

Pressure ranges from 0...1 bar to 0...25 bar



Advantages / Benefits

- ▶ Easy LINK for direct connection to Burkert control valves.
- ▶ Wetted parts and housing complete out of stainless steel
- ▶ Welded sensor cell without additional sealing material
- ▶ Outstanding EMI-features (20 V/m IEC 801-3)
- ▶ Medium temperatures -40°C to +100°C
- ▶ Easy to connect by just 2-wire 4... 20 mA output
- ▶ Accuracy <1%
- ▶ Repeatability <0.1%
- ▶ Long term stability <0.3%

Design

High quality piezo measurement cells and thin film technology are the basics for the 8320 product line's excellent detection of pressure in demanding applications.

The design of the internal electronics and careful selection of the electronic components ensure reliable, long term signal processing and excellent EMI properties.

Stainless steel is used as the base metal for cases and wetted parts. Welded measuring cells completely eliminate the need for internal seals.

Innovative manufacturing processes and high-quality components guarantee consistency and long term stability.

The connection between high product quality and superior price/performance is the basis of the 8320 product philosophy and creates new standards.

Application

Pressure measurement and control with Easy link

Control for Steam applications

Purification systems

Filtration systems for Food and Pharma

Food industry

Tooling

Automation control

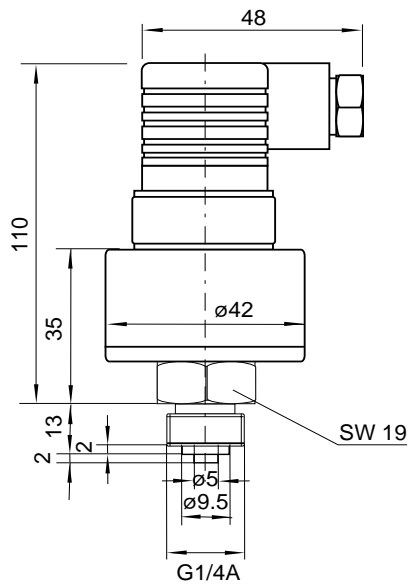
burkert
Easy Fluid Control Systems

Specifications

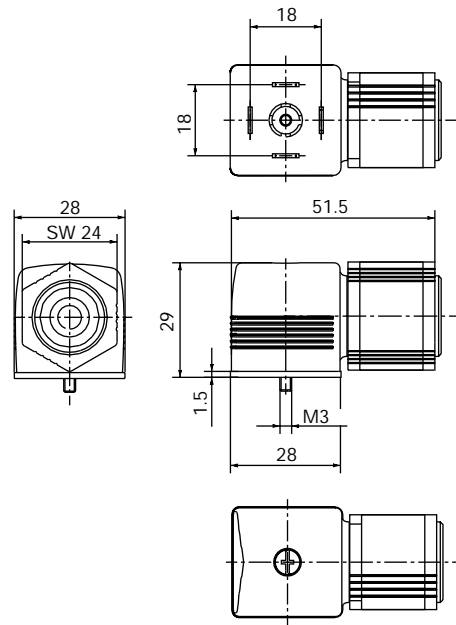
Sensing principle		piezoresistive	thin film strain gauge
Pressure ranges	bar	1 1.6 2.5 4 6 10	16 25
Overpressure safety	bar	5 10 10 17 35 35	50 50
Burst pressure of sensor element	bar	5 10 10 17 35 35	80 125
Pressure reference		relative	
Port connection		G 1/4 B (1/4 NPT)	
Material		stainless steel 1.4571 and 1.4542	
Wetted parts		stainless steel 1.4301	
Case		stainless steel 1.4301	
Power supply U_B	DC V	$10 < U_B \leq 30$	
Signal output and maximum load R_A		4... 20 mA, 2-wire system $R_A [\text{Ohm}] = (U_B [\text{V}] - 10 [\text{V}]) / 0.02 [\text{A}]$	
Response time (10...90%)	ms	≤ 5	
Accuracy (including hysteresis)	% of F.S.D.	<1.0 (limit point calibration); ≤ 0.5 (BFSL)	
Repeatability	% of F.S.D.	<0.1	
1-year stability	% of F.S.D.	<0.3 (at reference conditions)	
Permissible temperatures			
Medium	°C (°F)	-40... +100 (-40... +212)	
Ambient	°C (°F)	-30... + 80 (-22... +176)	
Storage	°C (°F)	-30... +100 (-22... +212)	
Compensated temp. range	°C (°F)	0... + 80 (+32... +176)	
Temperature coefficient in compensated temperature range:			
mean T_c of zero	% of F.S.D.	$\leq 0.4/10 \text{ K}$	
mean T_c of span	% of F.S.D.	$\leq 0.3/10 \text{ K}$	
CE-Conformity		Electromagnetic compatibility by EN 50081-1 (mar. 93) and EN 50081-2 (mar. 94) Electromagnetic compatibility by EN 50082-2 (mar. 95); declaration of conformity on request	
Electrical connection		EaseOn plug or DIN 43 650 4-pin L-plug	
Rating by EN 60529/IEC 529		IP 65	
Wiring protection circuiting		protected against reverse polarity, overvoltage, and short	
Weight	kg	approx. 0.15	
Dimensions		see drawings	

Dimensions [in mm]

Version 4-pin-L-plug DIN 43 650

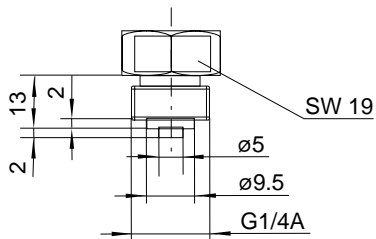


Version EaseOn plug (on request)

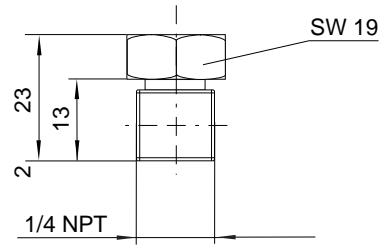


Port connections

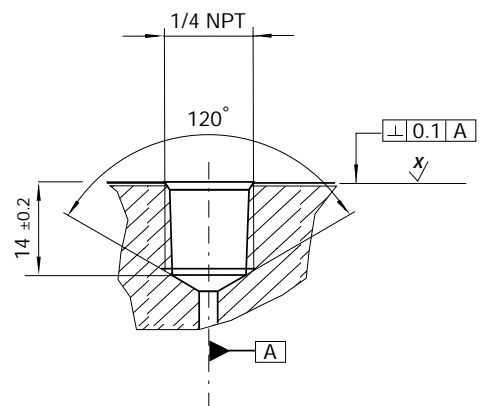
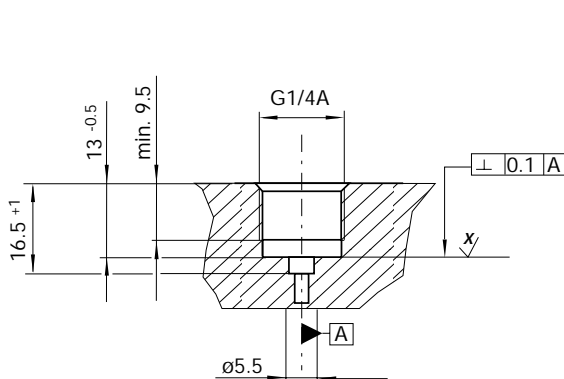
G 1/4 B



NPT 1/4



Socket for port connections



Ordering Chart (Other versions on request)

Type 8320 with G 1/4

Measuring ranges [bar]	Item - No.	
	Electrical connection	
	EaseOn-plug*	DIN 43650
0 - 1.00	429 968 A	429 952 S
0 - 1.60	429 969 B	429 953 T
0 - 2.50	429 970 G	429 954 U
0 - 4.00	429 971 V	429 955 V
0 - 6.00	429 972 W	429 956 W
0 - 10.00	429 973 X	429 957 X
0 - 16.00	429 974 Y	429 958 G
0 - 25.00	429 975 Z	429 959 H

* on request

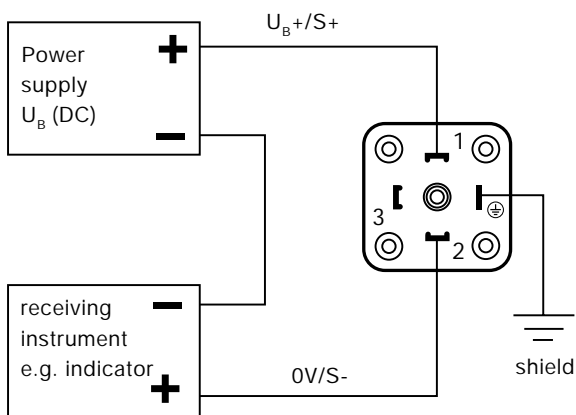
Type 8320 with 1/4 NPT

Measuring ranges [bar]	Item - No.	
	Electrical connection	
	EaseOn-plug*	DIN 43650
0 - 1.00	429 976 S	429 960 E
0 - 1.60	429 977 T	429 961 T
0 - 2.50	429 978 C	429 962 U
0 - 4.00	429 979 D	429 963 V
0 - 6.00	429 980 T	429 964 W
0 - 10.00	429 981 Q	429 965 X
0 - 16.00	429 982 R	429 966 Y
0 - 25.00	429 983 J	429 967 Z

* on request

Electrical connection

2-wire system (EaseOn-plug, DIN 43 650 plug)



Easy Continuous Solenoid Control

