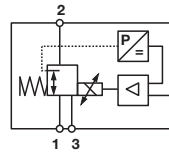


VP50 IO-Link

IO-Link proportional pressure control valve

- Closed-loop air piloted proportional control valve
- IO-Link communications
- User Adjustable settings
- Fast Response time
- Low Power consumption
- Output Pressure Feedback
- High visibility LED status lights
- Manifold mountable
- RoHS compliant



Technical features

Medium:

Compressed dry air, oil free, filtered to 5 µm with addition of a coalescing filter.
ISO 8573-1:2010 [6:1:2].

Operation:

Air piloted spool valve with integrated electronic pressure control

Output (nominal) pressure:

Standard units:
0 ... 2 bar, (0 ... 30 psi);
0 ... 6 bar, (0 ... 90 psi);
0 ... 10 bar, (0 ... 150 psi)

Supply pressure:

Minimum 2 bar (29 psi) above maximum output required.
Standard units: 12 bar max. (174 psi)

Air Supply sensitivity:

Better than 0,75% span output change per bar supply pressure change

Flow:

Up to 1000 NI/min

Air consumption:

< 5 N l/min

Ambient/Media temperature:

0 ... +60°C (+32 ... 140°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

Temperature Sensitivity:

Typically <0.1% span/°C between 0 ... +60°C (+32 ... 140°F)

Degree of protection:

IP65, with LED cover fitted

Linearity:

< 1%

Hysteresis and deadband:

< 1%

Response Time:

< 100 ms (from 10 ... 90% of output pressure into a 0,1 litre load).

Vibration & shock immunity:

<3% of span, 3g sine, 10 to 150Hz (3 axis).

Weight:

0,55 kg

Materials:

Body: Aluminium
Lid: Zinc die cast,
Front cover: Grivory
End cap: PA

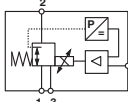
Maintenance:

No maintenance required

Electrical details

Electromagnetic compatibility	Conforms to EC requirements EN IEC 61000-6-4:2019 and EN IEC 61000-6-2:2019
Signal	IO-Link
Electrical power input	24 V d.c. ±25%, (power consumption < 0,55 W)
Feedback	IO-Link
Connections	M12x1, 5-pin

Technical data, standard models

Symbol	Pressure Range	Port Size	Unit of Pressue	Ambient/Media Temperature	Max. Flow (l/min)	Set point (input)	Weight (kg)	Model
	0 ... 2 bar	G1/4	bar	0 ... +60°C	1.000	IO-Link	0,55	VP5002BJ511H00
	0 ... 6 bar	G1/4	bar	0 ... +60°C	1.000	IO-Link	0,55	VP5006BJ511H00
	0 ... 10 bar	G1/4	bar	0 ... +60°C	1.000	IO-Link	0,55	VP5010BJ511H00

Standard proportional valves
Option selector

Output pressure	Substitute
0 ... 2 bar/30 psi	02
0 ... 6 bar/90 psi	06
0 ... 10 bar/150 psi	10
Unit for pressure	Substitute
bar	B

VP50★★★★★11H00

Input signal	Substitute
IO-Link	5
Port size	Substitute
G 1/4	J
NPT 1/4	K
Manifold	X

For options not shown and any specific requirements please contact the Norgren technical department via; www.norgren.com/uk/en/technical-support

Manifold mount assembly to ISO 2 sub base

Single manifold



Page 4

ZZ5M00

O-rings, flat seal and screws are included

Connector Cables

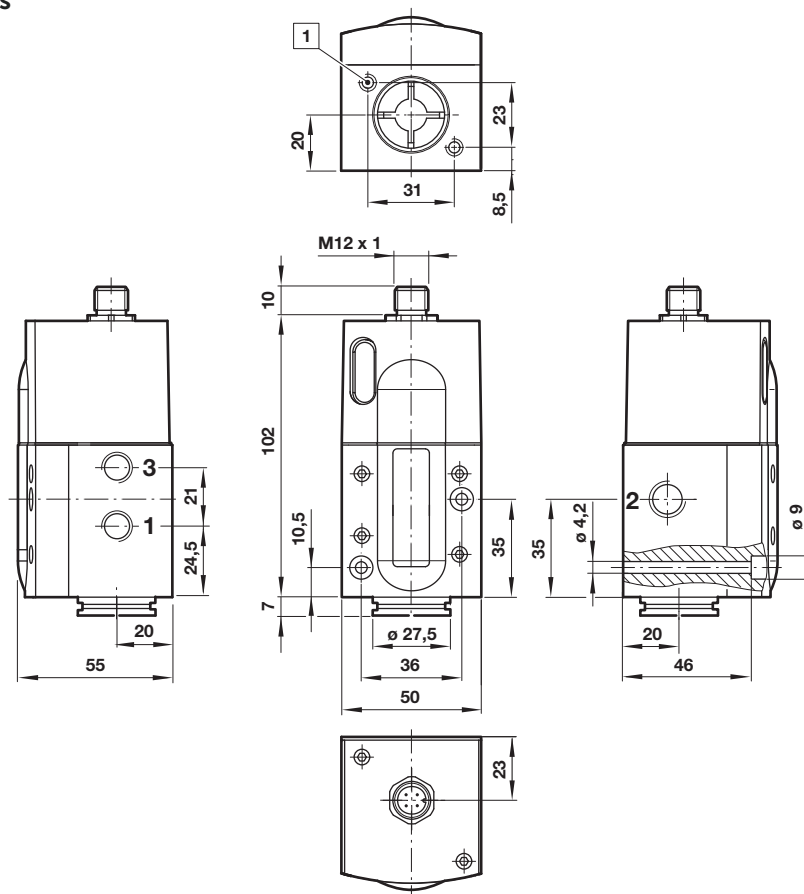
	Product Description	Model
	Cable 5 Pin A-coded M12 - M12 x 0.6 metre long	NC-125FS-125MS-A
	Cable 5 Pin A-coded M12 - M12 x 1 metre long	NC-125FS-125MS-1
	Cable 5 Pin A-coded M12 - M12 x 2 metre long	NC-125FS-125MS-2
	Cable 5 Pin A-coded M12 - M12 x 5 metre long	NC-125FS-125MS-5
	Cable 5 Pin A-coded M12 - Open End x 5 metre long	NC-125FS-00000-5

Electrical connector pin looking
into the end of the instrument

	Pin-No.	Function
	1	+24 V d.c. supply (+/-25%)
	2	N/A
	3	Power Ground (-V)
	4	Signal (C/Q)
	5	N/A

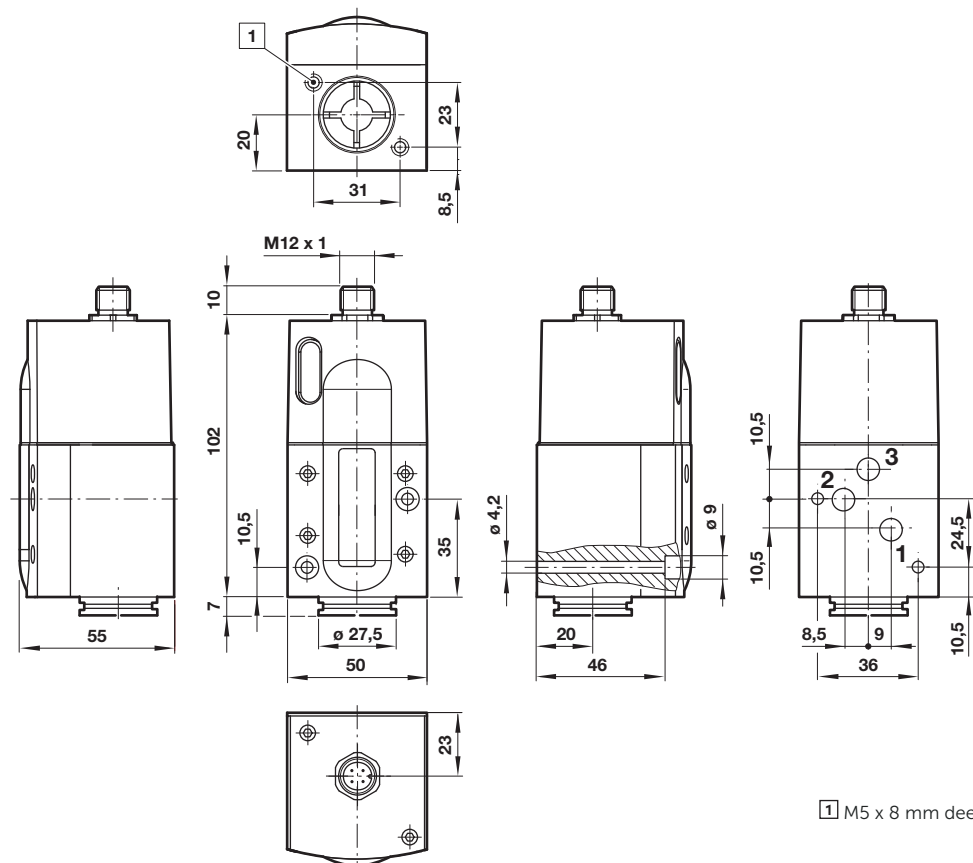
Basic dimensions

Dimensions in mm
Projection/First angle



1 M5 x 8 mm deep

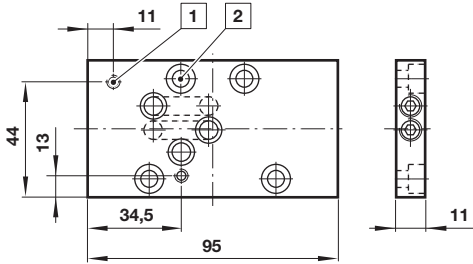
VP50 with manifold surface



1 M5 x 8 mm deep

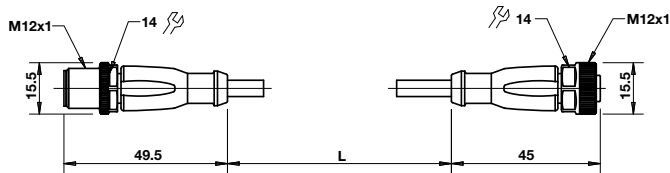
Manifold mount assembly to ISO 2 sub base
included all seals and screws

Dimensions in mm
Projection/First angle

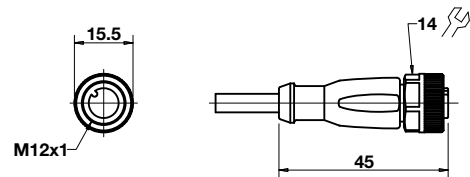


- 1 Two screws M4 x 50 mm deep to mount the VP50 onto the manifold
- 2 Four screws M6x16 mm deep to mount the manifold onto the iso subbase

Cable 5 Pin A-coded



M12 - Open End



Product Description	Cable length (m) L	Model
Cable 5 Pin A-coded M12 - M12	0.6	NC-125FS-125MS-A
	1.0	NC-125FS-125MS-1
	2.0	NC-125FS-125MS-2
	5.0	NC-125FS-125MS-5
Cable 5 Pin A-coded M12 - Open End	5.0	NC-125FS-00000-5

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures 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 Ltd.

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.