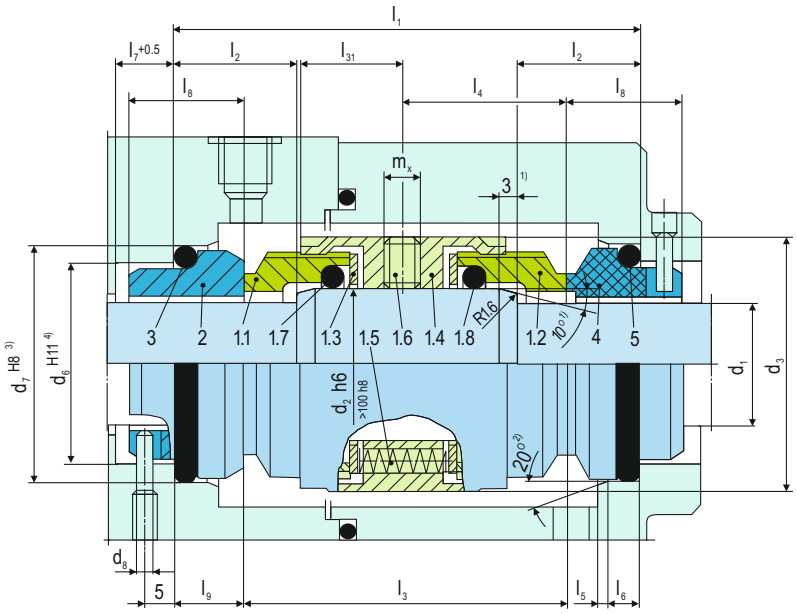
Product Description

1. Dual seal configuration
2. Balanced design
3. Independent of direction of rotation
4. For stepped shafts
5. Rotary unit with multiple springs
6. Pumping device available for increased efficiency in circulation (B740F-D)

Technical Features

1. Versatile torque transmission available
2. Capable of self cleaning
3. Multifaceted application usage
4. Pumping device to increase efficiency in circulation for media with higher viscosity available
5. Short installation length available
6. Suitable for media with low solids content
7. EN 12756 (For connection dimensions d_1 up to 100 mm)

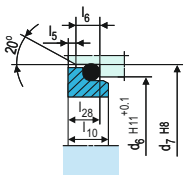


Note: The item numbers as depicted above are based on our technical experience and knowledge and are placed in the chronological order of their assembly procedure.

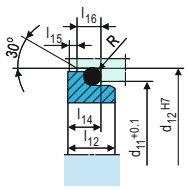
Item	Part no.	Description
1.1	472.1	Seal face
1.2	472.2	Seal face
1.3	474	Thrust ring
1.4	485	Drive collar
1.5	477	Spring
1.6	904	Set screw
1.7	412.1	O-ring
1.8	412.2	O-ring
2	475.1	Seat (G9)
3	412.3	O-ring
4	475.2	Seat (G9)
5	412.4	O-ring
DIN 24250		

1) d_1 > 100 mm: 2 mm x 30°
2) d_1 > 100 mm: 30°
3) d_1 > 100 mm: H7
4) d_1 > 100 mm: +0.1

Stationary Seats



G6 (EN 12756)



G4

Typical Industrial Applications

Adhesives
Chemical industry
Media with poor lubrication properties
Media with low solids content and abrasive particles
Process industry
Toxic and hazardous media
Chemical standard pumps

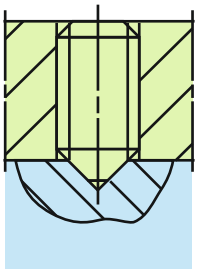
Performance Capabilities

Sizes: d_1 = Upto 200 mm (Upto 7.875")
Pressure:
p_1 = 80 bar (1160 PSI) for d_1 = 14 ... 100 mm,
p_1 = 25 bar (363 PSI) for d_1 = 100 ... 200 mm,
p_1 = 16 bar (232 PSI) for d_1 > 200 mm
Temperature: t = -50 °C...+220 °C
(-58 °F...+428 °F)
Speed = 20 m/s (66 ft/s)
Permissible axial movement:
d_1 up to 100 mm: ± 0.5 mm
d_1 from 100 mm: ± 2.0 mm

Standards

EN 12756

Torque Transmission

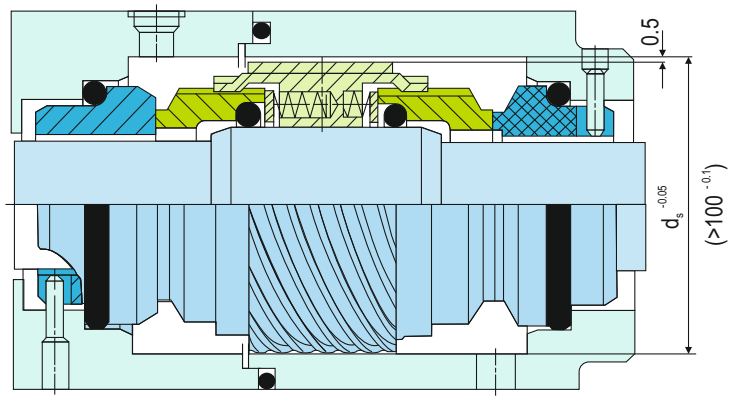


$d_2 \geq 105$ mm VIA 4 set screws with cone points. (standard arrangement)

Materials

Seal face: Silicon carbide (Q1, Q2), Carbon graphite antimony impregnated (A), Aluminium oxide (V), Special cast CrMo steel (S)
Seat G9: Carbon graphite antimony impregnated (A), Carbon graphite resin impregnated (B), Silicon carbide (Q1*, Q2*)
Secondary seals: EPDM (E), NBR (P), FKM (V), FFKM (K)
Springs: CrNiMo steel (G)
Metal parts: CrNiMo steel (G), Duplex (G1)
* Cannot be combined with seal face made of S

Design Variations



B740F-D

Dimensions, items and descriptions as for B740-D, but with pumping screw (Item no. 1.4)
Dependent on direction of rotation.

Dimensional Data

Dimensions in millimeter

d_1	d_2	d_3	d_6	d_7	d_8	d_{11}	d_{12}	d_s	l_1	l_2	l_3	l_4	l_5	l_6	l_7	l_8	l_9	l_{10}	l_{12}	l_{14}	l_{15}	l_{16}	l_{28}	l_{31}	m_x	R
14	18	33	21.0	25	3	20.5	24.6	-	73	18	53	26.5	1.5	4	8.5	17.5	10	7.5	6.5	5.6	1.5	5	6.6	17	M5	1.2
16	20	35	23.0	27	3	22.0	28.0	-	73	18	53	26.5	1.5	4	8.5	17.5	10	7.5	8.5	7.5	1.5	5	6.6	17	M5	1.5
18	22	37	27.0	33	3	24.0	30.0	42	76	20	53	26.5	2	5	9	19.5	11.5	8.5	9	8	1.5	5	7.5	17	M5	1.5
20	24	39	29.0	35	3	29.5	35.0	44	76	20	53	26.5	2	5	9	19.5	11.5	8.5	8.5	7.5	1.5	5	7.5	17	M5	1.5
22	26	41	31.0	37	3	29.5	35.0	45	76	20	53	26.5	2	5	9	19.5	11.5	8.5	8.5	7.5	1.5	5	7.5	17	M5	1.5
24	28	43	33.0	39	3	32.0	38.0	47	77	20	54	27	2	5	9	19.5	11.5	8.5	8.5	7.5	1.5	5	7.5	17.5	M6	1.5
25	30	45	34.0	40	3	32.0	38.0	49	77	20	54	27	2	5	9	19.5	11.5	8.5	8.5	7.5	1.5	5	7.5	17.5	M6	1.5
28	33	48	37.0	43	3	36.0	42.0	51	77	20	54	27	2	5	9	19.5	11.5	8.5	10	9	1.5	5	7.5	17.5	M6	1.5
30	35	50	39.0	45	3	39.2	45.0	54	77	20	54	27	2	5	9	19.5	11.5	8.5	11.5	10.5	1.5	5	7.5	17.5	M6	1.5
32	38	55	42.0	48	3	42.2	48.0	59	79	20	56	28	2	5	9	19.5	11.5	8.5	11.5	10.5	1.5	5	7.5	18.5	M6	1.5
33	38	55	42.0	48	3	44.2	50.0	59	79	20	56	28	2	5	9	19.5	11.5	8.5	12	10.5	1.5	5	7.5	18.5	M6	1.5
35	40	57	44.0	50	3	46.2	52.0	61	80	20	57	28.5	2	5	9	19.5	11.5	8.5	12	11	1.5	5	7.5	19	M6	1.5
38	43	60	49.0	56	4	49.2	55.0	65	85	23	57	28.5	2	6	9	22	14	10	11.3	10.3	2	6	9	19	M6	1.5
40	45	62	51.0	58	4	52.2	58.0	66	85	23	57	28.5	2	6	9	22	14	10	11.8	10.8	2	6	9	19	M6	1.5
43	48	65	54.0	61	4	53.3	62.0	69	85	23	57	28.5	2	6	9	22	14	10	13.2	12	2	6	9	19	M6	2.5
45	50	67	56.0	63	4	55.3	64.0	71	84	23	56	28	2	6	9	22	14	10	12.8	11.6	2	6	9	19.5	M6	2.5
48	53	70	59.0	66	4	59.7	68.4	75	84	23	56	28	2	6	9	22	14	10	12.8	11.6	2	6	9	19.5	M6	2.5
50	55	72	62.0	70	4	60.8	69.3	76	93	25	63	31.5	2.5	6	9	23	15	10.5	12.8	11.6	2	6	9.5	19.5	M6	2.5
53	58	79	65.0	73	4	63.8	72.3	83	97	25	67	33.5	2.5	6	9	23	15	12	13.5	12.3	2	6	11	23.5	M8	2.5
55	60	81	67.0	75	4	66.5	75.4	85	97	25	67	33.5	2.5	6	9	23	15	12	14.5	13.3	2	6	11	23.5	M8	2.5
58	63	84	70.0	78	4	69.5	78.4	88	104	25	74	37	2.5	6	9	23	15	12	14.5	13.3	2	6	11	24.5	M8	2.5
60	65	86	72.0	80	4	71.5	80.4	95	104	25	74	37	2.5	6	9	23	15	12	14.5	13.3	2	6	11	24.5	M8	2.5
63	68	89	75.0	83	4	74.5	83.4	93	109	25	79	39.5	2.5	6	9	23	15	12	14.2	13.3	2	6	11	24.5	M8	2.5
65	70	91	77.0	85	4	76.5	85.4	95	98	25	68	34	2.5	6	9	23	15	12	14.2	13	2	6	11	23.5	M8	2.5
70	75	99	83.0	92	4	83.0	92.0	105	112.5	28	76.4	38.2	2.5	7	9	26	18	12.5	14.9	13.7	2	6	11.3	25.5	M8	2.5
75	80	104	88.0	97	4	90.2	99.0	109	112.5	28	76.4	38.2	2.5	7	9	26	18	12.5	14.2	13	2	6	11.3	25.5	M8	2.5
80	85	109	95.0	105	4	95.2	104.0	114	112.5	28	76	38	3	7	9	26.2	18.2	12.5	15.2	14	2	6	11.3	25	M8	2.5
85	90	114	100.0	110	4	100.2	109.0	119	112.5	28	76	38	3	7	9	26.2	18.2	13	16.2	15	2	6	12	25.5	M8	2.5
90	95	119	105.0	115	4	105.2	114.0	124	112.5	28	76	38	3	7	9	26.2	18.2	15	16	14.8	2	6	14	25	M8	2.5
95	100	124	110.0	120	4	111.6	120.3	129	110.5	28	76	38	3	7	9	25.2	17.2	15	16	14.8	2	6	14	25	M8	2.5
100	105	129	115.0	125	4	114.5	123.3	134	110.5	28	76	38	3	7	9	25.2	17.2	15	17	15.8	-	-	14	25.5	M8	2.5
105	115	148	122.2	134.3	5	-	-	153	122	32	82	41	2	10	-	30	20	15	17	15.8	-	-	14	31.5	M8	2.5
110	120	153	128.2	140.3	5	-	-	158	122	32	82	41	2	10	-	30	20	-	-	-	-	-	-	31.5	M8	-
115	125	158	136.2	148.3	5	-	-	163	122	32	82	41	2	10	-	30	20	-	-	-	-	-	-	31.5	M8	-
120	130	163	138.2	150.3	5	-	-	168	122	32	82	41	2	10	-	30	20	-	-	-	-	-	-	31.5	M8	-
125	135	168	142.2	154.3	5	-	-	173	122	32	82	41	2	10	-	30	20	-	-	-	-	-	-	31.5	M8	-
130	140	173	146.2	158.3	5	-	-	178	122	32	82	41	2	10	-	30	20	-	-	-	-	-	-	31.5	M8	-
135	145	178	152.2	164.3	5	-	-	183	122	32	82	41	2	10	-	30	20	-	-	-	-	-	-	31.5	M8	-
140	150	183	156.2	168.3	5	-	-	188	122	32	82	41	2	10	-	30	20	-	-	-	-	-	-	31.5	M8	-
145	155	191	161.2	173.3	5	-	-	196	133	34	93	46.5	2	10	-	30	20	-	-	-	-	-	-	35.5	M8	-
150	160	196	168.2	180.3	5	-	-	201	137	36	93	46.5	2	10	-	32	22	-	-	-	-	-	-	35.5	M8	-
155	165	201	173.2	185.3	5	-	-	206	141	38	93	46.5	2	12	-	34	24	-	-	-	-	-	-	35.5	M8	-
160	170	206	178.2	190.3	5	-	-	211	141	38	93	46.5	2	12	-	34	24	-	-	-	-	-	-	35.5	M8	-
165	175	211	183.2	195.3	5	-	-	216	141	38	93	46.5	2	12	-	34	24	-	-	-	-	-	-	35.5	M8	-
170	180	216	188.2	200.3	5	-	-	221	141	38	93	46.5	2	12	-	34	24	-	-	-	-	-	-	35.5	M8	-
175	185	221	193.2	205.3	5	-	-	226	141	38	93	46.5	2	12	-	34	24	-	-	-	-	-	-	35.5	M8	-
180	190	226	207.5	219.3	5	-	-	231	149	42	93	46.5	2	12	-	38	28	-	-	-	-	-	-	35.5	M8	-
185	195	231	212.5	224.3	5	-	-	236	149	42	93	46.5	2	12	-	38	28	-	-	-	-	-	-	35.5	M8	-
190	200	236	217.5	229.3	5	-	-	241	149	42	93	46.5	2	12	-	38	28	-	-	-	-	-	-	35.5	M8	-
195	205	245	222.5	234.3	5	-	-	250	151	43	95	47.5	2	12	-	38	28	-	-	-	-	-	-	-	M10	-
200	210	250	227.5	239.3	5	-	-	255	151	43	95	47.5	2	12	-	38	28	-	-	-	-	-	-	-	-	-

d_1 > 200 on request
inch size available from size 0.625 to 7.875
Note: Additional technical & dimensional information will be provided on request.