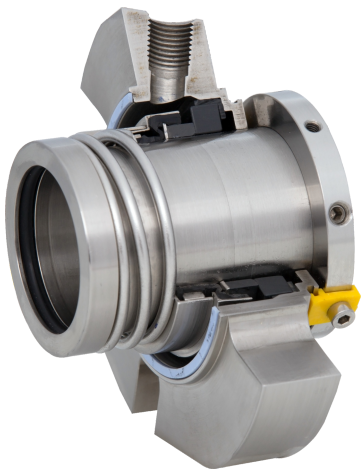


UTX Single Seals

Standard Cartridge Seals

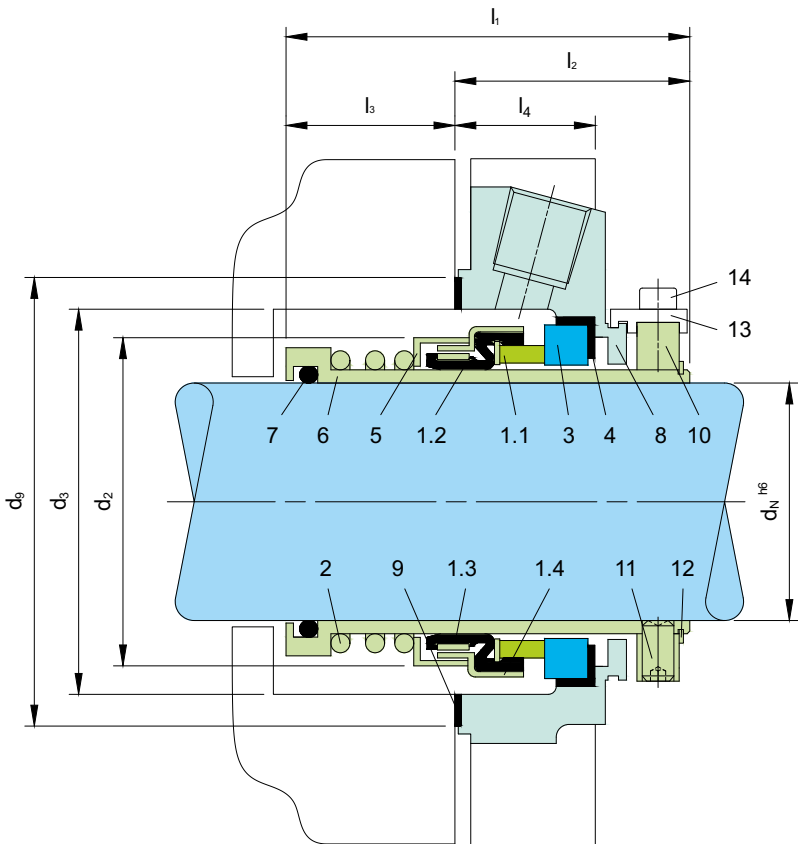


Product Description

- 1. Single seal configuration
- 2. Unbalanced design
- 3. Independent of direction of rotation
- 4. Cartridge construction

Technical Features

- 1. Ideal for use in process pump standardization
- 2. Flushing connection according to API 682, Plan 11 for seal chamber cleaning and cooling
- 3. Low cost cartridge solution
- 4. Dimensional modification of the stuffing box chamber is not required due to short radial installation height
- 5. Ideal to convert and retrofit pumps with packings and large volume OEM production
- 6. Cartridge unit factory assembled for easy installation, which reduces down-time
- 7. Rugged design for long operating life



Note: The item numbers as depicted above are based on our technical experience and knowledge and are placed in the chronological order of their assembly procedure.

Item	Description
1	Bellows unit
1.1	Seal face
1.2	Bellows
1.3	Drive collar
1.4	L-ring (spring collar)
2	Spring
3	Seat
4	O-ring or L-ring
5	Spacer ring

Item	Description
6	Shaft sleeve
7	O-ring
8	Cover
9	Gasket
10	Drive collar
11	Set screw
12	Snap ring
13	Assembly fixture
14	HSH Cap Screw

Typical Industrial Applications

ISO process pumps	Food & beverage
Acids	Hydrocarbons
Aqueous solutions	Lubricating liquid
Caustics	Marine
Chemicals	Petrochemical
Crystallizing fluids	Pharmaceutical
Fertiliser	Solvents

Materials

Seal face:	Carbon graphite resin impregnated (B), Silicon carbide (Q1),
Seat:	Silicon carbide (Q1)
Secondary seals:	FKM (V), EPDM (E)
Metal parts:	CrNiMo steel (G), CrNiMo cast steel (G)

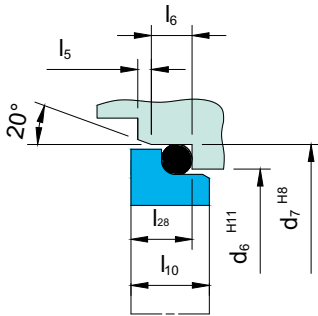
Performance Capabilities

Sizes:	Upto 75 mm (1" ... 2.625")
Pressure:	p ₁ = 12 bar (174 PSI)
Temperature:	t = -20°C...+140°C (-4°F...+248°F)
Speed:	= 11.2 m/s

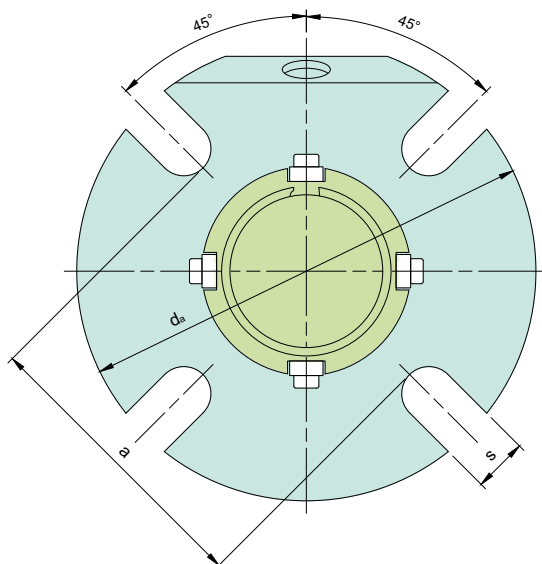
Axial Movement:

± 0.5mm

Stationary Seats



G6
(EN12756)



Dimensional Data

Dimensions in inch

d _N	d ₂	d ₃ min	d ₃ max	d ₉	d _a	a	s	l ₁	l ₂	l ₃	l ₄	Connection
1.000	1.512	1.634	2.000	2.362	4.134	2.440	0.520	2.579	1.614	0.965	0.906	1/4 NPT
1.125	1.669	1.750	2.050	2.362	4.134	2.441	0.520	2.677	1.634	1.043	0.906	1/4 NPT
1.250	1.772	1.890	2.250	2.559	4.331	2.638	0.520	2.736	1.654	1.083	0.906	1/4 NPT
1.375	1.933	2.000	2.420	2.677	4.213	2.756	0.520	2.854	1.732	1.122	1.024	1/4 NPT
1.500	2.020	2.146	2.625	2.874	4.843	2.950	0.579	2.854	1.732	1.122	1.024	1/4 NPT
1.750	2.354	2.480	2.812	3.110	5.118	3.230	0.559	3.012	1.752	1.260	1.024	1/4 NPT
1.875	2.433	2.559	2.940	3.228	5.118	3.307	0.559	3.071	1.772	1.299	1.024	1/4 NPT
2.000	2.551	2.677	3.190	3.346	5.827	3.430	0.579	3.169	1.850	1.319	1.102	3/8 NPT
2.125	2.795	2.875	3.437	3.740	5.512	3.820	0.689	3.287	1.850	1.437	1.102	3/8 NPT
2.250	2.874	2.992	3.560	3.780	6.181	3.858	0.689	3.287	1.850	1.437	1.102	3/8 NPT
2.375	3.012	3.110	3.590	3.937	6.181	4.020	0.689	3.366	1.850	1.516	1.102	3/8 NPT
2.500	3.209	3.287	3.800	4.173	6.693	4.252	0.689	3.465	1.909	1.555	1.102	3/8 NPT
2.625	3.268	3.374	3.937	4.252	6.378	4.331	0.689	3.465	1.909	1.555	1.102	3/8 NPT

Dimensions in millimeter

d _N	d ₂	d ₃ min	d ₃ max	d ₆	d ₇	d ₉	d _a	a	s	l ₁	l ₂	l ₃	l ₄	l ₅	l ₆	l ₁₀	l ₂₈	Connection
25	38.4	41.5	51.0	34.0	40	60	105	62	13.2	65.5	41.0	24.5	23	2	5	8.5	7.5	1/4 NPT
28	42.4	44.5	52.0	37.0	43	60	105	62	13.2	68.0	41.5	26.5	23	2	5	8.5	7.5	1/4 NPT
30	42.4	45.5	56.0	39.0	45	63	105	67	13.2	68.0	41.5	26.5	23	2	5	8.5	7.5	1/4 NPT
32	45.0	48.0	57.2	42.0	48	65	110	67	13.2	69.5	42.0	27.5	23	2	5	8.5	7.5	1/4 NPT
33	45.0	48.0	57.0	42.0	48	65	110	67	13.2	69.5	42.0	27.5	23	2	5	8.5	7.5	1/4 NPT
35	49.0	50.8	61.5	44.0	50	68	107	70	13.2	72.5	44.0	28.5	26	2	5	8.5	7.5	1/4 NPT
38	51.3	54.5	66.0	49.0	56	73	123	75	14.7	72.5	44.0	28.5	26	2	6	10	9	1/4 NPT
40	54.3	57.5	68.0	51.0	58	75	123	77	14.7	75.5	44.5	31.0	26	2	6	10	9	1/4 NPT
43	56.3	59.5	70.5	54.0	61	78	133	80	14.7	76.5	44.5	32.0	26	2	6	10	9	1/4 NPT
45	61.0	63.0	73.0	56.0	63	79	130	82	14.2	76.5	44.5	32.0	26	2	6	10	9	1/4 NPT
48	61.8	65.0	75.0	59.0	66	82	130	84	14.2	78.0	45.0	33.0	26	2	6	10	9	1/4 NPT
50	64.8	68.0	78.0	62.0	70	85	148	87	14.7	80.5	47.0	33.5	28	2.5	6	10.5	9.5	3/8 NPT
53	71.0	73.0	87.0	65.0	73	95	148	97	17.5	81.5	47.0	34.5	28	2.5	6	12	11	3/8 NPT
55	71.0	73.0	83.0	67.0	75	90	148	92	17.5	83.5	47.0	36.5	28	2.5	6	12	11	3/8 NPT
60	76.5	79.0	91.0	72.0	80	100	157	102	17.5	85.5	47.0	38.5	28	2.5	6	12	11	3/8 NPT
65	83.0	85.7	98.5	77.0	85	108	162	110	17.5	88.0	48.5	39.5	28	2.5	6	12	11	3/8 NPT
70	88.0	94.0	108.0	83.0	92	116	178	118	17.5	92.0	48.5	43.5	28	2.5	7	12.5	11.3	3/8 NPT
75	93.4	98.4	118.0	88.0	97	125	190	127	17.5	93.5	49.0	44.5	28	2.5	7	12.5	11.3	3/8 NPT
80	97.0	115.0	125.0	95.0	105	131	202	134	18.0	93.5	49.0	45.5	28	3	7	13	12	3/8 NPT

Note: Additional technical & dimensional information will be provided on request

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