³/h)	at 6 bar (l/min - ANR)	
G 1/8 G 1/4	4	0,43	470	
G 1/4 G 3/8	8	1,2	1300	

Test conditions according to ISO 8778: temperature: 20 °C, relative inlet pressure: 6 bar, relative outlet pressure: 5 bar

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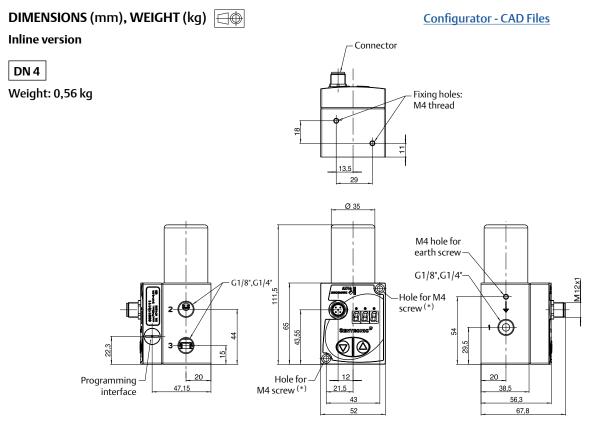
HOW TO ORDER



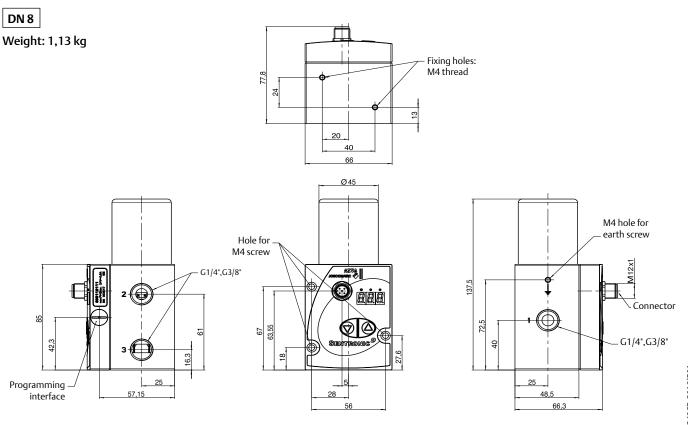
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Series 608 609



 $^{^{\}ast}\mbox{Remove}$ the pre-installed screws to use the through holes to mount the valve.



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DIMENSIONS (mm), WEIGHT (kg)

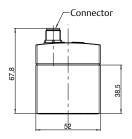


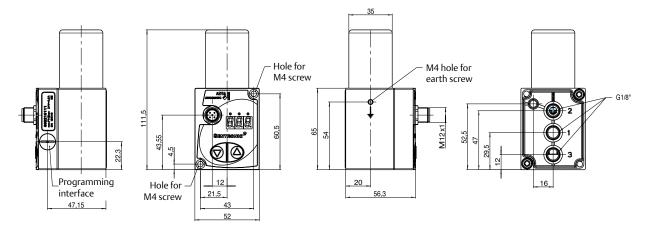
Configurator - CAD Files

Subbase version

DN 4

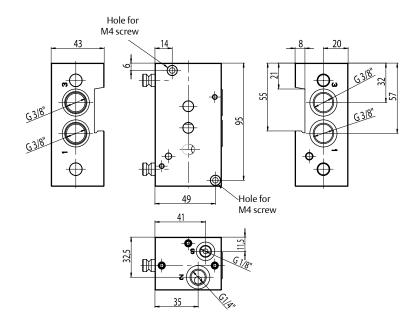
Weight: 0,56 kg





DN 4

Subbase



Visit our website at Emerson.com/AVENTICS

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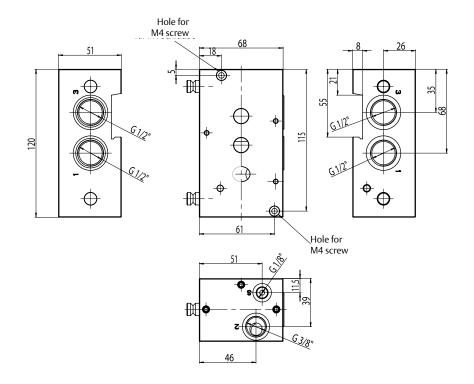


DIN 8
Weight: 1,13 kg

Weight across the state of the sta

DN 8

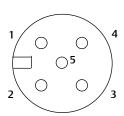
Subbase



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CONNECTOR PINNING / CABLE WIRING



pin	description	5-wire cable (2m)	6-wire cable (5m, 10m)
1	24V voltage supply	brown	brown
2	Analog setpoint input	white	white
3	Supply ground	blue	green
	Analog ground*		yellow
4	Analog output (feedback)	black	pink
5	Digital output (pressure switch)	grey	grey
Body	EMC shield	shield	shield

^{*}A 6-wire cable with separate analog ground is used for cable lengths over 2 m to set off the voltage drop for the setpoint.

ACCESSORIES

description	catalogue number
Straight M12 female connector, 5 pins, with screw terminals	88100256
Right-angle M12 female connector, 5 pins, with screw terminals	88100725
Supply cable 2 m, 2 x 0,25 mm ² , straight connector	88100726
Supply cable 2 m, 2 x 0,25 mm ² , right-angle connector	88100727
Supply cable 5 m, 6 x 0,56 mm ² , straight connector	88100728
Supply cable 5 m, 6 x 0,56 mm ² , right-angle connector	88100729
Supply cable 10 m, 6 x 0,56 mm ² , straight connector	88100730
Supply cable 10 m, 6 x 0,56 mm ² , right-angle connector	88100731
RS 232 cable converter; 2m cable with 9-pin Sub-D (plug connector)	88100732
RS 232 cable converter; 2 m cable with 9-pin Sub-D (screw connector)	88100970
Joinable subbase for 608 (DN 4 mm) with G 3/8", common supply and exhaust	35500558
Joinable subbase for 609 (DN 8 mm) with G 1/2", common supply and exhaust	35500559
DaS Light: Data Acquisition Software for <i>SentronicD</i> - basic parameters - CD-ROM	99100110
DaS Expert: Data Acquisition Software for <i>SentronicD</i> - full parameters - CD-ROM	99100111