

P2V

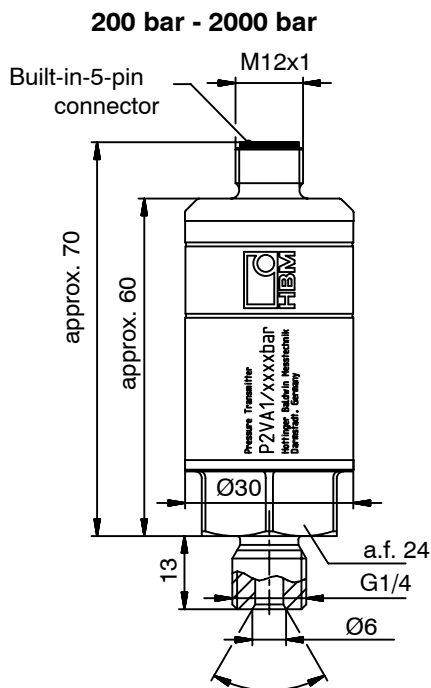
Pressure transmitter

Special characteristics

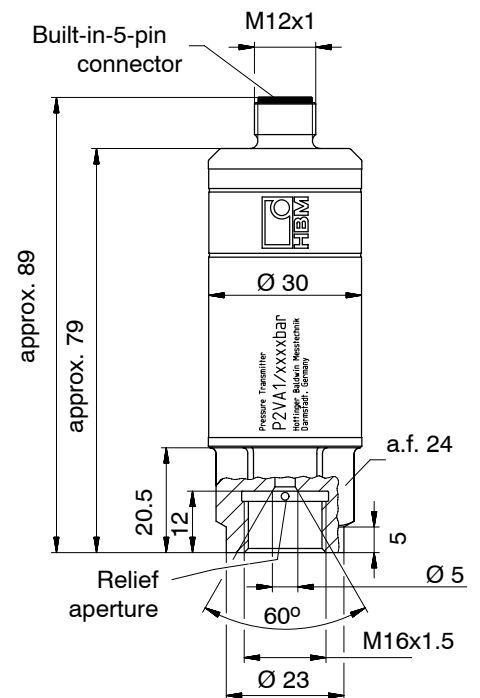
- One-piece steel measuring body
- No weld seam to medium
- Integrated high-quality amplifier
- Nominal (rated) pressures from 200 bar up to 5,000 bar
- Extreme reliability and long service life



Dimensions (in mm)



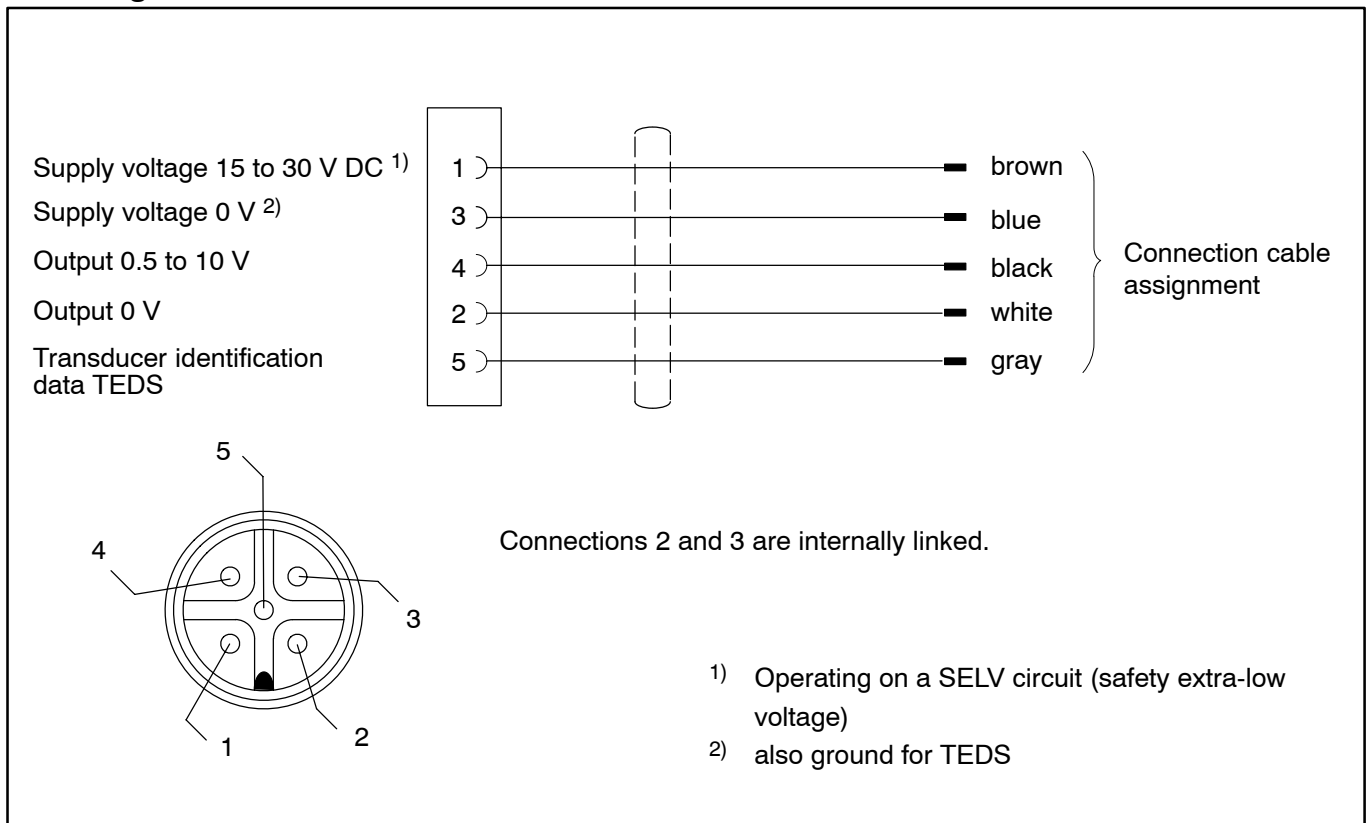
3000 bar - 5000 bar



Specifications according to DIN 16086

Type	P2V	
Measuring ranges	bar	200, 500, 1000, 2000, 3000, 5000
Input quantities		
Pressure type		Absolute pressure
Accuracy class		0.2 (5000 bar: 0.4)
Initial value	bar	0
Operating range at reference temperature	%	105
Overload limit at reference temperature	%	150
Test pressure	%	200 (3000 bar and 5000 bar: 150 %)
During dynamic loading		
Permissible pressure	%	100
Permissible vibration amplitude according to DIN 50 100	bar	70
Dead volume approx.	cm ³	0.8
Control volume , approx.	mm ³	1.5
Output characteristics		
Transducer identification		TEDS
Nominal (rated) sensitivity	V	0.5 to 10
Sensitivity tolerance	mV	10 (5000 bar: 20)
Temperature influence on zero signal in the nominal (rated) range of the excitation voltage per 10K, by reference to the nominal (rated) sensitivity	%/10K	0.2
Effect of temperature on sensitivity in the nominal (rated) range of the excitation voltage per 10K, by reference to the actual value	%/10K	0.2
Characteristic curve deviation (start setting)	%	0.2
Repeatability according to DIN 1319	%	< ± 0.05
Cut-off-frequency - 3 dB - 1 dB	kHz kHz	4.5 2
Burden , min.	kΩ	10
Auxiliary energy		
Reference voltage	V	24
Nominal (rated) range	V	15 to 30
Max. current consumption	mA	25
Max. power consumption	W	1.5
Effect of supply voltage on changing from 15 to 30 V	%	0.02
Ambient conditions		
Reference temperature	°C	+23
Nominal (rated) temperature range	°C	0 to + 70
Operating temperature range	°C	-20 to + 85
Storage temperature range	°C	-40 to +85
Impact resistance (tested to DIN 40 046)		
Impact acceleration	m/s ²	650
Impact duration	ms	4
Impact form		Half sine wave
Vibration resistance (tested to DIN IEC 68)	m/s ²	150
Mechanical specifications		
Pressure connection		G1/4 outside, 5000 bar: M16 x 1,5
Seal		Metal, edge pressure, 58° cone Seal attached to transducer for assembly purposes
Seal position		
Starting torque	Nm	30
Electrical connection		M12 x 1 / 5-pin connector
Mounting position		Any, but preferably pressure connection uppermost for venting purposes
Dimensions Length (without pressure connection and mating connector) Maximum diameter	mm mm	70 (5000 bar: approx. 80) 30
Hexagon, across flats	mm	24
Weight without cable , approx.	g	200
Cable length	m	5
Protection system		IP67

Pin assignment



Accessories:

Included in the scope of supply:

- 1 pack with 2 x 58-degree tapered gaskets with retaining spring¹⁾
- 1 x 5 m cable, cable socket, M12x1 with screen, 5-pin. PUR

Order No.: 2-9278.0371
Order No.: 3-3301.0185

Accessories (not included among the items supplied)

Connection adapter for measuring ranges less than 3000 bar

- Connection adapter G1/4 internal thread, M20x1.5 external thread
- Connection adapter G1/4 internal thread, G1/2 external thread
- Pack with 2 x 58-degree tapered gaskets with retaining spring
- 5 m cable, cable socket, M12x1 with screen, 5-pin. PUR

Order No.: 1-Adapt-G1/4-M20
Order No.: 1-Adapt-G1/4-G1/2
Order No.: 2-9278-0371
Order No.: 3-3301.0185

¹⁾ for measuring ranges from 200 bar up to 2000 bar

Subject to change without notice.
All specifications refer to our products in general terms.
They do not constitute a warranty of quality and do not
establish liability.

B1563-1.3 en

Hottinger Baldwin Messtechnik GmbH

Postfach 10 01 51, D-64201 Darmstadt, Germany
Im Tiefen See 45, D-64293 Darmstadt, Germany
Tel.: (+49) 6151 8030; Fax: (+49) 6151 803 9100
E-mail: support@hbm.com www.hbm.com



measurement with confidence