

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),
Hastelloy C-276 or Monel 400

Diaphragm Materials

Stainless Steel 1.4435 (316L),
Hastelloy C-276 or Monel 400

Lower Housing Materials

Stainless Steel 1.4404 (316L)
Hastelloy C-276 or Monel 400

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

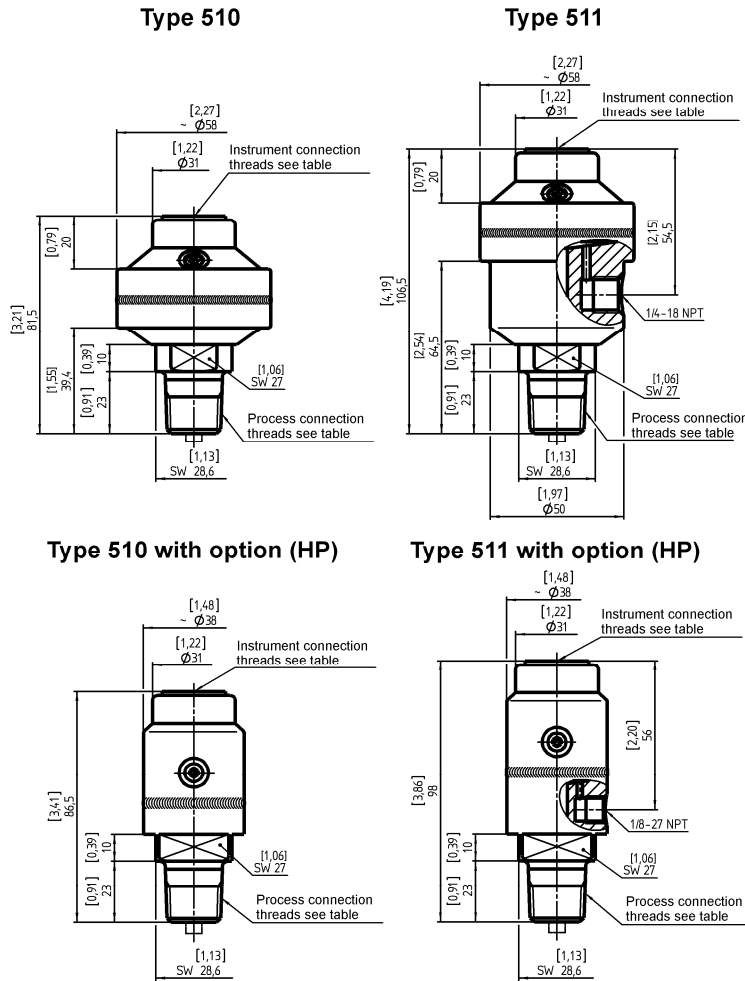
HP - 345 bar / 5000 psi rating

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 ¹⁾	(S) Stainless steel 1.4435 (316L) (only for st. steel housing) (H) Hastelloy C-276 (only for st. steel or Hastelloy housing) (P) Monel 400 (only for Monel housing)	(S) Stainless steel 1.4404 (316L) (H) Hastelloy C-276 (P) Monel 400	(02T) ¼ NPT female	(CG) Glycerin (Direct mounting, -18/204 °C, 0/400 °F) (CK) Silicone (Direct mounting or with capillary line ≤ 10' (3 m), -40/315 °C, -40/600 °F) (EJ) Silicone (Capillary line >10' (3 m), -40/315 °C, -40/600 °F) (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)	(HP) High pressure rating ¹⁾ (350 bar, 5000 psi) (DU) Welded instrument connection (PU) Pipe plug for flushing connection (same material as bottom housing) (6B) Oxygen cleaned (only with Halocarbon filling) (CD3) Material certificate acc. to EN 10204 3.1
(04) ½ NPT male				(04T) ½ NPT female		
(13) G ¼ B male				(13T) G ¼ female		
(15) G ½ B male				(15T) G ½ female		
Others on request	¹⁾ on request				Maximum pressure rating is limited at high media temperature.	¹⁾ on request

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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