

Type 990.12

Type 990.12, WIKA's standard flanged seal configuration, has an upper and lower housing with a welded diaphragm. This construction allows for a variety of usable materials and process connection sizes to be assembled to meet the requirements of specific applications.



Standard Features

Design: The diaphragm is welded to the upper housing which allows the replacement of the lower housing without jeopardizing the integrity of the system fill fluid and installed instrument. The upper and lower housing are bolted together and sealed by use of an O-ring. Process wetted components can be manufactured with solid metallic, metallic lined and nonmetallic lined materials. Additional sealing faces and flange standards are available.

Pressure Rating, Maximum¹: flange rating per ASME B16.5

Suitable Pressure Span, Minimum²:

Gauge (Range³):

2½", ≥ 15 psi

4 or 4½", ≥ 15 psi

Pressure Transmitters⁴: ≥ 15 psi

Operating Temperature⁵: -130°F to 752°F (-90°C to 400°C)

Available Options

- Other materials
- Additional process connections, DIN, JIS
- Cooling element
- Capillary tubing

Notes:

1. Pressure rating based on solid metallic components
2. Typical values, dependant on pressure instrument and application
3. Includes compound ranges
4. Absolute pressure - check with factory
5. Can vary based on selection of materials, O-ring, assembly hardware and system fill fluid

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990.12 Smart Code Configuration		
Field no.	Code	
1	Process connection type	
	A	ASME B16.5
	?	Other - please specify
2	Process connection	
	SM05	1/2"
	SM07	3/4"
	SM10	1"
	SM15	1 1/2"
	SM20	2"
	????	Other - please specify
3	Nominal pressure rating	
	1	Class 150
	2	Class 300
	4	Class 600
	5	Class 900
	6	Class 1500
3	?	Other - please specify
4	Sealing face style	
	1B	Raised Face 125 ... 250 RMS
	1F	Ring (Type) Joint (RTJ / RJF)
	SF	Raised Face Smooth Finish (RFSF) ¹
	??	Other - please specify
5	Upper housing material	
	CS	Carbon steel 1018 nickel-plated
	C2	316L SS (1.4435)
	T1	Titanium grade 2 (3.7035) ²
	??	Other - please specify
6	Diaphragm material	
	C2	316L SS (1.4435)
	H3	Hastelloy® B2 (2.4617)
	H2	Hastelloy® C276 (2.4819)
	M1	Monel® 400 (2.4360)
	I1	Inconel® 600 (2.4816)
	I2	Incoloy 825 (2.4858)
	TL	Tantalum
	NL	Nickel
	AE	Titanium grade 2 (3.7035) ²
	C0	Carpenter 20
	CP	316L SS with PTFE-lining
	CF	316L SS with PFA-coating
	CG	316L SS w/ gold plating ³
??	Other - please specify	

990.12 Smart Code Configuration		
Field no.	Code	
7	Lower housing material	
	CS	Carbon steel 1018 nickel-plated
	C2	316L SS (1.4435)
	H3	Hastelloy® B2 (2.4617)
	H4	Hastelloy® B3 (2.4600)
	H2	Hastelloy® C276 (2.4819)
	M1	Monel® 400 (2.4360)
	I1	Inconel® 600 (2.4816)
	I2	Incoloy 825 (2.4858)
	TL	Tantalum-lined ^{1,4}
8	Gasket material	
	NL	Nickel
	T1	Titanium grade 2 (3.7035)
	C0	Carpenter 20
	CW	316L SS with virgin PTFE-lining ^{1,4}
	CF	316L SS with PFA-coating ^{1,4}
	??	Other - please specify
	Z	Without (PTFE/PFA coated lower only)
	N	BUNA-N (NBR) max. 212 °F
	V	Viton® (FPM) max. 400 °F
9	Fastening parts (retainer flange & bolts)	
	P	Teflon® (PTFE) max. 500 °F
	C	Metal form C, (SS / silver) max. 752°F ⁵
	G	Metal form C, (Inconel® / silver) max. 752°F ⁵
	?	Other - please specify
	G	Galvanized steel
	P	Stainless steel
	C	Stainless steel with high tensile bolts ⁵
	?	Other - please specify
	Flushing connection	
10	Flushing connection sealing screws	
	Z	Without
	1	1 x 1/8" NPT female
	2	1 x 1/4" NPT female
	4	2 x 1/8" NPT female
	5	2 x 1/4" NPT female
	?	Other - please specify
	Z	Without
	1	With sealing screw(s)

¹ RFSF sealing face required lined/coated lower housings

² Titanium diaphragm requires titanium upper housing

³ Gold plating 50 micro-inches

⁴ No flushing ports available

⁵ For high temperature applications up to 752 °F

*Additional order details _____

Order Code: 1 2 3 4 5 6 7 8 9 10 11

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