

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 $\frac{1}{4}$ NPT, $\frac{1}{2}$ NPT female, G $\frac{1}{4}$, G $\frac{1}{2}$ female

Process Connections

14 NPT, 12 NPT male according to ANSI/ASME B1.20.1 G 14 B, G 12 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

ATEX

Conformity according to RL 94/9/EC appendix X for mechanical equipment in potential hazardous areas: Optional, marking $C \in 0.044 \iff$ II 2 GD c II TX File no. 35101282 at notified body 0044, TÜV NORD CERT The temperature class will be determined by the used measuring device.

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
- C3 Material certificate EN 10204 3.1



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Rev. 0

General dimensions in mm [inch]

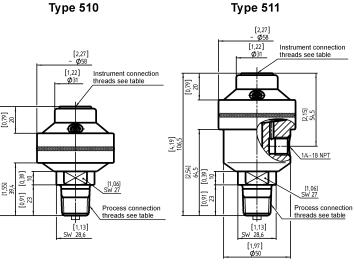
Type 510

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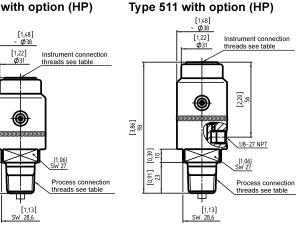
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Type 510 with option (HP)



Order information

Process connection	Seal type 510 Threaded 511 Threaded	Diaphragm material(S) Stainless steel 1.4435 (316L) (only for st. steel housing)	Housing material		Instrument connection		Fill fluid		Options	
(02) ¼ NPT male			(S)	Stainless steel 1.4404	(02T)	¼ NPT female	(CG)	Glycerin (Direct mounting, -18/204 °C, 0/400 °F)	(HP)	High pressure rating ¹ (350 bar, 5000 psi)
(04) ½ NPT male	with flush- ing con-		(316L) (H) Hastelloy C-276	(04T)	¹ / ₂ NPT female (CK)	Silicone		() ATEX approval		
(13) G ¼ B	nection ¹⁾	(H) Hastelloy C- 276			(13T)	female G ½ female		(Direct mounting or with capillary line ≤ 10' (3 m), -40/315 °C, -40/600 °F)	(DU)	Welded instrument connection
male (15) G ½ B male		(only for st. steel or Has- telloy hous- ing)	(P)	Monel 400	(15T)		(EJ)	Silicone (Capillary line >10' (3 m), -40/315 °C, -40/600 °F)	(PU)	Pipe plug for flushing connection (same material as bottom housing)
		(P) Monel 400 (only for Monel housing)					(CF)	Halocarbon (Direct mounting or with capillary line,	(6B)	Oxygen cleaned (only with Halocarbon filling)
							(HA)	-56/149 °C, -70/300 °F) Syltherm 800 (Direct mounting or with capillary line, -40/400 °C, -40/750 °F)	(C3)	Material certificate act to EN 10204 3.1
Others on request	¹⁾ on request						Maximum pressure rating is lim- ited at high media temperature.		¹⁾ on r	equest

Order example



Ashcroft Instruments GmbH Germany

Max-Planck-Str. 1, D-52499 Baesweiler P.O. Box 11 20, D-52490 Baesweiler Tel.: +49 (0) 2401 808-0, Fax: +49 (0) 2401 808-125

France

48, Chemin des Landes F-69700 Montagny **Tel.:** +33 (0) 9 65 32 71 31, **Fax:** +33 (0) 4 72 39 10 57

Website: www.ashcroft.eu

e-Mail: sales@ashcroft.com

United Kingdom Unit 5 William James House Cowley Road, Cambridge CB4 0WX Tel.: +44 (0) 12 23 39 55 00, Fax: +44 (0) 12 23 39 55 01