

THIN-FILM PRESSURE TRANSMITTER

BTT 26

"Thin-Film Steel Diaphragm, Suitable for Chemical Applications, Resistant to Vibrations"



- Completely welded thin-film steel diaphragm structure that does not require o-ring
- 26 mm diameter stainless steel housing
- Different options up to 2000 Bar
- 4...20mA / 0...10VDC / 0,5...4,5V ratiometric etc. different analogue output options
- Resistant to vibrations
- Resistant to chemicals
- EMC and reverse polarity protection
- High accuracy and stability
- Excellent long-term operation

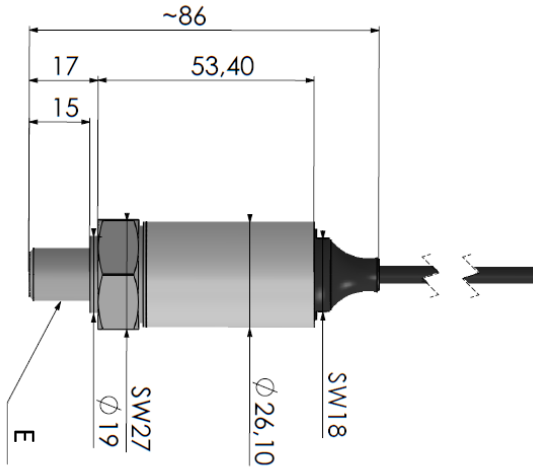
BTT 26 series pressure transmitter is resistant to vibrations and ideal for use in difficult areas such as chemical applications with its completely welded thin-film steel diaphragm structure. Various analog output, mechanical connection and connector options are optionally available.

APPLICATIONS

- Machine tools
- Hydraulics
- HVAC
- Refrigeration
- Process technology
- Water treatment

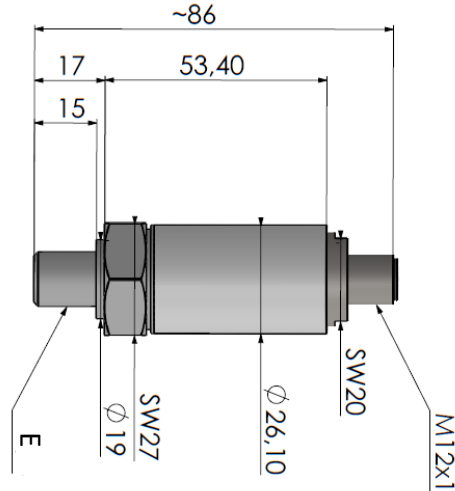
MECHANICAL DIMENSIONS (mm)

CABLE



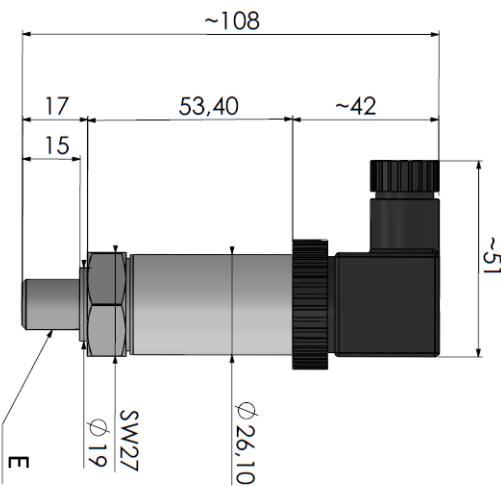
E (Process connection) : G1/4, M12x1.5 (Opt. others)

M12 CONNECTOR



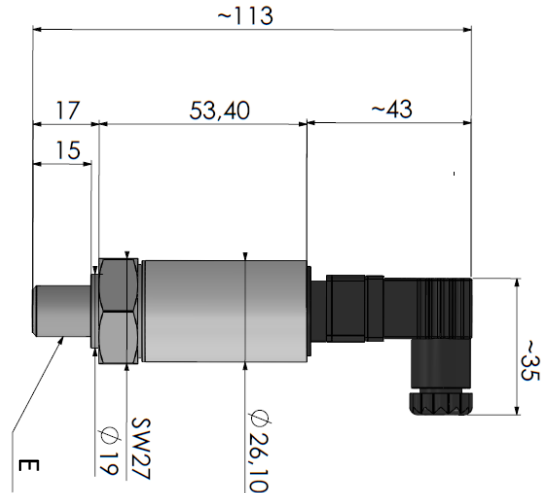
E (Process connection) : G1/4, M12x1.5 (Opt. others)

DIN43650-A CONNECTOR



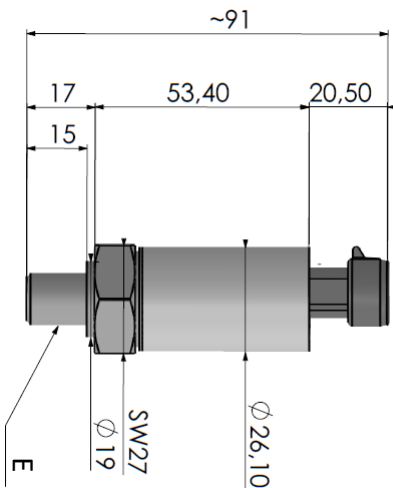
E (Process connection) : G1/4, M12x1.5 (Opt. others)

DIN43650-C CONNECTOR



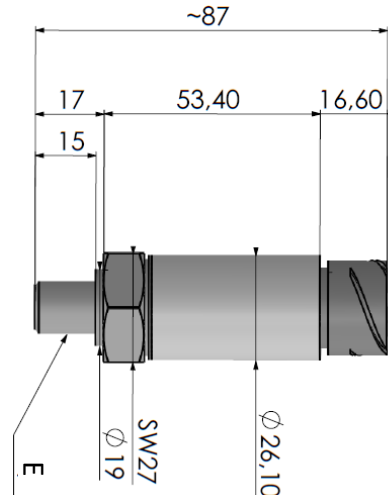
E (Process connection) : G1/4, M12x1.5 (Opt. others)

PACKARD CONNECTOR



E (Process connection) : G1/4, M12x1.5 (Opt. others)

CIRCULAR CONNECTOR

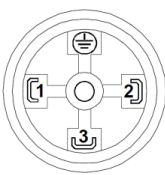
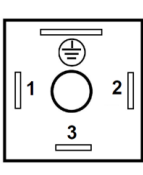
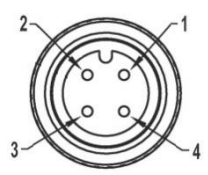
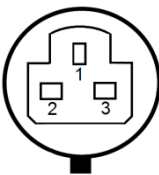
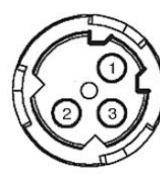
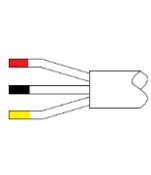


E (Process connection) : G1/4, M12x1.5 (Opt. others)

TECHNICAL SPECIFICATIONS

Measuring Principle	Thin-film on steel diaphragm					
Measuring Range	316L (standard)	Options from 0...5 Bar to 0...1000Bar				
	17-7PH (optional)	Options from 0...5 Bar to 0...2000Bar				
Proof Pressure	316L	%150FS				
	17-7PH	%300FS <1000Bar, %150FS ≥1000Bar				
Burst Pressure	316L	%500FS				
	17-7PH	%500FS <1000Bar, %300FS 1000Bar ≤pressure≤ 2000Bar				
Output Signal	4...20mA (2 wire)	0...20mA (3 wire)	0...10VDC	1...6VDC	0...5VDC	Ratiometric
Supply Voltage	8 ... 32 VDC	12 ... 30 VDC	12 ... 30 VDC	12 ... 30 VDC	12 ... 30 VDC	5 VDC
Operating current	30 mA max.					
Accuracy	%0.5FS (@0°C~70°C)					
Long Term Stability	≤±%0.2 FS/ year					
Zero offset temperature coefficient	≤±%0.03 fso/°C					
Span temperature coefficient	≤±%0.03 fso/°C					
Response time	25ms (standard) %10...%90 nominal pressure					
	1ms, 5ms, 125ms (optional, only available on models with current output)					
Life Time	1x10 ⁸ cycles					
Operating Temperature	-40°C ... +85°C					
Storage Temperature	-40°C ... +85°C					
EMC Protection	Immunity	IEC 61000-6-2				
	Emission	IEC 61000-6-3				
Insulation Resistance	100MΩ/250VDC					
Electrical Connection	DIN43650-A, DIN43650-C, M12, Packard, Circular Connector or Cable					
Process Connection	G1/4, M12x1,5 (optional others)					
Mounting Torque	15 ... 20 Nm					
Material	O-Ring			Viton		
	Wetted parts (sensor and process connection)			17-7PH or 316L		
	Housing			304L or 316L		
Protection	IP65 or IP67 **IP67 protection is provided if connector models are equipped with press-printed connectors.					

ELECTRICAL CONNECTIONS

							
		DIN D43650-A	DIN D43650-C	M12 / 4 pin	PACKARD	CIRCULAR	CABLE
		S30	S31	S12 S15	S32	S33	COLOR
		PIN NO	PIN NO	PIN NO	PIN NO	PIN NO	
CURRENT OUTPUT	+Vcc	2	2	2 1	B	1	RED
	Analog Out	1	1	1 3	C	2	BLACK
VOLTAGE OUTPUT	+Vcc	2	2	2 1	B	1	RED
	GND	1	1	1 3	C	2	BLACK
	Analog Out	3	3	3 2	A	3	YELLOW

* For IP67 protection at model with connectors, press-printed cable should be used. Otherwise, it can not be used under IP67 conditions.

** PVC cable is used as standard in the model with cable.

*** On models with the PACKARD socket, the letter of pin numbers are 1(C) , 2(B) , 3(A).

**** Only S30 socket type can be selected for 3-wire 0-20mA analog output. Other socket types or wired models cannot be selected.

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PRESSURE RANGE SELECTION

17-7PH SENSOR			
Code	Pressure Range	Overpressure	Burst Pressure
5Bar	0~5 Bar	%300FS	%500FS
10Bar	0~10 Bar	%300FS	%500FS
25Bar	0~25 Bar	%300FS	%500FS
40Bar	0~40 Bar	%300FS	%500FS
60Bar	0~46 Bar	%300FS	%500FS
100Bar	0~100 Bar	%300FS	%500FS
250Bar	0~250 Bar	%300FS	%500FS
400Bar	0~400 Bar	%300FS	%500FS
600Bar	0~600 Bar	%300FS	%500FS
1000Bar	0~1000 Bar	%150FS	%300FS
1600Bar	0~1600 Bar	%150FS	%300FS
2000Bar	0~2000 Bar	%150FS	%300FS

316L SENSOR			
Code	Pressure Range	Overpressure	Burst Pressure
5Bar	0~5 Bar	%150FS	%500FS
10Bar	0~10Bar	%150FS	%500FS
16Bar	0~16 Bar	%150FS	%500FS
25Bar	0~25 Bar	%150FS	%500FS
40Bar	0~40 Bar	%150FS	%500FS
60Bar	0~60 Bar	%150FS	%500FS
100Bar	0~100 Bar	%150FS	%500FS
160Bar	0~160 Bar	%150FS	%500FS
250Bar	0~250 Bar	%150FS	%500FS
400Bar	0~400 Bar	%150FS	%500FS
600Bar	0~600 Bar	%150FS	%500FS
1000Bar	0~1000 Bar	%150FS	%500FS

ORDER CODE

Output Signal

Voltage Output Product
V : 0-10VDC (standard)
V1 : 0-5VDC
V2 : 1-6VDC
V3 : 0,5-4,5VDC
V4 : 0,5-5,5VDC
V5 : 1-5VDC
V6 : 1-10VDC

Ratiometric Products
V8 : Ratiometric 0.5-4.5VDC
V9 : Ratiometric 0-5VDC

Current Output Products
A : 4-20mA (2-wire) (standard)
A0 : 0-20mA (3-wire)

* Ask for other options.

Electrical Connection

S12 : M12x1 4 pin
S13 : M12x1 5 pin (for CANopen output)
S15 : M12x1 4 pin (1 supply, 3 output)
S30 : DIN43650-A type large type connector
S31 : DIN43650-C type small type connector
S32 : Packard connector
S33 : Circular connector
2M : 2 meters cable

*Only S30 socket can be selected for 3-wire 0-20mA (A0) analog output. Other socket types or wired models cannot be selected.

* Ask for other options.

Housing Material

E304 : 304L
E316 : 316L

* Ask for other options.

BTT 26 — 10Bar — V8 — M12x1,5 — S32 — E306 — E304

Pressure Range

Different options from 10 Bar to 2000 Bar

*See page4, pressure selection table

Process Connection

G1/4 : G1/4 Connection
M12x1,5 : M12x1,5 Connection

* Ask for other options.

Sensor Material

E177PH : 17-7PH (standard)
E316 : 316L (optional)

Sample Order Code: BTT26 -10Bar-V8-M12x1,5-S32-E316-E304