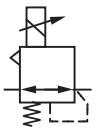
VP40 (Stainless steel)
2/2 - Proportional flow control valve direct actuated poppet valve G1/4 (ND 4)

Low hysteresis
Good repeatability
High flow rate
High sensitivity response
Short switching time
Compact design
Conforms with RoHS



Technical features

Medium:
Compressed air, filtered (40µm), lubricated or non-lubricated , water
Operation:
Proportional solenoid
Flow direction:
Fixed
Mounting:
Any, but preferably with solenoid vertical
Operating pressure p_1:
20 bar max.

Pressure setting p_2:
1 ... 16 bar
Port size:
G1/4
Voltage:
12 V d.c.
Nominal power (PN):
22 W
Resistance (R20):
6,5 Ω
Duty cycle:
100 %
Hysteresis *1):
<3% (at max. p_2)

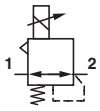
Repeatability *1):
<1% (p_2 max)
Degree of protection:
IP65 with connector
Ambienttemperature:
-10 ... +40°C
Air supply must be dry enough to avoid ice formation at temperatures below +2°C.

*1) Values at 20°C with dither 15% at 40 Hz

Materials:
Body: stainless steel
Seals: FPM

Drive electronics:
pQ05 See datasheet 7.5.100
pQ11 See datasheet 7.5.115
pQ12 See datasheet 7.5.120

Technical data, standard model

Symbol	Offrice (mm)	Port size	Pressure setting p_2 (bar)	Operating pressure p_1 max. (bar)	Rated current * In (mA)	Weight (kg)	Model
	4	G 1/4	1 ... 16	20	1800	1,35	4088126707901200

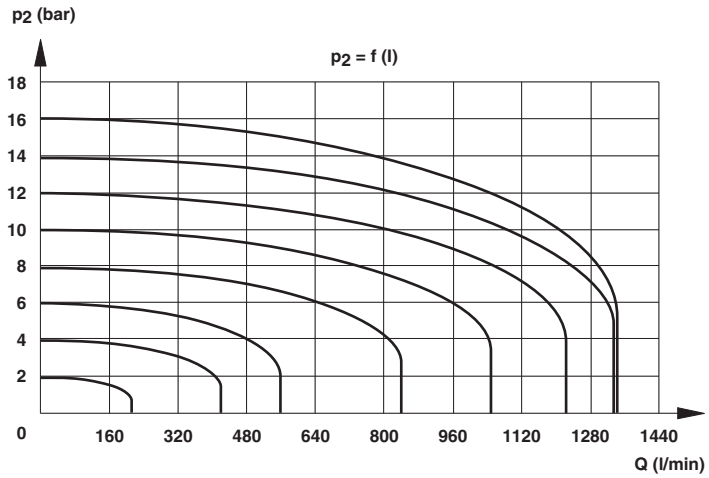
* These are typical values depending on ambient temperature and valve tolerances.

Accessory

Connector
DIN EN 175301-803, form A

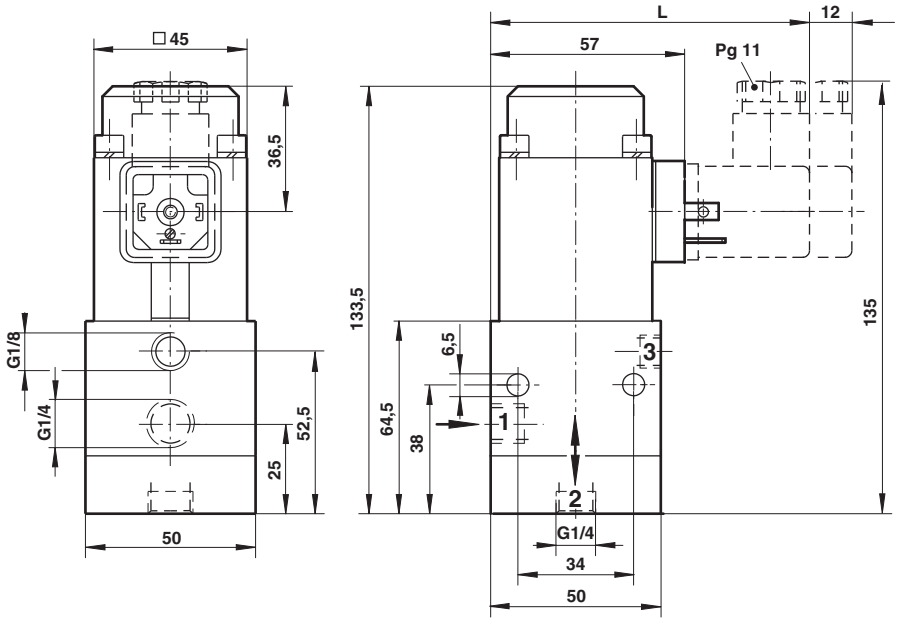
Model
0570275

Characteristic flow curves at p_1 20 bar *, Medium: Compressed air



* The values are serve for the basic illustration and could be different to the end product due to the device tolerances.
Furthermore a deviation of the values during the operating time should be expected. This characteristic can be avoided by a regulated configuration.

Dimensions



Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where values can exceed those listed under **»Technical features/data«**.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.
System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.
System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.