

Cartex ANSI Single seals

Mechanical seals | Mechanical seals for pumps | Standard cartridge seals



Features

- Single seal
- Available for standard (Cartex-ASPN) and big bore (Cartex-ABPN) seal chambers
- Cartridge
- Balanced
- Independent of direction of rotation
- Single seals with flush (-ASPN, -ABPN) and with quench combined with lip seal (-ASQN, -ABQN) or throttle ring (-ASTN, -ABTN)

Advantages

- Ideal for use in ANSI process pumps
- Universal applicable for packings conversions, retrofits or original equipment
- Seal for standardizations
- No dimensional modification of the seal chamber necessary, small radial installation height
- No damage of the shaft by dynamically loaded O-Ring
- Extended service life
- Installation faults are avoided, costeffective
- No damage caused by dirt entered during assembly
- Straightforward and easy installation due to pre-assembled unit (reduced downtimes)

Operating range

Cartex-ASPN, - ABPN, -ASTN, -ABTN, -ASQN, -ABON

Shaft diameter: d1 = 1.000" ... 3.750" Other sizes on request Temperature: t= -40 °C ... 220 °C (-40 °F ... 428 °F) (Check O-Ring resistance)

Sliding face material combination BQ1 Pressure: p1 = 25 bar (363 PSI) Sliding velocity: vg = 16 m/s(52 ft/s)

Sliding face material combination Q1Q1 or U201 Pressure: p1 = 12 bar (174 PSI) Sliding velocity: vg = 10 m/s (33 ft/s)

Axial movement: ±1.0 mm, d₁≥75 mm ±1.5 mm

Materials

Seal face: Silicon carbide (Q1), Carbon graphite resin impregnated (B), Tungsten carbide(U2) Seat: Silicon carbide (Q1) Secondary seals: FKM (V), EPDM (E), FFKM (K), Perflourocarbon rubber/PTFE (U1) Springs: Hastelloy® C-4(M) Metal parts: CrNiMo steel (G)

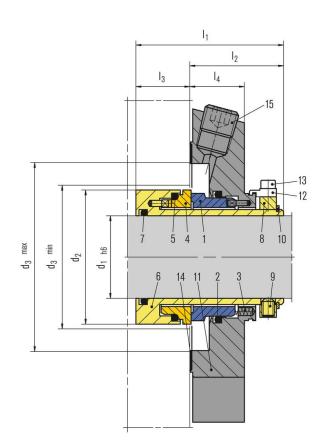
Standards and approvals ANSI

Recommended applications

- Process industry
- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Power plant technology
- Pulp and paper industry
- Water and waste water technology
- Mining industry
- Food and beverage industry
- Universally applicable
- ANSI process pumps

guarantee for a specific case. This is subject to change.





Item Description

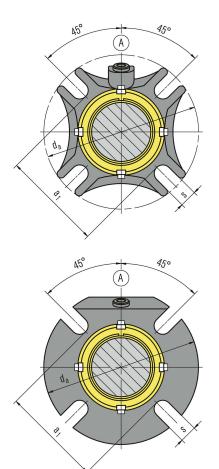
- 1 Seal face
- 2, 5, 7 O-Ring
- 3 Spring
- 4 Seat
- 6 Shaft sleeve
- 8 Drive collar
- 9 Set screw
- 10 Snap ring
- 11 Cover
- 12 Assembly fixture (remove after intallation)
- 13 Screw
- 14 Gasket
- 15 Screw plug
- 16 Lip seal (-QN), throttle ring (-TN)

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only as guide values. We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. This is subject to change.



Installation, details, options



Seal cover Cast version

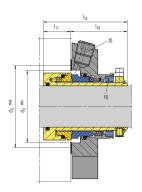
Seal cover Machined version

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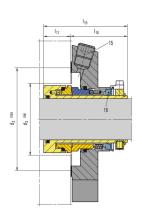


Product variants



Cartex-ASTN and -ABTN Single seal for standard (S) and big bore (B) seal

chambers. Same as Cartex-ASPN and -ABPN but with throttle ring (item 16) The cover has auxiliary connections for flushing and quench. Throttle ring: PTFE carbon-graphite reinforced (T12).



Cartex-ASQN and -ABQN

Single seal for operation with unpressurized quench for standard (S) and big bore (B) seal chambers. Same as Cartex-ASPN and -ABPN version but with lip seal (item 16) at the atmospheric side. The cover has auxiliary connections for flushing and quench. Lip seal: NBR (P), PTFE carbon reinforced (T3)

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Dimensions

d ₁	d ₂	d ₃ min	d ₃ max	l ₁	l ₂	I3	14	I ₁₅	I ₁₆	I ₁₇	a ₁	d _a	s	Connection
1.000	-	-	-	-	-	-	-	_	-	-	-	-	-	-
1125	1713	1752	2795	2638	1669	0.969	1000	2937	1909	1028	3311	4500	0.437	1/4 NPT
1250	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1375	1960	2000	3189	2638	1669	0.969	1000	2947	1919	1028	3543	5118	0.437	1/4 NPT
1.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.625	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.750	2.461	2.500	4.055	2.638	1.669	0.969	1.000	3.012	1.984	1.028	4.567	6.496	0.559	3/8 NPT
1.875	2.583	2.661	3.937	2.638	1.669	0.969	1.000	3.071	2.059	1.012	4.409	5.984	0.551	3/8 NPT
2.000	2.677	2.756	4.567	2.638	1.929	0.709	1.260	3.130	2.102	1.028	4.882	6.260	0.551	3/8 NPT
2.125	2.834	2.913	4.528	2.638	1.669	0.969	1.000	3.012	1.984	1.028	5.276	6.890	0.709	3/8 NPT
2.250	2.960	3.093	4.409	2.638	1.945	0.693	1.276	3.130	2.120	1.028	4.685	6.417	0.709	3/8 NPT
2.500	3.212	3.299	5.276	2.638	1.919	0.719	1.250	3.130	2.120	1.028	5.512	7.795	0.709	3/8 NPT
2.625	3.338	3.417	5.118	2.638	1.919	0.719	1.250	3.130	2.120	1.028	5.354	6.890	0.709	3/8 NPT
2.750	3.660	3.740	5.236	2.638	1.945	0.693	1.276	3.130	2.120	1.028	5.512	7.480	0.630	3/8 NPT
3.000	3.937	4.016	5.512	3.307	2.276	1.031	1.276	3.858	2.516	1.343	5.906	8.228	0.650	3/8 NPT
3.250	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BIG BORE - Dimensions in inch

Dimensions

d ₁	d ₂	d _{3 min}	d _{3 max}	h	l ₂	I3	14	I ₁₅	I ₁₆	I ₁₇	aı	da	s	Connection
1.000	1.693	1.732	2.205	2.638	1.669	0.969	1.000	2.937	1.909	1.028	2.756	3.937	0.433	1/4 NPT
1.125	1.713	1.752	2.205	2.638	1.669	0.969	1.000	2.937	1.909	1.028	2.440	4.134	0.437	1/4 NPT
1.250	1.969	2.008	2.402	2.638	1.669	0.969	1.000	3.130	2.102	1.028	2.638	4.252	0.433	1/4 NPT
1.375	1.961	2.000	2.402	2.638	1.669	0.969	1.000	2.947	1.919	1.028	2.760	4.213	0.437	1/4 NPT
1.500	2.200	2.244	2.717	2.638	1.669	0.969	1.000	3.130	2.102	1.028	2.950	4.488	0.551	3/8 NPT
1.625	2.340	2.421	2.795	2.638	1.669	0.969	1.000	3.130	21.02	1.028	3.030	4.921	0.551	3/8 NPT
1.750	2.461	2.500	2.953	2.638	1.669	0.969	1.000	3.012	1.984	1.028	3.228	5.118	0.559	3/8 NPT
1.875	2.583	2.661	3.070	2.638	1.669	0.969	1.000	3.071	2.043	1.028	3.190	5.118	0.551	3/8 NPT
2.000	2.677	2.756	3.189	2.638	1.669	0.969	1.000	3.130	2.102	1.028	3.430	5.472	0.630	3/8 NPT
2.125	2.834	2.913	3.583	2.638	1.669	0.969	1.000	3.012	1.984	1.028	3.820	5.512	0.650	3/8 NPT
2.250	2.960	3.039	3.583	2.638	1.669	0.969	1.000	3.130	2.102	1.028	3.858	5.866	0.650	3/8 NPT
2.375	3.070	3.125	3.590	2.638	1.669	0.969	1.000	-	-	-	4.020	6.181	0.709	3/8 NPT
2.500	3.212	3.291	3.937	2.638	1.669	0.969	1.122	3.130	2.102	1.028	4.528	6.693	0.709	3/8 NPT
2.625	3.338	3.417	4.016	2.638	1.669	0.969	1.250	3.130	2.102	1.028	4.528	6.378	0.630	3/8 NPT
2.750	3.660	3.740	4.370	2.638	1.929	0.709	1.260	3.130	2.102	10.28	4.646	7.441	0.709	3/8 NPT
3.000	3.937	4.016	4.724	3.307	2.260	1.047	1.260	3.858	2.516	1.343	5.000	7.835	0.709	3/8 NPT
3.250	4.189	4.268	4.921	3.307	2.260	1.047	1.260	3.858	2.516	1.343	5.315	7.830	0.709	3/8 NPT
3.750	4.689	4.750	5.433	3.307	2.260	1.047	1.000	-	-	-	5.827	8.189	0.866	3/8 NPT

STANDARD BORE - Dimensions in inch

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