

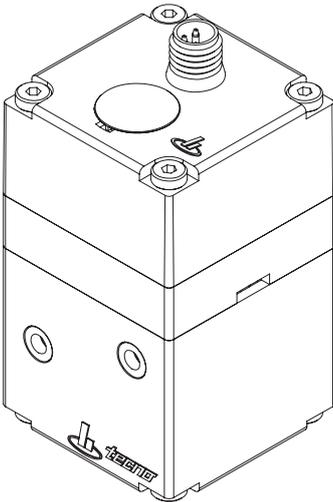
TECNO EASY

Piezo-controlled pneumatic pressure regulator,
electronically controlled

Technical Data

EN MET


HOERBIGER



GENERAL PROPERTIES

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GENERAL PROPERTIES

Type	PRE-U3 - Target value via voltage
Function	Proportional 3/2-way NC
Actuation type	Piezoelectric pilot
Constructive structure	Seat valve
Connection type	Flange ¹⁾
Weight	0.100 kg
Installation position	Any
Protection type	IP 30 (DIN EN 60529 A1: 2000)
Storage temperature	-20 °C to +60 °C
Ambient temperature	0 °C to +50 °C
Medium temperature	0 °C to +50 °C
Material housing	PA-GF
Materials in contact with media	CuZn; CuNi
Material seals	NBR; ECO
Behavior in case of energy failure	Port 2 venting
RoHS-Conformity	RoHS 2011/65/EU
Media ²⁾	Compressed air and neutral gases
Media quality	According to ISO 8573-1:2010 (6:3:4)
Flow direction on	From 1 to 2
Flow direction off	From 2 to 3

¹⁾ Base plates for threaded connection see accessories

²⁾ Other media only after approval by the manufacturer

PNEUMATIC PROPERTIES

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PNEUMATIC PROPERTIES

TECNO EASY	0–8 BAR
Input pressure min ($p_{1_{\min}}$)	1.5 bar
Input pressure max ($p_{1_{\max}}$)	10 bar
Output pressure min ($p_{2_{\min}}$)	0 bar
Output pressure max ($p_{2_{\max}}$)	8 bar
Nominal flow rate 1 to 2 (Q_N) ¹⁾	200 l/min
Max. flow rate 1 to 2 (Q_{\max}) ²⁾	360 l/min
Hysteresis ³⁾	< 0.2 %
Repeatability ³⁾	< 0.2 %
Responsiveness ³⁾	< 0.1 %
Linearity ³⁾	<2.5 %
Leakage ²⁾	≤ 0.75 l/min
Own air consumption ⁴⁾	≤ 1 l/min

¹⁾ Measured at p_1 = nominal pressure and pressure drop 1 bar

²⁾ Measured at $p_{1_{\max}}$ and $p_2 = 0$ bar

³⁾ Related to final value $p_{2_{\max}}$

⁴⁾ Only with target value > 0

ELECTRICAL PROPERTIES

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ELECTRICAL PROPERTIES

Type	PRE-U3
Electromagnetic compatibility (EMC)	
Immunity to interference ¹⁾	EN 61000-6-2
Emitted interference ¹⁾	EN 61000-6-4
Electrical connection	M8; 3-Pin
Supply	
Nominal voltage (U_N)	24 V DC \pm 10%
Max. residual ripple (U_N)	10%
Current consumption (I_{Bmax})	15 mA
Nominal power (P_N)	0.4 W
Target value input	
Target value setting (W)	0 to 8 V DC
Input resistance (R_e)	\geq 66 kOhm

RESOLUTION

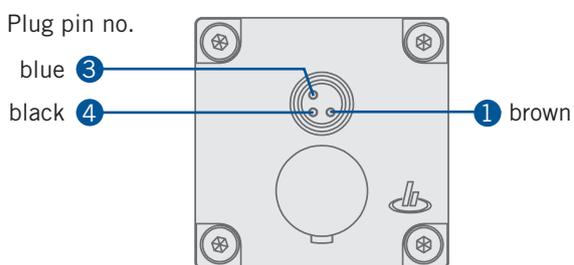
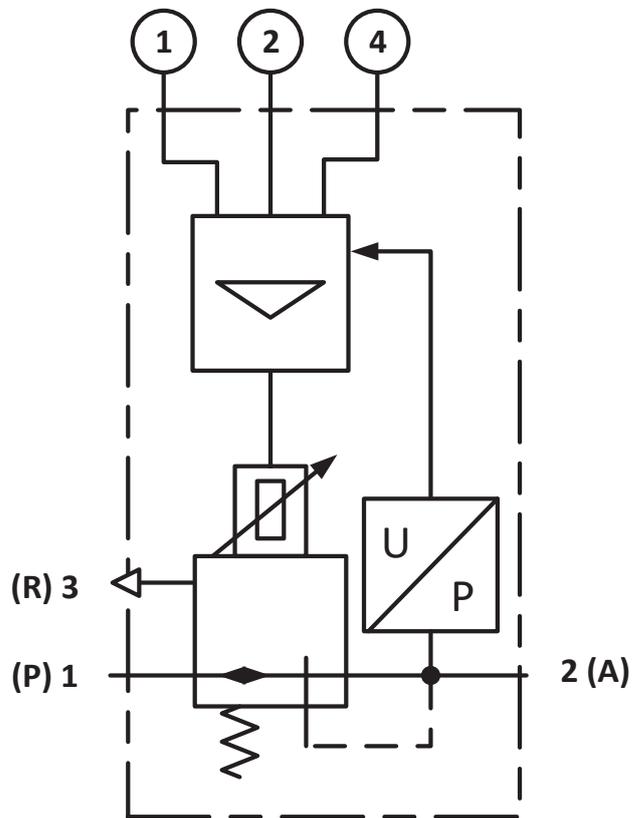
Target value input	
Resolution (W/ p_2)	1 V/bar

¹⁾ When using shielded connection cables

INTERFACES

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PRE-U3



Connection diagram

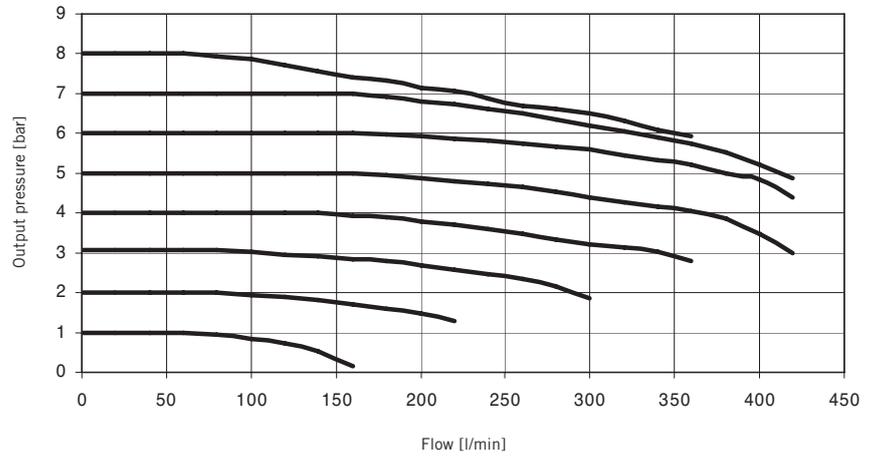
1	Power supply 24 V DC / 15 mA
3	GND target value and supply
4	Target value input (voltage)

FLOW CURVES

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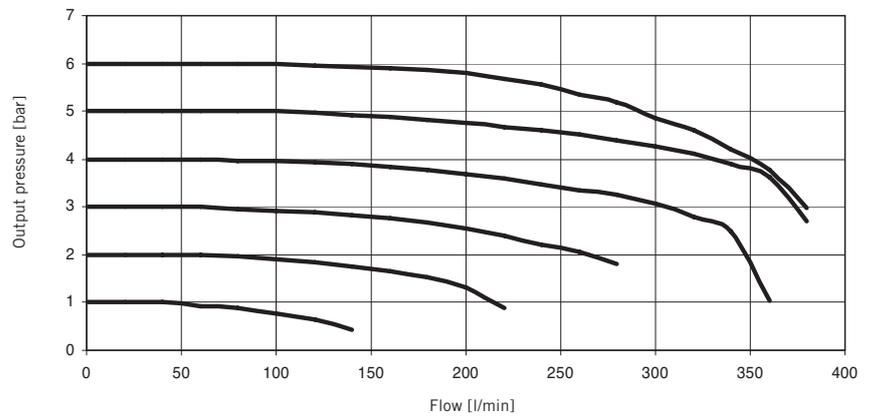
FLOW FROM 1 TO 2

Input pressure 10 bar

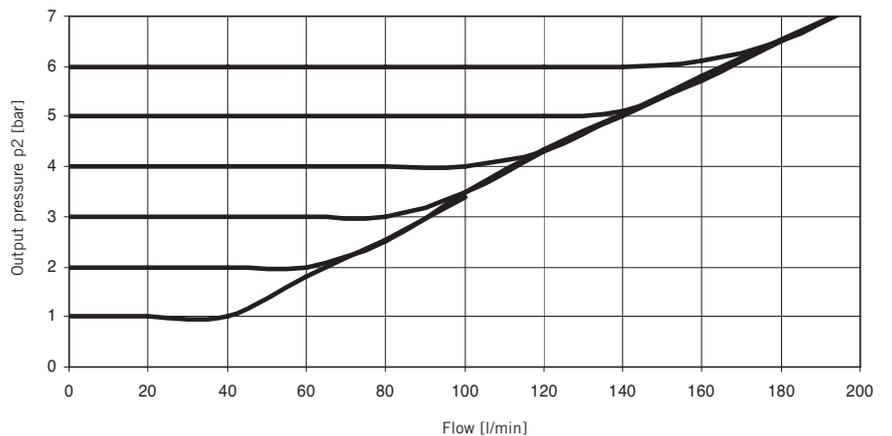


FLOW FROM 1 TO 2

Input pressure 7 bar



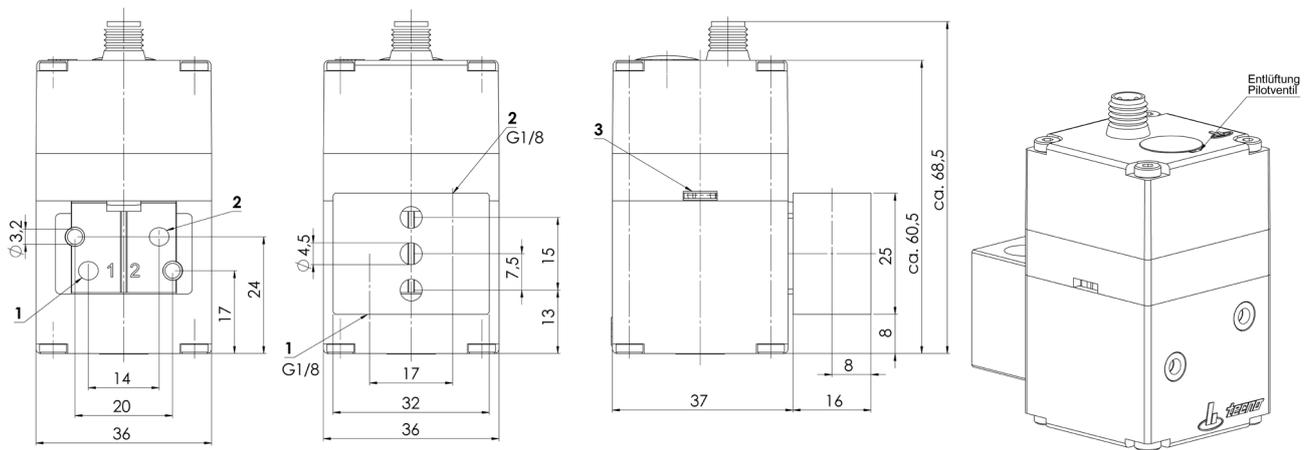
FLOW FROM 2 TO 3, EXHAUST



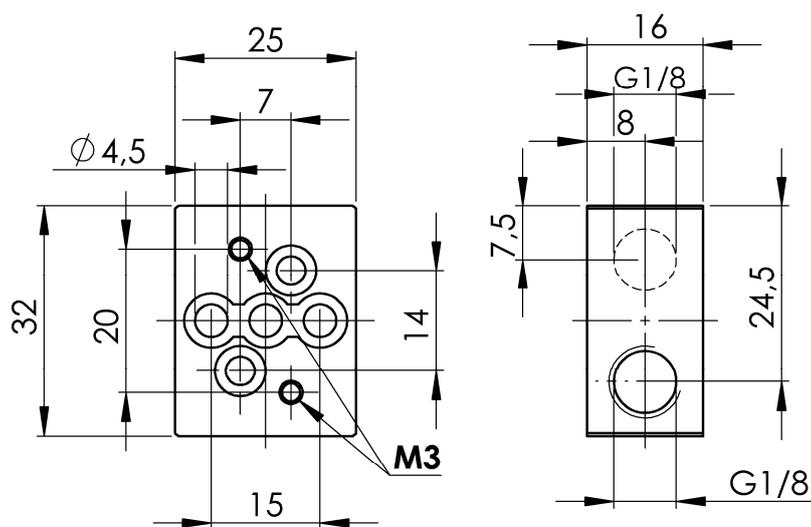
DIMENSIONS

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WITH BASE PLATE



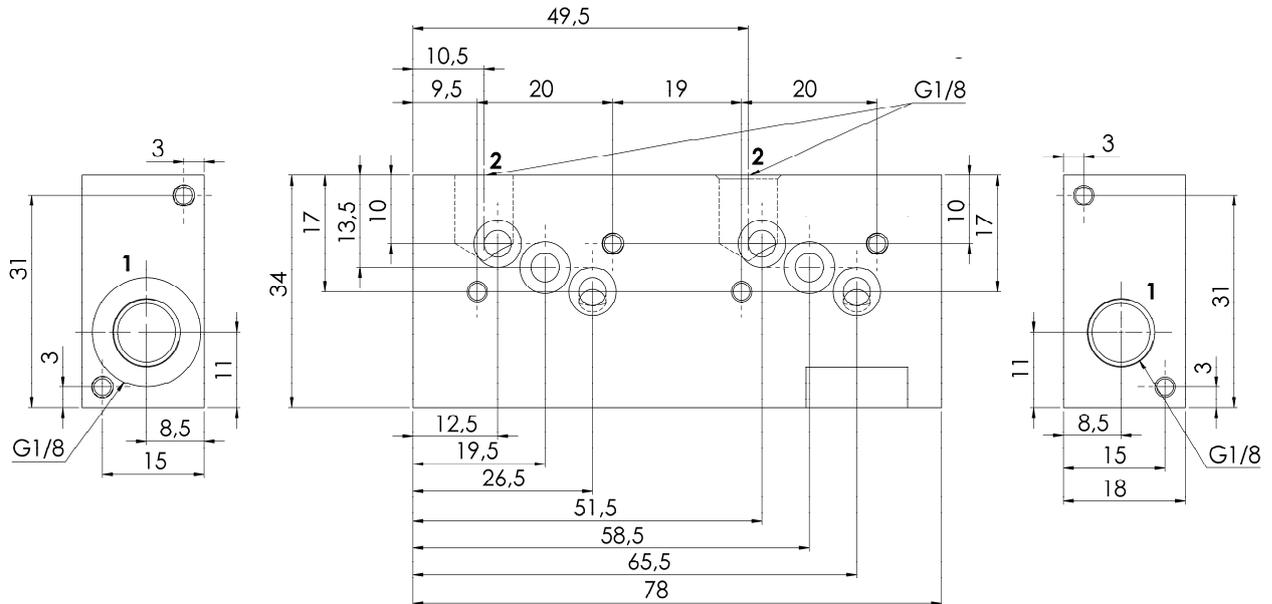
PS11112-A-01 BASE PLATE WITH FLANGE CONNECTION



DIMENSIONS

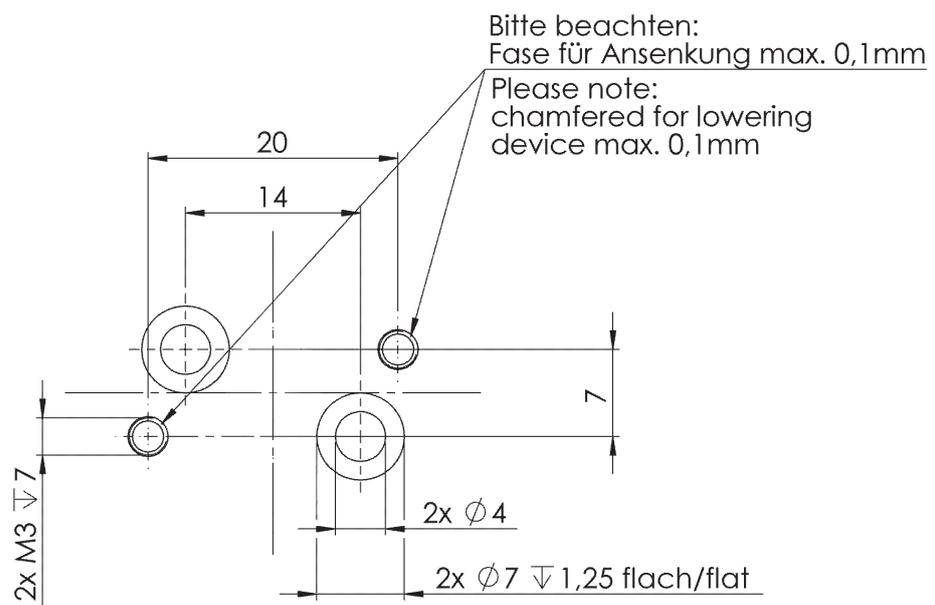
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PS12407 BASE PLATE 2-FOLD, STACKABLE WITH FLANGE CONNECTION



All fastening screw thread M3

DETAIL FLANGE CONNECTION



ACCESSORIES

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ACCESSORIES

ORDER NO.

	Base plate 1-fold for mounting one valve \ G 1/8"	PS11112-A-01
	Base plate 2-fold for mounting 2 valves, stackable \ G 1/8"	PS12407
	Blind plate to close flange surface base plate	PS11160
	Fastening set for DIN Rail, 35 mm, EN 60715:2001 (incl. 1 x screw M4x16)	PS12368
	Connecting cable straight with plug connector straight \ M8; 3-pole \ 5 m	KC3104
	Connecting cable angled with plug connector angled \ M8; 3-pole \ 5 m	KC3106

ORDER KEY

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ID NUMBER KEY

						1		2		3	4	5			
ID NUMBER	PS	1	2	0	2	0	0	-	0	8	0	-	0	x	x
	PS	1	2	0	2	0	0	-	0	8	0	-	0	1	5

1 Valve version-Target value

00	Voltage
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2 Pressure range

080	8 bar
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3 Device version

0	Standard
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4 Connection cable*

0	Without cable and plug connector
1	Cable with plug connector straight (3 Pin)

5 Flange*

0	Without flange
5	Lateral G1/8"

* See accessories

Other variations on request

CONVERSION FACTORS

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CONVERSION FACTORS

VALUE	UNIT	CONVERSION UNIT	FACTOR
Length	mm	in	0.03934
	in	mm	25.4
	m	ft	3.28084
	ft	m	0.3048
Weight	kg	lb	2.204622
	lb	kg	0.453592
Pressure	bar	psi	14.5035
	psi	bar	0.06895
	MPa	psi	145.035
	psi	MPa	0.006895
	bar	MPa	0.1
	MPa	bar	10
Temperature	°C	°F	$1.8 \text{ } ^\circ\text{C} + 32$
	°F	°C	$0.5556 \text{ } ^\circ\text{F} - 32$
Torque	Nm	ft/lbs	0.7375
	ft/lbs	Nm	1.3558

ADDITIONAL DOCUMENTATION

Tecno Easy

WWW.HOERBIGER.COM

This data sheet and additional documentation is available in the download area of the company's website.



www.hoerbiger.com

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