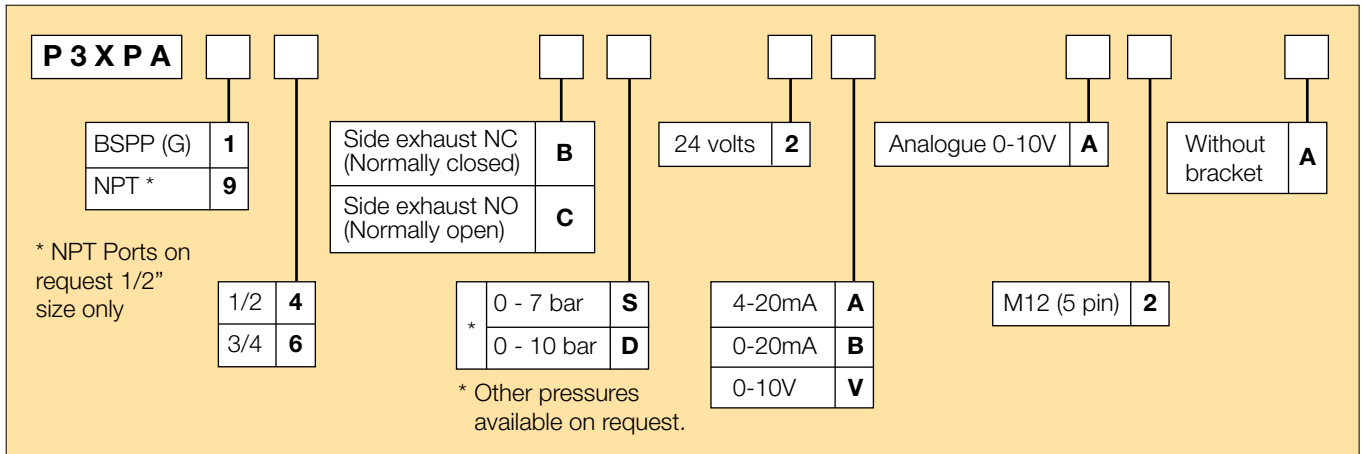


**Proportional Pressure Regulator**



- Integral 1/2" or 3/4" ports (BSPP & NPT)
- Accurate output pressure
- Very fast response times
- Robust but lightweight design.

**Options:**



**Popular options:**

Port size	Description	Order Code	Control signal	Output signal	Output pressure	Weight kg
1/2	Normally closed	<b>P3XPA14BD2VA2A</b>	0 - 10 V	0 - 10 V	0 - 10 bar	0.75
3/4	Normally closed	<b>P3XPA16BD2VA2A</b>	0 - 10 V	0 - 10 V	0 - 10 bar	0.75

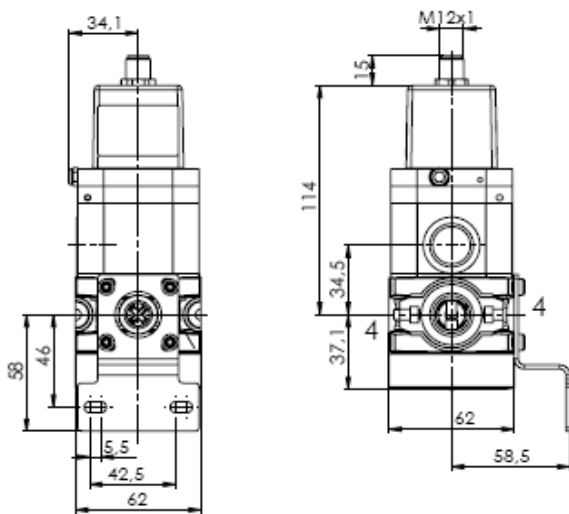
**Technical Information**

Operating pressure range	P <sup>1</sup> min	1 bar
Inlet pressure <sup>1)</sup>	P <sup>1</sup> max	16 bar
Operating pressure range	P <sup>2</sup> min	0.2 bar
Outlet pressure	P <sup>2</sup> max	10 bar
Operating Temperature	0°C to +50°C	
Maximum Flow <sup>2)</sup>	Q <sub>n</sub>	dm <sup>3</sup> /s 160
Hysteresis	P <sup>2</sup> max	< 1%
Repeatability	P <sup>2</sup> max	< 0.5%
Sensitivity	P <sup>2</sup> max	< 0.5%
Linearity	P <sup>2</sup> max	< 1%
Nominal voltage	U <sub>n</sub> V DC	24V = ±10%
Residual ripple	10%	
Power consumption	I <sub>Bmax</sub>	0.15 A
Set value input	U <sub>w</sub> V	0 - 10
	I mA	0 - 20
	I mA	4 - 20
Input resistance	R <sub>E</sub>	243 K $\Omega$
Actual valve output	U <sub>x</sub>	0 - 10 V
Output current	I <sub>Amax</sub>	10 mA
Degree of protection	IP65 to DIN 40050, EN 60529	

1)  $p_1 > p_2 + 10\% p_2$

2) at  $p_1 - 10$  bar to  $p_2 - 6.3$  bar

**Dimensions (mm)**



\* Two opposite gauge ports G1/4, plug screw mounted

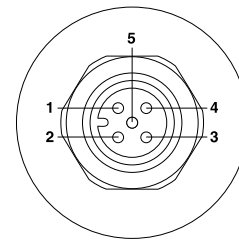
\*\* Connection for 5-pin plug M12 x 1

\*\*\* Exhaust port 1/2"

**Material Specification**

Body:	High tech polymer
Booster valve:	Brass / Nitrile
Standard seals:	NBR
Body cover screws:	Steel / zinc plated
Body Cover:	Aluminium
Pilot piston:	Aluminium / Nitrile
Exhaust piston:	Brass / Nitrile
Electronic cover:	Zinc

**Connection diagram**



**Connector M12 x 1**

**Pin 1:**  
 Power supply  
 Plus +24 V DC ± 10%  
 0.15 A  
 Residual ripple 10%

**Pin 2:**  
 Power supply 0 V  
 Reference and mass capacity  
 for set value and actual value

**Pin 3:**  
 Set value input  
 0 - 10 V

**Pin 4:**  
 0 V set signal  
 (connected on board  
 with pin 2 as standard)

**Pin 5:**  
 Analogue actual value output  
 0 - 10 V  
 Tolerance ± 0.15 V

**Flow characteristics**

