

CHI312 Single Seals

Split Seals



Product Description

1. Single seal in semi split configuration
2. Balanced design
3. Independent of direction of rotation
4. For plain shafts
5. Rotary unit with multiple springs

Technical Features

1. Economical to assemble as the complete dismantling of the equipment is not necessary to install the seal
2. Reduces down time due to ease in installation
3. Rugged seal construction
4. Versatile split seat can be used on both the sides
5. Springs are product protected to avoid contamination

Typical Industrial Applications

Chest agitators
Cooling water pumps
Defibrators
Gears
Power plant technology
Pulp and paper industry
Sea water desalination
Shipbuilding
Stern tubes
Water and waste water technology
Water turbines

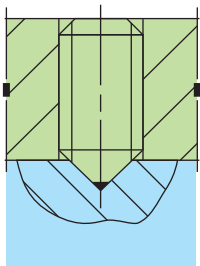
Materials

Seal face: Silicon carbide (Q1)
Seat: Silicon carbide (Q1, Q2), Carbon graphite antimony impregnated (A), Carbon graphite resin impregnated (B)
Secondary seals: FKM (V), EPDM (E), NBR (P)
Metal parts: CrNiMo steel (G)

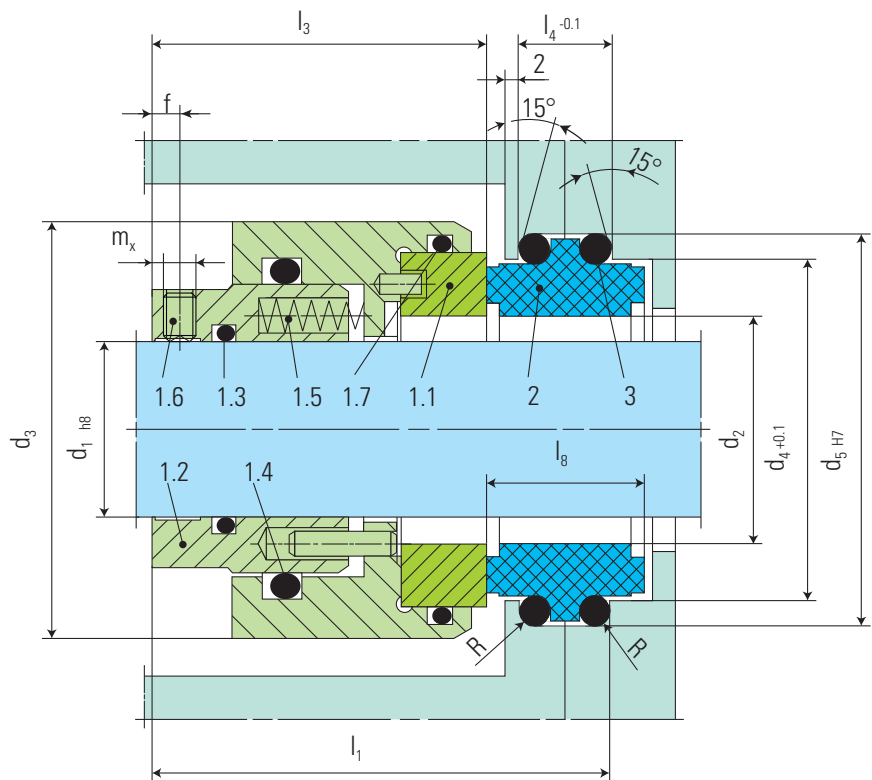
Performance Capabilities

Sizes: $d_1 =$ Upto 310 mm (Upto 12.250'')
Pressure: $p_1 =$ 25 bar (363 PSI)
Temperature: $t_1 =$ 150 °C (302 °F)
Speed = 20 m/s (66 ft/s)
Permissible axial movement: \pm 2.0 mm

Torque Transmissions



$d_1 > 105$ mm
Set screws with cone points 4 x offset by 90°



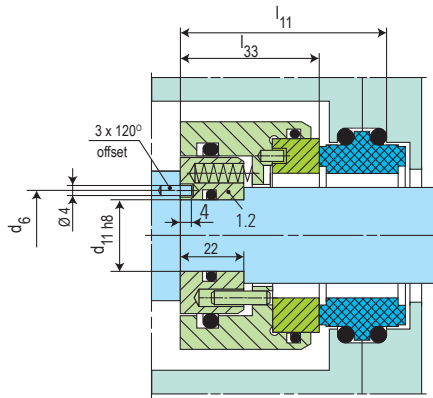
Note: The item numbers as depicted above are based on our technical experience and knowledge and are placed in the chronological order of their assembly procedure.

Item	Description
1.1	Seal face ¹⁾
1.2	Driver collar
1.3	O-ring ¹⁾
1.4	O-ring ¹⁾
1.5	Spring
1.6	Set screw
1.7	O-ring ¹⁾
2	Stationary seat ¹⁾
3	O-ring ¹⁾

¹⁾ For disassembly of unsplit seal faces, seats and O-ring should be broken or cut.



Design Variations



BGH211

Dimensions, items and descriptions as BGH201.
Item 1.2 driver collar is modified for securing on stepped shafts.
Unsplit as original equipment: Designation BGH210.

Dimensional Data

Dimensions in millimeter

d ₁	d ₁₁	d ₂	d ₃	d ₄	d ₅	d ₆	l ₁	l ₁₁	l ₃	l ₃₃	l ₄	l ₈	R	f	m _x
50	40	60	95	80.5	89.6	55	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
55	45	65	100	85.5	94.6	60	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
60	50	70	105	90.5	99.6	65	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
65	55	75	110	95.5	104.6	70	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
70	60	80	115	100.5	109.6	75	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
75	65	85	120	105.5	114.6	80	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
80	70	90	125	110.5	119.6	85	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
85	75	95	130	115.5	124.6	90	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
90	80	100	135	120.5	129.6	95	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
95	85	105	140	125.5	134.6	100	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
100	90	110	145	130.5	139.6	105	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
105	95	115	150	135.5	144.6	110	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
110	100	120	155	140.5	149.6	115	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
115	105	125	160	145.5	154.6	120	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
120	110	130	165	150.5	159.6	125	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
125	115	135	170	155.5	164.6	130	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
130	120	140	175	160.5	169.6	135	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
135	125	145	180	165.5	174.6	140	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
140	130	150	185	170.5	179.6	145	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
145	135	155	190	175.5	184.6	150	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
150	140	160	195	180.5	189.6	155	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
155	145	165	200	185.5	194.6	160	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
160	150	170	205	190.5	199.6	165	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
165	155	175	210	195.5	204.6	170	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
170	160	180	215	200.5	209.6	175	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
175	165	185	220	205.5	214.6	180	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
180	170	192	225	212.5	224.6	185	104.2	84.2	72	52	26.4	38.0	3.5	6	M8
185	175	197	230	217.5	229.6	190	104.2	84.2	72	52	26.4	38.0	3.5	6	M8
190	180	202	235	222.5	234.6	195	104.2	84.2	72	52	26.4	38.0	3.5	6	M8
195	185	207	240	227.5	239.6	200	104.2	84.2	72	52	26.4	38.0	3.5	6	M8
200	190	212	245	232.5	244.6	205	109.2	84.2	77	52	26.4	38.0	3.5	6	M10
205	195	217	255	237.5	249.6	210	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
210	200	222	260	242.5	254.6	215	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
220	210	232	270	252.5	264.6	225	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
230	220	242	280	262.5	274.6	235	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
240	230	252	290	272.5	284.6	245	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
250	240	262	300	282.5	294.6	255	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
260	250	272	310	292.5	304.6	265	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
270	260	282	320	302.5	314.6	275	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
280	270	292	330	312.5	324.6	285	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
290	280	302	340	322.5	334.6	295	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
300	290	312	350	332.5	344.6	305	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
310	300	322	360	342.5	354.6	315	109.2	84.2	77	52	26.4	38.0	3.5	8	M10

d₁ > 310 on request

inch size available from size 2.000 to 12.250

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