

Diaphragm Seals > Flanged Seals > 990.FD

Type 990.FD

The 990.FD is a process industry diaphragm seal used in combination with pressure gauges. The design of this seal consists of an internal clamped diaphragm with a threaded process connection. The 990.FD diaphragm seal is intended for corrosive, contaminated, hot or viscous pressure media.



Standard Features

Pressure 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 500°F (-90°C to 260°C)

Available Options

- Other materials
- 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.FD

990.FD Smart Code Configuration		
Field no.	Code	
1	Process connection type	
	A	ASME B16.5
	?	Other - please specify
2	Process connection	
	SM10	1"
	SM15	1½"
3	Nominal pressure rating	
	1	Class 150
	2	Class 300
4	Sealing face	
	1B	Raised Face (RF) 125 ... 250 RMS
	1F	Ring (Type) Joint (RTJ / RJF)
	SF	Raised Face Smooth Finish (RFSF) ¹
5	Upper housing material	
	CS	Carbon steel 1018 nickel-plated
	C2	316L SS (1.4435)
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 200
	T1	Titanium grade 2 (3.7035)
	C0	Carpenter 20
	V1	Viton® (FPM) max 400 °F
	CP	316 SS with virgin PTFE-lining
CF	316 SS with PFA-coating	
6	??	Other - please specify

990.FD 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 lining ¹
	NL	Nickel
	T1	Titanium grade 2 (3.7035)
	8	Gasket material
C0		Carpenter 20
CW		316 SS with virgin PTFE-lining ^{1,2}
9	Fastening parts (retainer flange & bolts)	
	CF	316 SS with PFA-coating ^{1,2}
	N	BUNA-N (NBR) max. 212 °F
10	Flushing connection	
	V	Viton® (FPM) max. 400 °F
	P	Teflon® (PTFE) max. 500 °F
10	Other - please specify	
	?	Other - please specify
	Z	Without
	1	1 x 1/8" NPT
	2	1 x 1/4" NPT
	4	2 x 1/8" NPT
	5	2 x 1/4" NPT
10	?	Other - please specify

¹ RFSF sealing face required for lined / coated lower housings

² No Flushing ports available

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

990.FD - **ZZZ ZZZ**

*Additional order details _____

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