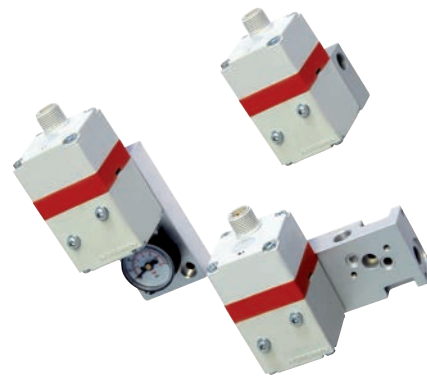


- > Nominal diameter 2,5, flange version G1/8
- > Compact and lightweight design
- > Control from 0 bar
- > Free of self heating
- > Indirect controlled 3-way proportional pressure control valve
- > Visual function display (optional)
- > Field bus capable as part of a valve island
- > Variable connection block technology
- > RoHS compliant



Technical features

Medium:

Filtered (30 µm min), unlubricated and condensate-free compressed air

Ambient:

Valve series is designed for indoor use at normal industrial ambient

Operating pressure:

VPPC02:P1: 7 bar (101 psi) max.
P2: 0 ... 2 bar
(0 ... 29 psi)

VPPC08:P1: 10 bar (145 psi) max.

P2: 0 ... 8 bar
(0 ... 116 psi)

Connection:

Flange version with connecting plate G1/8

Flow:

350 Nl/min. max,
Flowrate see characteristics

Air consumption:

< 0,6 N l/min

Linearity:

< 2,5 %

Control accuracy:

< 0,1 %

Repeat accuracy:

< 0,2 % (p2 max.)

Hysteresis:

< 0,2 %

Degree of protection:

IP 30

Temperature:

Compressed air (no condensation permitted):

-5°C ... +50°C (+23 ...+122°F)

Ambient:

0°C ... +50°C (+32 ...+122°F)

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

Materials

Valve housing: Plastic

Fluid affected parts: Brass, plastic spring steel, elastomer

Note:

After the supply voltage is switched off, the output pressure set last is vented to 0 bar (32 psi)

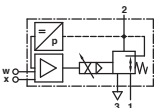
Electromagnetic:

compatibility: (EMV):

Immunity EN 61000-6-2

Emission EN 61000-6-4

Technical data, standard models

Symbol	Outlet pressure (bar)	Set point input	Model
	0 ... 2	0 ... 10 V	VPPC02BA111KE000
	0 ... 8	0 ... 10 V	VPPC08BA111KE000
	0 ... 8	4 ... 20 mA	VPPC08BA411KE000

Option selector

VPPC0★BA★11KE000

Pressure range	Substitute
0 ... 2 bar	2
0 ... 8 bar	8
Set point	Substitute
0 ... 10 V d.c	1
4 ... 20 mA	4

Electrical parameters

Supply voltage	24 V d.c. \pm 10 %
Residual ripple	10 % max
Current consumption	15 mA
Nominal power	0,4 W

Inputs (signal) 'w'	
Voltage signal UE	0 ... 10 V d.c.
Input resistance RE	> 55 K Ω
Current signal IE	4 ... 20 mA
Burden	500 Ω
Max. input voltage	11 V d.c.

Outputs (signal) 'x'	
Voltage signal of pneumatic output pressure UA	0 ... 10 V d.c. = 0 ... p2 max
Output current max. IA	1 mA

Pneumatic parameters



Inlet pressure p1 max.	7*, 10 bar
Outlet pressure p2 max.	2*, 8 bar
Flow	see characteristics

* VPPC02 (P2 = 0 ... 2 bar)

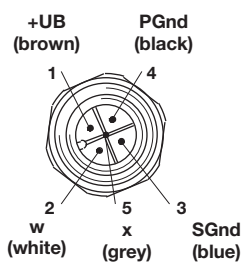
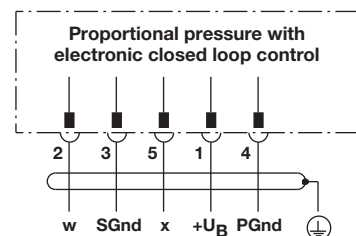
Connection plates and Accessories

<p>Single connection plate</p>  <p>Page 4</p> <p>0252621</p>	<p>Connection plate with function display</p>  <p>Page 4</p> <p>0252623</p>	<p>Double connection plate</p>  <p>Page 4</p> <p>0252622</p>	<p>Blanking plate kit</p>  <p>Page 5</p> <p>02522692</p>	<p>Mounting kit for DIN-Rail</p>  <p>0252693</p>
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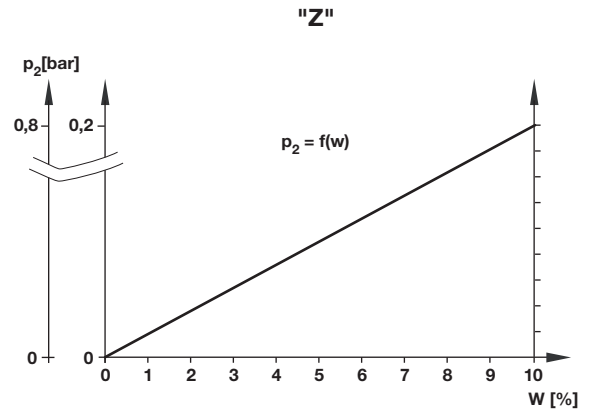
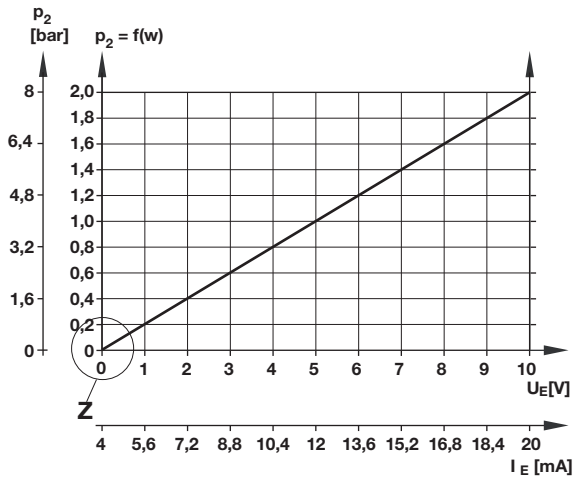
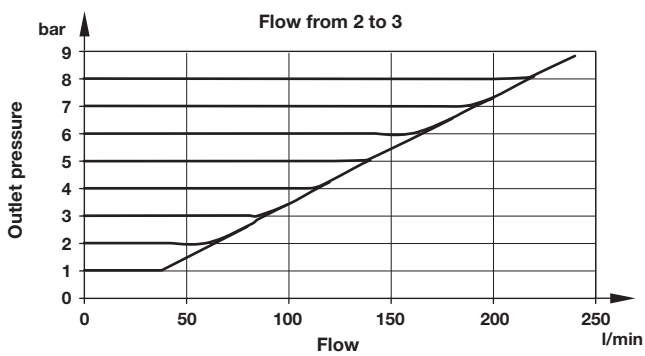
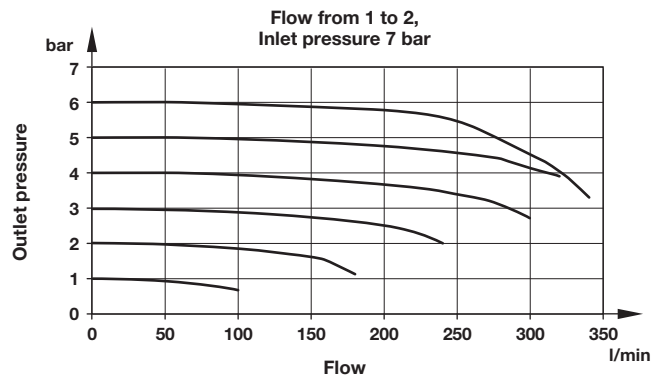
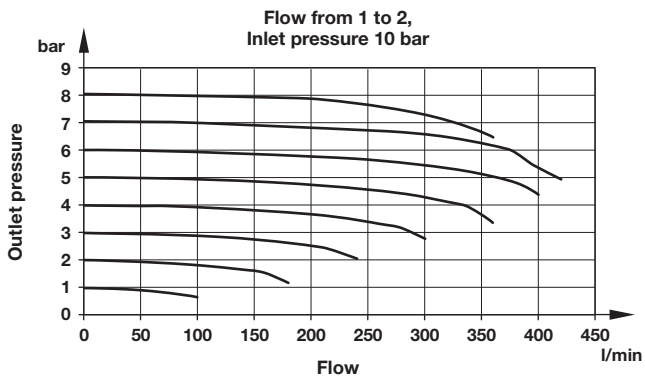
Connecting plugs

<p>Straight connector M12 x 1</p>  <p>Page 5</p> <p>02523822 (5-pin, A coded, 5 m cable, 5 x 0,34 mm²)</p> <p>0252563 (5-pin, A coded, wireable, straight)</p> <p>—</p>	<p>90° connector M12 x 1</p>  <p>Page 5</p> <p>0250081 (5-pin, A coded, 5 m cable, 5 x 0,34 mm²)</p> <p>0250472 (5-pin, A coded, 10 m cable, 5 x 0,34 mm²)</p> <p>0252543 (5-pin, A coded, wireable)</p>
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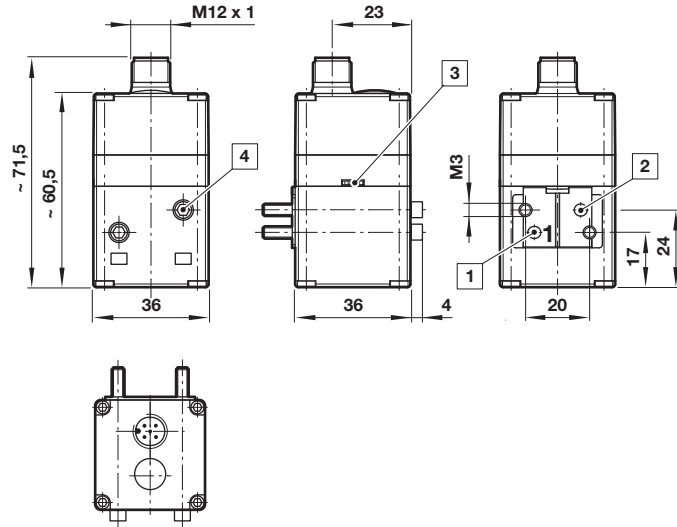
Electrical diagram



Pin-No.	Function	
1	+UB	Power supply
2	w	Setpoint input
3	SGnd	Ground setpoint
4	PGnd	Power ground
5	x	Actual value
Chassis (earth)	⊕	Protective ground

**Pneumatic characteristic curves
Static characteristics**

Characteristic curves


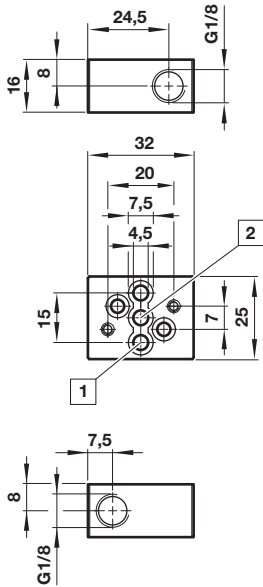
Basic dimensions



Dimensions in mm
Projection/First angle

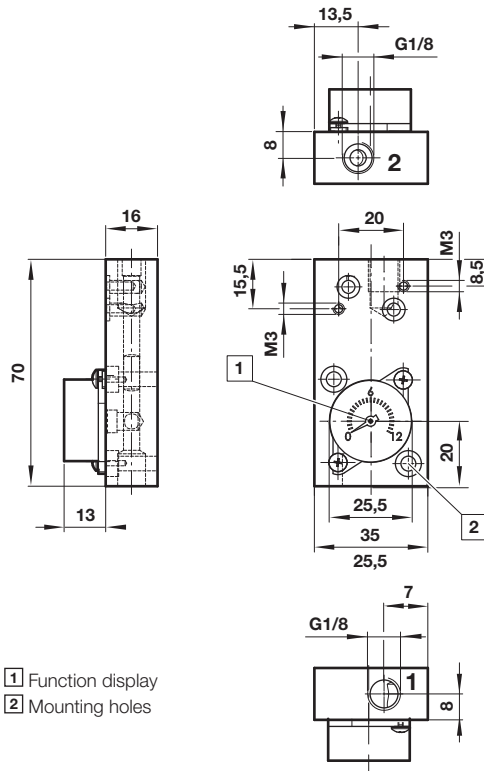


Single connection plate



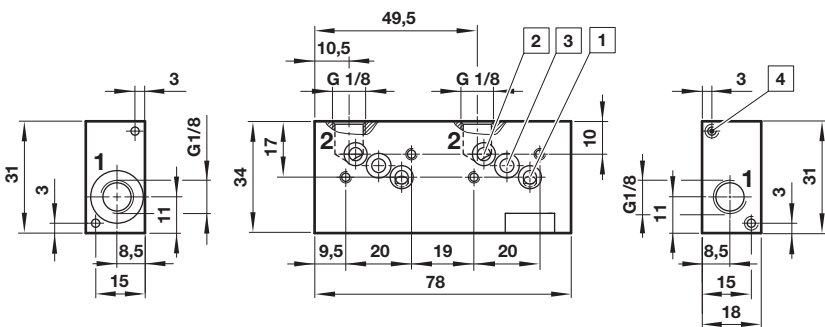
- 1 Mounting holes
- 2 Mounting holes for DIN - rail

Connection plate with function display



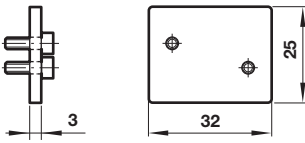
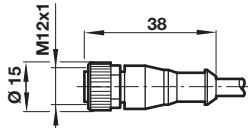
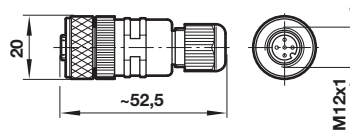
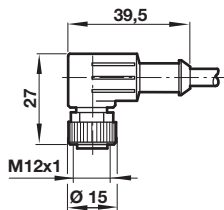
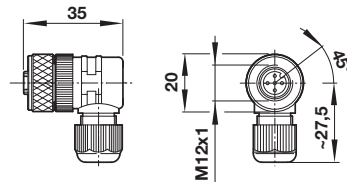
- 1 Function display
- 2 Mounting holes

Double connection plate



- 1 Port 1
- 2 Port 2
- 3 Mounting holes for DIN - rail
- 4 Threads (M3) for additional double connection plate

Blanking plate

 Dimensions in mm
Projection/First angle

Connector, straight
0523822

Connector, straight
0522563

Connector, 90°
0250472, 0250081

Connector, 90°
0252543

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 IMI 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.