SHARK SPLIT-S

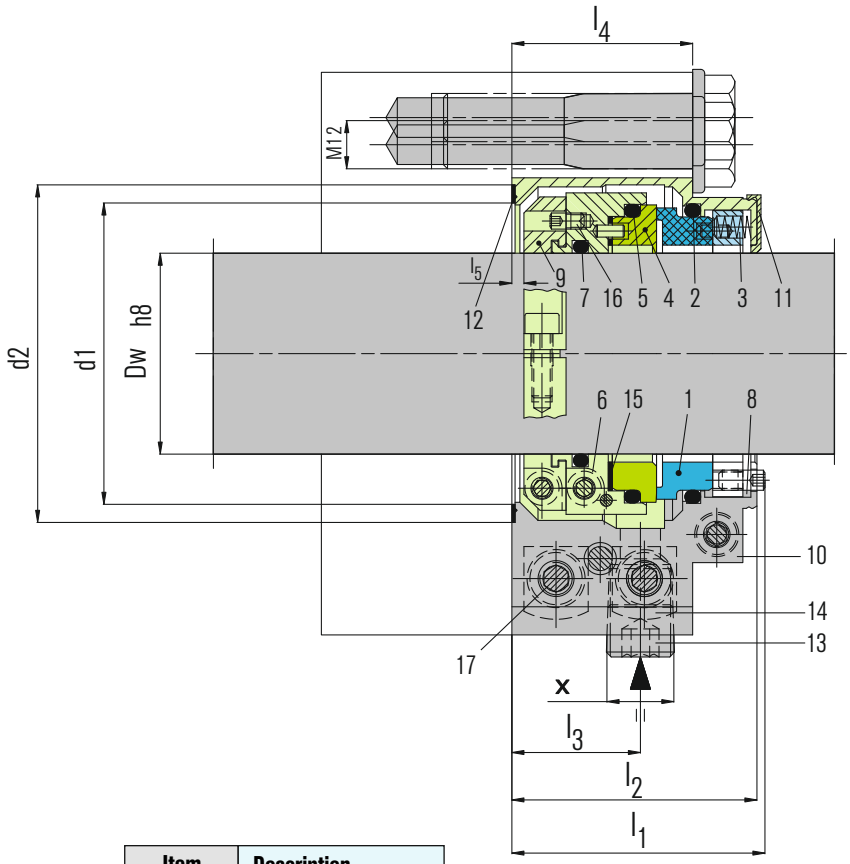
Split Mechanical Seals

Product Description

1. Balanced
2. Bi-directional
3. Built-in flushing connections
4. External pressurization
5. Fully split single seal, 2 x 2 segments, preassembled
6. Installation and wear control
7. Semi-cartridge
8. Stationary springs

Technical Features

1. Dependable operation: mechanical decoupling of clamping ring (torque transmission) avoids distortion of the seat.
2. Greater flexibility during installation: no modification necessary because the seal is located outside of the stuffing box.
3. High tolerance to shaft deflections ensured by stationary design and elastic seat mounting (gasket).
4. Low leakage: elimination of secondary seals eliminates leakage paths between split components.
5. Shaft protection: uniform torque transmission via clamping ring prevents damage caused by set screws.
6. Springs which are protected from the product prevent clogging.



Item	Description
1	Seal face
2, 5, 7	O-Ring
3	Spring
4	Seat
6	Driver
8	Thrust ring
9	Clamp collar
10	Housing
11	Assembly fixture
12, 15	Gasket
13	Head screw plug
14	Mounting plate
16	Set screw
17	Socket head screw

Typical Industrial Applications

Vertical Cooling Water Pumps
Agitators
Chemical Industry
Centrifugal pumps
Conveying pulp with stock pumps
Cooling water pumps for energy generation
Conveying timber to refiners with pumping screws
Circulation of pulp-and-water mixtures in storage vessels
Displacement pumps
Process industry
Petrochemical Industry
Power Plant Technology
Pulp and paper industry
Pump stations for waste water treatment

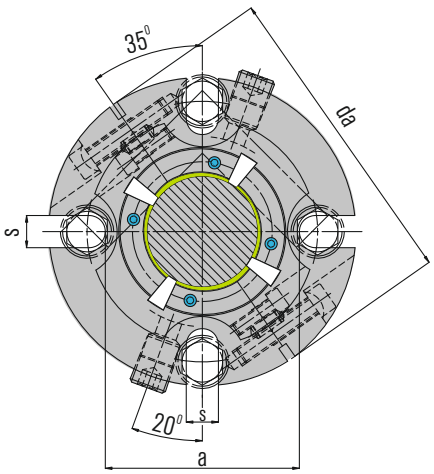
Performance Capabilities

Shaft diameter: d1 = Up to 6.000"
Pressure: p1 = 145 PSIG
Temperature: t = - 40 to + 300 °F
above 175 °F flush is recommended
Sliding velocity: Vg = 33 ft/s
Axial movement: ± 0.060"
Radial movement: ± 0.030"

Materials

Stationary Seal face: Carbon graphite antimony impregnated (A) Silicon carbide (S6)
Rotating Seal Face: Silicon carbide (S6)
Secondary seals: FKM (V), EPDM (E)
Springs: 316 SS (1)
Metal parts: 316 SS (1)

Design Variations



Dimensions

Dimensions in inches

d_w	d_1	d_2	d_a	a	s	l_1	l_2	l_3	l_4	l_5	X
2.000	2.953	3.307	5.433	3.456	0.591	2.480	2.402	1.181	1.772	0.118	3/8 NPT
2.125	3.110	3.465	5.787	3.622	0.591	2.480	2.402	1.142	1.772	0.118	3/8 NPT
2.375	3.504	3.976	5.866	4.134	0.689	2.520	2.441	1.181	1.811	0.118	3/8 NPT
2.500	3.642	4.114	6.181	4.272	0.689	2.520	2.441	1.181	1.811	0.118	3/8 NPT
2.750	3.858	4.449	6.929	4.646	0.787	2.520	2.441	1.181	1.811	0.118	3/8 NPT
3.000	4.213	4.803	7.559	5.000	0.787	2.559	2.480	1.299	1.850	0.118	3/8 NPT
3.250	4.331	5.197	7.520	5.315	0.787	2.559	2.480	1.220	1.850	0.118	3/8 NPT
3.500	4.764	5.512	7.992	5.709	0.866	2.854	2.776	1.240	1.988	0.118	1/2 NPT
3.750	4.921	5.630	8.110	5.827	0.866	2.854	2.776	1.240	1.988	0.118	1/2 NPT
4.000	5.157	5.906	8.504	6.102	0.866	2.854	2.776	1.240	1.988	0.118	1/2 NPT
4.250	5.591	6.496	9.055	6.693	0.866	2.854	2.776	1.240	1.988	0.118	1/2 NPT
4.500	5.984	6.890	9.449	7.087	0.866	2.854	2.776	1.240	1.988	0.118	1/2 NPT
4.750	5.984	6.890	9.449	7.087	0.866	2.854	2.776	1.240	1.988	0.118	1/2 NPT
5.000	6.378	7.283	10.551	7.480	1.024	3.524	3.445	1.713	2.461	0.157	1/2 NPT
5.500	6.890	7.874	11.929	8.071	1.024	3.524	3.445	1.713	2.461	0.157	1/2 NPT
6.000	7.402	8.465	12.126	8.661	1.024	3.524	3.445	1.713	2.461	0.157	1/2 NPT

Dimensions in mm

d_w	d_1	d_2	d_a	a	s	l_1	l_2	l_3	l_4	l_5	X
50	75	84	138	88	15	63	61	30	45	3	3/8 NPT
60	89	101	149	105	17,5	64	62	30	46	3	3/8 NPT
70	98	113	176	118	20	64	62	30	46	3	3/8 NPT
80	110	132	191	135	20	65	63	31	47	3	3/8 NPT
90	121	140	203	145	22	72.5	70.5	31.5	50.5	3	1/2 NPT
100	131	150	216	155	22	72.5	70.5	31.5	50.5	3	1/2 NPT
110	142	165	230	170	22	72.5	70.5	31.5	50.5	3	1/2 NPT
120	152	175	240	180	22	72.5	70.5	31.5	50.5	3	1/2 NPT
125	162	185	268	190	26	89.5	87.5	43.5	62.5	4	1/2 NPT
140	175	200	303	205	26	89.5	87.5	43.5	62	4	1/2 NPT
150	188	215	308	220	26	89.5	87.5	43.5	62.5	4	1/2 NPT

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