EagleBurgmann®
Rely on excellence

Splitex®
Cartridge split seals

The features at a glance

- Fully split single seal, 2 x 2 segments, pre-assembled
- Semi-cartridge
- Balanced
- Stationary springs
- Bi-directional
- External pressurization
- Built-in flushing connections
- Wear control

Splitex® seals can save you time and money

Fully split, pre-assembled Splitex® mechanical seals are an ideal solution to replace gland packings, when there is insufficient space for installation or replacement of a non-split seal, if pump disassembly is very difficult and time consuming, loss of production during downtime would be very expensive, or the machine operates without standby - use the EagleBurgmann Splitex®, and expensive downtime is history.

The Splitex® is made up of 2 x 2 pre-assembled halves which are simply placed around the shaft and screwed into place without the need to disassemble the pump. The seal has the same features as a non-split cartridge seal: balanced, stationary design, precision seal pre-adjustment and no contact between the springs and the product. Additionally no modification to the seal housing is needed, because the Splitex® is mounted fully on the outside. The seal is externally pressurized and comes with integrated flushing connections as a standard feature.

Due to these inherent advantages, the seals are often used in water and waste water treatment, pulp and paper, marine, textile and general process applications in a wide range of pumps and agitators.

Your advantages

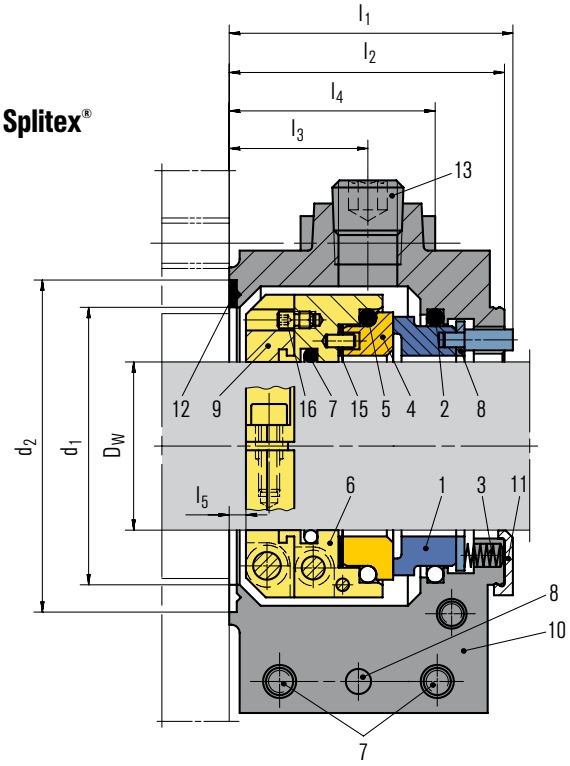
- **Reduced repair and downtime:** 2 x 2 pre-assembled parts, which speeds up and simplifies installation because the pump does not have to be disassembled
- **Long service life:** Precise pre-alignment because of pre-assembled segments. Stationary springs which are protected from the product prevent clogging
- **Greater flexibility during installation:** no modification necessary because the seal is located outside of the stuffing box
- **Dependable operation:** mechanical decoupling of clamping ring (torque transmission) avoids deformation or torsional stress at the seat
- **Simple monitoring of the seal** during operation because of mechanical wear indicator on the seal face
- **Low leakage:** elimination of secondary seals eliminates leakage paths between split components
- **High tolerance to shaft deflections** ensured by stationary design and elastic seat mounting (gasket)
- **Shaft protection:** uniform torque transmission via clamping ring prevents damage caused by set screws

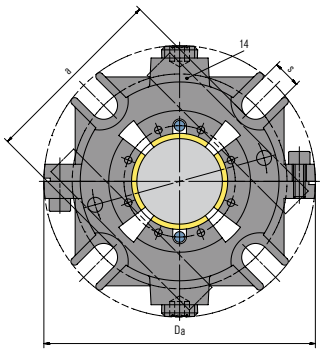
Wide range of application

- Water and waste water technology
- Pulp and paper industry
- Mining industry
- Power plant technology
- Shipbuilding
- Process technology

- Centrifugal pumps
- Agitators
- Displacement pumps
- Conveying timber to refiners with feeder screws
- Conveying pulp with stock pumps
- Pump stations for waste water treatment
- Cooling water pumps for energy generation
- Circulation of pulp-and-water mixtures in storage vessels

Splitex®





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

Universal operating range

Shaft diameter: d_1 = 50 ... 150 mm (1.940“ ... 6.000“)
Pressure: p_1 = 10 bar (145 PSI)
Temperature: t = -40 ... +150 °C (-40 ... + 300 °F)
above 80 °C (175 °F) flush is recommended
Sliding velocity: v_g = 10 m/s (33 ft/s)
Axial movement: ± 1.5 mm (1/16“)
Radial movement: ± 0.8 mm (1/32“)

Best materials

Seal face: Carbon graphite antimony impregnated (A), Silicon carbide (Q6)
Seat: Silicon carbide (Q6)
Secondary seals: FKM (V), EPDM (E), NBR (P)
Springs: CrNiMo steel (G)
Metal parts: CrNiMo steel, CrNiMo cast steel (G)

Dimensions in Inch

D_w	D_w	d_1	d_2	D_a	a	s	l_1	l_2	l_3	l_4	l_5
1.940	49.276	2.953	3.307	5.433	3.465	0.591	2.480	2.402	1.181	1.772	0.118
2.000	50.800	2.953	3.307	5.433	3.465	0.591	2.480	2.402	1.181	1.772	0.118
2.125	53.975	3.110	3.465	5.787	3.622	0.591	2.480	2.402	1.142	1.772	0.118
2.375	60.325	3.504	3.976	5.866	4.134	0.689	2.520	2.441	1.181	1.811	0.118
2.438	61.925	3.642	4.114	6.181	4.272	0.689	2.520	2.441	1.181	1.811	0.118
2.500	63.500	3.642	4.114	6.181	4.272	0.689	2.520	2.441	1.181	1.811	0.118
2.750	69.850	3.858	4.449	6.929	4.646	0.787	2.520	2.441	1.181	1.811	0.118
2.938	74.625	4.213	4.803	7.559	5.000	0.787	2.559	2.480	1.299	1.850	0.118
3.000	76.200	4.213	4.803	7.559	5.000	0.787	2.559	2.480	1.299	1.850	0.118
3.250	82.550	4.331	5.197	7.520	5.315	0.787	2.559	2.480	1.220	1.850	0.118
3.500	88.900	4.764	5.512	7.992	5.709	0.866	2.854	2.776	1.240	1.988	0.118
3.625	92.075	4.764	5.512	7.992	5.709	0.866	2.854	2.776	1.240	1.988	0.118
3.750	95.250	4.921	5.630	8.110	5.827	0.866	2.854	2.776	1.240	1.988	0.118
3.875	98.425	5.157	5.906	8.504	6.102	0.866	2.854	2.776	1.240	1.988	0.118
4.000	101.600	5.157	5.906	8.504	6.102	0.866	2.854	2.776	1.240	1.988	0.118
4.250	107.950	5.591	6.496	9.055	6.693	0.866	2.854	2.776	1.240	1.988	0.118
4.500	114.300	5.984	6.890	9.449	7.087	0.866	2.854	2.776	1.240	1.988	0.118
4.750	120.650	5.984	6.890	9.449	7.087	0.866	2.854	2.776	1.240	1.988	0.118
5.000	127.000	6.378	7.283	10.551	7.480	1.024	3.524	3.445	1.713	2.461	0.157
5.500	139.700	6.890	7.874	11.929	8.071	1.024	3.524	3.445	1.713	2.461	0.157
6.000	152.400	7.402	8.465	12.126	8.661	1.024	3.524	3.445	1.713	2.461	0.157

Dimensions in Millimeter

D_w	D_w	d_1	d_2	D_a	a	s	l_1	l_2	l_3	l_4	l_5
50	1.969	75	84	138	88	15	63	61	30	45	3
60	2.362	89	101	149	105	17.5	64	62	30	46	3
70	2.756	98	113	176	118	20	64	62	30	46	3
80	3.150	110	132	191	135	20	65	63	31	47	3
90	3.543	121	140	203	145	22	72.5	70.5	31.5	50.5	3
100	3.937	131	150	216	155	22	72.5	70.5	31.5	50.5	3
110	4.331	142	165	230	170	22	72.5	70.5	31.5	50.5	3
120	4.724	152	175	240	180	22	72.5	70.5	31.5	50.5	3
125	4.921	162	185	268	190	26	89.5	87.5	43.5	62.5	4
140	5.512	175	200	303	205	26	89.5	87.5	43.5	62.5	4
150	5.906	188	215	308	220	26	89.5	87.5	43.5	62.5	4

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EagleBurgmann is one of the leading international companies for industrial sealing technology. Our products are used everywhere that safety and reliability are important: In the oil and gas industries, petroleum refining, pharmacy, chemicals, energy, food, paper, water, marine applications, aerospace and mining. Every day, more than 5,270 employees contribute their ideas, solutions and commitment to ensuring that customers all over the world can rely on our seals. Our modular seal service, TotalSealCare™, underlines our commitment to customer orientation and our provision of tailor-made services for every application.

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