

Diaphragm Seals > Flanged Seals > 990.FC

Type 990.FC

Type 990.FC, 1" and 1½", flanged seal configuration is comprised of a two-piece lower housing (flange and insert). The flange on this seal contains through holes for mounting with the end user's flange. The construction of this seal allows for numerous materials to be used for the process-wetted components.



Standard Features

Design: The insert on the flanged connection is bolted to the flange and upper housing and sealed with an O-ring. The flange and upper housing can be constructed of plated carbon steel or stainless steel. All process wetted components can be comprised of numerous materials, solid or lined.

Process Rating, Maximum: 600 psi or maximum flange rating per ASME B16.5

Suitable Pressure Span, Minimum¹:

Gauge (Range²):

2½", ≥ 15 psi

4 or 4½", ≥ 15 psi

Pressure Transmitters³: ≥ 15 psi

Operating Temperature⁴: -130°F to 752°F (-90°C to 400°C)

Available Options

- Other materials
- Cooling element
- Capillary tubing

Notes:

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

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Type 990.FC

990.FC Smart Code Configuration	
Field no.	Code
	Process connection type
	A ASME B16.5
1	? Other - please specify
	Process connection DIN
	SM10 1"
	SM15 1½"
2	???? Other - please specify
	Nominal pressure rating DIN
	1 Class 150
	2 Class 300
	4 Class 600
3	? Other - please specify
	Sealing face
	1B RF 125 ... 250 RMS
	1F Ring (Type) Joint (RTJ / RJF)
	SF Raised Face Smooth Finish (RFSF) ¹
4	?? Other - please specify
	Upper housing material
	CS Carbon steel 1018 nickel-plated
	C2 316L SS (1.4435)
	T1 Titanium grade 2 (3.7035)
5	?? 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) ²
	C0 Carpenter 20
	CP 316L SS with PTFE-foil
	CF 316L SS w/ PFA coating
	CG 316L SS w/ gold plating ³
6	?? Other - please specify

990.FC Smart Code Configuration	
Field no.	Code
	Lower housing material
	CS Carbon steel 1018 nickel-plated
	C2 SS 316L (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 (2.4816)
	TL Tantalum lining ^{1,4}
	NL Nickel
	T1 Titanium grade 2 (3.7035)
	C0 Carpenter 20
	CW 316SS with virgin PTFE-lining ^{1,4}
	CF 316SS with PFA-coating ^{1,4}
7	?? Other - please specify
	Gasket material
	N BUNA-N (NBR) max. 212 °F
	V Viton® (FPM) max. 400 °F
	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
8	? Other - please specify
	Fastening parts (retainer flange & bolts)
	G Galvanized steel
	P Stainless steel
9	? Other - please specify
	Flushing connection
	Z Without
	1 1 x ½" NPT
	2 1 x ¼" NPT
	4 2 x ½" NPT
	5 2 x ¼" NPT
10	? Other - please specify

¹ RFSF sealing face required for lined / coated lower housings

² Titanium diaphragm requires titanium upper housings

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

990.FC - **ZZZ ZZZ**

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