

Type 990.22

WIKA's type 990.22 Tri-Clamp® sanitary process connection is designed to mate with an equal sized fitting. This seal is designed to assemble and disassemble from its mating fitting. This seal and mating fitting is held together via a clamp to minimize impurities entering the process during the removal and reinstallation of the seal. This seal meets the criteria set by 3A standards and is designed for applications in the pharmaceutical, and food and beverage industries.



Standard Features

Design: This seal is designed to mate with a Tri-Clamp® sanitary process connection. The external flush diaphragm with gasket provides a hygienic process connection. The standard material of construction is 316 SS. Electropolished process wetted surfaces are available as an option.

Pressure Rating, Maximum (Clamping device dependent, ref. MSHHS clamp):

1½" = 600 psi, 2" = 550 psi, 2½" = 450 psi,
3" = 350 psi, 4" = 250 psi

Suitable Pressure, Minimum¹:

Gauge Mechanical, Range:

1½" Process Connection:

2½" -30" Hg to 60 psi up to -30" Hg to 600 psi
4 & 4½" -30" Hg to 400 psi up to -30" Hg to 600 psi

2" Process Connection:

2½" -30" Hg to 0 psi up to -30" Hg to 550 psi
4 & 4½" -30" Hg to 100 psi up to -30" Hg to 550 psi

2½", 3", & 4" Process Connection:

-30" Hg to 0 psi up to -30" Hg to maximum pressure rating

Gauge & Absolute Switch or Transmitter, Span²:

200" H₂O

Differential Switch or Transmitter, Span²:

10" H₂O differential

Operating Temperature³:

-10°F to 572°F (-23°C to 300°C)

990.22 Smart Code Configuration

Field no.	Code	
Process connection		
	TB115	1½" Tri-Clamp®
	TB120	2" Tri-Clamp®
	TB125	2½" Tri-Clamp®
	TB130	3" Tri-Clamp®
	TB140	4" Tri-Clamp®
1	????	Other - please specify
Housing and Diaphragm material		
	C2-C2	316L SS (1.4435)
	CT-CT	316L SS (1.4435) electropolished
	H2-H2	Hastelloy® C276 (2.4819)
2	??-??	Other - please specify
Surface roughness		
3	A	Ra ≤ 30 micro-inches
Gasket material		
4	Z	Without
Clamp diameter for process connection		
	025	0.98" (25 mm) - ¾" Tri-Clamp®
	505	1.99" (50.5 mm) - 1", 1½" Tri-Clamp®
	064	2.50" (64 mm) - 2" Tri-Clamp®
	775	3.10" (77.5 mm) - 2½" Tri-Clamp®
	091	3.58" (91 mm) - 3" Tri-Clamp®
5	119	4.70" (119 mm) - 4" Tri-Clamp®

Notes:

1. Typical values, dependant on pressure instrument, process connection size and application
2. Value is dependant on process connection size
3. Can vary based on selection of materials, O-ring, assembly hardware and system fill fluid

Order Code: 1 2 3 4 5

990.22 -

*Additional order details _____

Master Gauge Co.



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