

Diaphragm Seals > Threaded Seals > 990.10

Type 990.10

WIKA's type 990.10 standard threaded seal configuration is constructed of an upper and lower housing with a welded diaphragm. The design of this multi-purpose seal enables it to be used on a variety of 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 and nonmetallic materials.

Pressure Rating, Maximum¹: up to 3,625 psi

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
- 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

Master Gauge Co.



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THREADED SEALS

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990.10 Smart Code Configuration		
Field no.	Code	
	Process connection	
	P4F	¼" NPT female
	P2F	½" NPT female
	P3F	¾" NPT female
	P1F	1" NPT female
	P4M	¼" NPT male
	P2M	½" NPT male
	P3M	¾" NPT male
	P1M	1" NPT male
1	???	Other - please specify
	Nominal pressure rating	
	P1	200 psi MWP (PTFE lower only) ¹
	P2	1,500 psi MWP (4 bolt design)
	P4	3,675 psi MWP (8 bolt design) ²
2	??	Other - please specify
	Upper housing material	
	CS	Carbon steel 1018, nickel-plated
	C2	316L SS (1.4435)
	C5	316 TI SS (1.4571)
	T1	Titanium grade 2 (3.7035) ³
3	??	Other - please specify
	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
	T1	Titanium grade 2 (3.7035) ³
	C0	Carpenter 20
	CP	316L SS with PTFE-lining
	CF	316L SS with PFA-coating
	CG	316L SS w/ gold plating ⁴
4	??	Other - please specify
	Lower housing material	
	CS	Carbon steel 1018 nickel plating
	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)
	NL	Nickel
	T1	Titanium grade 2 (3.7035)
	PT	Solid Polytetrafluoroethylene ^{1,5} (PTFE)
	C0	Carpenter 20
5	??	Other - please specify

990.10 Smart Code Configuration		
Field no.	Code	
	Gasket material	
	Z	Without (PTFE lower only) ¹
	N	BUNA-N (NBR) max. 212 °F
	V	Viton® (FPM) max. 400 °F
	P	Teflon® (PTFE) max. 500 °F
	D	Metal seal form C (SS/silver) 752°F ²
	G	Metal seal form C (Inconel®/silver) 752°F ²
6	?	Other - please specify
	Fastening parts (retainer flange & bolts)	
	G	Galvanized steel
	P	Stainless steel
	C	SS with high tensile bolts ²
7	?	Other - please specify
	Flushing connection	
	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
8	?	Other - please specify

¹ These options are exclusive to the solid PTFE lower housing (max. 300 °F)
² Required for high temperature applications up to 752 °F
³ Titanium diaphragm requires titanium upper housing
⁴ Gold plated 50 micro-inches
⁵ No flushing ports available

*Additional order details _____

Order Code: 1 2 3 4 5 6 7 8

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