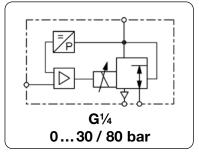
# HIGH PRESSURE PROPORTIONAL PRESSURE REGULATOR UP TO 80 BAR

Technical features					
<ul> <li>Pressure range</li> </ul>	030 bar to 080 bar	<ul> <li>Linearity / Hysteresis</li> </ul>	± 3% FS		
<ul> <li>Command signal</li> </ul>	0-10 V, 0-20 mA, 4-20 mA	<ul> <li>Response sensitivity</li> </ul>	± 3% FS		
Output signal	0-10 V, 0-20 mA, 4-20 mA	Repeatability	± 3% FS		
<ul> <li>Regulating time</li> </ul>	< 1 s	<ul> <li>Protection class</li> </ul>	IP65		
• Flow rate	40 l/min	<ul> <li>Relief capacity</li> </ul>	full nominal size		



PHP

### **General technical features**

Design	3-port/2-way valve with proportional magnet and digital control			
Mounting position	any, preferably upright			
Protection class	IP65 with mounted coupling socket			
Temperature range	0 °C to 60 °C / 32 °F to 140 °F, media- and ambient temperature			
Material	Body: Inner valve: Seals:	aluminium stainless steel FPM, NBR/Buna-N, TPS		

### **Pneumatic features**

Media	dry, lubricated, unlubricated and 50 $\mu m$ filtered compressed air or non-corrosive gases
Supply pressure	see chart
Flow rate	up to 40 l/min, at 6 bar supplay pressure and 5 bar outlet
Nominal size	DN 1.0, DN 1.2
Exhaust	same nominal size as on inlet valve, thus same relief capacity
Air consumption	without air consumption

#### **Electrical features**

Supply voltage	24 V DC ± 10%
Electrical connector	M12, 5-pin, with coupling socket
Power consumption	max. 24 W
Current consumption	max. 1000 mA
Command Signal	0-10 V, 0-20 mA, 4-20 mA
Impedance	100 k $\Omega$ at voltage signal
	250 Ω at current signal
Feedback signal	0-10 V, 0-20 mA, 4-20 mA
Pressure switch	adjustable via software

## Accuracy

Linearity / Hysteresis	± 3% FS
Response sensitivity	± 3% FS
Regulating time	< 1 s
Repeatability	± 3% FS
Over all accuracy	± 3% FS

## Adjustment

Zero point	The zero point and the end value can be changed in $\%$
Types of regulation/reinforcemen	t Different types of regulation can be set in the software. P, PI and PID valves can be changed with all individual parameters.
Diagnosis Characteristic curve	A diagnostic tool is available in the software. The characteristic curve can be adjusted upwards and downwards, the standard is upwards.

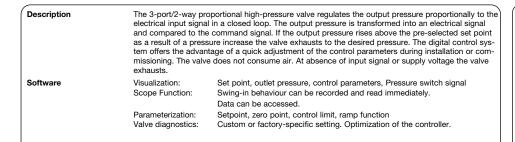
Prop.-D

# HIGH PRESSURE PROPORTIONAL PRESSURE REGULATOR UP TO 80 BAR

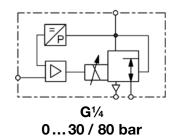
Connection

Order

Pressure



Supply



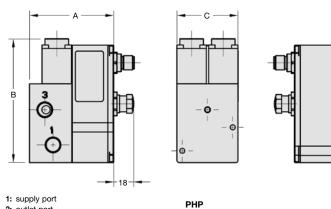


PHP

A mm	<b>B</b> mm	C mm	<b>weite</b> DN	<b>value</b> (m³/h)	<b>rate</b> I/min <sup>*</sup>	max. bar	<b>thread</b> G	<b>range</b> bar	number E*
Prop	oortic	onal j	pressu	re regi	ulator	0-10 V input sign Supply 24 V DC,		<sub>cket</sub> Ph	łP
72	105	52	1.0	0.035	40	40	G1⁄4	030	PHP00-3000
						50		040	PHP00-4000
						60		050	PHP00-5000
						70		060	PHP00-6000
						80		070	PHP00-7000
						90		080	PHP00-8000
Spe	cial c	ptio	ns, appro	priate letter	or number				

<b> </b>			
setpoint input	0-20 mA		PHP. <b>1-</b>
	4-20 mA		PHP. <b>2</b>
feedback output	0-10 V		PHP <b>1</b>
	0-20 mA		PHP <b>2</b>
	4-20 mA		PHP <b>3</b>
nominal size DN1,2	$K_v$ value 0.048, V=54 l/min	to PHP5000	PHP <b>X101</b>

Accessories, enclosed	I			
PR module	USB programming	ble	PHPUSB	
Software	Basic version "Light"			PHPSOFT1 <sup>*2</sup>
coupling socket	M12x1, 5-pin with	2 m cable, 5 x 0.25	angular	KM12-C5-2





Dimensions

Nenn-

K<sub>v</sub>-

Flow

3: exhaust

 $^{\star1}$  at 6 bar supply pressure and 5 bar outlet pressure \*2 You do not need any software to use the valve!

> PDF CAD www.aircom.net

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2 0

> Power supply negativ feedback signal pressure switch Body emc shielding

Ο

2

4

0 05 3 0

0

Description supply voltage

input signal

view from solder pin side

Connection plan



Pin

1 2

3

4

5

Order example: PHP00-3000