

Type 510/511 All Welded Diaphragm Seal



FEATURES

- Compact size
- Light weight
- All-welded design
- 100 bar rating standard, 345 bar rating optional (HP)
- Continuous duty design
- Minimized fill volume
- Male connections eliminate adapters/fittings
- Available flushing connection (Type 511)
- Dual inch and metric wrench flats

APPLICATIONS

- Corrosive processes
- Controlling fugitive emissions
- Elevated process temperatures
- Suspended solids in the process
- Limited space
- Where male connections are preferred

CONSTRUCTION

This compact isolator is small enough in design to be used in confined spaces, but provides sufficient displacement to drive a wide variety of instrumentation. Its all-welded tamper proof design prevents possible process media leakage.

SPECIFICATIONS

Maximum Pressure Rating

Standard 100 bar (1500 psi)
at 23 °C (73 °F)
Optional 345 bar (5000 psi)
at 23 °C (73 °F) - option (HP)

Top Housing material

Stainless Steel 1.4404 (316L)

Diaphragm Materials

Stainless Steel 1.4435 (316L),
Hastelloy C-276

Lower Housing Materials

Stainless Steel 1.4404 (316L)

Instrument Connection Sizes

¼ NPT, ½ NPT female,
G ¼, G ½ female

Process Connections

¼ NPT, ½ NPT male according to
ANSI/ASME B1.20.1
G ¼ B, G ½ B male according to EN 837
*Others available upon request

Accuracy (typical)

Seal will add 0,5 % to the stated full scale
accuracy of the instrument attached.

Standard Fill Medias

Glycerine
Silicone
Halocarbon
Syltherm
*Others available upon request

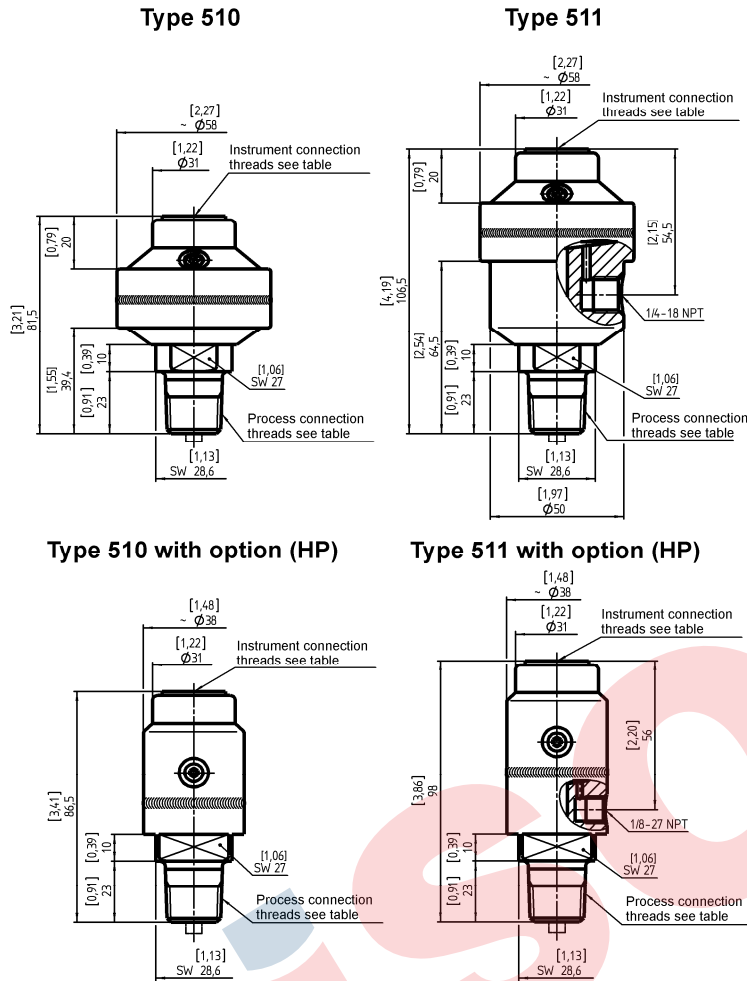
Pressure Rating

-1 ... 100 bar (vac. to 1.500 psi) standard
100 ... 345 bar (vac. to 5.000 psi) with (HP)
option

OPTIONS

DU - Welded instrument connection
HP - 345 bar / 5000 psi rating
PU - Flushing connection plug
6B - Oxygen cleaned
CD3 - Material certificate EN 10204 3.1

General dimensions in mm [inch]



Rev. 0

Order information

Process connection	Seal type	Diaphragm material	Housing material	Instrument connection	Fill fluid	Options
(02) ¼ NPT male	510 Threaded 511 Threaded with flushing connection	(S) Stainless steel 1.4435 (316L)	(S) Stainless steel 1.4404 (316L)	(02T) ¼ NPT female	(CG) Glycerin (Direct mounting, -18/204 °C, 0/400 °F)	(HP) High pressure rating (350 bar, 5000 psi)
(04) ½ NPT male				(04T) ½ NPT female	(CK) Silicone (Direct mounting or with capillary line ≤ 10' (3 m), -40/315 °C, -40/600 °F)	(DU) Welded instrument connection
(13) G ¼ B male		(H) Hastelloy C-276	(13T) G ¼ female	(EJ) Silicone (Capillary line >10' (3 m), -40/315 °C, -40/600 °F)	(PU) Pipe plug for flushing connection (same material as bottom housing)	
(15) G ½ B male		(15T) G ½ female	(CF) Halocarbon (Direct mounting or with capillary line, -56/149 °C, -70/300 °F)	(HA) Syltherm 800 (Direct mounting or with capillary line, -40/400 °C, -40/750 °F)	(6B) Oxygen cleaned (only with Halocarbon filling)	
Others on request					Maximum pressure rating is limited at high media temperature.	(CD3) Material certificate acc. to EN 10204 3.1

Order example

Process connection	Seal type	Diaphragm material	Housing material	Instrument connection	Fill fluid	Options
04	510	S	S	04T	CK	CD3

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