



NINGBO HUAQIU INDUSTRY AND TRADE CO.,LTD

NingBo HuaQiang Mechanical Seal Factory



2024 HQ Catalogue 5

(Mixer,Slurry....Seals)

🏠 Add:NO.45Lane 578 TianTong Southern Road YinZhou NingBo City China

☎ Tel:0086-574-87338199

📠 Fax:0086-574-87338119

🌐 Site:[Http://www.hqseal.com](http://www.hqseal.com), www.hqseals.com

✉ Email:hq@hqseal.com

hq1@hqseal.com

hq2@hqseal.com

hq3@hqseal.com

DESCRIPTION

Standard Mechanical Seals.....	Catalogue-1
Cartridge, Metal Bellow Seals.....	Catalogue-2
O.E.M Seals(A.B.S., Alfa Laval, APV, Andritz, Compressor, Fristam, Flygt, Grundfos, Hilge, Lowara, K.S.B., Sulzer, Tsurumi Seals and so on).....	Catalogue-3
Seat Series.....	Catalogue-4
Mixer and Agitator, Kettle, Desulfurization, Slurry Seals, Nozzle, Rotary Join.....	Catalogue-5



<http://www.hqseal.com>



hq@hqseal.com

Kettle Pump Seals

HQK-B01(Burgmann M461).....	5
HQK-B02(Burgmann M481).....	6
HQK-B12(Burgmann MR-D).....	7
HQK-B13(Burgmann ERB/ERC).....	8
HQK-B13(Burgmann ERB/ERC).....	9
HQK-B14(Burgmann AGSZ).....	10
HQK-08(Burgmann AD510/AD520).....	11
HQK-B09(Burgmann SeccoMix).....	12
HQK-B11(Burgmann HSH-D).....	13
HQK-B06(Burgmann SeccoMixR).....	14
HQK-B07(Burgmann HS-D).....	15
HQK-J04(Crane 32).....	16
HQK-J05(Crane 32i).....	17
HQK-J18(Crane CK725)/HQK-J19(Crane CK726).....	18
HQK-A06(AES CSM).....	19
HQK-A07(AES CDM).....	20
HQMA-14(AES CDMSC).....	21
HQMA-15(AES SCMS).....	22
HQK-14(2001/2002/2004/2005).....	23
HQK-03(204B).....	24
HQK-05(204).....	25
HQK-09(206).....	26
HQK-15(202).....	27
HQK-17(205).....	28
25.....	29
26.....	30

Mixer and Agitator Seals

HQMA-11(AEB-60).....	31
HQMA-12(AEB-80).....	32
HQMA-17(AEB-100).....	33
HQMA-02(AEB-100 Latest).....	34
HQMA-05(AEB-60WS).....	35
HQMA-14(509-65).....	36
HQMA-15(261-85S15).....	37
HQMA-09(SCB428-2.5",3",3.5").....	38
HQMA-13(SCB428-25SV25M-5.34).....	39
HQMA-18(261-40S15).....	40
HQMA-19(509-50/60/65...100).....	41
HQMA-10(ESD 42L060).....	42



HQMA-22(ESD 042L-80).....	43
HQMA-01(ESD 42L-080R).....	44
HQMA-06(ESD HWL2026N).....	45
HQMA-04(ESD 042-080).....	46
HQMA-24(ESD-60/80/100).....	47
HQMA-08(SE3700).....	48
HQMA-23(SE3000).....	49
HQMA-21(MUT-60/80/100/120MM).....	50
47.....	51
48.....	52

Desulfurization Pump Seals

HQMA-17(AEB-100).....	53
HQMA-15(261-85S15).....	54
HQMA-09(SCB428-2.5",3",3.5").....	55
HQMA-13(SCB428-25SV25M-5.34).....	56
HQMA-24(ESD-60/80/100).....	57
HQD-01.....	58
HQD-03.....	59
HQD-04.....	60
HQD-05.....	61
HQD-06.....	62
HQD-09.....	63
HQD-15.....	64
HQD-17.....	65
HQD-22.....	66
HQD-23.....	67
HQD-24.....	68
HQD-25.....	69

Slurry Pump Seals

HQSR-01.....	70
HQSR-02.....	71
HQSR-03.....	72
HQSR-04/HQSR-05.....	73
HQSR-06/HQSR-07.....	74
HQSR-08/HQSR-09.....	75
HQSR-10/HQSR-11.....	76
HQCS-J29(Crane 5840).....	77
HQS-C170(Chesterton 170).....	78
HQS-A-CDPH(AES CDPH).....	79
HQS-J5860(Crane 5860).....	80



Nozzles

Nozzle-21T/22T.....	81
Nozzle-23T/24T.....	82
Nozzle-25T/26T.....	83
Nozzle-31SS/32SS.....	84
Nozzle-33SS/34SS.....	85
Nozzle-35SS/36SS.....	86
Nozzle-37SS/38SS.....	87
Nozzle-41P/42P.....	88
Nozzle-43P/44P.....	89
Nozzle-01S/04S.....	90
Nozzle-05S/08S.....	91
Nozzle-09S/13S.....	92

Rotary Joints

(RYQ Type Rotary Joint)

JRYQD.....	93
JRYQD-F.....	94
JRYQS-G.....	95
JRYQS-GF.....	96
JRYQS-X.....	97
JRYQS-XF.....	98

(H Type Rotay Joint)

JHD.....	99
JHD-F.....	100
JHS-G.....	101
JHS-GF.....	102
JHS-X.....	103
JHS-XF.....	104

(Hight Speed Rotary Joint)

JHS-01.....	105
JHS-02.....	106

(Hight Pressure Type)

JHP-01.....	107
JHP-02.....	108
JHP-03.....	109
JHP-04.....	110
JHP-05.....	111



(D Type Rotary Joint)

JDD.....	112
JDD-F.....	113
JDS-G.....	114
JDS-GF.....	115
JDS-X.....	116
JDS-XF.....	117

(Q Type Rotary Joint)

JQD(20-50).....	118
JQD(60-100).....	119
JQD-F(20-50).....	120
JQD-F(60-100).....	121
JQS-G(20-50).....	122
JQS-G(60-100).....	123
JQS-GF(20-50).....	124
JQS-GF(60-100).....	125
JQS-X(20-50).....	126
JQS-X(60-100).....	127
JQS-XF(20-50).....	128
JQS-XF(60-100).....	129

(Milti-Passage Rotary Joint)

JMP-02/JMP-03.....	130
JMP-04/JMP-05.....	131
JMP-06/JMP-07.....	132
JMP-08/JMP-12.....	133

(Hydraulic Rotary Joint)

JHD-02/JHD-03.....	134
JHD-04/JHD-05.....	135
JHD-06/JHD-07.....	136
JHD-08/JHD-12.....	137
JHD-24.....	138
Cross Referance Charts.....	139
Material Code.....	140
Material Code.....	141
Material Code.....	142

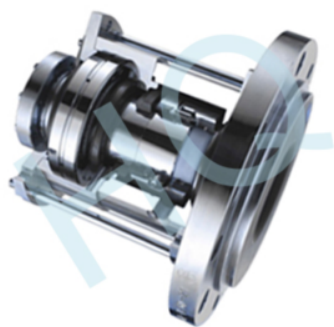


<http://www.hqseal.com>

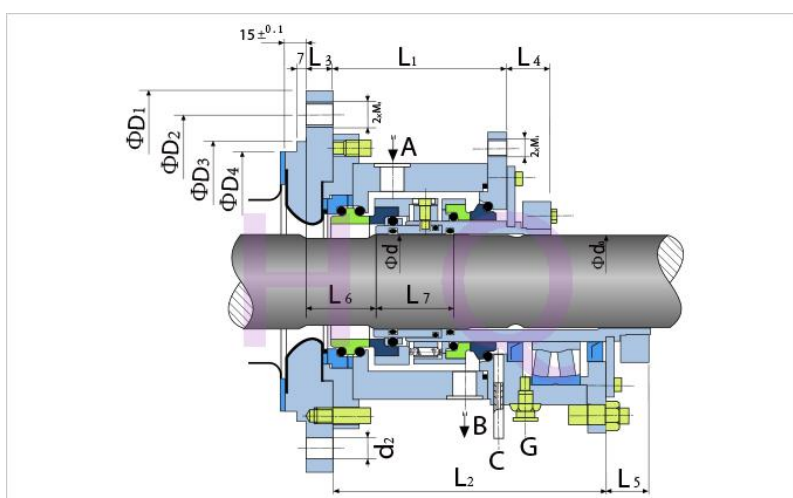


hq@hqseal.com

HQK-B01(M461)



Type: Kettle Seal
 Replacement: Burgmann M461
 Temperature: -40°C to +200°C
 Pressure: $\leq 1.6\text{Mpa}$
 Speed: $\leq 5\text{m/s}$
 Material: According to application and customer's specification



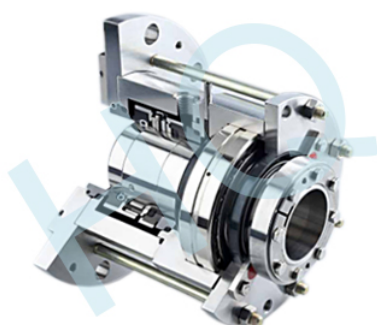
<http://www.hqseal.com>



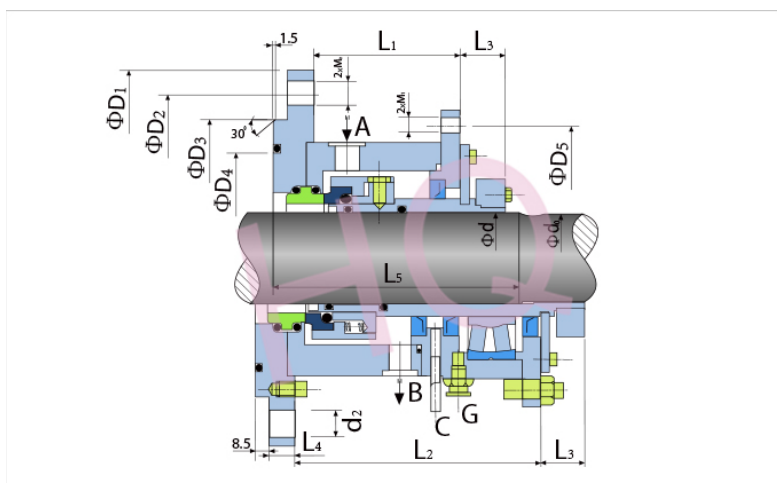
hq@hqseal.com

d (mm)	d01	Nxd2	Nominal size	Flange size2	D1	D2	D3	NxD5	D6	D7
40	38	4X18	40	E125	175	145	110	—	—	102
50	48	8X18	50	E200	240	210	176	—	—	138
60	58	8X22	60	E250	275	240	204	—	—	188
80	78	8X22	80	E300	305	270	234	—	—	212
100	98	12X22	100	E400	395	350	313	—	—	268
100	98	12X22	100	E500	395	350	313	—	—	268
125	120	4X22	125	E700	505	460	422	12X22	320	306
140	135	4X22	140	E700	505	460	422	12X22	320	306
160	150	4X22	160	E700	505	460	422	12X22	320	306
160	150	4X22	160	E900	505	460	422	12X22	320	306
160	150	4X26	161	E901	565	515	474	12X22	370	356
L1	L2	L3	L4	L5	L6	L7	M1	M2	A.B	
142	184	25	35	28	50	50	M12	M16	G3/8	
147	195	25	40	28	50	50	M12	M16	G3/8	
158	203	25	42	28	50	60	M12	M20	G3/8	
170	240	30	45	34	60	60	M16	M20	G1/2	
177	240	30	52	34	60	60	M16	M20	G1/2	
177	240	30	52	34	60	60	M16	M20	G1/2	
208	266	30	75	40	60	80	M20	M20	G1/2	
223	282	30	79	40	60	80	M20	M20	G1/2	
228	282	30	77	40	60	85	M20	M20	G1/2	
228	282	30	77	40	60	85	M20	M20	G1/2	
228	282	30	77	40	60	85	M20	M20	G1/2	

HQK-B02(M481)



Type: Kettle Seal
 Replacement: Burgmann M481
 Temperature: -280°C
 Pressure: $\leq 1.6\text{Mpa}$
 Speed: $\leq 5\text{m/s}$
 Material: According to application and customer's specification



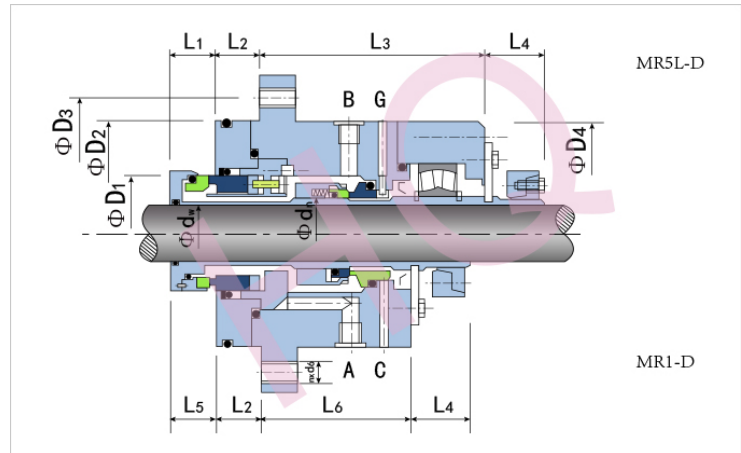
<http://www.hqseal.com>



hq@hqseal.com

d (mm)	d 0	Nxd 2	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5	M1	M1	A.B
40	38	4X18	175	145	110	90	122	87.0	136.0	28	15	143	M12	M16	G3/8
50	48	8X18	240	210	176	135	157	89.0	149.0	28	17	148	M12	M16	G3/8
60	58	8X18	240	210	176	135	168	93.5	156.0	28	17	158	M12	M16	G3/8
80	78	8X22	275	240	204	155	203	104.5	189.0	34	20	168	M16	M20	G1/2
100	98	8X22	305	270	234	190	228	109.0	190.0	34	20	178	M16	M20	G1/2
125	120	8X22	330	295	260	215	268	110.0	205.0	40	20	203	M20	M20	G1/2
140	135	12X22	395	350	313	250	285	124.0	222.0	40	20	208	M20	M20	G1/2
160	150	12X22	395	350	313	265	297	127.5	219.5	40	25	213	M20	M20	G1/2
180	170	12X22	445	400	364	310	332	132.5	230.0	45	25	233	M24	M20	G1/2
200	190	12X22	445	400	364	310	352	137.5	237.5	45	25	243	M24	M20	G1/2
220	210	16X22	505	460	422	340	381	149.5	249.5	50	25	263	M24	M20	G1/2

HQK-B12(MR-D)



Type: Kettle Seal
 Replacement: Burgmann MR-D
 Temperature: -20°C to +200°C
 Pressure: ≤1.6Mpa
 Speed: ≤5m/s
 Material: According to application and customer's specification



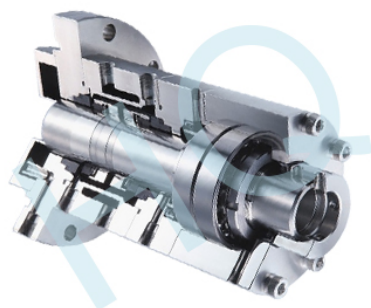
<http://www.hqseal.com>



hq@hqseal.com

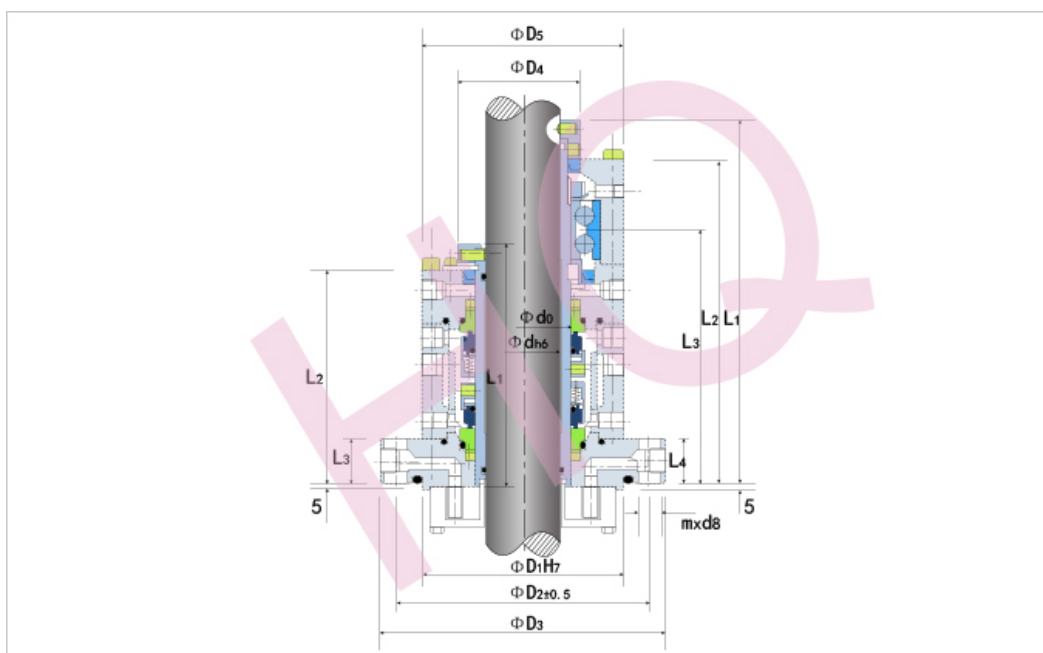
dn (mm)	dw	D1	D2	D3	D4	L1	L2	L3	L4	L5	L6	A,B	C	nxd6
30	20	52	117	140	118	35	30	114	30	22	75	G3/8	G1/8	6x12
35	25	58	124	150	128	35	30	127	30	22	85	G3/8	G1/8	6x12
40	30	62	134	165	138	35	30	129	30	24	87	G3/8	G1/8	6x12
45	35	68	140	175	148	35	30	130	30	24	87	G3/8	G1/8	6x12
50	40	75	145	175	148	35	30	133	34	26	90	G3/8	G1/8	8x12
55	45	82.7	150	175	148	35	30	135	34	26	90	G3/8	G1/8	8x12
60	50	85	160	185	158	41	30	150	34	30	105	G3/8	G1/8	8x12
65	50	90	170	195	168	41	30	160	34	30	105	G3/8	G1/8	8x12
70	55	95	175	205	178	41	30	160	34	30	105	G3/8	G1/8	8x12
75	60	100	180	205	178	41	30	160	34	30	105	G3/8	G1/8	8x14
80	65	110	190	220	188	41	40	190	44	30	105	G3/8	G1/8	8x14
85	70	115	195	230	198	41	40	190	44	30	105	G3/8	G1/8	8x14
90	75	120	200	230	198	41	40	190	44	30	105	G3/8	G1/8	8x14
95	80	127	205	235	203	41	40	190	44	30	105	G3/8	G1/8	8x14
100	80	130	210	240	208	41	40	190	44	30	105	G3/8	G1/8	8x14
105	85	135	215	250	218	41	40	190	44	30	105	G1/2	G1/4	8x14
110	90	140	230	260	228	41	40	190	44	31	110	G1/2	G1/4	8x14
115	95	145	235	270	238	41	40	190	44	31	110	G1/2	G1/4	8x14
120	100	150	240	270	238	42	40	200	50	31	120	G1/2	G1/4	8x14
130	110	160	255	290	258	42	40	200	50	31	120	G1/2	G1/4	8x18
140	120	172	265	305	268	43	50	220	50	41	130	G1/2	G1/4	8x18
150	130	185	275	315	278	43	50	220	50	41	130	G1/2	G1/4	8x18
160	140	195	290	335	298	43	50	220	50	41	130	G1/2	G1/4	8x18
170	150	205	300	335	323	47	50	220	50	45	130	G1/2	G1/4	8x18
180	160	220	330	355	358	47	50	250	50	45	140	G1/2	G1/4	8x18
190	170	230	345	375	358	47	50	250	55	45	140	G1/2	G1/4	8x18
200	180	240	365	395	378	47	50	250	55	45	140	G1/2	G1/4	8x18
210	190	260	385	415	378	50	50	250	55	45	140	G1/2	G1/4	12x18
220	190	270	395	425	388	50	50	250	55	45	140	G1/2	G1/4	12x18
230	200	280	395	425	388	50	50	300	55	45	160	G1/2	G1/4	12x18

HQK-B13(ERB/ERC)

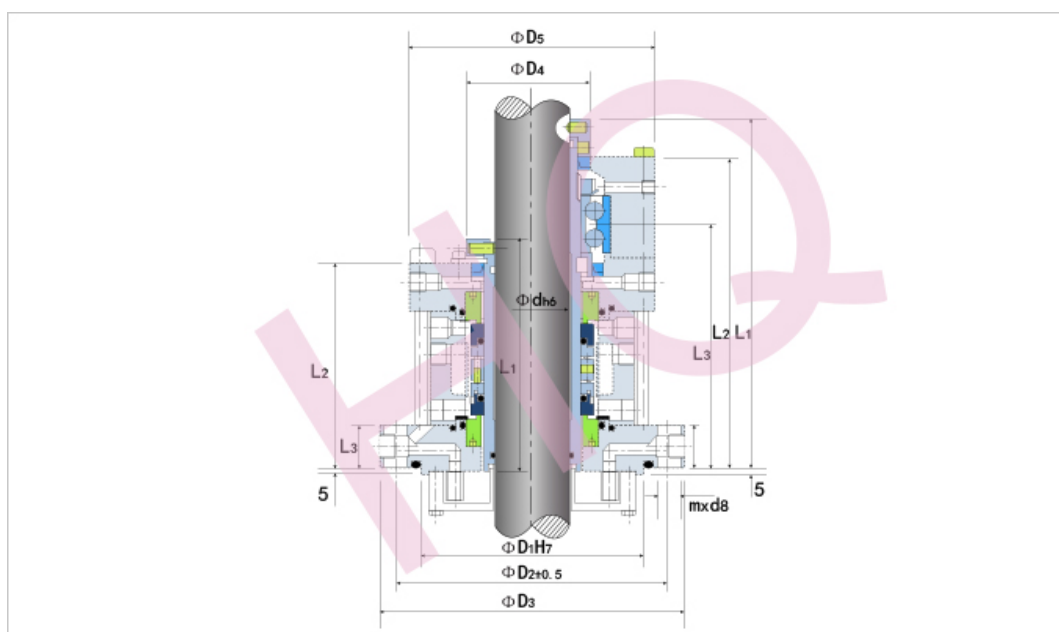


Type: Kettle Seal
 Replacement: Burgmann ERB/ERC
 Temperature: -20°C to $+200^{\circ}\text{C}$
 Pressure: $\leq 1.6\text{Mpa}$
 Speed: $\leq 5\text{m/s}$
 Material: According to application
 and customer's specification

50mm-100mm



110mm-200mm



HQK-B13(ERB/ERC)

ERB-Dimensions in millimeter

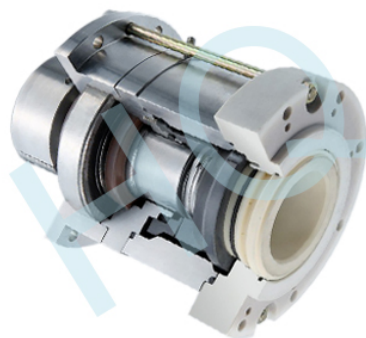
d (mm)	d0	D1	D2	D3	D4	D5	d8	L1	L2	L3	L4	n
35	50	135	170	195	61	134	14	268	237	185	30	8
45	60	145	180	205	75	144	14	283	252	197	30	8
55	70	155	190	215	85	154	14	293	262	205	30	8
65	80	165	200	225	95	164	14	303	272	207	30	8
75	90	175	210	235	105	174	14	323	287	219	30	8
85	100	185	220	245	115	184	14	323	287	219	30	8
95	110	205	240	265	125	218	14	33	291	216	30	8
105	120	215	261	289	135	235	19	371	309	233	35	12
110	130	225	271	299	145	245	19	364	322	238	35	12
120	140	235	281	309	159	255	19	369	322	238	35	12
130	150	280	335	375	169	295	23	424	377	288	45	12
140	160	290	345	385	179	305	23	433	386	291	45	12
150	170	300	355	395	189	315	23	452	400	295	45	12
160	180	310	365	405	199	328	23	458	406	299	45	12
170	190	320	375	415	209	338	23	473	416	309	45	12
180	200	330	390	430	219	358	23	483	426	312	45	12

ERC-Dimensions in millimeter

d (mm)	d0	D1	D2	D3	D4	D5	d8	L1	L2	L3	n
35	50	135	170	195	66	134	14	162	144	30	8
45	60	145	180	205	76	144	14	175	157	30	8
55	70	155	190	215	86	154	14	186	168	30	8
65	80	165	200	225	96	164	14	186	168	30	8
75	90	175	210	235	110	174	14	198	178	30	8
85	100	185	220	245	120	184	14	198	178	30	8
95	110	205	240	265	130	218	14	200	173	30	8
105	120	215	261	289	140	235	19	217	190	35	12
110	130	225	271	299	154	245	19	222	190	35	12
120	140	235	281	309	164	255	19	222	190	35	12
130	150	280	335	375	174	295	23	261	229	45	12
140	160	290	345	385	184	305	23	263	231	45	12
150	170	300	355	395	194	315	23	263	231	45	12
160	180	310	365	405	204	328	23	263	231	45	12
170	190	320	375	415	214	338	23	273	241	45	12
180	200	330	390	430	224	358	23	277	245	45	12

HQK-B14(AGSZ)

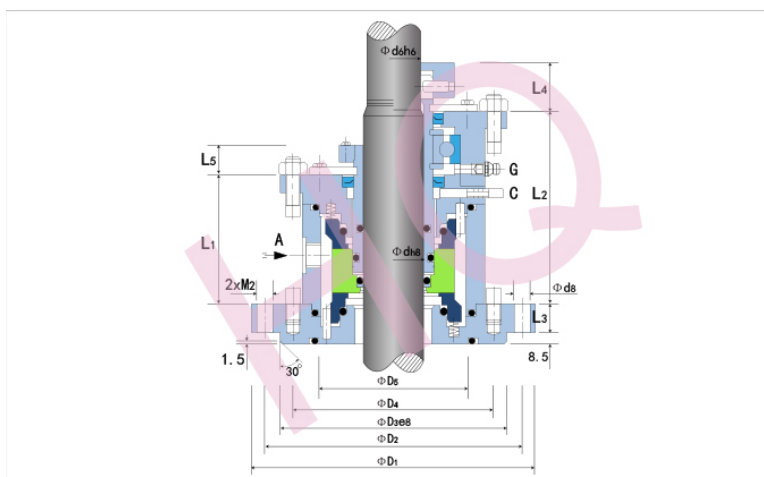
Type: Kettle Seal
 Replacement: Burgmann AGSZ
 Temperature: -20 to +180°C
 Pressure: $\leq 1.8\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: B,A1,Q1,Q2,U2,P,
 E,N,V,F,G,Alfa



<http://www.hqseal.com>



hq@hqseal.com



AGSZ481

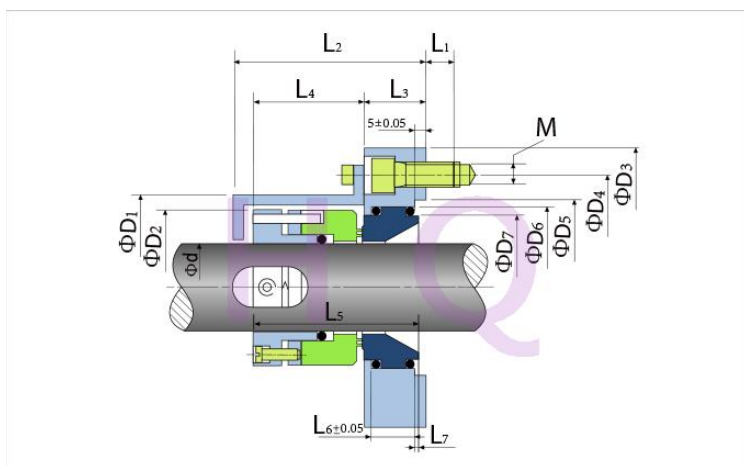
d (mm)	D1	D2	D3	D4	D5	D6	Nxd8	L1	L2	L3	L4	L5	M1	M2	A
40	175	145	110	122	90	38	4x18	81.0	137.0	15	35.0	28	M12	M16	G3/8
50	240	210	176	155	135	48	8x18	82.5	130.5	17	42.0	28	M12	M16	G3/8
60	240	210	176	176	135	58	8x18	78.5	128.0	18	39.0	28	M12	M16	G3/8
80	275	240	204	203	155	78	8x22	94.5	146.0	20	50.0	34	M16	M20	G1/2
100	305	270	234	228	190	98	8x22	95.0	156.5	20	56.5	34	M16	M20	G1/2
125	330	295	260	268	215	120	8x22	95.0	163.5	20	60.0	39	M20	M20	G1/2
140	395	350	313	285	250	135	12x22	97.0	168.5	20	82.0	41	M20	M20	G1/2
160	395	350	313	302	265	150	12x22	97.0	176.5	25	81.0	41	M20	M20	G1/2
180	445	400	364	332	310	170	12x22	-	-	25	-	-	M24	M20	G1/2
200	445	400	364	352	310	190	12x22	-	-	25	-	-	M24	M20	G1/2
220	505	460	422	-	340	210	16x22	-	-	25	-	-	M24	M20	G1/2

AGSZ461

d (mm)	D1	D2	D3	Nominal Flange		D6	Nxd8	L1	L2	L3	L4	L5	M1	M2	A.B
				size	size2										
40	175	145	110	40	E125	38	4x18	142	184	25	35	28	M12	M16	G3/8
50	240	210	176	50	E200	48	8x18	147	195	25	40	28	M12	M16	G3/8
60	275	240	204	60	E250	58	8x22	158	203	25	42	28	M12	M20	G3/8
80	305	270	234	80	E300	78	8x22	170	240	30	45	34	M16	M20	G1/2
100	395	350	313	100	E400	98	12x22	177	240	30	52	34	M16	M20	G1/2
100	395	350	313	100	E500	98	12x22	177	240	30	52	34	M16	M20	G1/2
125	505	460	422	125	E700	120	4x22	208	266	30	75	40	M20	M20	G1/2
140	505	460	422	140	E700	135	4x22	223	282	30	79	40	M20	M20	G1/2
160	505	460	422	160	E900	150	4x22	228	282	30	77	40	M20	M20	G1/2
160	565	515	474	161	E901	150	4x26	228	282	30	77	40	M20	M20	G1/2

HQK-B08(AD510/AD520)

Type: Kettle Seal
 Replacement: Burgmann AD510/AD520
 Temperature: -30°C to +175°C
 Pressure: $\leq 5.0\text{Mpa}$
 Speed: $\leq 10\text{m/s}$
 Material: Q1,V,T,A



<http://www.hqseal.com>



hq@hqseal.com

d (mm)	D1	D2	D3	D4	D5	D6	D7	L1	L2	L3	L4	L5	L6	L7	L8	M
20	60	46	90	70	50	42	36	11	77	24	44	63	16	2	20	4-M8
25	65	51	95	75	55	47	41	11	77	24	44	63	16	2	20	4-M8
30	70	56	100	80	60	52	46	11	77	24	44	63	16	2	20	4-M8
35	75	61	105	85	65	57	51	11	77	24	44	63	16	2	20	4-M8
40	85	70	120	95	75	66	60	12	82	26	47	68	18	2	22	4-M10
45	90	75	125	100	80	71	65	12	82	26	47	68	18	2	22	4-M10
50	95	85	130	105	85	76	70	12	82	26	47	68	18	2	22	8-M10
55	100	85	135	110	90	81	75	12	82	26	47	68	18	2	22	8-M10
60	110	92	145	120	100	89	85	12	89	28	51	74	20	2	24	8-M10
65	115	97	150	125	105	96	90	12	89	28	51	74	20	2	24	8-M10
70	120	102	155	130	110	101	95	12	91	30	51	76	21	2	26	8-M10
75	130	109	165	140	120	110	104	12	91	30	51	76	21	2	26	8-M10
80	130	114	178	150	125	115	109	15	98	31	57	83	22	2	27	8-M12
85	140	120	183	155	130	120	114	15	98	31	57	83	22	2	27	8-M12
90	140	124	188	160	135	125	119	15	98	31	57	83	22	2	27	8-M12
95	150	130	193	165	140	130	124	15	98	31	57	83	22	2	27	8-M12
100	150	134	198	170	145	135	129	15	98	31	57	83	22	2	27	8-M12
105	160	140	203	175	150	140	134	15	98	31	57	83	22	2	27	8-M12
110	165	146	208	180	155	145	139	15	98	31	57	83	22	2	27	8-M12
120	180	160	236	200	170	160	150	20	110	37	63	95	27	3	33	8-M16
130	190	170	246	210	180	170	160	20	110	37	63	95	27	3	33	8-M16
140	200	180	260	225	195	185	175	20	110	37	63	95	27	3	33	8-M16
150	225	200	276	240	210	200	190	20	136	40	85	120	30	3	36	8-M16
160	230	210	286	250	220	210	200	20	136	40	85	120	30	3	36	8-M16
170	250	220	296	260	230	220	210	20	136	40	85	120	30	3	36	8-M16
180	250	230	306	270	240	230	220	20	136	40	85	120	30	3	36	8-M16

HQK-09(SeccoMix)

Type: Kettle Seal

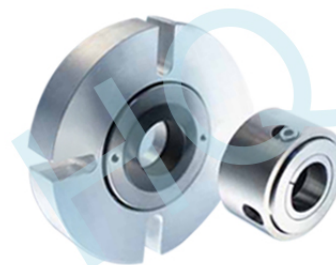
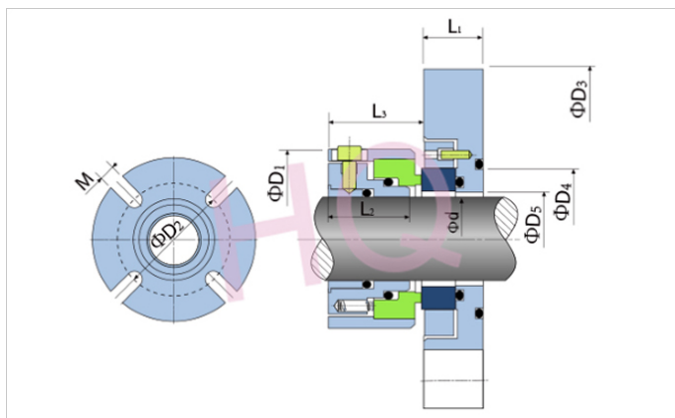
Replacement: Burgmann SECCOMIX

Temperature: -30 to +180°C

Pressure: ≤5.0Mpa

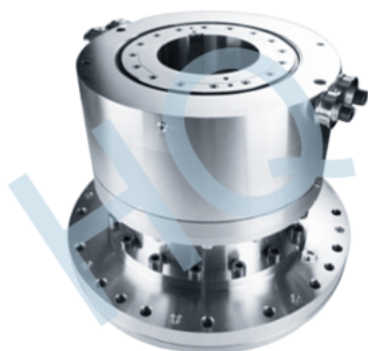
Speed: ≤10m/s

Material: B,A,P,E,N,V

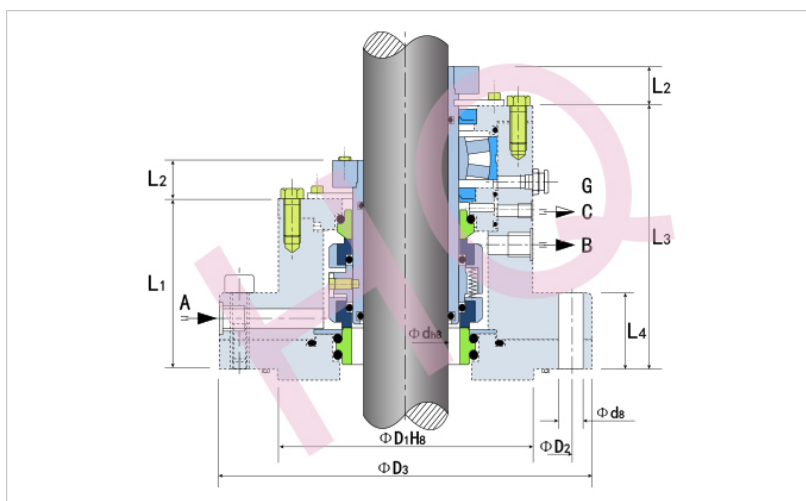


d (mm)	d (inch)	D1	D2		D3	D4	D5	L1	L2	L3	M
			min	max							
25	1.000	68	100	132	148	-	34	26	35	41.5	11
28	1.125	68	100	132	148	55	34	26	35	41.5	11
30	-	68	100	132	148	55	34	26	35	41.5	11
32	1.250	73	105	137	153	60	39	26	35	41.5	11
35	1.375	73	105	137	153	60	39	26	35	41.5	11
38	1.500	78	110	142	158	65	44	26	35	41.5	11
40	-	78	110	142	158	65	44	26	35	41.5	11
45	1.625	83	115	152	163	68	49	26	35	41.5	11
-	1.750	83	115	152	163	68	49	26	35	41.5	11
48	1.875	88	125	160	178	73	54	26	35	41.5	14
50	-	88	125	160	178	73	54	26	35	41.5	14
55	2.000	93	130	165	183	78	59	26	35	41.5	14
-	2.125	93	130	165	183	78	59	26	35	41.5	14
60	2.250	98	135	170	188	85	64	26	35	41.5	14
65	2.375	103	140	175	193	90	69	26	35	44.5	14
-	2.500	103	140	175	193	90	69	26	35	44.5	14
70	2.625	108	145	180	198	95	74	26	38	44.5	14
-	2.750	108	145	180	198	95	74	26	38	44.5	14
75	2.875	113	150	185	203	100	79	26	38	44.5	14
80	3.000	118	155	190	208	105	84	26	38	44.5	14
85	3.250	123	160	195	213	110	89	26	38	44.5	14
90	3.500	128	165	200	218	115	94	26	38	44.5	14
95	3.750	133	170	205	223	120	99	26	38	44.5	14
100	-	138	175	210	228	125	104	26	38	44.5	14
105	4.000	143	180	215	233	130	109	26	38	44.5	14
110	4.250	148	185	220	238	135	114	26	38	44.5	18
115	4.500	153	196	243	267	140	119	26	38	44.5	18
125	4.750	163	206	253	277	150	129	26	38	44.5	18
140	5.000	178	221	273	297	165	144	26	38	44.5	18
-	5.250	178	221	273	297	165	144	26	38	44.5	18
-	5.500	178	221	273	297	165	144	26	38	44.5	18
150	5.750	188	231	283	307	175	154	26	38	44.5	18
160	6.000	198	241	283	317	185	164	26	38	44.5	18
-	6.250	198	241	283	317	185	164	26	38	44.5	18

HQK-B11(HSH-D)



Type: Kettle Seal
 Replacement: Burgmann HSH-D
 Temperature: -40°C to +200°C
 Pressure: 30Mpa
 Speed: $\leq 0.5\text{m/s}$
 Material: Q1,Q2,A,B,U1,U2,P,
 E,V,T,F,G,T2,M5



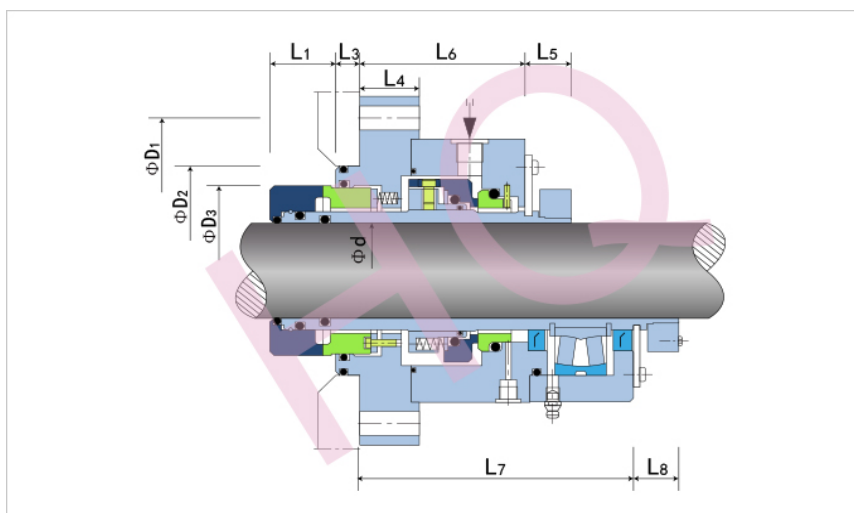
 <http://www.hqseal.com>
 hq@hqseal.com

d (mm)	n x d8	D1	D2	D3	L1	L2	L3	L4
40	6 x 18	80	170	200	115	35	170	45
50	8 x 18	100	200	230	120	35	185	55
60	8 x 18	120	225	255	140	35	210	60
80	8 x 23	145	260	295	145	44	230	60
100	8 x 23	170	280	315	160	44	245	65
120	8 x 23	190	310	345	160	50	250	65
140	12 x 23	215	345	380	165	50	265	65
160	12 x 27	240	395	440	185	50	300	75
180	12 x 27	260	430	475	185	55	310	75
200	12 x 27	290	420	465				

HQK-B06(SeccoMixR)



Type: Kettle Seal
 Replacement: Burgmann SeccoMixer R
 Temperature: -20 to +180°C
 Pressure: $\leq 2.5\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: B,Q2,U2,P,E,N,V,F,G,Alfa



<http://www.hqseal.com>



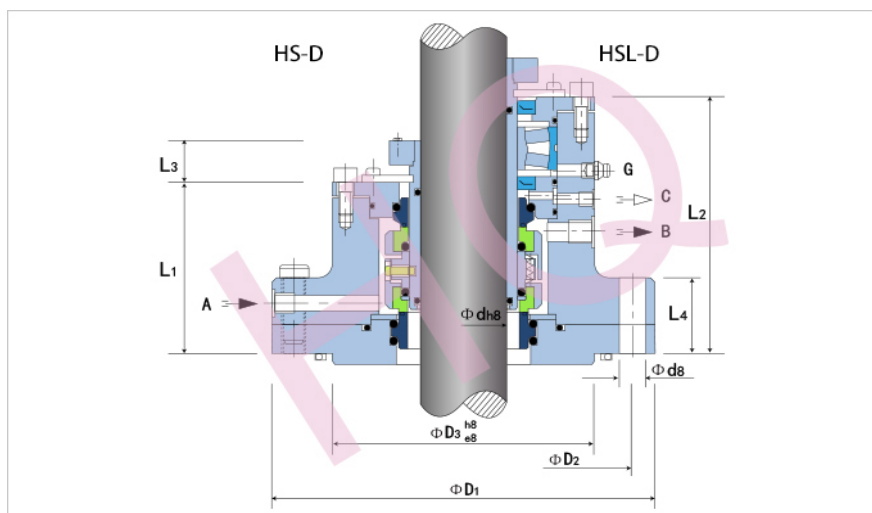
hq@hqseal.com

d (mm)	D1	nxD1	D2	D3	L3	L4	L5	L6	L7	L8
45	166	8x13.5	119.5	82.7	13	43.0	26.0	103.0	149.5	26.0
50	190	8x17.5	119.5	90.0	13	40.5	28.5	110.0	165.0	28.5
60	200	8x17.5	134.5	100.0	14	41.0	28.0	118.0	173.0	28.0
80	248	8x17.5	160.5	130.0	15	48.0	34.0	133.0	212.0	34.0
100	264	8x22.0	181.5	150.0	12	54.0	33.5	145.0	219.0	33.5
120	293	8x22.0	209.5	172.0	12	52.0	40.0	148.0	232.0	40.0
140	338	12x22.0	224.5	195.0	12	52.0	39.5	160.5	251.5	39.5

HQK-B07(HS-D)



Type: Kettle Seal
 Replacement: Burgmann HS-D
 Temperature: -20 to +180°C
 Pressure: $\leq 2.5\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: B,Q2,U2,P,E,N,V,F,G,Alfa



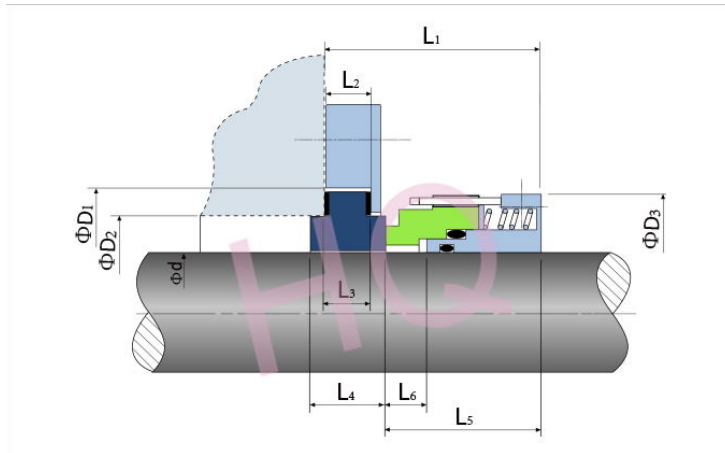
<http://www.hqseal.com>



hq@hqseal.com

d (mm)	D1	D2	D3	nxd8	L1	L2	L3	L4
40	200	170	80	6x18	115	170	35	45
50	230	200	100	8x18	120	185	35	55
60	255	225	120	8x18	140	210	35	60
80	295	260	145	8x23	145	230	44	60
100	315	280	170	8x23	160	245	44	65
120	345	310	190	8x23	160	250	50	65
140	380	345	215	12x23	165	265	50	65
160	440	395	240	12x27	185	300	50	75
180	475	430	260	12x27	185	310	55	75
200	465	420	290	12x27	190	290	55	75

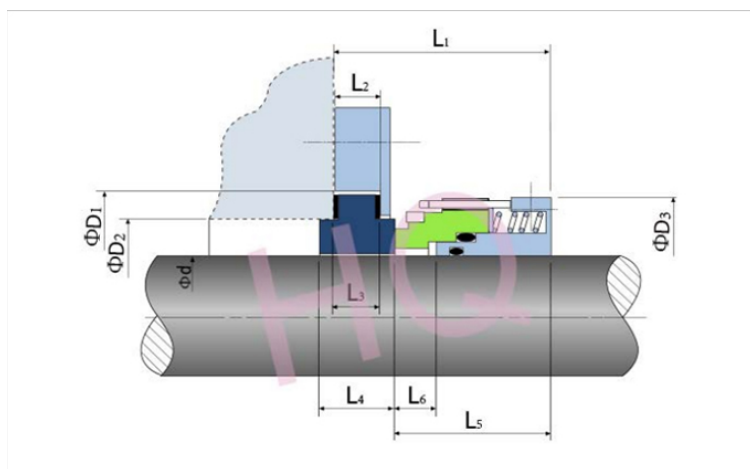
HQK-J04(32)



Type: Kettle Seal
 Replacement: Crane 32
 Temperature: -20°C to +140°C
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 5\text{m/s}$
 Material: Q1,Q2,A,B,U1,U2,P,E

d (inch)	D1	D2	D3	L1	L2	L3	L4	L5	L6
1.000	2.281	1.937	2.500	2.718	0.468	0.500	0.812	2.062	0.562
1.125	2.406	2.000	2.625	2.718	0.468	0.500	0.812	2.062	0.562
1.250	2.656	2.187	2.750	2.750	0.468	0.500	0.875	2.062	0.562
1.375	2.781	2.312	2.875	2.750	0.468	0.500	0.875	2.062	0.562
1.500	3.031	2.500	3.000	2.750	0.468	0.500	0.875	2.062	0.562
1.625	3.156	2.625	3.125	2.750	0.468	0.500	0.875	2.062	0.562
1.750	3.281	2.750	3.250	2.750	0.468	0.500	0.875	2.062	0.562
1.875	3.531	2.875	3.375	2.875	0.593	0.625	1.000	2.062	0.562
2.000	3.781	3.125	3.500	2.875	0.593	0.625	1.000	2.062	0.562
2.125	3.906	3.250	3.625	2.875	0.593	0.625	1.000	2.062	0.562
2.250	4.031	3.375	3.750	2.875	0.593	0.625	1.000	2.062	0.562
2.375	4.156	3.500	3.875	2.875	0.593	0.625	1.000	2.062	0.562
2.500	4.281	3.625	4.000	2.875	0.593	0.625	1.000	2.062	0.562
2.625	4.406	3.750	4.125	2.875	0.593	0.625	1.000	2.062	0.562
2.750	4.531	3.875	4.250	2.875	0.593	0.625	1.000	2.062	0.562
2.875	4.656	4.000	4.375	2.875	0.593	0.625	1.000	2.062	0.562
3.000	4.718	4.062	4.500	2.875	0.593	0.625	1.000	2.062	0.562
3.125	4.906	4.250	4.625	2.875	0.593	0.625	1.000	2.062	0.562
3.250	5.031	4.375	4.750	2.875	0.593	0.625	1.000	2.062	0.562
3.375	5.156	4.500	4.875	2.875	0.593	0.625	1.000	2.062	0.562
3.500	5.281	4.625	5.000	2.875	0.593	0.625	1.000	2.062	0.562
3.625	5.406	4.750	5.125	2.875	0.593	0.625	1.000	2.062	0.562
3.750	5.531	4.875	5.250	2.875	0.593	0.625	1.000	2.062	0.562
3.875	5.656	5.000	5.375	2.875	0.593	0.625	1.000	2.062	0.562
4.000	5.906	5.250	5.500	2.875	0.593	0.625	1.000	2.062	0.562
4.125	6.031	5.375	5.625	2.875	0.593	0.625	1.000	2.062	0.562
4.250	6.156	5.500	5.750	2.875	0.593	0.625	1.000	2.062	0.562
4.375	6.281	5.625	5.875	2.875	0.593	0.625	1.000	2.062	0.562
4.500	6.406	5.750	6.000	2.875	0.593	0.625	1.000	2.062	0.562
4.625	6.531	5.875	6.125	2.875	0.593	0.625	1.000	2.062	0.562
4.750	6.565	6.000	6.250	2.875	0.593	0.625	1.000	2.062	0.562
4.875	6.781	6.125	6.375	2.875	0.593	0.625	1.000	2.062	0.562
5.000	6.906	6.250	6.500	2.875	0.593	0.625	1.000	2.062	0.562
5.125	7.281	6.625	6.625	2.875	0.593	0.625	1.000	2.062	0.562
5.250	7.406	6.750	6.750	2.875	0.593	0.625	1.000	2.062	0.562

HQK-J05(32i)



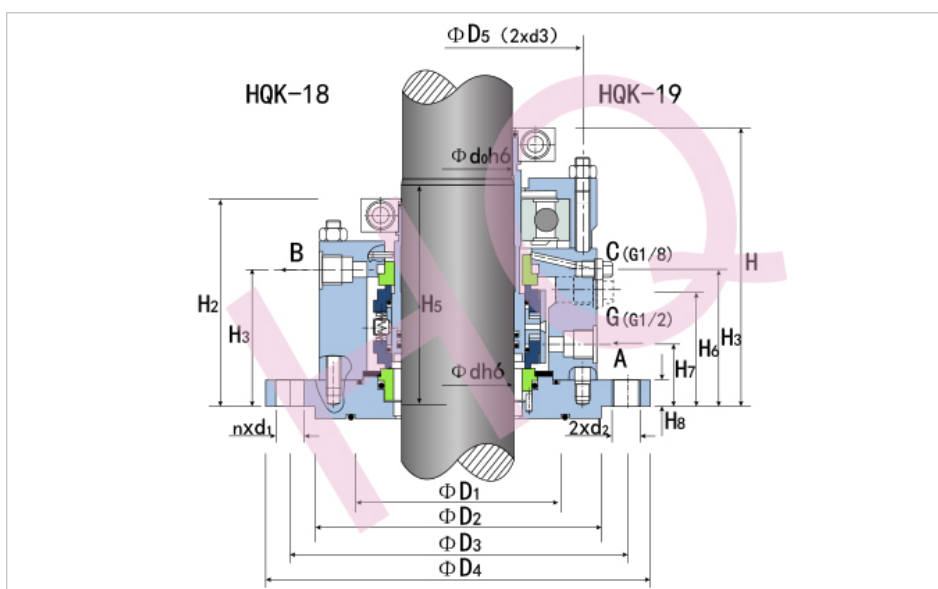
Type: Kettle seal
 Replacement: Crane 32i
 Temperature: -20 to +150°C
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 5\text{m/s}$
 Material: B,A1,Q1,Q2,U2,P,
 E,N,V,F,G,Alfa

d (inch)	D1	D2	D3	L1	L2	L3	L4	L5	L6
1.000	2.406	2.000	2.500	2.718	0.468	0.500	0.812	2.062	0.562
1.125	2.656	2.125	2.625	2.750	0.468	0.500	0.875	2.062	0.562
1.250	2.781	2.250	2.750	2.750	0.468	0.500	0.875	2.062	0.562
1.375	3.031	2.500	2.875	2.750	0.468	0.500	0.875	2.062	0.562
1.500	3.156	2.625	3.000	2.750	0.468	0.500	0.875	2.062	0.562
1.625	3.281	2.75	3.125	2.750	0.468	0.500	0.875	2.062	0.562
1.750	3.531	2.875	3.250	0.875	0.593	0.625	1.000	2.062	0.562
1.875	3.656	3.000	3.375	0.875	0.593	0.625	1.000	2.062	0.562
2.000	3.781	3.125	3.500	0.875	0.593	0.625	1.000	2.062	0.562
2.125	3.906	3.250	3.625	0.875	0.593	0.625	1.000	2.062	0.562
2.250	4.031	3.375	3.750	0.875	0.593	0.625	1.000	2.062	0.562
2.375	4.156	3.500	3.875	0.875	0.593	0.625	1.000	2.062	0.562
2.500	4.281	3.625	4.000	0.875	0.593	0.625	1.000	2.062	0.562
2.625	4.406	3.750	4.125	0.875	0.593	0.625	1.000	2.062	0.562
2.750	4.531	3.875	4.250	0.875	0.593	0.625	1.000	2.062	0.562
2.875	4.656	4.000	4.375	0.875	0.593	0.625	1.000	2.062	0.562
3.000	4.781	4.125	4.500	0.875	0.593	0.625	1.000	2.062	0.562
3.125	4.906	4.250	4.625	0.875	0.593	0.625	1.000	2.062	0.562
3.250	5.031	4.375	4.750	0.875	0.593	0.625	1.000	2.062	0.562
3.375	5.156	4.500	4.875	0.875	0.593	0.625	1.000	2.062	0.562
3.500	5.218	4.625	5.000	0.875	0.593	0.625	1.000	2.062	0.562
3.625	5.406	4.750	5.125	0.875	0.593	0.625	1.000	2.062	0.562
3.750	5.531	4.875	5.250	0.875	0.593	0.625	1.000	2.062	0.562
3.875	5.656	5.000	5.375	0.875	0.593	0.625	1.000	2.062	0.562
4.000	5.781	5.125	5.500	0.875	0.593	0.625	1.000	2.062	0.562
4.125	5.906	5.250	5.625	0.875	0.593	0.625	1.000	2.062	0.562
4.250	6.031	5.375	5.750	0.875	0.593	0.625	1.000	2.062	0.562
4.375	6.156	5.500	5.875	0.875	0.593	0.625	1.000	2.062	0.562
4.500	6.281	5.625	6.000	0.875	0.593	0.625	1.000	2.062	0.562

HQK-J18(CK725)/HQK-J19(CK726)



Type: Kettle Seal
 Replacement: Crane CK725/CK726
 Temperature: -40 to +200°C
 Pressure: $\leq 1.6\text{Mpa}$
 Speed: $\leq 5\text{m/s}$
 Material: Q1,Q2,A,B,U1,U2,P,
 E,V,T,F,G,T2,M5



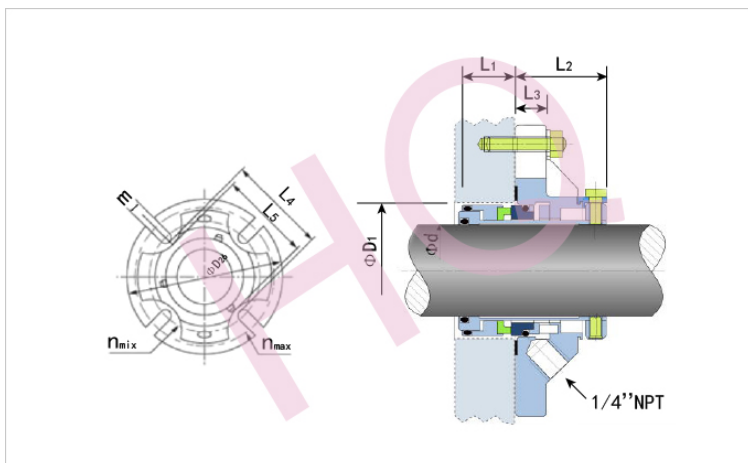
d	d0	D1	D2	D3	D4	D5	H	H2	H3	H5	H6	H7	H8	A&B	d2	d3	nxd1	bolt
40	38	91	110	145	175	126	169.5	131.5	91	135	80.0	33	13	G 3/8	M16	M12	4x18	M16
50	48	107	176	210	240	136	175.5	132.5	93	140	80.0	35	16	G 3/8	M16	M12	8x18	M16
60	58	116	176	210	240	145	185.0	144.5	94	150	84.5	36	18	G 3/8	M16	M12	8x18	M16
80	78	147	204	240	275	178	200.0	153.0	98	160	83.0	44	19	G 1/2	M20	M16	8x22	M20
100	98	173	234	270	305	208	210.0	164.0	108	170	94.0	41	21	G 1/2	M20	M16	8x22	M20
125	120	198	260	295	330	235	235.0	175.0	113	195	100.0	40	20	G 1/2	M20	M20	8x22	M20
140	135	218	313	350	395	270	284.0	257.0	171	200	155.0	53	30	G 1/2	M20	M20	12x22	M20
160	150	237	313	350	395	279	281.5	275.0	180	205	155.0	55	30	G 1/2	M20	M20	12x22	M20



<http://www.hqseal.com>

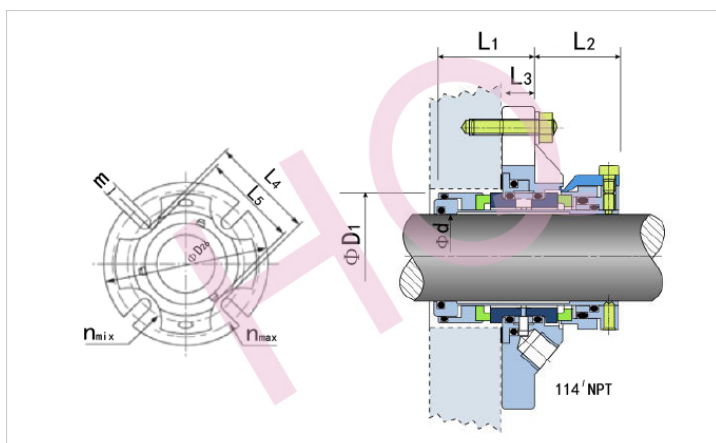


hq@hqseal.com



Type: Kettle Seal
Replacement: AES CSM
Temperature: -45°C to +150°C
Pressure: ≤ 2.1 Mpa
Speed: ≤ 25 m/s
Material: A,B,U1,U2,Q1,
Q2,F,V,G,K,T,M5

d (mm)	D26	L4	L5	L3	D1			N		L1	L2	K (max)
					min	mint	max	min	max			
24	104.8	54.0	49.2	13.2	40.0	41.0	46.0	67.0	90.5	28.6	40.5	1.0
25	104.8	54.0	49.2	13.2	41.0	42.0	49.0	67.0	90.5	28.6	40.5	1.0
28	108.0	57.2	52.4	13.2	44.0	45.0	52.3	70.3	93.6	28.6	40.5	1.0
30	111.0	60.4	55.6	13.2	46.0	47.0	55.5	73.5	96.8	28.6	40.5	1.0
32	111.0	60.4	55.6	13.2	48.0	49.0	55.5	73.5	96.8	28.6	40.5	1.0
33	111.0	60.4	55.6	13.2	49.0	50.0	55.5	73.5	96.8	28.6	40.5	1.0
35	111.0	63.5	58.8	13.2	51.0	52.0	57.5	76.6	96.8	28.6	40.5	1.0
38	127.0	71.5	65.0	16.4	57.2	58.2	60.4	85.7	114.3	28.6	44.5	1.0
40	127.0	71.5	65.0	16.4	58.0	59.0	60.4	85.7	114.3	28.6	44.5	1.0
43	139.7	81.0	71.4	16.4	61.0	62.0	69.9	95.3	127.0	28.6	44.5	1.0
45	139.7	81.0	71.4	16.4	63.5	64.5	69.9	95.3	127.0	28.6	44.5	1.0
48	139.7	81.0	71.4	16.4	66.7	67.7	73.0	95.3	127.0	28.6	44.5	1.0
50	152.4	90.5	77.8	16.4	68.0	69.0	76.2	104.8	139.7	28.6	44.5	1.0
53	152.4	90.5	77.8	16.4	71.0	72.0	76.2	104.8	139.7	28.6	44.5	1.0
55	165.1	96.8	84.1	16.4	74.0	75.0	82.5	114.3	149.2	28.6	44.5	1.0
58	165.1	96.8	84.1	16.4	76.2	77.2	82.5	114.3	149.2	28.6	44.5	1.0
60	165.1	96.8	84.1	16.4	79.4	80.4	85.7	114.3	149.2	28.6	44.5	1.0
63	177.8	109.5	96.8	19.6	85.8	87.3	92.1	127.0	160.3	31.8	47.7	1.5
65	177.8	109.5	96.8	19.6	88.9	90.4	95.3	127.0	160.3	31.8	47.7	1.5
68	177.8	109.5	96.8	19.6	92.1	93.6	98.4	127.0	160.3	31.8	47.7	1.5
70	177.8	109.5	96.8	19.6	92.1	93.6	98.4	127.0	160.3	31.8	47.7	1.5
75	190.5	125.4	108.0	19.6	98.5	100.0	108.0	142.9	173.0	31.8	47.7	1.5
80	190.5	125.4	108.0	19.6	101.6	103.1	111.1	142.9	173.0	31.8	47.7	1.5
85	203.2	135.0	117.5	19.6	108.0	109.5	117.5	155.6	182.5	31.8	47.7	1.5
90	215.9	150.8	127.0	19.6	114.3	115.8	127.0	171.5	195.2	31.8	47.7	1.5
95	215.9	150.8	127.0	19.6	117.5	119.0	130.2	171.5	195.2	31.8	47.7	1.5
100	228.6	168.3	136.5	19.6	123.9	125.4	139.7	188.9	208.0	31.8	47.7	1.5
105	228.6	168.3	136.5	19.6	130.1	131.6	149.2	188.9	208.0	31.8	47.7	1.5
110	241.3	177.8	146.1	19.6	136.5	138.0	158.8	198.4	220.6	31.8	47.7	1.5
115	254.0	186.6	155.8	19.6	142.9	144.4	168.3	211.1	230.2	31.8	47.7	1.5
120	254.0	186.6	155.8	19.6	142.9	144.4	168.3	211.1	230.2	31.8	47.7	1.5
125	254	186.6	155.8	19.6	149.2	150.7	168.3	211.1	230.2	31.8	47.7	1.5



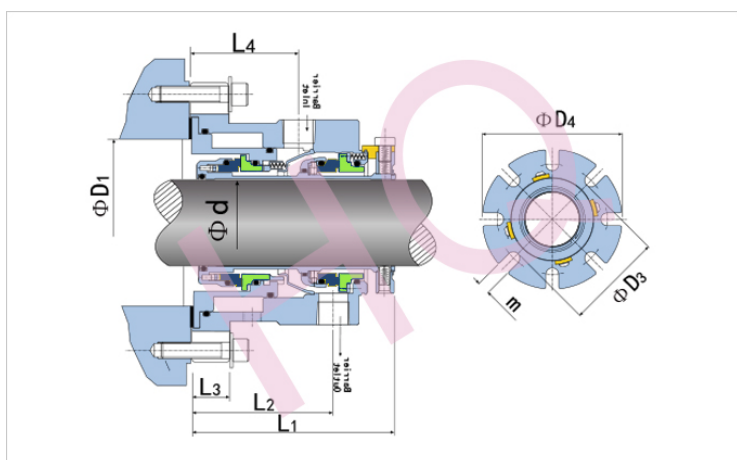
Type: Kettle Seal
Replacement: AES CDM
Temperature: -45°C to +150°C
Pressure: $\leq 2.1\text{Mpa}$
Speed: $\leq 25\text{m/s}$
Material: A,B,U1,U2,Q1,Q2,
F,V,G,K,T,M5

d (mm)	D26	L4	L5	L3	D1			N		M	L1	L2	K (max)
					min	mint	max	min	max				
24	104.8	54.0	49.2	13.2	40.0	41.0	46.0	67.0	90.5	12	32.5	52.4	1.0
25	104.8	54.0	49.2	13.2	41.0	42.0	49.0	67.0	90.5	12	32.5	52.4	1.0
28	108.0	57.2	52.4	13.2	44.0	45.0	52.3	70.3	93.6	12	32.5	52.4	1.0
30	111.0	60.4	55.6	13.2	46.0	47.0	55.5	73.5	96.8	12	32.5	52.4	1.0
32	111.0	60.4	55.6	13.2	48.0	49.0	55.5	73.5	96.8	12	32.5	52.4	1.0
33	111.0	60.4	55.6	13.2	49.0	50.0	55.5	73.5	96.8	12	32.5	52.4	1.0
35	111.0	63.5	58.8	13.2	51.0	52.0	57.5	76.6	96.8	12	32.5	52.4	1.0
38	127.0	71.5	65.0	16.4	57.2	58.2	60.4	85.7	114.3	12	33.3	54.0	1.0
40	127.0	71.5	65.0	16.4	58.0	59.0	60.4	85.7	114.3	12	33.3	54.0	1.0
43	139.7	81.0	71.4	16.4	61.0	62.0	69.9	95.3	127.0	12	33.3	54.0	1.0
45	139.7	81.0	71.4	16.4	63.5	64.5	69.9	95.3	127.0	12	33.3	54.0	1.0
48	139.7	81.0	71.4	16.4	66.7	67.7	73.0	95.3	127.0	12	33.3	54.0	1.0
50	152.4	90.5	77.8	16.4	68.0	69.0	76.2	104.8	139.7	12	33.3	54.0	1.0
53	152.4	90.5	77.8	16.4	71.0	72.0	76.2	104.8	139.7	12	35.0	54.0	1.0
55	165.1	96.8	84.1	16.4	74.0	75.0	82.5	114.3	149.2	12	35.0	54.0	1.0
58	165.1	96.8	84.1	16.4	76.2	77.2	82.5	114.3	149.2	16	35.0	54.0	1.0
60	165.1	96.8	84.1	16.4	79.4	80.4	85.7	114.3	149.2	16	35.0	54.0	1.0
63	177.8	109.5	96.8	19.6	85.8	87.3	92.1	127.0	160.3	16	38.1	60.3	1.5
65	177.8	109.5	96.8	19.6	88.9	90.4	95.3	127.0	160.3	16	38.1	60.3	1.5
68	177.8	109.5	96.8	19.6	92.1	93.6	98.4	127.0	160.3	16	38.1	60.3	1.5
70	177.8	109.5	96.8	19.6	92.1	93.6	98.4	127.0	160.3	16	38.1	60.3	1.5
75	190.5	125.4	108.0	19.6	98.5	100.0	108.0	142.9	173.0	16	38.1	60.3	1.5
80	190.5	125.4	108.0	19.6	101.6	103.1	111.1	142.9	173.0	16	38.1	60.3	1.5
85	203.2	135.0	117.5	19.6	108.0	109.5	117.5	155.6	182.5	20	38.1	60.3	1.5
90	215.9	150.8	127.0	19.6	114.3	115.8	127.0	171.5	195.2	20	38.1	60.3	1.5
95	215.9	150.8	127.0	19.6	117.5	119.0	130.2	171.5	195.2	20	38.1	60.3	1.5
100	228.6	168.3	136.5	19.6	123.9	125.4	139.7	188.9	208.0	20	38.1	60.3	1.5
105	228.6	168.3	136.5	19.6	130.1	131.6	149.2	188.9	208.0	20	38.1	60.3	1.5
110	241.3	177.8	146.1	19.6	136.5	138.0	158.8	198.4	220.6	20	38.1	60.3	1.5
115	254.0	186.6	155.8	19.6	142.9	144.4	168.3	211.1	230.2	22	38.1	60.3	1.5
120	254.0	186.6	155.8	19.6	142.9	144.4	168.3	211.1	230.2	22	38.1	60.3	1.5
125	254.0	186.6	155.8	19.6	149.2	150.7	168.3	211.1	230.2	22	38.1	60.3	1.5

HQMA-14(CDMSC)



Type: Mixer Seal
 Replacement: AES CDMSC
 Temperature: 0 to +150°C
 Pressure: $\leq 1.5\text{Mpa}$
 Speed: $\leq 5\text{m/s}$
 Material: A,V,G,U12,G



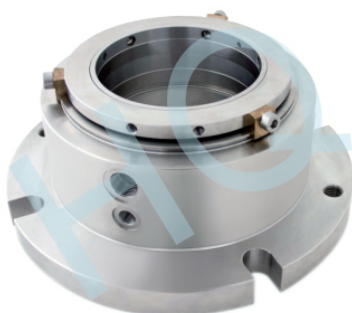
<http://www.hqseal.com>



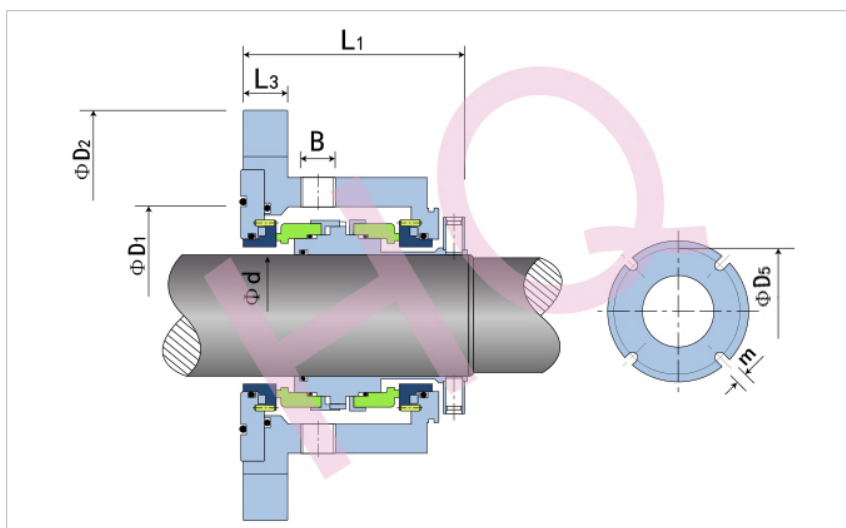
hq@hqseal.com

d (mm)	D1		D3	D4	L1	L2	L3	L4	M (Qty.)	M	K (max)
	min	max									
60	85	133.0	154.0	210	122.6	83.7	36.8	67.2	8	14	6
65	90	139.0	154.0	210	122.6	83.7	36.8	67.2	8	14	6
70	95	139.0	154.0	210	122.6	83.7	36.8	67.2	8	14	6
75	100	139.0	156.0	219	122.6	83.7	36.8	67.2	8	14	6
80	105	165.0	189.2	261	127.0	83.7	36.8	67.2	8	14	6
85	110	165.0	189.2	261	127.0	83.7	36.8	67.2	8	14	6
90	115	190.5	212.7	261	127.0	83.7	36.8	67.2	8	14	6
95	120	190.5	212.7	261	127.0	83.7	36.8	67.2	8	14	6
100	125	190.5	212.7	261	127.0	83.7	36.8	67.2	8	14	6
105	130	203.2	233.5	273	127.0	83.7	36.8	67.2	8	14	6
110	135	203.2	233.5	273	127.0	83.7	36.8	67.2	8	14	6
115	140	222.2	259.0	305	127.0	83.7	36.8	67.2	8	14	6
120	145	222.2	259.0	305	127.0	83.7	36.8	67.2	8	14	6
125	150	222.2	259.0	305	127.0	83.7	36.8	67.2	8	14	6

HQMA-15(SCMS)



Type: Mixer Seal
 Replacement: AES SCMS
 Temperature: 0 to +150°C
 Pressure: $\leq 1.5\text{Mpa}$
 Speed: $\leq 5\text{m/s}$
 Material: A,Q1,Q2,V,
 G1,F,G



d (mm)	D1	D2	D5	L1	L3	M	B (NPT)	Bolt (max)	K (max)
30	63	129	110-119	102	87.0	12.0	3/8	M10	2.0
40	70	135	116-125	102	87.0	12.0	3/8	M10	2.0
50	95	189	162-173	117	26.5	17.5	3/8	M16	3.0
60	105	202	171-186	117	26.5	17.5	3/8	M16	3.0
70	120	225	191-209	136	26.5	17.5	1/2	M16	3.5
80	130	235	203-219	136	26.5	17.5	1/2	M16	3.5
90	143	250	221-231	136	26.5	22.0	1/2	M20	3.5
100	152	265	231-245	136	26.5	22.0	1/2	M20	3.5
125	177	291	256-271	136	28.0	22.0	1/2	M20	3.5
140	197	315	277-295	145	30.0	22.0	1/2	M20	3.5



HQK-14(2001/2002/2004/2005)



Type: Kettle Seal

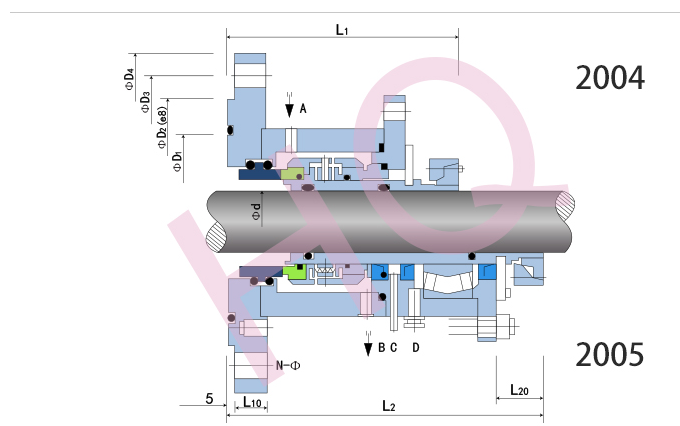
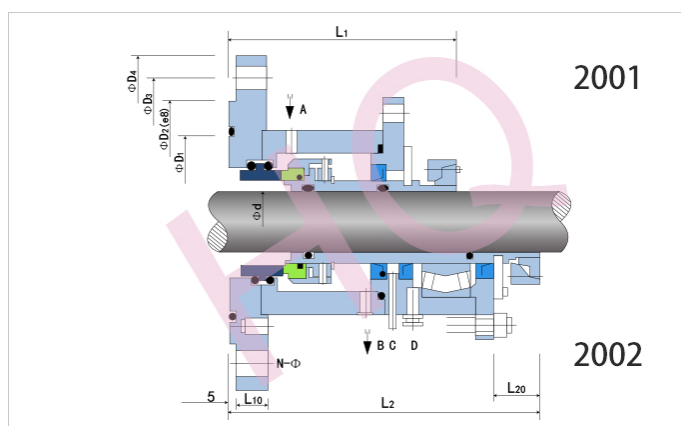
Replacement: Small spring dual-end surface balanced

Temperature: -20°C to $+300^{\circ}\text{C}$

Pressure: $\leq 1.6\text{Mpa}$

Speed: $\leq 3\text{m/s}$

Material: Q1,Q2,A,B,U1,U2,P,E,V,T,F,G,T2,M5

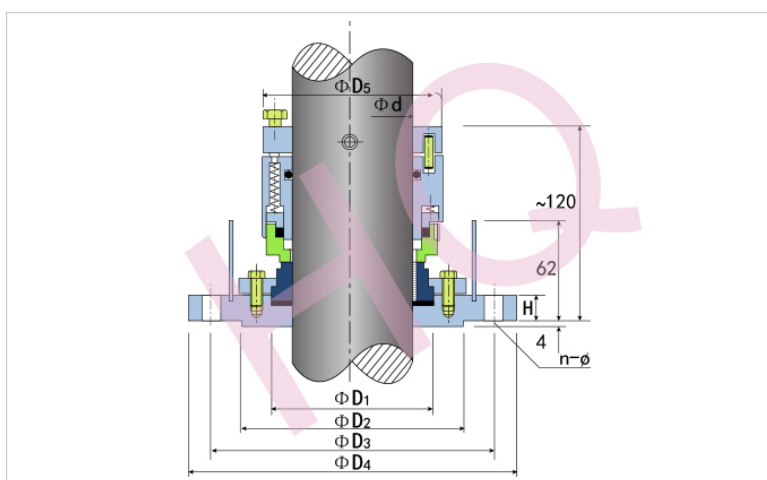


d (mm)	D1	D2	D3	D4	L1	L2	L10	L20	n-Ø
30	90	110	145	175	135	215	18	28	4-18
40	90	110	145	175	28	215	18	28	4-18
50	135	176	210	240	140	230	20	28	8-18
60	135	176	210	240	150	240	20	28	8-18
70	135	176	210	240	160	280	20	28	8-18
80	155	204	240	275	160	280	24	34	8-22
90	190	234	270	305	170	280	24	34	8-22
100	190	234	270	305	170	280	24	34	8-22
110	215	260	295	330	195	290	24	34	8-22
120	215	260	295	330	195	290	24	34	8-22
130	215	260	295	330	200	305	24	40	8-22
140	250	313	350	395	200	305	24	40	12-22
160	265	313	350	395	205	310	28	40	12-22
180	310	364	400	445	210	315	28	40	12-22
200	310	364	400	445	215	320	28	40	12-22
220	340	422	460	505	220	325	28	40	16-22

HQK-03(204B)



Type: Kettle Seal
 Replacement: Small spring, end surface, balanced mechanical seal
 Temperature: -40°C to $+180^{\circ}\text{C}$
 Pressure: $\leq 0.8\text{Mpa}$
 Speed: $\leq 500\text{rpm}$
 Material: Q1, Q2, A, B, U1, U2, P, E, V, T, F, G, T2, M5

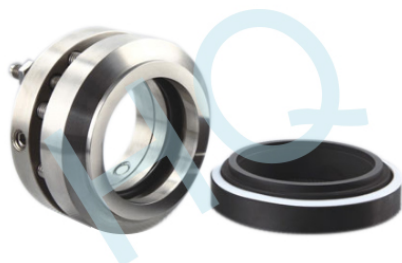


 <http://www.hqseal.com>

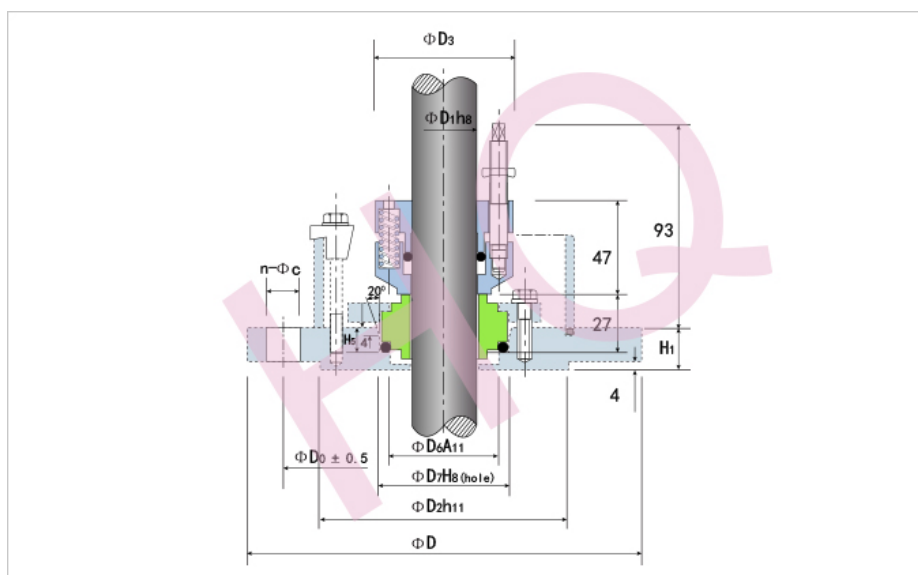
 hq@hqseal.com

d (mm)	D1	D2	D3	D4	D5	H	n- Φ
30	50	116	150	185	67	16	4- Φ 18
35	60	116	150	185	72	16	4- Φ 18
40	64	135	170	205	77	16	4- Φ 18
50	74	164	200	235	87	16	8- Φ 18
60	85	164	200	235	103	16	8- Φ 18
65	91	164	200	235	103	16	8- Φ 18
70	97	164	200	235	108	16	8- Φ 18
80	110	188	225	260	118	16	12- Φ 18
90	119	220	255	290	128	16	12- Φ 18
95	123	220	255	290	133	16	12- Φ 18
100	132	245	280	315	198	16	12- Φ 18
110	140	245	280	315	148	16	12- Φ 18
120	158	245	280	315	158	21	12- Φ 18
130	168	245	280	315	168	22	12- Φ 18
140	180	245	280	315	178	22	12- Φ 18
1450	190	285	320	360	188	22	12- Φ 18
160	200	285	320	360	198	25	12- Φ 18
180	220	285	320	360	218	25	12- Φ 18

HQK-05(204)



Type: Kettle Seal
 Temperature: -40°C to $+150^{\circ}\text{C}$
 Pressure: $\leq 0.6\text{Mpa}$
 Speed: $\leq 2\text{m/s}$
 Material: Q1,Q2,A,B,U1,U2,P,
 E,V,T,F,G,T2,M5



Size (mm)	D1	D	D0	D2	D3	D6	D7	H1	H5	n-C
30	30	185	150	116	66	51	60	20	11.5	4-Ø18
40	40	225	170	135	76	61	70	20	11.5	4-Ø18
50	50	235	200	164	88	71	80	22	11.5	8-Ø18
65	65	235	200	164	103	86	97	22	12.0	8-Ø18
80	80	260	225	188	118	102	112	22	12.0	12-Ø18
95	95	290	255	220	135	117	127	24	12.0	12-Ø18
110	110	315	280	245	150	132	142	24	12.0	12-Ø18



<http://www.hqseal.com>

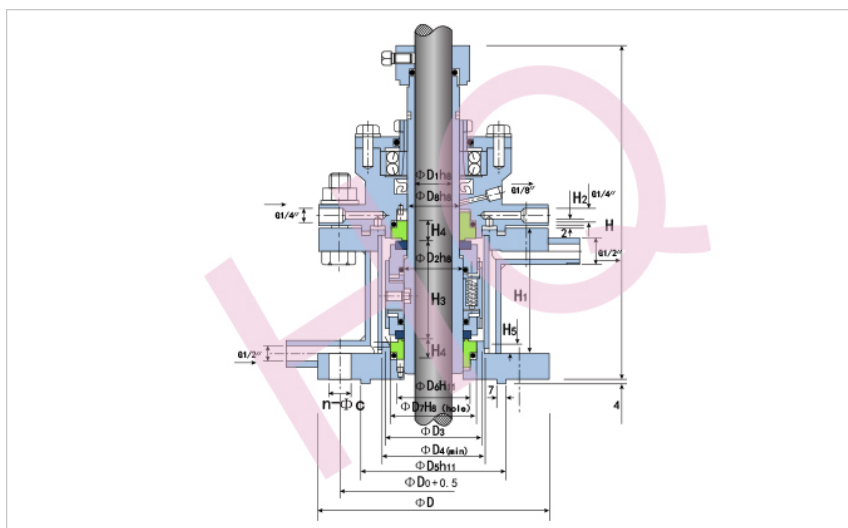


hq@hqseal.com

HQK-09(206)



Type: kettle Seal
 Temperature: -20°C to $+200^{\circ}\text{C}$
 Pressure: $\leq 1.6\text{Mpa}$
 Speed: $\leq 2\text{m/s}$
 Material: Q1,Q2,A,B,U1,U2,P,
 E,V,T,F,G,T2,M5



D1 (mm)	D2	D	D0	D3	D4	D5	D6	D7	D8	H	H1	H2	H3	H4	H5	n-C
30	45	185	150	78	81	116	61	69	40	292	117	5	91	17	14	4-Ø18
40	55	225	170	88	100	135	71	79	50	295	117	5	91	17	14	4-Ø18
50	65	235	200	98	125	164	86	96	60	307	125	6	93	20	17	8-Ø18
65	80	235	200	118	125	164	101	111	75	314	125	6	93	20	17	8-Ø18
80	95	260	225	133	150	188	121	131	90	351	135	6	99	22	19	12-Ø18
95	115	290	255	153	182	220	141	151	110	372	141	6	105	22	19	12-Ø18
110	130	315	280	168	182	245	161	171	125	395	143	8	105	24	21	12-Ø18

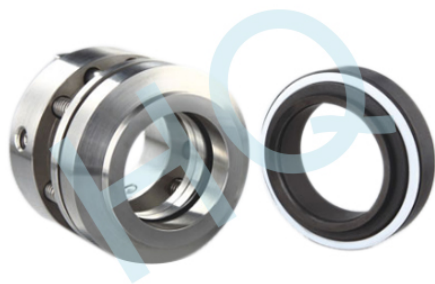


<http://www.hqseal.com>

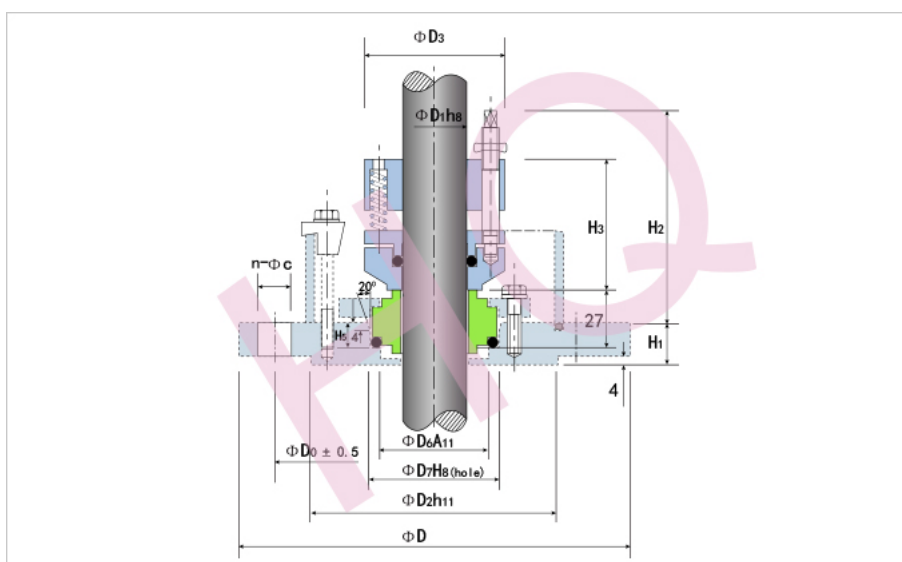


hq@hqseal.com

HQK-15(202)



Type: Kettle Seal
 Temperature: -20°C to +200°C
 Pressure: -0.1 to 2.5Mpa
 Speed: $\leq 2\text{m/s}$
 Material: Q1,Q2,A,B,U1,U2,P,
 -E,V,T,F,G,T2,M5

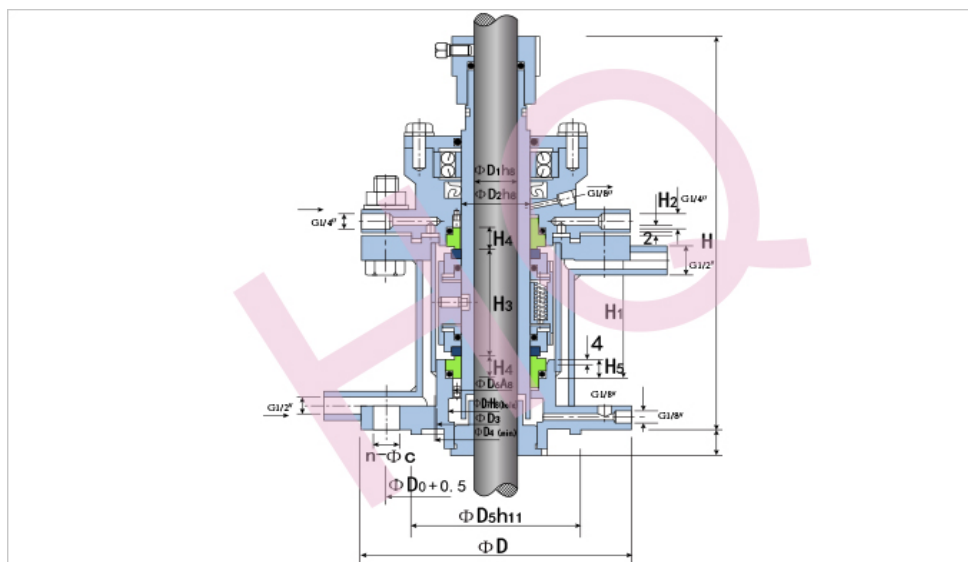


D1 (mm)	D	D0	D2	D3	D6	D7	H1	H2	H3	H5	n-C
30	185	150	116	66	51	60	20	100	62	11.5	4-Ø18
40	225	170	135	76	61	70	20	100	62	11.5	4-Ø18
50	235	200	164	88	71	80	22	100	62	11.5	8-Ø18
65	235	200	164	103	86	97	22	100	62	12	8-Ø18
80	260	225	188	118	102	112	22	100	62	12	12-Ø18
95	290	255	220	135	117	127	24	100	63	12	12-Ø18
110	315	280	245	150	132	142	24	100	63	12	12-Ø18



HQK-17(205)

Type: Kettle Seal
 Temperature: -20°C to +200°C
 Pressure: -0.1 to 0.6Mpa
 Speed: $\leq 2\text{m/s}$
 Material: Q1,Q2,A,B,U1,U2,P,
 -E,V,T,F,G,T2,M5



D1 (mm)	D2	D	D0	D3	D4	D5	D6	D7	H	H1	H2	H3	H4	H5	n-C
30	45	185	150	78	81	116	61	69	295	106	5	79	17	14	4-Ø18
40	55	225	170	88	100	135	71	79	297	106	5	79	17	14	4-Ø18
50	65	235	200	98	125	164	86	96	308	113	6	81	20	17	8-Ø18
65	80	235	200	118	125	164	101	111	311	113	6	81	20	17	8-Ø18
80	95	260	225	133	150	188	121	131	339	118	6	83	22	19	12-Ø18
95	115	290	255	153	182	220	141	151	357	128	6	93	22	19	12-Ø18
110	130	315	280	168	182	245	161	171	368	133	8	93	24	21	12-Ø18



<http://www.hqseal.com>



hq@hqseal.com



<http://www.hqseal.com>



hq@hqseal.com



<http://www.hqseal.com>



hq@hqseal.com

HQMA-11(AEB-60)



Type: Side Feed Type Mixer Seal
 Replacement: America LIGHNIN Kovalainen seal chart
 Temperature: $\leq 150^{\circ}\text{C}$
 Pressure: $\leq 0.80\text{Mpa}$
 Speed: $\leq 1800\text{r/min}$
 Material: Q1, Q2, A, B, U1, U2, P, E, V, T, F, G, T2, M5

*Product description

Single cartridge mechanical seals for Lightnin agitator seals application.

*Apply to the host

Lightnin Company

*Product features

Single cartridge seal
 Pusher
 Multiple springs seal
 Independent of direction of rotation
 Admissible axial movement ± 1



*Replacement models

1VSF-7.5 1VSF-15 1VSF-18.5 1VSF-22
 2VSF-22 2VSF-30 2VSF-37 2VSF-45 2VSF-55

*The common specifications:

AEB-60, ARB-80, AEB-100.



<http://www.hqseal.com>



hq@hqseal.com

HQMA-12(AEB-80)



Type: Side Feed Type Mixer Seals
 Replacement: American LIHGTNIN LN Mechanical Seal
 Temperature: 0°C to +150°C
 Pressure: 1.5Mpa
 Speed: $\leq 5\text{m/s}$
 Material: Q1, Q2, A, B, U1, U2, P, E, V, T, F, G, T2, M5

*Product description

Single side cartridge mechanical seal for reactor and mixer seals, Replace Lightning reactor and mixer accessory products.

*Apply to the host

Lightnin Company

*Product features

Single cartridge seal
 Pusher
 Multiple springs seal
 Independent of direction of rotation
 Admissible axial movement ± 1



*Replacement models

1VSF-7.5 1VSF-15 1VSF-18.5 1VSF-22
 2VSF-22 2VSF-30 2VSF-37 2VSF-45 2VSF-55

*The common specifications:

AEB-60, ARB-80, AEB-100.



<http://www.hqseal.com>



hq@hqseal.com

HQMA-17(AEB-100)



Type: Side Feed Type Mixer Seal
Replacement: American LIGHNIN Mixer and Desulfurization Pumps
Temperature: $\leq 150^{\circ}\text{C}$
Pressure: $\leq 0.80\text{Mpa}$
Speed: $\leq 1800\text{r/min}$
Material: Q1, Q2, A, B, U1, U2, P, E, V, T, F, G, T2, M5

*Product description

Single side cartridge mechanical seal for replacement Lighnin mixer application and as Lighnin mixer accessory products.

*Apply to the host

Lighnin Company

*Product features

Single cartridge seal

Pusher

Multiple springs seal

Independent of direction of rotation

Admissible axial movement ± 1



*Replacement models

1VSF-7.5 1VSF-15 1VSF-18.5 1VSF-22

2VSF-22 2VSF-30 2VSF-37 2VSF-45 2VSF-55

*The common specifications:

AEB-60, ARB-80 ,AEB-100.



<http://www.hqseal.com>



hq@hqseal.com

HQMA-02(AEB-100 Latest)



Type: Replace AEB-100 Reactor Seals
 Replacement: American LIHGTNIN LN Mechanical Seal
 Temperature: $\leq 150^{\circ}\text{C}$
 Pressure: $\leq 0.8\text{Mpa}$
 Speed: $\leq 1200\text{r/min}$
 Material: Q1,Q2,U2,T,V,M1,F,G,M

*Product description

Single cartridge mechanical seal for replace Lighnin agitator application.

*Apply to the host

Lighnin Company

*Product features

Single cartridge seal

Pusher

Multiple springs seal

Independent of direction of rotation

Admissible axial movement ± 1



*Replacement models

Lighnin reactor seals type 1VSF-22

Lighnin reactor seals type 2VSF-37

Lighnin reactor seals type 2VSF-45

*The common specifications:

AEB-60, ARB-80 ,AEB-100.



<http://www.hqseal.com>



hq@hqseal.com

HQMA-05(AEB-60WS)



Type: Water-free Mechanical Seal with Bearing
Replacement: Suit for Sulzer,KSB,Andritz Pumps
Temperature: $\leq 150^{\circ}\text{C}$

Pressure: $\leq 0.8\text{Mpa}$
Speed: $\leq 1800\text{rpm}$
Material: Q1,Q2,U2,T,V,M1,F,G,M

*Product description:

Single cartridge mechanical seal for replacemente Lightnin blender application.The product is based on the original AEB-60 model has been improved on, it will play the role of a stable positioning of the bearing portion and the sealing .

*Apply to the host

ITT

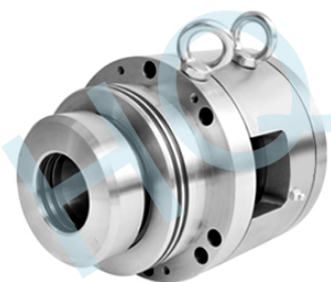
Sulzer

KSB

FLOWSERVE

Andritz

DuCHTING (Germany) pump company



<http://www.hqseal.com>



hq@hqseal.com

HQMA-14(509-65)



Type: Side Feed Type Mixer Seal
 Replacement: American LIGHTNIN Strring .
 Temperature: $\leq 150^{\circ}\text{C}$
 Pressure: $\leq 0.80\text{Mpa}$
 Speed: $\leq 1800\text{r/min}$
 Material: Q1, Q2, A, B, U1, U2, P, E, V, T, F, G, T2, M5

*Product description

The product is sealed with no clogging centrifugal pump, and the structure form is a single end face structure of the assembly type.

*Apply to the host

American Lightnin.
 SHARPE .
 EKATO .

*Product features

Single end face set, static balance type.
 Multiple springs, free rotation.
 Horizontal installation, clamping type transmission.
 SiC, 304/316l, fluoro rubber/silicone rubber.
 Outside circulation flushing



*Replacement models

SE3700, SE3000, SE45000

*The common specifications:

SCB-2.5", SCB-3.000", SCB-3.5".



<http://www.hqseal.com>



hq@hqseal.com

HQMA-15(261-85S15)



Type: Side Feed Type Mixer Seal
 Replacement: American LIGHTNIN, SHARPE, EKATO
 Strring .
 Temperature: $\leq 150^{\circ}\text{C}$
 Pressure: $\leq 0.8\text{Mpa}$
 Speed: $\leq 1900\text{r/min}$
 Material: Q1, Q2, U2, T, V, M1, F, G, M



*Product description

Single cartridge seal with bearing mechanical seal. Easy to install and use. Equilibrium, arbitrary rotation. Short internal working length. The static ring compensates the multi - spring external non - contact with the medium.

*Apply to the host

It can also be used on the reaction kettle of chemical industry and paper industry. This seal can completely replace the JOHN CRANET mechanical seal on the LIGHNIN mixer imported from America

*Product features

Single cartridge seal with bearing mechanical seal. Easy to install and use. Equilibrium, arbitrary rotation. Short internal working length. The static ring compensates the multi - spring external non - contact with the medium.

*Replacement models

1VSF-7.5, 1VSF-15, 1VSF-18.5, 1VSF-22.
 2VSF-22, 2VSF-30, 2VSF-37, 2VSF-45, 2VSF-55.



*The common specifications:

AEB-60, AEB-80, AEB-100..



<http://www.hqseal.com>



hq@hqseal.com

HQMA-09(SCB428-2.5",3",3.5")



Type: Side Feed Type Mixer Seal
 Replacement: American SHARPE Mixer and Kettle
 Mechanical Seal
 Temperature: $\leq 120^{\circ}\text{C}$
 Pressure: $\leq 1.6\text{Mpa}$
 Speed: $\leq 1000\text{r/min}$
 Material: Q1, Q2, A, B, U1, U2, P, E, V,
 T, F, G, T2, M5

*Product description

SHARPE MIXER special mechanical seal for sharp agitator. The installation size fits perfectly with the original mechanical seal of the mixer. Assemble type single - end face structure, easy to install and replace. The sealing ring of non-pressure sintering silicon carbide, the matrix parts of corrosion resistant alloy steel and the auxiliary rubber sealing ring for high temperature and corrosion resistance, so that mechanical seal can adapt to various complicated working conditions.

*Apply to the host

SHARPE .



*Product features

Single end face set, static balance type.

Multiple springs, free rotation.

Horizontal installation, clamping type transmission.

SiC, 304/316l, fluoro rubber/silicone rubber.

Outside circulation flushing



*Replacement models

25SV25M-5.34 30SV25M-5.34 30SV25M-5.67
 40SV30M-5.45 50SV30M-5.45 50SV35M-4.34
 75SV35M-5.17

*The common specifications:

SCB428-2.5", SCB428-3", SCB428-3.5"



<http://www.hqseal.com>



hq@hqseal.com

HQMA-13(SCB428-25SV25M-5.34)



Type: Side Feed Type Mixer Seals
 Replacement: American SHARPE 428 Mixer
 Mechanical Seal
 Temperature: 20°C to +120°C
 Pressure: 0 to 2.5Mpa
 Speed: ≤10m/s
 Material: Q1, P, E, V, F, G

*Product description

Replacement America SHARPE ,SADIK MIXER mechanical seal. Dimensions and mechanical mixer seal the original exactly. Cartridge single face structure, installation quick and easy replacement.

*Apply to the host

SHARPE, SADIK Company

*Product features

Single cartridge seal
 Pusher
 Multiple springs seal
 Independent of direction of rotation
 Admissible axial movement ±1



*Replacement models

SE3700,SE3000,SE45000

*The common specifications:

SCB428-2.5", SCB428-3.000", SCB428-3.5".



<http://www.hqseal.com>



hq@hqseal.com

HQMA-18(261-40S15)



Type: Side Feed Type Mixer Seal
 Replacement: Great Well Mixer Pump
 Temperature: $\leq 140^{\circ}\text{C}$
 Pressure: $\leq 0.8\text{Mpa}$
 Speed: $\leq 1800\text{r/min}$
 Material: Q1, Q2, U2, T, V, M1, F, G, M

*Product description

261 series special mechanical seal is the special product for zhejiang Great Wall reducer side agitator.

*Product features

Single end pack with mechanical seal of bearing box. Easy to install and use. Equilibrium, arbitrary rotation. Short internal working length. The static ring compensates the multi - spring external non - contact with the medium.



*Common equipment model:

CFJ1-0.55/350-0.55/280-0.55/230-0.55/190
 CFJ1-0.75/350-0.75/280-0.75/230-0.75/190
 CFJ1-1.1/350-1.1/280-1.1/230-1.1/190
 CFJ1-1.5/350-1.5/280-1.5/230-1.5/190
 CFJ2-2.2/350-2.2/280-2.2/230-2.2/190
 CFJ2-3.4/350-3.4/280-3.4/230-3.4/190
 CFJ3-7.5/190-11/350-11/290-15/280
 CFJ5 250/230-30/340 // 170



*Common seal type:

261-40S15 ,261-45S15,216-50S15, 261-55S15, 261-60S15, 261-65S15,
 261-70S15, 261-75S15, 216-80S15, 261-85S15, 261-90S15, 261-95S15,
 261-100S15



<http://www.hqseal.com>



hq@hqseal.com

HQMA-19(509-50/60/65...100)



Type: Side Feed Type Mixer Seal
 Replacement: Great Well Mixer Pump
 Temperature: $\leq 140^{\circ}\text{C}$
 Pressure: $\leq 0.8\text{Mpa}$
 Speed: $\leq 1800\text{r/min}$
 Material: Q1,Q2,U2,T,V,M1,F,G,M

*Product description

261 series special mechanical seal is the special product for zhejiang Great Wall reducer side agitator.

*Product features

Single end pack with mechanical seal of bearing box.
 Easy to install and use. Equilibrium, arbitrary rotation. Short internal working length. The static ring compensates the multi - spring external non - contact with the medium.



*Common equipment model:

CFJ1-0.55/350-0.55/280-0.55/230-0.55/190
 CFJ1-0.75/350-0.75/280-0.75/230-0.75/190
 CFJ1-1.1/350-1.1/280-1.1/230-1.1/190
 CFJ1-1.5/350-1.5/280-1.5/230-1.5/190
 CFJ2-2.2/350-2.2/280-2.2/230-2.2/190
 CFJ2-3.4/350-3.4/280-3.4/230-3.4/190
 CFJ3-7.5/190-11/350-11/290-15/280
 CFJ5250/230-30/340 // 170

*Common seal type:

261-40S15 ,261-45S15,216-50S15, 261-55S15, 261-60S15, 261-65S15,
 261-70S15, 261-75S15, 216-80S15, 261-85S15, 261-90S15, 261-95S15,
 261-100S15



<http://www.hqseal.com>



hq@hqseal.com

HQMA-10(ESD 42L060)



Type: Side Feed Type Mixer Seal.
 Replacement: German EKATO Mixer Mechanical Seal
 Temperature: 0°C to +150°C
 Pressure: 1.5Mpa
 Speed: ≤5m/s
 Material: Q1, P, E, V, F, G

*Product description

The product is a mechanical seal for EKATO agitator, and the sealing surface is made of high quality non-pressed sintered silicon carbide, and the base material can be selected as SUS316L, 2205, etc. The structure has the advantages of anti-clogging, abrasion resistance and corrosion resistance, and the service life is more than twice that of ordinary mechanical seal.

*Apply to the host

EKATO .

*Product features

Multiple springs, free rotation.

The agitator is sealed and the drive is tight.

SiC, 304/316L, fluorine rubber.

Single end face set, static balance type.



*Replacement models

HWL2060N, HWL2060L,
 HWL2080N, HWL2080L,
 HWL2100N, HWL2100L.



*The common specifications:

ESD-60, ESD42L060R31V,
 ESD-80, ESD42L080R31V,
 ESD-100, ESD42L100R31V.



<http://www.hqseal.com>



hq@hqseal.com

HQMA-22(ESD 042L-80)



Type: Side Feed Type Mixer Seal
 Replacement: Germany EKATO Stirring Pump
 Temperature: $\leq 150^{\circ}\text{C}$
 Pressure: $\leq 0.80\text{Mpa}$
 Speed: $\leq 1900\text{r/min}$
 Material: Q1, Q2, A, B, U1, U2,
 P, E, V, T, F, G, T2, M5

*Product description

the product is sealed with no clogging centrifugal pump, and the structure form is a single end face structure of the assembly type

*Apply to the host

EKATO .

*Product features

Single end face set, static balance type.

Multiple springs, free rotation.

Horizontal installation, clamping type transmission.

SiC, 304/316L, fluoro rubber/silicone rubber.

Outside circulation flushing



*Replacement models

HWL2060N, HWL2060L,
 HWL2080N, HWL2080L,
 HWL2100N, HWL2100L.

*The common specifications:

ESD-60, ESD42L060R31V,
 ESD-80, ESD42L080R31V,
 ESD-100, ESD42L100R31V.



<http://www.hqseal.com>



hq@hqseal.com

HQMA-01(ESD 42L-080R)



Type: Side Feed Type Mixer Seal
 Replacement: Germany EKATO Mixer accessory products
 Temperature: $\leq 150^{\circ}\text{C}$
 Pressure: $\leq 0.80\text{Mpa}$
 Speed: $\leq 1450\text{r/min}$
 Material: Q1, Q2, A, B, U1, U2, P, E, V, T, F, G, T2, M5

*Product description

Single cartridge mechanical seal for mixer application ,replacemente Germany EKATO mixer accessory products.

*Apply to the host

EKATO .

*Product features

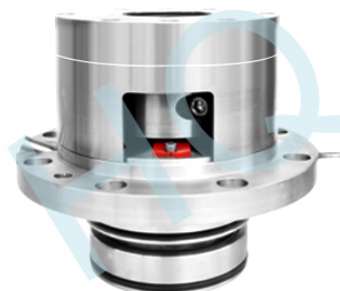
Single cartridge seal

Pusher

Multiple springs seal

Independent of direction of rotation

Admissible axial movement ± 1



*Replacement models

Mixer plant spray tower side agitator reactor stirrer.

*The common specifications:

Mechanical seal EKATO type ESD42L060R
 Mechanical seal EKATO type ESD42L080R
 Mechanical seal EKATO type ESD42L0100R



<http://www.hqseal.com>

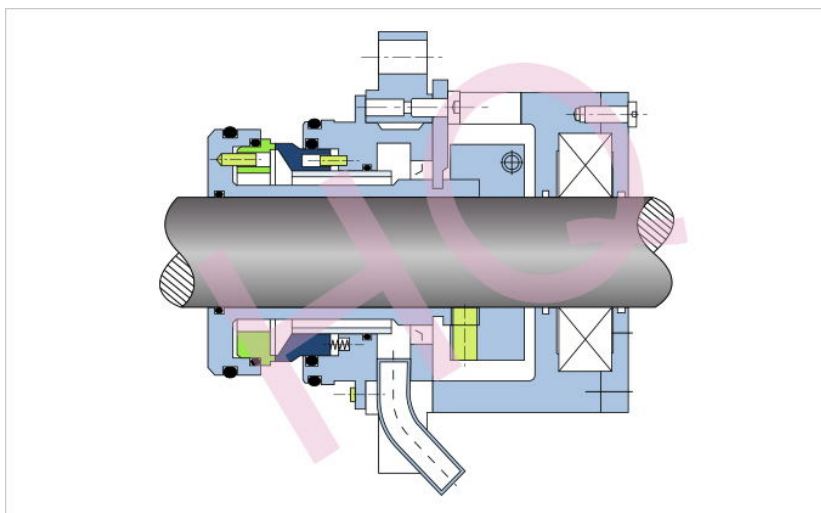


hq@hqseal.com

HQMA-06(ESD HWL2026N)



Type: Side Feed Type Mixer Seals
 Replacement: German EKATO Mixer Mechanical Seal
 Temperature: +5 to +65°C
 Pressure: $\leq 0.8\text{Mpa}$
 Speed: $\leq 5\text{m/s}$
 Material: Q1, Q2, A, B, U1, U2, P, E, V, T, F, G, T2, M5



***Apply to the host**

EKATO .

*** Common equipment model:**

HWL2060N, HWL2060L, HWL2080L,
 HWL2100N, HWL2100L.



*** Common seal type:**

ESD-60, ESD 42L060R31V, ESD-80,
 ESD42L080R31V ,ESD-100, ESD42L100R31V.



<http://www.hqseal.com>



hq@hqseal.com

HQMA-04(ESD 042-080)



Type: Side Fed Type Mixer Mechanical Seal
 Replacement: EKATO Mechanical Seal
 Temperature: $\leq 150^{\circ}\text{C}$
 Pressure: $\leq 0.8\text{Mpa}$
 Speed: $\leq 1900\text{r/min}$
 Material: Q1,Q2,U2,T,V,M1,F,G,M

*Product description

Single cartridge mechanical seal for mixer application ,replacemente Germany EKATO mixer accessory products.

*Apply to the host

EKATO .

*Product features

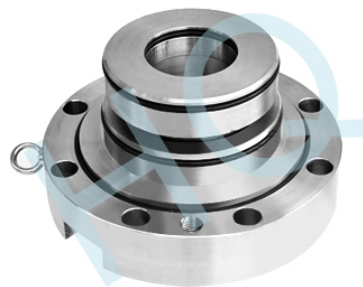
Single cartridge seal

Pusher

Multiple springs seal

Independent of direction of rotation

Admissible axial movement ± 1



*Applicable industries:

Thermal power generation



*Suitable pump:

Side agitator of spray tower of power plant.



<http://www.hqseal.com>



hq@hqseal.com

HQMA-24(ESD-60/80/100)



Type: Side Feed Type Mechanical Seal
Replacement: EKATO Mechanical Seal
Temperature: $\leq 200^{\circ}\text{C}$
Pressure: $\leq 4\text{Mpa}$
Speed: $\leq 15\text{m/s}$
Material: Q1, Q2, U2, T, V, M1, F, G, M

*Product description

Integrated mechanical seal for EKATO agitator, which is wear-resistant and corrosion-resistant stainless steel material, suitable for thermal power plants, pump plants, chemical industry and other fields.

*Apply to the host

EKATO .

*Product features

Wear-resistant,

Corrosion resistant installation convenience,

Affordable sealing performance, long service life



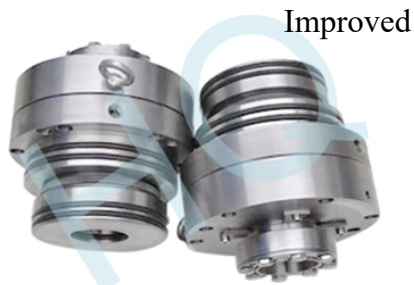
Original

*Applicable industries:

Thermal power generation

*Suitable pump:

Side agitator of spray tower of power plant



Improved



<http://www.hqseal.com>



hq@hqseal.com

HQMA-08(SE3700)



Type: Side Feed Type Mixer seal
Replacement: Australia SARDIK Mechanical Seal
Temperature: 5°C to +65°C
Pressure: $\leq 0.80\text{Mpa}$
Speed: $\leq 5\text{m/s}$
Material: Q1, P, E, V, F, G

*Product description

Single cartridge mechanical seal for mixer, agitator and reactor application, replacement United States Sharp agitator accessory products.

*Apply to the host

SHARPE Company



*Product features

Single cartridge seal
Pusher
Multiple springs seal
Independent of direction of rotation
Admissible axial movement ± 1



*Suitable pump:

Mixer plant spray tower side agitator reactor stirrer

* Common agitator type:

SE3000, SE3700, SE4500.



<http://www.hqseal.com>



hq@hqseal.com

HQMA-23(SE3000)



Type: Mixer Seal
Replacement: Australia SARDIK Mechanical Seal
Temperature: 0°C to +150°C
Pressure: 1.5Mpa
Speed: $\leq 5\text{m/s}$
Material: Q1, P, E, V, F, G

***Product name:**

HQMA-23(AustraliaSADIK SE3000)

***Product description:**

Australian stirrer is sealed with the localization machinery, used in the fire power plant desulfurization professional absorption tower to use AustraliaSADIK SE3000 agitator machine seal accessories, the main performance is to avoid gypsum slurry leakage.

***The main metal parts can be selected according to the working conditions:**

316L or dual-phase stainless steel is used in the contact end of the slurry, and 304 or 2Cr13 or 3Cr13 materials are used for non-slurry contact ends.

Depending on the working conditions, The sealing ring can be used in graphite, reactive sintered silicon carbide or non - pressed sintered silicon carbide products.

The O-ring is made of fluoro rubber or wrap ring.



<http://www.hqseal.com>



hq@hqseal.com

HQMA-21(MUT-60/80/100/120MM)



Type: Desulfurization Stirring Mechanical Seal
Replacement: Germany MUT Mixer Seal
Temperature: $\leq 120^{\circ}\text{C}$
Pressure: $\leq 0.8\text{Mpa}$
Speed: $\leq 1900\text{r/min}$
Material: A, B, U1, U2, Q1,
Q2, V, K, M5,G

*Product description

This series is the special product for supporting American MUT agitator.
The diameter is 60mm 80mm 100mm.

*Apply to the host

American MUT Company



*Product features

Single cartridge mechanical seal with bearing. Easy to install
and use. Balanced, arbitrary rotation, Short internal working length.

*The common agitator type:

SR3D7F-22X, SR4D7F-30X, SR4D7F-37X, SR5D7F-55X

*The common seal type:

TDSL-60, TDSL-80, TDSL-100, TDSL-120

MUT-60, MUT-80, MUT-100, MUT-120



<http://www.hqseal.com>



hq@hqseal.com



47



<http://www.hqseal.com>



hq@hqseal.com



48



<http://www.hqseal.com>



hq@hqseal.com

HQMA-17(AEB-100)



Type: Side Feed Type Mixer Seal
 Replacement: American LIGHNIN Mixer and Desulfurization Pumps
 Temperature: $\leq 150^{\circ}\text{C}$
 Pressure: $\leq 0.80\text{Mpa}$
 Speed: $\leq 1800\text{r/min}$
 Material: Q1, Q2, A, B, U1, U2, P, E, V, T, F, G, T2, M5

*Product description

Single side cartridge mechanical seal for replacement Lighnin mixer application and as Lighnin mixer accessory products.

*Apply to the host

Lighnin Company

*Product features

Single cartridge seal
 Pusher
 Multiple springs seal
 Independent of direction of rotation
 Admissible axial movement ± 1



*Replacement models

1VSF-7.5 1VSF-15 1VSF-18.5 1VSF-22
 2VSF-22 2VSF-30 2VSF-37 2VSF-45 2VSF-55

*The common specifications:

AEB-60, ARB-80 ,AEB-100.



<http://www.hqseal.com>



hq@hqseal.com

HQMA-15(261-85S15)



Type: Side Feed Type Mixer Seal
 Replacement: American LIGHTNIN, SHARPE, EKATO
 Strring .
 Temperature: $\leq 150^{\circ}\text{C}$
 Pressure: $\leq 0.8\text{Mpa}$
 Speed: $\leq 1900\text{r/min}$
 Material: Q1, Q2, U2, T, V, M1, F, G, M

*Product description

Single cartridge seal with bearing mechanical seal. Easy to install and use. Equilibrium, arbitrary rotation. Short internal working length. The static ring compensates the multi - spring external non - contact with the medium.

*Apply to the host

It can also be used on the reaction kettle of chemical industry and paper industry. This seal can completely replace the JOHN CRANET mechanical seal on the LIGHNIN mixer imported from America

*Product features

Single cartridge seal with bearing mechanical seal. Easy to install and use. Equilibrium, arbitrary rotation. Short internal working length. The static ring compensates the multi - spring external non - contact with the medium.

*Replacement models

1VSF-7.5, 1VSF-15, 1VSF-18.5, 1VSF-22.
 2VSF-22, 2VSF-30, 2VSF-37, 2VSF-45, 2VSF-55.



*The common specifications:

AEB-60, AEB-80, AEB-100..



<http://www.hqseal.com>



hq@hqseal.com

HQMA-09(SCB428-2.5",3",3.5")



Type: Side Feed Type Mixer Seal
 Replacement: American SHARPE Mixer and Kettle
 Mechanical Seal
 Temperature: $\leq 120^{\circ}\text{C}$
 Pressure: $\leq 1.6\text{Mpa}$
 Speed: $\leq 1000\text{r/min}$
 Material: Q1, Q2, A, B, U1, U2, P, E, V,
 T, F, G, T2, M5

*Product description

SHARPE MIXER special mechanical seal for sharp agitator. The installation size fits perfectly with the original mechanical seal of the mixer. Assemble type single - end face structure, easy to install and replace. The sealing ring of non-pressure sintering silicon carbide, the matrix parts of corrosion resistant alloy steel and the auxiliary rubber sealing ring for high temperature and corrosion resistance, so that mechanical seal can adapt to various complicated working conditions.

*Apply to the host

SHARPE .

*Product features

Single end face set, static balance type.

Multiple springs, free rotation.

Horizontal installation, clamping type transmission.

SiC, 304/316l, fluoro rubber/silicone rubber.

Outside circulation flushing



*Replacement models

25SV25M-5.34 30SV25M-5.34 30SV25M-5.67
 40SV30M-5.45 50SV30M-5.45 50SV35M-4.34
 75SV35M-5.17

*The common specifications:

SCB428-2.5", SCB428-3", SCB428-3.5"



<http://www.hqseal.com>



hq@hqseal.com

HQMA-13(SCB428-25SV25M-5.34)



Type: Side Feed Type Mixer Seals
 Replacement: American SHARPE 428 Mixer
 Mechanical Seal
 Temperature: 20°C to +120°C
 Pressure: 0 to 2.5Mpa
 Speed: $\leq 10\text{m/s}$
 Material: Q1, P, E, V, F, G

*Product description

Replacement America SHARPE ,SADIK MIXER mechanical seal. Dimensions and mechanical mixer seal the original exactly. Cartridge single face structure, installation quick and easy replacement.

*Apply to the host

SHARPE, SADIK Company

*Product features

Single cartridge seal
 Pusher
 Multiple springs seal
 Independent of direction of rotation
 Admissible axial movement ± 1



*Replacement models

SE3700,SE3000,SE45000

*The common specifications:

SCB428-2.5", SCB428-3.000", SCB428-3.5".



<http://www.hqseal.com>



hq@hqseal.com

HQMA-24(ESD-60/80/100)



Type: Side Feed Type Mechanical Seal
 Replacement: EKATO Mechanical Seal
 Temperature: $\leq 200^{\circ}\text{C}$
 Pressure: $\leq 4\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: Q1,Q2,U2,T,V,M1,F,G,M

*Product description

Integrated mechanical seal for EKATO agitator, which is wear-resistant and corrosion-resistant stainless steel material, suitable for thermal power plants, pump plants, chemical industry and other fields.

*Apply to the host

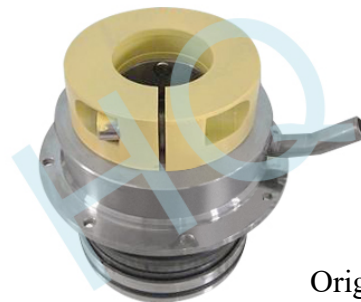
EKATO .

*Product features

Wear-resistant,

Corrosion resistant installation convenience,

Affordable sealing performance, long service life



Original

*Applicable industries:

Thermal power generation

*Suitable pump:

Side agitator of spray tower of power plant



Improved



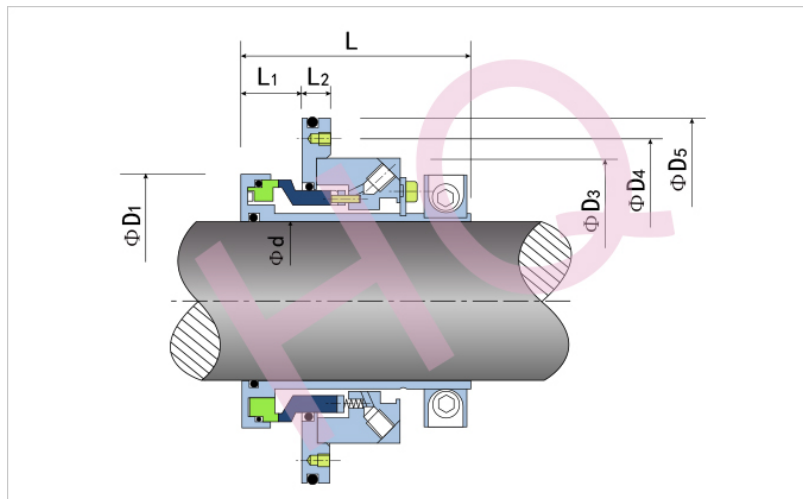
<http://www.hqseal.com>



hq@hqseal.com



Type: Desulfurization Pump Seal
 Replacement: Mud Pumps Seals
 Temperature: -20°C to $+120^{\circ}\text{C}$
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 10\text{m/s}$
 Material: Q1, Q2, A, B, U1, U2,
 P, E, V, T, F, G, T2, M5



*Product description

Cartridge mechanical seals for Xiangyang Wu Er Wu pump LCF series of wear pump, corrosion resistance pump and mud pumps application. Our company is as one of Wu Er Wu pump mechanical seal supplies.

*Apply to the host

XiangYang WuErWu Pump Industry.

*Product features

- Single cartridge seal
- Pusher
- Multiple springs seal
- Independent of direction of rotation
- Admissible axial movement ± 1

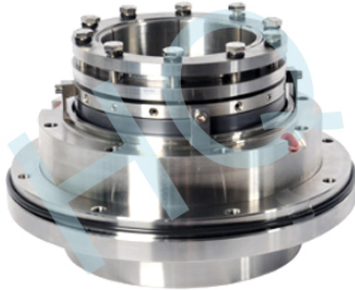


<http://www.hqseal.com>



hq@hqseal.com

HQD-03



Type: Desulfurization Stirred Seal
 Replacement: Suit KSB KWPKC8010 Series pumps
 Temperature: -20 to +120°C
 Pressure: 0 to 0.8Mpa
 Speed: $\leq 12\text{m/s}$
 Material: Q1, Q2, A, B, U1, U2, P, E, V,
 T, F, G, T2, M5

This series special mechanical seal for flue gas desulfurization circulating pump is a special product for the 525th pump industry, with shaft diameter of 125, 142, 158, 175, 198, etc. This machine is sealed into single end face structure and double end face structure with easy installation and strong adaptability. The sealing machine is equipped with internal and external flushing interfaces for users to choose freely. It is easy to install and replace, equipped with flushing circulation system, external flushing water can take away the normally leaking medium and particulate matter from the sealing surface, and prevent long-term corrosion and particle deposition of sealing medium



<http://www.hqseal.com>



hq@hqseal.com

HQD-04



Type: Double Cartridge Seal
 Temperature: $\leq 140^{\circ}\text{C}$
 Pressure: $\leq 1.6\text{Mpa}$
 Speed: $\leq 10\text{m/s}$
 Material: Q1, Q2, U2, T, V, M1, F, G, M

*Product description

Double face seal for ShanDong HuaCheng TL desulfurization pump.

*Product features:

Double cartridge seal. Easy to install and use. balanced, arbitrary rotation.

Short internal working length. The static ring compensates the multi - spring external non -contact with the medium.

*Common pump model:

40TL-17, 40TL-19,
 50TL-30, 50TL-33, 50TL-D40A, 50TL-50,
 65TL-30,
 80TL-36, 80TL-42, 80TL-52,
 100TL-36, 100TL-39, 100TL-42A, 100TL-50, 100TL-60,
 150TL-48, 150TL-50, 150TL-58, 150TL-60, 150TL-70,
 200TL-43, 200TL-56, 200TL-58, 200TL-60, 200TL-65, 200TL-75,
 250TL-44B, 250TL-47A, 250TL-75,
 300TL-50, 300TL-A60,
 350TL-52A,
 400TL-65, 400TL-50,
 500TL-69, 500TL-63,
 550TL-71,
 600TL-80,
 650TL-82,



<http://www.hqseal.com>



hq@hqseal.com

HQD-05



Type: Single Cartridge Mechanical Seal
Temperature: $\leq 150^{\circ}\text{C}$
Pressure: $\leq 1.5\text{Mpa}$
Speed: $\leq 10\text{m/s}$
Material: Q1,Q2,U2,T,V,M1,F,G,M



*Product description

This series desulfurization pump special mechanical seal is special products for 525 pump industry

*Product features

Single cartridge mechanical seal. Easy installation, easy to use, balance, arbitrary rotation, small spring.

*Applicable industries:

Mainly used for side feed agitator in FGD flue gas desulfurization system for coal-fired power generation.



<http://www.hqseal.com>



hq@hqseal.com

HQD-06



Type: Single Cartridge Seal
Temperature: $\leq 150^{\circ}\text{C}$
Pressure: $\leq 1.5\text{Mpa}$
Speed: $\leq 10\text{m/s}$
Material: Q1, Q2, U2, T, V, M1, F, G, M

*Product description

This series of special mechanical seal is the special product of zhejiang hengfengtai side mixer. Single mechanical seal of bearing box. Easy to install and use.

*Product features

Single cartridge mechanical seal. Easy installation, easy to use, balance, arbitrary rotation.



*Applicable industries:

Mainly used for side feed agitator in FGD flue gas desulfurization system for coal-fired power generation.



<http://www.hqseal.com>



hq@hqseal.com



Type: Side Feed Type Mixer Seal
 Replacement: Germany EKATO Mixer accessory products
 Temperature: $\leq 150^{\circ}\text{C}$
 Pressure: $\leq 0.80\text{Mpa}$
 Speed: $\leq 1450\text{r/min}$
 Material: Q1, Q2, A, B, U1, U2, P, E, V,
 T, F, G, T2, M5

*Product description

Single cartridge mechanical seal for mixer application ,replacemente Germany EKATO mixer accessory products.

*Apply to the host

EKATO .

*Product features

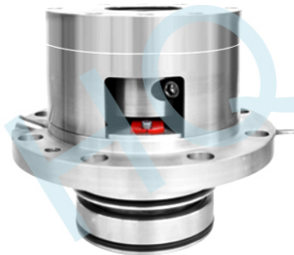
Single cartridge seal

Pusher

Multiple springs seal

Independent of direction of rotation

Admissible axial movement ± 1



*Replacement models

Mixer plant spray tower side agitator
 reactor stirrer.



*The common specifications:

Mechanical seal EKATO type ESD42L060R
 Mechanical seal EKATO type ESD42L080R
 Mechanical seal EKATO type ESD42L0100R



<http://www.hqseal.com>



hq@hqseal.com

HQD-15



Type: Desulfurization Pump Seal

Temperature: $\leq 150^{\circ}\text{C}$

Pressure: $\leq 1.5\text{Mpa}$

Speed: $\leq 10\text{m/s}$

Material: Q1, Q2, U2, T, V, M1, F, G, M

*Product description

This series desulfurization pump special mechanical seal is special products for 525 pump industry

*Product features

multi-spring external to be protected,
static ring compensation, balanced structure.

Shaft size: 20mm ~ 150mm;



*Applicable industries:

Mainly used for side feed agitator in FGD flue
gas desulfurization system for coal-fired power
generation.



<http://www.hqseal.com>



hq@hqseal.com



Type: Multi-Spring Single Mechanical Seal
Temperature: $\leq 140^{\circ}\text{C}$
Pressure: $\leq 1.1\text{Mpa}$
Speed: $\leq 10\text{m/s}$
Material: Q1, Q2, U2, T, V, M1, F, G, M

*Product description

This type slurry pump mechanical seal belongs to multi-spring single end mechanical seal, sealing surface are made of high quality carbide and silicon carbide, the base material can be selected as SUS304, SUS316L, 2205, 2507, etc. The structure has the advantages of anti - clogging, anti - abrasion, anti - corrosion and so on.

*Product features

Single end pack mechanical seal. Easy to install and use. Equilibrium, arbitrary rotation. Short internal working length. The static ring compensates the multi - spring external non - contact with the medium.

According to user requirements can choose single end face, double end face structure.

*Applicable industries:

Mainly used for side feed agitator in FGD flue gas desulfurization system for coal-fired power generation.



<http://www.hqseal.com>



hq@hqseal.com



Type: Multi-Spring Single Cartridge Seal
 Temperature: $\leq 100^{\circ}\text{C}$
 Pressure: $\leq 2.0\text{Mpa}$
 Speed: $\leq 10\text{m/s}$
 Material: Q1,Q2,U2,T,V,M1,F,G,M

*Product description

This type desulfurization pump mechanical seal belongs to multi-spring double end face mechanical seal, double end sealing surface are made of high quality carbide or silicon carbide. The base material can be selected as 304,316L, 2205,2507, etc. The structure has the advantages of anti - clogging, anti - abrasion, anti - corrosion and so on.

*Product features

1.Double-end non-packaged mechanical seal. Multi-spring external protection by effective ring compensation, sealing cavity needs to be added.

2. Circulating sealing liquid, the pressure of sealing liquid is more than 9 0.1mpa above the pump chamber pressure.

*Applicable industries:

Petrochemical industry,Power engineering,Thermal power,Ferrous metallurgy,Mine,Pharmacy, Sewage treatment.



<http://www.hqseal.com>



hq@hqseal.com



Type: Single Cartridge Seal
Temperature: $\leq 140^{\circ}\text{C}$
Pressure: $\leq 1.0\text{Mpa}$
Speed: $\leq 0.8\text{m/s}$
Material: Q1, Q2, U2, T, V, M1, F, G, M

*Product description

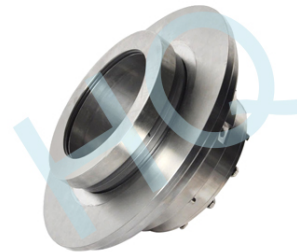
Mainly used for flue gas desulfurization circulating pump of desulfurization spray tower in thermal power plant.

*Product features

Single cartridge seal. Easy to install and use. balanced, arbitrary rotation. Short internal working length. The static ring compensates the multi - spring external non -contact with the medium. According to user requirements can choose single , double end face structure.

*Applicable industries:

Mainly used for side feed agitator in FGD flue gas desulfurization system for coal-fired power generation.



<http://www.hqseal.com>



hq@hqseal.com

HQD-24



Type: Double No-Cartridge Seal
 Replacement: 40DT-B354 Double Mechanical Seal
 Temperature: $\leq 140^{\circ}\text{C}$
 Pressure: $\leq 1\text{Mpa}$
 Speed: $\leq 10\text{m/s}$
 Material: Q1, Q2, U2, T, V, M1, F, G, M

*Product description

The DT type desulfurization pump mechanical seal of shijiazhuang industrial pump factory belongs to multi-spring double end face mechanical seal. The base material can be selected as 304, 316L, 2205, 2507, etc. The structure has the advantages of anti - clogging, anti - abrasion, anti - corrosion and so on.

*Product features

1. Double-end non-packaged mechanical seal. Multi-spring external protection, moving ring compensation, sealing cavity needs to be added
2. Circulating sealing liquid, the pressure of sealing liquid is more than 0.1mpa than the pressure of pump chamber.

*Applicable industries:

Mainly used for side feed agitator in FGD flue gas desulfurization system for coal-fired power generation.



<http://www.hqseal.com>



hq@hqseal.com

HQD-25



Type: Double Cartridge Seal
Replacement: YTBB174
Temperature: $\leq 140^{\circ}\text{C}$
Pressure: $\leq 1.4\text{Mpa}$
Speed: $\leq 10\text{m/s}$
Material: Q1,Q2,U2,T,V,M1,F,G,M

*Product features

Double end pack mechanical seal. Easy to install and use. Equilibrium, arbitrary rotation. Short internal working length. The static ring compensates the multi - spring external non -contact with the medium.

* Applicable medium:

Medium containing gypsum and lime slurry with high impurity content.



* Main applications:

The seal is mainly used for desulfurization of flue gas from coal-fired power plants, suitable for gypsum slurry pump, limestone slurry pump and gypsum discharge pump.



<http://www.hqseal.com>



hq@hqseal.com



Type: Slurry Pump Seal
 Temperature: $\leq 150^{\circ}\text{C}$
 Pressure: $\leq 0.8\text{Mpa}$
 Speed: $\leq 1600\text{r/min}$
 Material: Q1, Q2, U2, T, V, M1, F, G, M

*Product description:

Single end face packing series mechanical seals have short axial size, compact structure, convenient installation, simple use and high safety factor. They adopt single end face packing structure, durable and stable.

*Product features:

Zigong industrial pump HQSR-05 double end mounted mechanical seal series features short axial size, compact structure, convenient installation, simple use and high safety factor. It adopts single end mounted structure, durable and good stability, and is mainly applicable to gypsum slurry pump, limestone slurry pump, gypsum discharge pump, slag slurry pump, etc.

*Scope of application:

Flue gas desulfurization, smelting, fine chemical industry, papermaking and other industries
 Metallurgy Food and beverage industry, Water conservancy.

*Applicable pumps:

Gypsum slurry pump, limestone slurry pump, gypsum discharge pump, slag slurry pump, etc.



<http://www.hqseal.com>



hq@hqseal.com



Type: Slurry Pump Seal
 Temperature: -20 to +150°C
 Pressure: $\leq 0.2\text{Mpa}$
 Speed: $\leq 1800\text{r/min}$
 Material: Q1,Q2,U2,T,V,M1,F,G,M

*Product description:

ZGJ single cartridge seal series features short axial size, compact structure, easy installation, simple use, high safety factor, durability and good stability. It is mainly used for desulfurization of flue gas from coal-fired power plants, and is suitable for gypsum slurry pump, limestone slurry pump, gypsum discharge pump, and mine slag slurry pump, etc.

*Apply to the host:

ShiJiaZhuang strong pump manufacturers.

*Product features:

ZGJ single cartridge seal series features short axial size, compact structure, convenient installation, simple use and high safety factor. It adopts single end mounted structure, durable and good stability, and is mainly applicable to gypsum slurry pump, limestone slurry pump, gypsum discharge pump, slag slurry pump, etc.

*Scope of application:

Flue gas desulfurization, smelting, fine chemical industry, papermaking and other industries
 Metallurgy Food and beverage industry, Water conservancy.

*Applicable pumps:

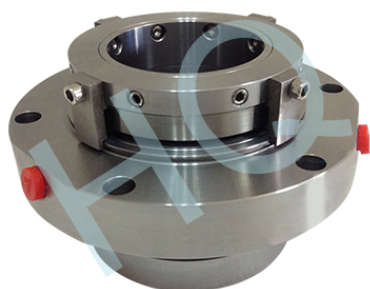
Desulfurization pump, slurry pump, etc.



<http://www.hqseal.com>



hq@hqseal.com



Type: Slurry Pump Seal
 Temperature: $\leq 150^{\circ}\text{C}$
 Pressure: $\leq 1\text{Mpa}$
 Speed: $\leq 1600\text{rpm}$
 Material: Q1,Q2,U2,T,V,M1,F,G,M

*Product description:

Xiangfan 525 LC double cartridge series mechanical seal short axial dimensions, compact structure, convenient installation, simple to use, high safety coefficient, adopt double container type structure, durable, good stability is mainly used in coal-fired flue gas desulfurization, is suitable for the gypsum slurry pump, gypsum, limestone slurry pump discharge pump, mine slurry pump, etc.

*Apply to the host:

Xiangfan 525 pump manufacturers.

*Product features:

Xiangfan 525 LC double cartridge series mechanical seal series features short axial size, compact structure, convenient installation, simple use and high safety factor. It adopts single end mounted structure, durable and good stability, and is mainly applicable to gypsum slurry pump, limestone slurry pump, gypsum discharge pump, slag slurry pump, etc.

*Scope of application:

Chemical, petroleum, paper, pharmaceutical, smelting, light industry, mining, thermal power and other industries .

*Applicable pumps:

slurry pump, etc.



<http://www.hqseal.com>



hq@hqseal.com

HQSR-04



Type: Slurry Pump Seal
 Temperature: $\leq 150^{\circ}\text{C}$
 Pressure: $\leq 0.8\text{Mpa}$
 Speed: $\leq 1600\text{r/min}$
 Material: Q1, Q2, U2, T, V, M1, F, G, M

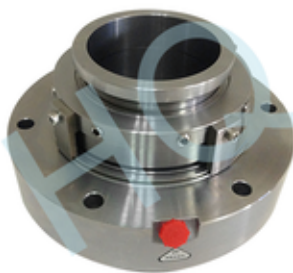
*Scope of application:

Flue gas desulfurization, smelting, fine chemical industry, papermaking and other industries
 Metallurgy Food and beverage industry, Water conservancy.

*Applicable pumps:

Gypsum slurry pump, limestone slurry pump, gypsum discharge pump, slag slurry pump, etc.

HQSR-05



Type: Slurry Pump Seal
 Replacement: Kingda Pump
 Temperature: $\leq 150^{\circ}\text{C}$
 Pressure: $\leq 0.8\text{Mpa}$
 Speed: $\leq 1600\text{r/min}$
 Material: Q1, Q2, U2, T, V, M1, F, G, M

*Scope of application:

Flue gas desulfurization, smelting, fine chemical industry, papermaking and other industries
 Metallurgy Food and beverage industry, Water conservancy.

*Applicable pumps:

Gypsum slurry pump, limestone slurry pump, gypsum discharge pump, slag slurry pump, etc.



<http://www.hqseal.com>



hq@hqseal.com

HQSR-06



Type: Slurry Pump Seal
 Replacement: Kingda Pump
 Temperature: $\leq 150^{\circ}\text{C}$
 Pressure: $\leq 0.8\text{Mpa}$
 Speed: $\leq 1600\text{r/min}$
 Material: Q1,Q2,U2,T,V,M1,F,G,M

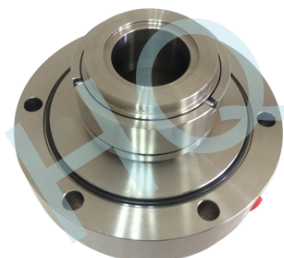
***Scope of application:**

Chemical, petroleum, paper, pharmaceutical, smelting, light industry, mining, thermal power and other industries .

***Applicable pumps:**

Slurry pump.

HQSR-07



Type: Slurry Pump Seal
 Temperature: $\leq 150^{\circ}\text{C}$
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 10\text{r/min}$
 Material: Q1,Q2,U2,T,V,M1,F,G,M

***Scope of application:**

Chemical, petroleum, paper, pharmaceutical, smelting, light industry, mining, thermal power and other industries .

***Applicable pumps:**

Slurry pump.



<http://www.hqseal.com>



hq@hqseal.com

HQSR-08



Type: Slurry Pump Seal

Temperature: $\leq 150^{\circ}\text{C}$

Pressure: $\leq 1.0\text{Mpa}$

Speed: $\leq 10\text{r/min}$

Material: Q1, Q2, U2, T, V, M1, F, G, M

***Scope of application:**

Chemical, petroleum, paper, pharmaceutical, smelting, light industry, mining, thermal power and other industries .

***Applicable pumps:**

Slurry pump.

HQSR-09



Type: Slurry Pump Seal

Temperature: $\leq 150^{\circ}\text{C}$

Pressure: $\leq 1.0\text{Mpa}$

Speed: $\leq 10\text{r/min}$

Material: Q1, Q2, U2, T, V, M1, F, G, M

***Scope of application:**

Chemical, petroleum, paper, pharmaceutical, smelting, light industry, mining, thermal power and other industries .

***Applicable pumps:**

Slurry pump.



<http://www.hqseal.com>



hq@hqseal.com

HQS-10



Type: Slurry Pump Seal

Temperature: $\leq 150^{\circ}\text{C}$

Pressure: $\leq 1.00\text{Mpa}$

Speed: $\leq 10\text{r/min}$

Material: Q1, Q2, U2, T, V, M1, F, G, M

***Scope of application:**

Chemical, petroleum, paper, pharmaceutical, smelting, light industry, mining, thermal power and other industries .

***Applicable pumps:**

Slurry pump.

HQS-11



Type: Slurry Pump Seal

Temperature: $\leq 150^{\circ}\text{C}$

Pressure: $\leq 1.00\text{Mpa}$

Speed: $\leq 10\text{r/min}$

Material: Q1, Q2, U2, T, V, M1, F, G, M

***Scope of application:**

Chemical, petroleum, paper, pharmaceutical, smelting, light industry, mining, thermal power and other industries .

***Applicable pumps:**

Slurry pump.

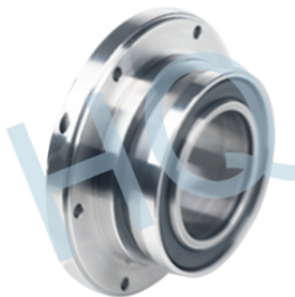


<http://www.hqseal.com>

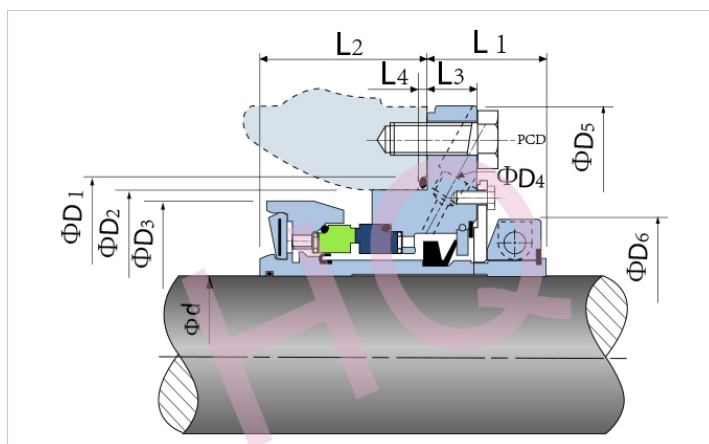


hq@hqseal.com

HQCS-J29(5840)



Type: Slurry Single Cartridge Seal
 Replacement: Crane 5840
 Temperature: -20°C to +75°C
 Pressure: $\leq 2.1\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: Q1, Q2, U2, T, P, M1, F, G, M

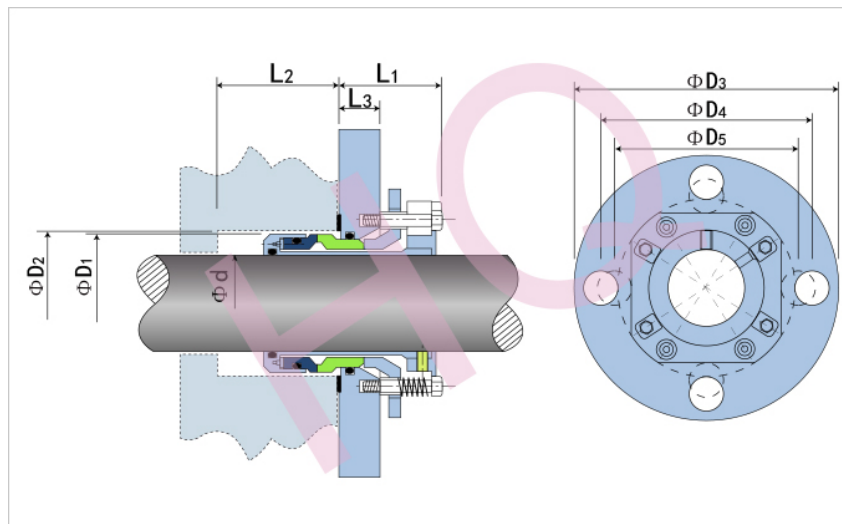


Size (mm)	d	D3	D2	D5	D1	D4 (NPT)	D6	L2	L3	L4	L1	Gland Stud PCD	Stud Dia
1	35-51	99	N/A	140	133.0	1/4"	63	42.0	24.3	N/A	37	N/A	N/A
2	51-82.5	136	163	217	172.7	1/4"	113	54.5	25.0	2.81	45	195	M12
3	82.5-105	170	185	243	200.6	1/4"	154	69.5	21.0	4.33	59	220	M12
4	105-135	204	210	288	225.6	3/8"	196	69.5	27.0	4.33	67	260	M12
5	135-180	258	270	350	285.8	3/8"	235	86.5	25.0	5.52	67	320	M12
6	180-220	310	327.3	428	343.1	3/8"	290	101.0	30.0	5.25	72	388	M20

Size (inch)	d	D3	D2	D5	D1	D4 (NPT)	D6	L2	L3	L4	L1	Gland Stud PCD	Stud Dia
1	1.375-2	3.898	N/A	4.961	5.236	1/4"	2.480	1.654	0.957	N/A	1.457	N/A	N/A
2	2.00-3.25	5.354	6.419	8.543	6.799	1/4"	4.449	2.146	0.984	0.11	1.772	7.677	M12
3	3.25-4.125	6.693	7.285	9.567	7.898	1/4"	6.063	2.736	0.827	0.171	2.323	8.661	M12
4	4.125-5.313	8.032	8.269	11.339	8.882	3/8"	7.717	2.736	1.063	0.171	2.638	10.236	M12
5	5.313-7.063	10.157	10.632	13.78	11.25	3/8"	9.252	3.406	0.984	0.217	2.638	12.598	M12
6	7.063-8.625	12.205	12.885	16.85	13.507	3/8"	11.417	3.976	1.181	0.206	2.638	15.276	M20



Type: Slurry Pump Seal
 Replacement: Chesterton 170
 Temperature: $\leq 180^{\circ}\text{C}$
 Pressure: $\leq 0.8\text{Mpa}$
 Speed: $\leq 10\text{m/s}$
 Material: A,B,Q2,U2,P,K,E,G,M5

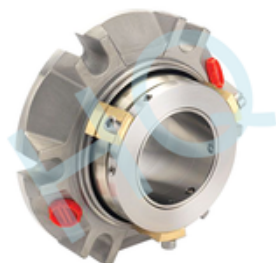


<http://www.hqseal.com>

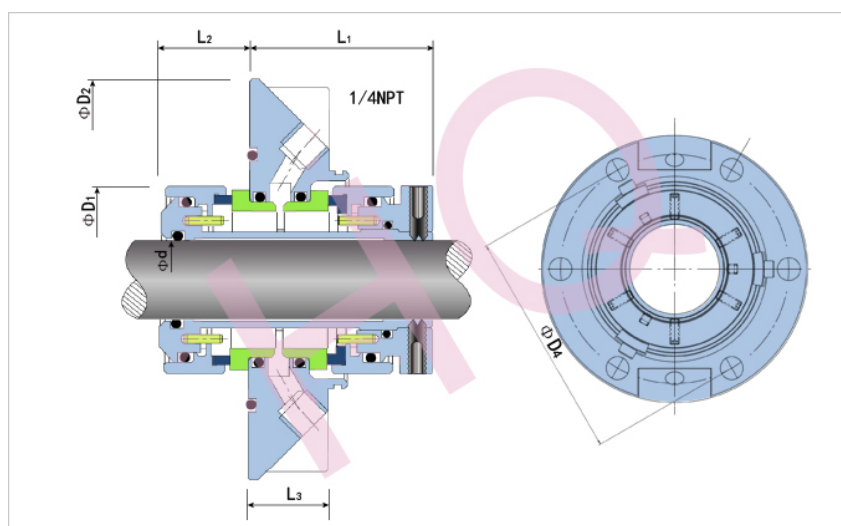


hq@hqseal.com

HQS-A-CDPH



Type: Slurry Pumps Seal
 Replacement: AES CDPH
 Temperature: $\leq 180^{\circ}\text{C}$
 Pressure: $\leq 0.80\text{Mpa}$
 Speed: $\leq 10\text{r/min}$
 Material: Q1, Q2, A, B, U1, U2, P, E, V,
 T, F, G, T2, M5



d (mm)	D1	D2	D4	L1	L2	L3
60	97	163	139.7	62.23	31.33	28.6
80	126	189	168.3	65.00	32.00	28.6
100	138	214	187.3	64.80	31.33	28.6
130	172	278	238.0	103.20	53.10	47.3
175	231	338	300.0	104.50	53.80	47.3



<http://www.hqseal.com>

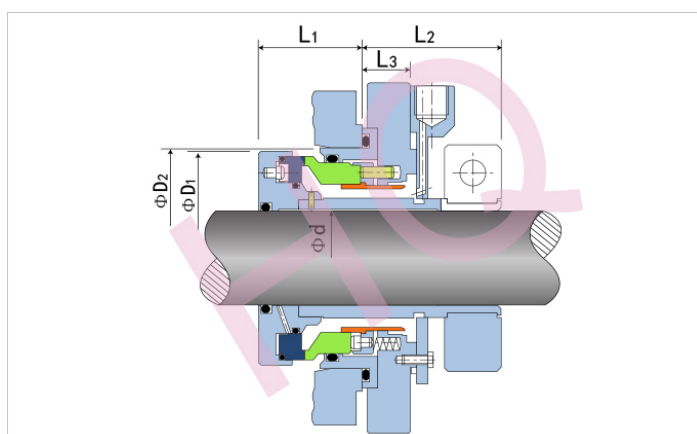


hq@hqseal.com

HQS-J5860



Type: Slurry Pumps Seal
 Replacement: Crane 5860
 Temperature: Elastomer dependent
 Pressure: $\leq 2.80\text{Mpa}$
 Speed: $\leq 25\text{m/s}$
 Material: Q1, Q2, A, B, U1, U2, P, E, V,
 T, F, G, T2, M5



<http://www.hqseal.com>



hq@hqseal.com

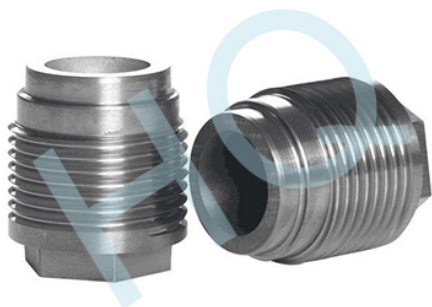
d(mm) (max)	D1	D2 (min)	L1	L2	L3
30.0	67.0	73.0	32.5	54.5	20.0
41.3	85.0	91.0	32.5	60.5	23.0
48.0	90.0	96.0	34.5	63.5	26.0
55.0	100.0	106.0	34.5	63.5	26.0
70.0	119.0	125.0	40.5	63.5	26.0
76.2	130.0	136.0	47.5	66.5	27.0
86.0	138.5	144.5	45.5	66.5	27.0
92.0	148.0	154.0	45.5	66.5	27.0
112.0	172.0	178.0	59.0	75.0	28.5
124.0	187.0	193.0	59.0	75.0	28.5
140.0	205.0	211.0	59.0	75.0	28.5
158.0	225.0	231.0	60.5	78.5	32.0
165.1	240.0	246.0	60.0	79.0	32.5
194.0	266.0	272.0	60.0	79.0	32.5
200.0	275.0	281.0	67.4	82.0	35.5
220.0	288.0	294.0	69.3	82.0	35.5

Nozzle-21T



Type:Nozzle
Material:TC

Nozzle-22T



Type:Nozzle
Material:TC



<http://www.hqseal.com>



hq@hqseal.com

Nozzle-23T



Type:Nozzle
Material:TC

Nozzle-24T



Type:Nozzle
Material:TC



<http://www.hqseal.com>



hq@hqseal.com

Nozzle-25T



Type:Nozzle
Material:TC

Nozzle-26T



Type:Nozzle
Material:TC

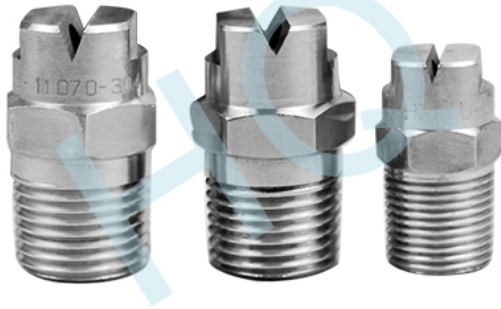


<http://www.hqseal.com>



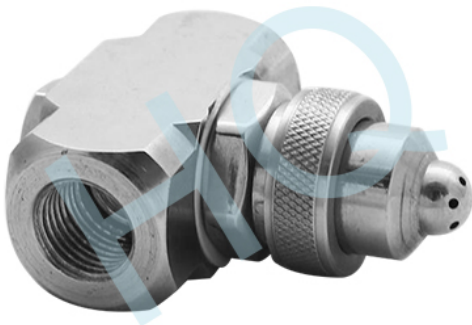
hq@hqseal.com

Nozzle-31SS



Type:Nozzle
Material:Stainleee Steel

Nozzle-32SS



Type:Nozzle
Material:Stainlees Steel



<http://www.hqseal.com>



hq@hqseal.com

Nozzle-33SS



Type:Nozzle
Material:Stainlees Steel

Nozzle-34SS



Type:Nozzle
Material:Stainlees Steel

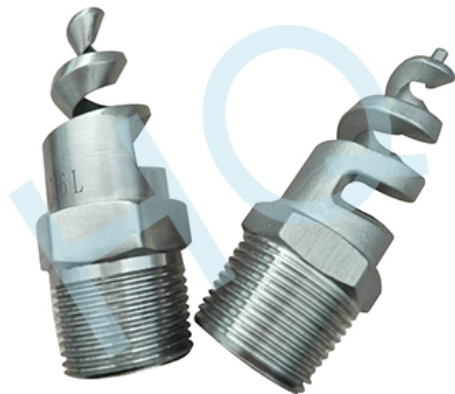


<http://www.hqseal.com>



hq@hqseal.com

Nozzle-35SS



Type:Nozzle
Material:Stainlees Steel

Nozzle-36SS



Type:Nozzle
Material:Stainlees Steel

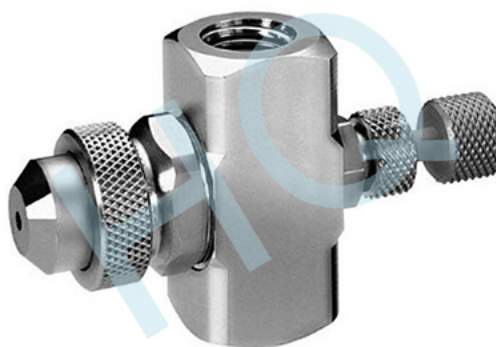


<http://www.hqseal.com>



hq@hqseal.com

Nozzle-37SS



Type:Nozzle
Material:Stainlees Steel

Nozzle-38SS



Type:Nozzle
Material:Stainlees Steel



<http://www.hqseal.com>



hq@hqseal.com

Nozzle-41P



Type:Nozzle
Material:CER, PTFE

Nozzle-42P



Type:Nozzle
Material:CER, PTFE



<http://www.hqseal.com>



hq@hqseal.com

Nozzle-43P



Type:Nozzle
Material:CER, PTFE

Nozzle-44P



Type:Nozzle
Material:PTFE, PP



<http://www.hqseal.com>



hq@hqseal.com

Nozzle-01S



Type:Nozzle
Material:Silicon Cardide

Nozzle-04S



Type:Nozzle
Material:Silicon Cardide



<http://www.hqseal.com>



hq@hqseal.com

Nozzle-05S



Type:Nozzle
Material:Silicon Cardide

Nozzle-08S



Type:Nozzle
Material:Silicon Cardide



<http://www.hqseal.com>



hq@hqseal.com

Nozzle-09S



Type:Nozzle
Material:Silicon Cardide

Nozzle-13S



Type:Nozzle
Material:Silicon Cardide



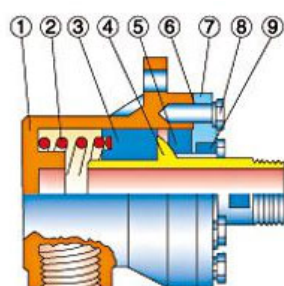
<http://www.hqseal.com>



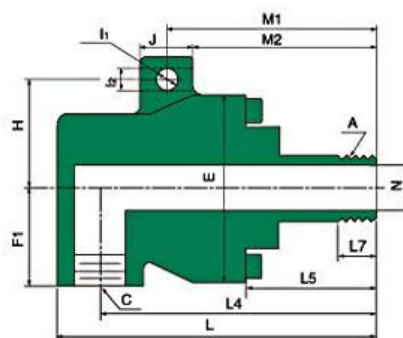
hq@hqseal.com



Type: RYQD Rotary Joint
 Temperature: $\leq 340^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



- 1. 壳体
- 2. 弹簧
- 3. 无油轴承
- 4. 外管体
- 5. 球面密封环
- 6. 密封垫
- 7. 底盖
- 8. 螺栓
- 9. 前导向环



Model	A	C	E	F1	H	l1	l2	J	L	L4	L5	L7	M1	M2	N
RYQD20	R3/4	RC3/4	96	49	53	12	12	25	197	144	50	20	144	132	18
RYQD25	R1	RC1	98	56	65	12	12	25	231	169	61	22	169	157	24
RYQD32	R1-1/4	RC1-1/4	120	68	78	14	14	30	259	192	65	26	206	176	30
RYQD40	R1-1/2	RC1-1/2	130	80	80	14	14	32	285	210	70	30	210	194	38
RYQD50	R2	RC2	160	94	90	14	14	36	338	242	80	30	260	242	48



<http://www.hqseal.com>

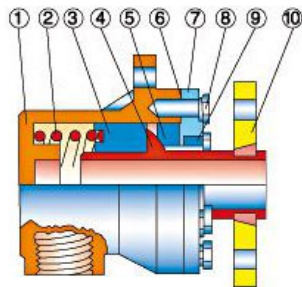


hq@hqseal.com

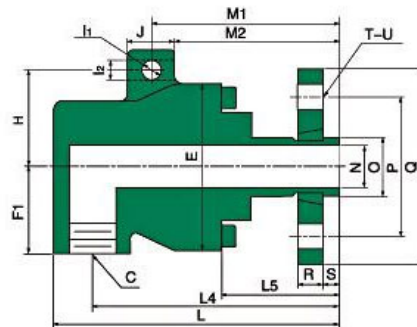
JRYQD-F



Type: RYQD-F Rotary Joint
 Temperature: $\leq 340^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



- 1. 壳体
- 2. 弹簧
- 3. 无油轴承
- 4. 外管体
- 5. 球面密封环
- 6. 密封垫
- 7. 底座
- 8. 螺栓
- 9. 前导向环
- 10. 半分环法兰



Model	C	E	F1	H	I1	I2	J	L	L4	L5
RYQD-F20	RC3/4	96	49	53	12	12	25	197	144	50
RYQD-F25	RC1	98	56	65	12	12	25	231	169	61
RYQD-F32	RC1-1/4	120	68	78	14	14	30	259	192	65
RYQD-F40	RC1-1/2	130	80	80	14	14	32	285	210	70
RYQD-F50	RC2	160	94	90	14	14	36	338	242	80
Model	M1	M2	N	O	P	Q	R	S	T	U
RYQD-F20	144	132	18	27	5	105	16	8	4	14
RYQD-F25	169	157	24	33.5	85	115	16	8	4	14
RYQD-F32	206	176	30	42	100	140	18	12	4	18
RYQD-F40	210	194	38	48	110	150	18	12	4	18
RYQD-F50	260	242	48	60	125	165	20	15	4	18



<http://www.hqseal.com>

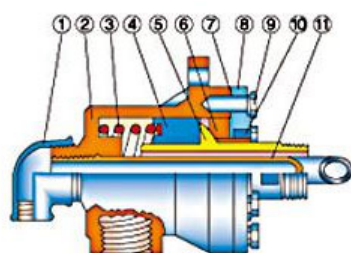


hq@hqseal.com

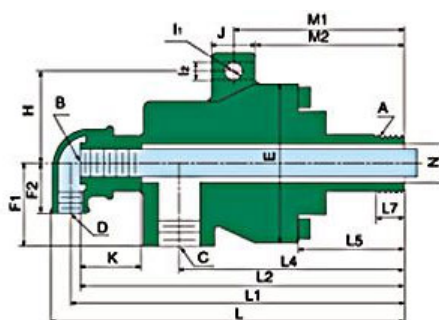
JRYQS-G



Type: RYQS-G Rotary Joint
 Temperature: $\leq 340^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



1. 管头
2. 壳体
3. 弹簧
4. 无油轴承
5. 外管体
6. 球面密封环
7. 密封垫
8. 桩盖
9. 螺栓
10. 前导向环
11. 内管



Model	A	B	C	E	F1	F2	H	I1	I2	J
RYQS-G20-8	R3/4	G1/4	RC3/4	96	49	30	53	12	12	25
RYQS-G25-10	R1	G3/8	RC3/4	98	56	40	65	12	12	25
RYQS-G32-15	R1-1/4	G1/2	RC1	120	68	38	78	14	14	30
RYQS-G40-20	R1-1/2	G3/4	RC1-1/4	130	80	43	80	14	14	32
RYQS-G50-25	R2	G1	RC1-1/2	160	94	51	90	14	14	36
Model	K	L	L1	L2	L4	L5	L7	M1	M2	N
RYQS-G20-8	30	245	228	222	144	50	20	144	132	18
RYQS-G25-10	31	285	270	257	169	61	22	169	157	24
RYQS-G32-15	34	312	298	289	192	65	26	206	176	30
RYQS-G40-20	40	350	332	320	210	70	30	210	194	38
RYQS-G50-25	50	416	395	378	242	80	30	260	242	48



<http://www.hqseal.com>



hq@hqseal.com

JRYQS-GF



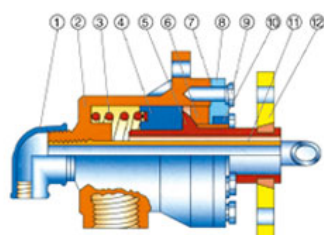
Type: RYQS-GF Rotary Joint

Temperature: $\leq 340^{\circ}\text{C}$

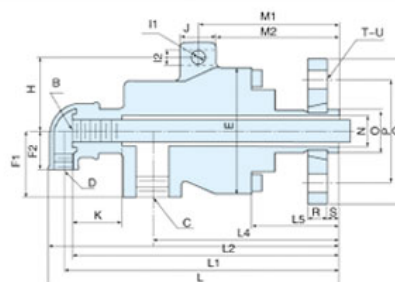
Pressure: $\leq 1.8\text{MPa}$

Speed: $\leq 100\text{RPM}$

Material: Ductile Iron



- 1. 弯头
- 2. 壳体
- 3. 弹簧
- 4. 无油轴承
- 5. 外管体
- 6. 球面密封环
- 7. 密封垫
- 8. 底盖
- 9. 螺栓
- 10. 前导向环
- 11. 内管
- 12. 半分环法兰



Model	B	C	D	E	F1	F2	H	11	12	J	K	L	L1
RYQS-GF20-8	G1/4	RC3/4	RC1/2	96	48	30	48	12	12	25	35	210	195
RYQS-GF25-10	G3/8	RC3/4	RC1/2	75	40	40	55	12	12	26	35	240	225
RYQS-GF32-15	G1/2	RC1	RC1/2	120	63	38	70	14	14	26	47	254	239
RYQS-GF40-20	G3/4	RC1-1/4	RC3/4	130	70	43	78	16	16	32	45	291	273
RYQS-GF50-25	G1	RC1-1/2	RC1	160	80	51	80	18	18	35	36	315	295
Model	L2	L4	L5	M1	M2	N	O	P	Q	R	S	T	U
RYQS-GF20-8	171	133	55	104	-	18	27	75	105	16	8	4	14
RYQS-GF25-10	215	165	47	-	95	25	33.5	85	115	16	8	4	14
RYQS-GF32-15	223	156	62	-	98	30	42	100	140	18	12	4	18
RYQS-GF40-20	254	187	69	-	125	38	48	110	150	18	12	4	18
RYQS-GF50-25	274	199	70	138		48	60	125	165	20	15	4	18



<http://www.hqseal.com>

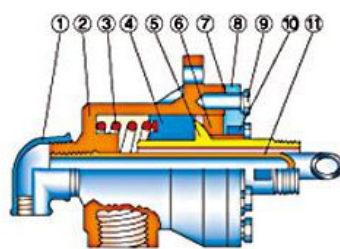


hq@hqseal.com

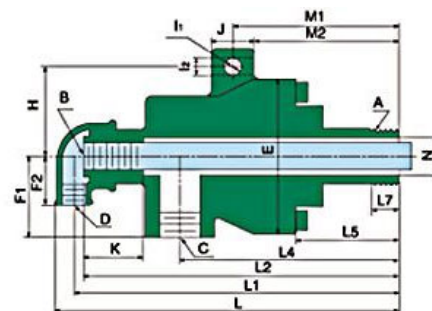
JRYQS-X



Type: RYQS-X Rotary Joint
 Temperature: $\leq 340^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



1. 弯头 2. 壳体
3. 弹簧 4. 无油轴承
5. 外套体 6. 球面密封环
7. 密封垫 8. 底座
9. 螺栓 10. 前导内环
11. 内管



Model	A	B	C	E	F1	F2	H	I1	I2	J
RYQS-X20-8	R3/4	G1/4	RC3/4	96	49	30	53	12	12	25
RYQS-X25-10	R1	G3/8	RC3/4	98	56	40	65	12	12	25
RYQS-X32-15	R1-1/4	G1/2	RC1	120	68	38	78	14	14	30
RYQS-X40-20	R1-1/2	G3/4	RC1-1/4	130	80	43	80	14	14	32
RYQS-X50-25	R2	G1	RC1-1/2	160	94	51	90	14	14	36
Model	K	L	L1	L2	L4	L5	L7	M1	M2	N
RYQS-X20-8	30	245	228	222	144	50	20	144	132	18
RYQS-X25-10	31	285	270	257	169	61	22	169	157	24
RYQS-X32-15	34	312	298	289	192	65	26	206	176	30
RYQS-X40-20	40	350	332	320	210	70	30	210	194	38
RYQS-X50-25	50	416	395	378	242	80	30	260	242	48



<http://www.hqseal.com>

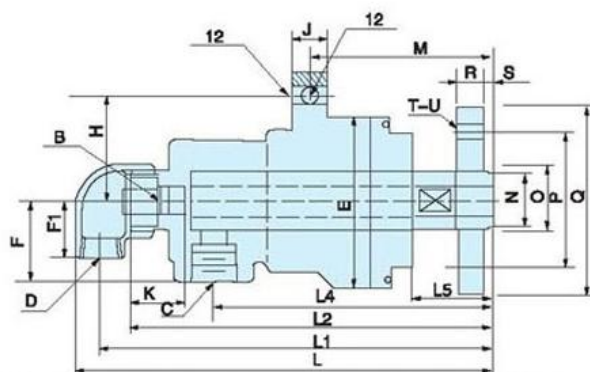


hq@hqseal.com

JRYQS-XF



Type: RYQS-XF Rotary Joint
 Temperature: $\leq 340^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



Model	B	C	D	E	F	F1	H	I1	I2	J	K	L	L1
RYQS-XF20-8	G1/4	RC3/4	RC1/2	86	46	30	55	10	10	25	34	235	220
RYQS-XF25-10	G3/8	RC3/4	RC1/2	96	50	33	6	10	10	25	34	254	239
RYQS-XF32-15	G1/2	RC1	RC1/2	116	60	38	72	14	14	30	45	276	264
RYQS-XF40-20	G3/4	RC1-1/4	RC3/4	125	65	43	76	14	14	30	45	212	295
RYQS-XF50-25	G1	RC1-1/2	RC1	145	75	51	88	14	14	30	55	354	321
Model	L2	L4	L5	M	N	O	P	Q	R	S	T	U	
RYQS-XF20-8	202	152	40	104	18	27	75	105	16	12	4	14	
RYQS-XF25-10	224	158	48	112	23	33.5	85	115	16	12	4	14	
RYQS-XF32-15	249	190	50	125	32	42	100	140	18	14	4	18	
RYQS-XF40-20	282	196	60	143	38	48	110	150	18	14	4	18	
RYQS-XF50-25	312	245	68	150	48	60	125	165	20	18	4	18	



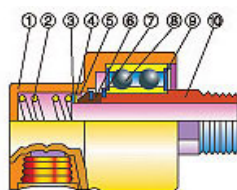
<http://www.hqseal.com>



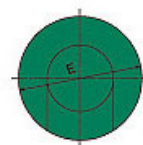
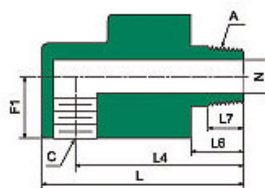
hq@hqseal.com



Type: H Water Coolant Rotary Joint
 Temperature: $\leq 100^{\circ}\text{C}$
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 1000\text{RPM}$
 Material: Medium: Water, Hydraulic
 Oil, Coolant, Vacuum, Air



1. 壳体
2. 弹簧
3. 弹簧垫
4. 平胶垫
5. 辅助密封圈
6. 密封环
7. 轴用挡圈封面
8. 轴承
9. 孔用挡圈
10. 空心轴



Size (mm)	Type	A	C	E	F1	L	L4	L6	L7	N
6	HD-6	R1/8	RC1/8	39	20	76	66	22	12	5
8	HD-8	R1/4	RC1/4	39	20	76	66	22	12	5
10	HD-10	R3/8	RC3/8	55	28	105	90	30	15	8
15	HD-15	R1/2	RC1/2	55	28	105	90	30	18	12
20	HD-20	R3/4	RC3/4	62	31	115	95	30	20	16
25	HD-25	R1	RC1	74	37	125	103	33	20	20
32	HD-32	R1-1/4	RC1-1/4	90	45	156	128	42	25	30
40	HD-40	R1-1/2	RC1-1/2	95	48	160	130	40	25	36
50	HD-50	R2	RC2	122	61	220	182	60	35	48
65	HD-65	R2-1/2	RC2-1/2	156	78	256	211	68	40	62
80	HD-80	R3	RC3	160	80	286	231	90	35	75
100	HD-100	R4	RC4	220	110	405	335	90	45	98



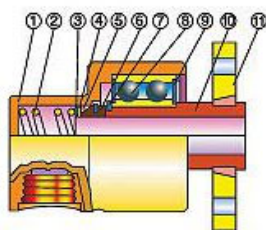
<http://www.hqseal.com>



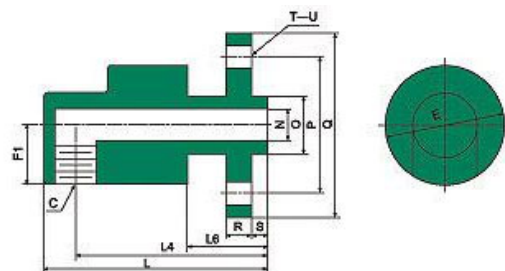
hq@hqseal.com



Type: H Water Coolant Rotary Joint
 Temperature: $\leq 100^{\circ}\text{C}$
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 1000\text{RPM}$
 Material: Medium: Water,Hydraulic
 Oil,Coolant,Vacuum,Air



1. 壳体
2. 弹簧
3. 弹簧垫
4. 平胶垫
5. 辅助密封圈
6. 密封环
7. 轴用挡圈
8. 轴承
9. 孔用挡圈
10. 空心轴
11. 半分环法兰



Size (mm)	Type	A	E	F1	L	L4	L6	N
10	HD-F10	R3/8	55	28	118	103	43	8
15	HD-F15	R1/2	55	28	118	103	43	12
20	HD-F20	R3/4	62	31	132	112	47	16
25	HD-F25	R1	74	37	141	119	49	20
32	HD-F32	R1-1/4	90	45	171	143	57	30
40	HD-F40	R1-1/2	95	48	177	147	57	36
50	HD-F50	R2	122	61	225	187	65	48
65	HD-F65	R2-1/2	156	78	264	219	76	62
80	HD-F80	R3	160	80	286	231	90	75
100	HD-F100	R4	220	110	380	310	70	98

Size (mm)	Type	O	P	Q	R	S	T	U
10	HD-F10	20	60	90	14	6	4	14
15	HD-F15	26	65	95	14	8	4	14
20	HD-F20	32	75	105	16	8	4	14
25	HD-F25	36	85	115	16	10	4	14
32	HD-F32	46	100	140	18	10	4	18
40	HD-F40	50	110	150	18	10	4	18
50	HD-F50	60	125	165	20	14	4	18
65	HD-F65	75	145	185	20	18	4	18
80	HD-F80	90	160	200	20	12	8	18
100	HD-F100	114	180	220	22	12	8	18



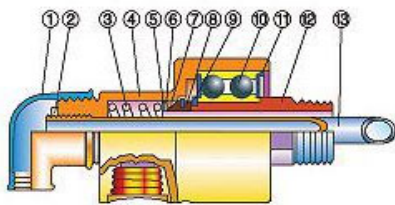
Type: H Water Coolant Rotary Joint

Temperature: $\leq 100^{\circ}\text{C}$

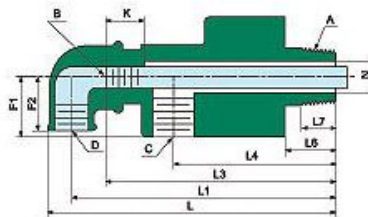
Pressure: $\leq 1.0\text{Mpa}$

Speed: $\leq 1000\text{RPM}$

Material: Medium: Water, Hydraulic Oil, Coolant, Vacuum, Air



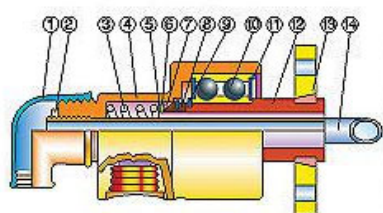
1. 弯头
2. 锁紧螺母
3. 弹簧
4. 壳体
5. 弹簧垫
6. 平胶垫
7. 辅助密封圈
8. 密封环
9. 轴用挡圈
10. 轴承
11. 孔用挡圈
12. 空心轴
13. 内管



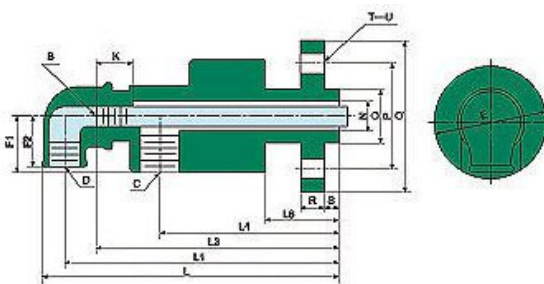
Size (mm)	Type	A	B	C	D	E	F1	F2	K
15	HS-G15-6	R1/2	G1/8	RC1/2	RC1/2	55	28	25	15
20	HS-G20-8	R3/4	G1/4	RC3/4	RC1/2	62	31	30	32
25	HS-G25-10	R1	G3/8	RC3/4	RC1/2	74	37	33	26
32	HS-G32-15	R1-1/4	G1/2	RC1-1/4	RC1/2	90	45	38	32
40	HS-G40-20	R1-1/2	G3/4	RC1-1/2	RC3/4	95	48	43	36
50	HS-G50-25	R2	G1	RC1-1/2	RC1	122	61	51	46
65	HS-G65-32	R2-1/2	G1-1/4	RC2	RC1-1/4	156	78	62	50
80	HS-G80-40	R3	G1-1/2	RC2-1/2	RC1-1/2	160	80	70	50
Size (mm)	Type	L	L1	L3	L4	L6	L7	N	
15	HS-G15-6	147	135	125	90	30	17	12	
20	HS-G20-8	170	155	140	95	30	20	16	
25	HS-G25-10	175	160	145	103	33	20	20	
32	HS-G32-15	211	196	182	128	42	25	30	
40	HS-G40-20	232	210	185	130	40	25	36	
50	HS-G50-25	300	278	255	182	60	35	48	
65	HS-G65-32	350	325	295	211	68	40	62	
80	HS-G80-40	383	353	286	231	90	35	75	



Type: H Water Coolant Rotary Joint
 Temperature: $\leq 100^{\circ}\text{C}$
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 1000\text{RPM}$
 Material: Medium: Water, Hydraulic
 Oil, Coolant, Vacuum, Air



- 1. 管头
- 2. 锁紧螺母
- 3. 弹簧
- 4. 壳体
- 5. 弹簧垫
- 6. 平胶垫
- 7. 辅助密封圈
- 8. 密封环
- 9. 轴用挡圈
- 10. 轴承
- 11. 孔用挡圈
- 12. 空心轴
- 13. 半分环法兰
- 14. 内管

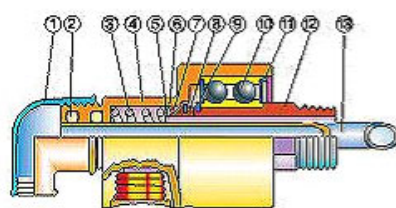


Size (mm)	Type	B	C	D	E	F1	F2	K	L	L1	L3
15	HS-GF15-6	G1/8	RC1/2	RC1/2	55	28	25	15	160	148	138
20	HS-GF20-8	G1/4	RC3/4	RC1/2	62	31	30	32	187	172	157
25	HS-GF25-10	G3/8	RC3/4	RC1/2	74	37	33	26	190	175	160
32	HS-GF32-15	G1/2	RC1-1/4	RC1/2	90	45	38	32	226	211	197
40	HS-GF40-20	G3/4	RC1-1/2	RC3/4	95	48	43	36	249	227	202
50	HS-GF50-25	G1	RC1-1/2	RC1	122	61	51	46	305	283	260
65	HS-GF65-32	G1-1/4	RC2	RC1-1/4	156	78	62	50	358	333	303
80	HS-GF80-40	G1-1/2	RC2-1/2	RC1-1/2	160	80	70	50	383	353	286

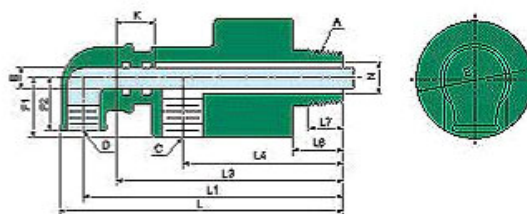
Size (mm)	Type	L4	L6	N	O	P	Q	R	S	T	U
15	HS-GF15-6	103	43	12	26	65	95	14	8	4	14
20	HS-GF20-8	112	47	16	32	75	105	14	8	4	14
25	HS-GF25-10	118	49	20	36	85	115	16	10	4	14
32	HS-GF32-15	143	57	30	46	100	140	18	10	4	18
40	HS-GF40-20	147	57	36	50	110	150	18	10	4	18
50	HS-GF50-25	287	65	48	60	125	165	20	14	4	18
65	HS-GF65-32	219	76	62	75	145	185	20	18	4	18
80	HS-GF80-40	231	90	75	90	160	200	20	12	8	18



Type: H Water Coolant Rotary Joint
 Temperature: $\leq 100^{\circ}\text{C}$
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 1000\text{RPM}$
 Material: Medium: Water,Hydraulic
 Oil,Coolant,Vacuum,Air



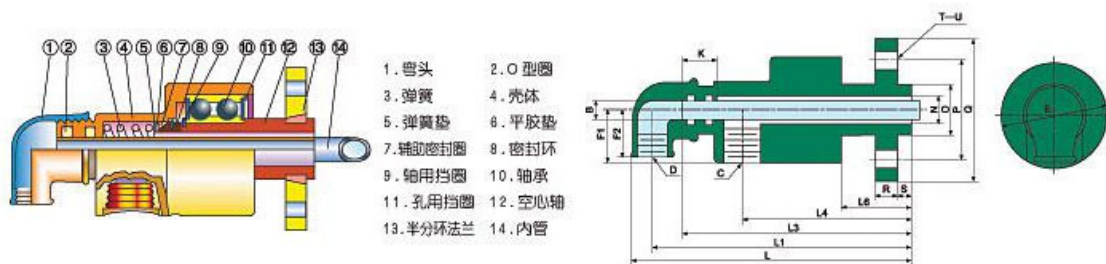
- | | |
|----------|---------|
| 1. 弯头 | 2. O型圈 |
| 3. 弹簧 | 4. 壳体 |
| 5. 弹簧垫 | 6. 平垫垫 |
| 7. 辅助密封圈 | 8. 密封环 |
| 9. 轴用挡圈 | 10. 轴承 |
| 11. 孔用挡圈 | 12. 空心轴 |
| 13. 内管 | |



Size (mm)	Type	A	B	C	D	E	F1	F2	K
15	HS-X15-6	R1/2	G1/8	RC1/2	RC1/2	55	28	25	15
20	HS-X20-8	R3/4	G1/4	RC3/4	RC1/2	62	31	30	32
25	HS-X25-10	R1	G3/8	RC3/4	RC1/2	74	37	33	26
32	HS-X32-15	R1-1/4	G1/2	RC1-1/4	RC1/2	90	45	38	32
40	HS-X40-20	R1-1/2	G3/4	RC1-1/2	RC3/4	95	48	43	36
50	HS-X50-25	R2	G1	RC1-1/2	RC1	122	61	51	46
65	HS-X65-32	R2-1/2	G1-1/4	RC2	RC1-1/4	156	78	62	50
80	HX-X80-40	R3	G1-1/2	RC2-1/2	RC1-1/2	160	80	70	50
Size (mm)	Type	L	L1	L3	L4	L6	L7	N	
15	HS-X15-6	147	135	125	90	30	17	12	
20	HS-X20-8	170	155	140	95	30	20	16	
25	HS-X25-10	175	160	145	103	33	20	20	
32	HS-X32-15	211	196	182	128	42	25	30	
40	HS-X40-20	232	210	185	130	40	25	36	
50	HS-X50-25	300	278	255	182	60	35	48	
65	HS-X65-32	350	325	295	211	68	40	62	
80	HX-X80-40	383	353	286	231	90	35	75	



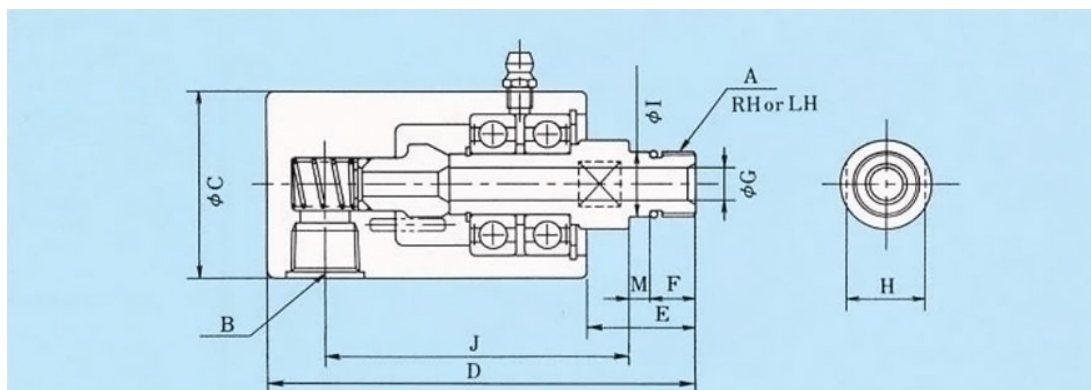
Type: H Water Coolant Rotary Joint
 Temperature: $\leq 100^{\circ}\text{C}$
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 1000\text{RPM}$
 Material: Medium: Water, Hydraulic
 Oil, Coolant, Vacuum, Air



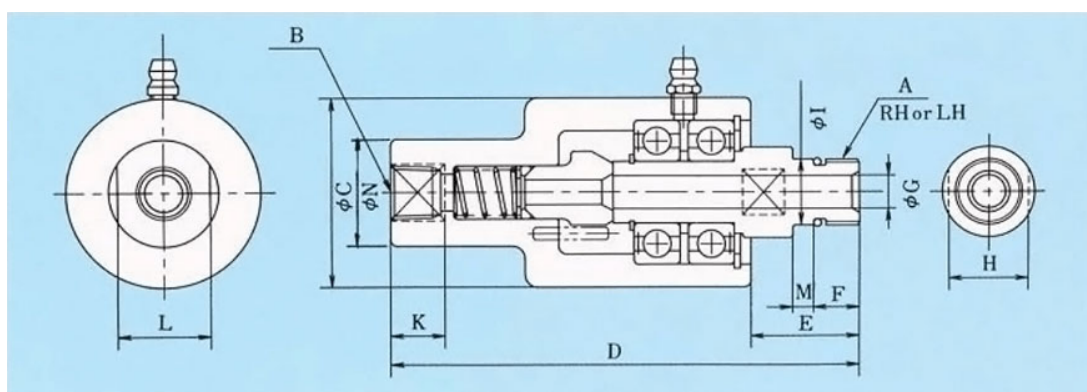
Size (mm)	Type	B	C	D	E	F1	F2	K	L	L1	L3
15	HS-XF15-6	10	RC1/2	RC1/2	55	28	25	15	147	135	125
20	HS-XF20-8	12	RC3/4	RC1/2	62	31	30	32	170	155	140
25	HS-XF25-10	16	RC3/4	RC1/2	74	37	33	26	175	160	145
32	HS-XF32-15	20	RC1-1/4	RC1/2	90	45	38	32	211	196	182
40	HS-XF40-20	25	RC1-1/2	RC3/4	95	48	43	36	232	210	185
50	HS-XF50-25	31	RC1-1/2	RC1	122	61	51	46	300	278	255
65	HS-XF65-32	40	RC2	RC1-1/4	156	78	62	50	350	325	295
80	HS-XF80-40	46	RC2-1/2	RC1-1/2	160	80	70	50	383	353	286
Size (mm)	Type	L4	L6	N	O	P	Q	R	S	T	U
15	HS-XF15-6	90	30	12	26	65	95	14	8	4	14
20	HS-XF20-8	95	30	16	32	75	105	14	8	4	14
25	HS-XF25-10	103	33	20	36	85	115	16	10	4	14
32	HS-XF32-15	128	42	30	46	100	140	18	10	4	18
40	HS-XF40-20	130	40	36	50	110	150	18	10	4	18
50	HS-XF50-25	182	60	48	60	125	165	20	14	4	18
65	HS-XF65-32	211	68	62	75	145	185	20	18	4	18
80	HS-XF80-40	231	90	75	90	160	200	20	12	8	18



Type: High Speed Rotary Joint
 Temperature: $\leq 100^{\circ}\text{C}$
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 1000\text{RPM}$
 Material: Medium: Water,Hydraulic Oil,Coolant,Vacuum,Air



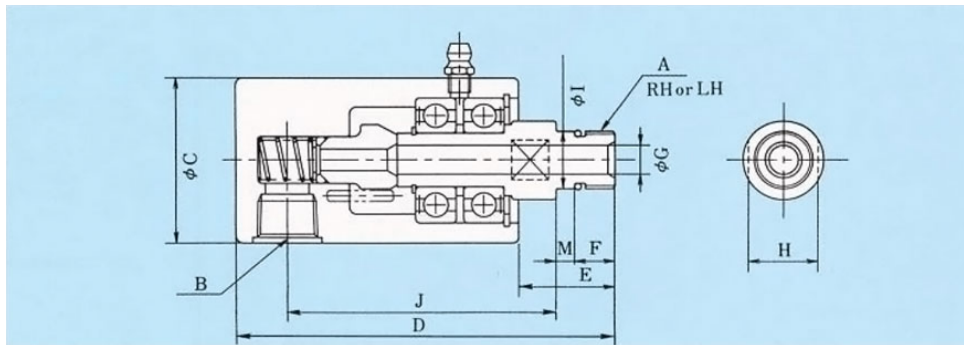
standard gasket	senior gasket	A	B	C	D	E	F	G	H	I	J	M
SXO-090	SXO-090-1	M16X1.5	NPT3/8	46	103	26	11	8	19	16.025	73	5
SXO-091	SXO-091-1	M16X1.5	Rc1/4	46	103	26	11	8	19	16.025	73	5
SXO-091-2	SXO-091-3	M16X1.5	Rc3/8	46	103	26	11	8	19	16.025	73	5
SXO-092	SXO-092-1	5/8-18UNF	NPT3/8	46	100	23	10.3	8	19	15.872	73.3	2.4
SXO-098	SXO-098-1	5/8-18UNF	NPT3/8	46	106.4	29.4	14.3	6.5	19	16.65	73.3	4.8



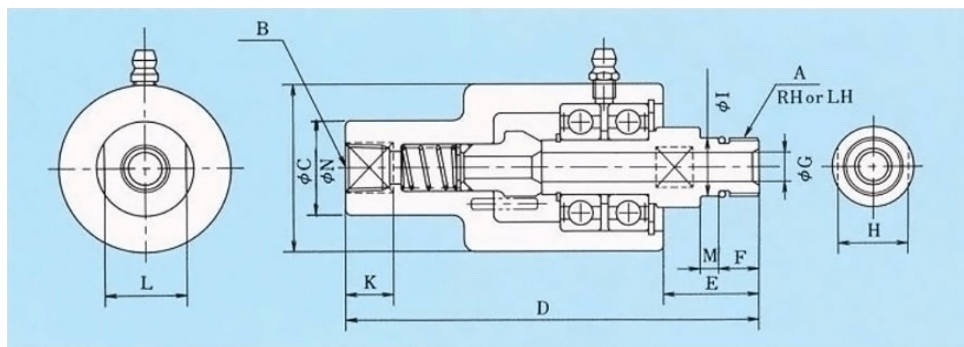
standard gasket	senior gasket	A	B	C	D	E	F	G	H	I	K	J	M	N
SXO-180	SXO-180-1	M16X1.5	NPT1/4	46	112.0	26.0	11.0	8.0	19	16.025	13	22	5.0	26
SXO-180-2	SXO-180-3	M16X1.5	NPT3/8	46	112.0	26.0	11.0	8.0	19	16.025	13	27	5.0	31
SXO-181	SXO-181-1	M16X1.5	Rc1/4	46	112.0	26.0	11.0	8.0	19	16.025	13	22	5.0	26
SXO-181-2	SXO-181-3	M16X1.5	Rc3/8	46	112.0	26.0	11.0	8.0	19	16.025	13	27	5.0	31
SXO-182	SXO-182-1	5/8-18UNF	NPT1/4	46	109.0	23.0	10.3	8.0	19	15.870	13	22	2.4	26
SXO-188	SXO-188-1	5/8-18UNF	NPT1/4	46	115.4	29.4	14.3	6.5	19	16.650	13	22	4.8	26



Type: High Speed Rotary Joint
 Temperature: $\leq 100^{\circ}\text{C}$
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 1000\text{RPM}$
 Material: Medium: Water,Hydraulic
 Oil,Coolant,Vacuum,Air



standard gasket	senior gasket	A	B	C	D	E	F	G	H	I	J	M
SXO-090	SXO-090-1	M16X1.5	NPT3/8	46	103	26	11	8	19	16.025	73	5
SXO-091	SXO-091-1	M16X1.5	Rc1/4	46	103	26	11	8	19	16.025	73	5
SXO-091-2	SXO-091-3	M16X1.5	Rc3/8	46	103	26	11	8	19	16.025	73	5
SXO-092	SXO-092-1	5/8-18UNF	NPT3/8	46	100	23	10.3	8	19	15.872	73.3	2.4
SXO-098	SXO-098-1	5/8-18UNF	NPT3/8	46	106.4	29.4	14.3	6.5	19	16.65	73.3	4.8



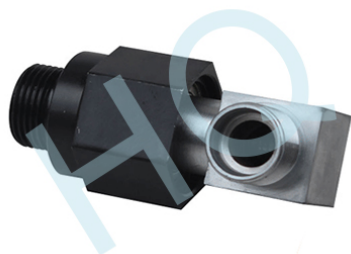
standard gasket	senior gasket	A	B	C	D	E	F	G	H	I	K	J	M	N
SXO-180	SXO-180-1	M16X1.5	NPT1/4	46	112	26	11	8	19	16.025	13	22	5	26
SXO-180-2	SXO-180-3	M16X1.5	NPT3/8	46	112	26	11	8	19	16.025	13	27	5	31
SXO-181	SXO-181-1	M16X1.5	Rc1/4	46	112	26	11	8	19	16.025	13	22	5	26
SXO-181-2	SXO-181-3	M16X1.5	Rc3/8	46	112	26	11	8	19	16.025	13	27	5	31
SXO-182	SXO-182-1	5/8-18UNF	NPT1/4	46	109	23	10.3	8	19	15.872	13	22	2.4	26
SXO-188	SXO-188-1	5/8-18UNF	NPT1/4	46	115.4	29.4	14.3	6.5	19	16.65	13	22	4.8	26



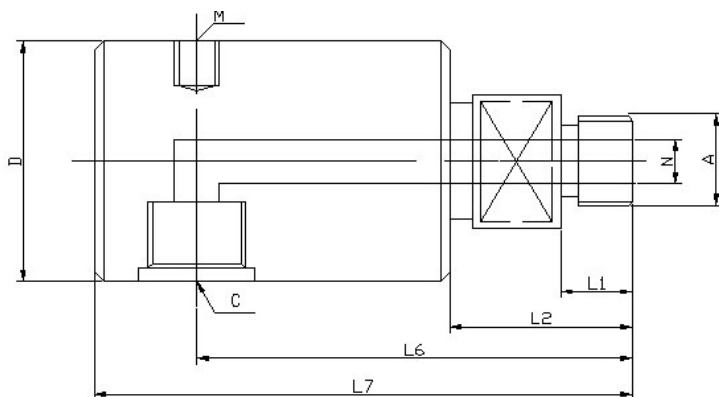
<http://www.hqseal.com>



hq@hqseal.com



Type: High Pressure Rotary Joint
 Temperature: $\leq 200^{\circ}\text{C}$
 Pressure: $\leq 35\text{MPa}$
 Speed: $\leq 200\text{RPM}$



Size (mm)	Type	A	C	N	D	L1	L2	L4	L6	L7
8	GYDND8A	G1/4	G1/4	5	54	8	12	32	89	112
10	GYDND10A	G3/8	G3/8	8	54	10	14	34	91	114
15	GYDND15A	G1/2	G1/2	10	54	12	16	41	98	121
20	GYDND20A	G3/4	G3/4	14	58	14	18	40	108	135
25	GYDND25A	G1	G1	18	68	18	22	47	124	152
32	GYDND32A	G1-1/4	G1-1/4	28	88	24	28	58	142	180
40	GYDND40A	G1-1/2	G1-1/2	32	88	30	35	65	154	192
50	GYDND50A	G2	G2	45	116	30	35	65	166	209



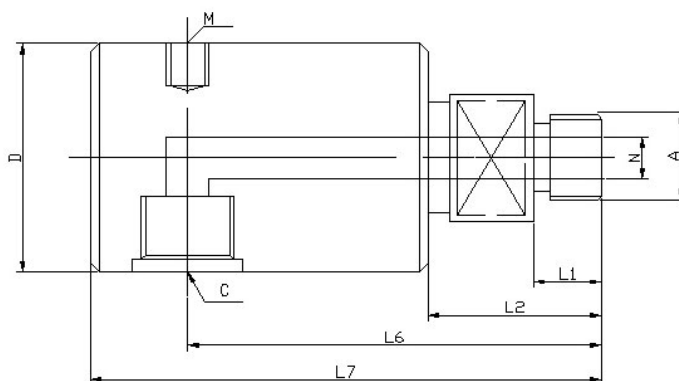
<http://www.hqseal.com>



hq@hqseal.com



Type: High Pressure Rotary Joint
 Temperature: $\leq 200^{\circ}\text{C}$
 Pressure: $\leq 35\text{MPa}$
 Speed: $\leq 200\text{RPM}$



Size (mm)	Type	A	C	N	D	L1	L2	L4	L6	L7
8	GYDND8A	G1/4	G1/4	5	54	8	12	32	89	112
10	GYDND10A	G3/8	G3/8	8	54	10	14	34	91	114
15	GYDND15A	G1/2	G1/2	10	54	12	16	41	98	121
20	GYDND20A	G3/4	G3/4	14	58	14	18	40	108	135
25	GYDND25A	G1	G1	18	68	18	22	47	124	152
32	GYDND32A	G1-1/4	G1-1/4	28	88	24	28	58	142	180
40	GYDND40A	G1-1/2	G1-1/2	32	88	30	35	65	154	192
50	GYDND50A	G2	G2	45	116	30	35	65	166	209



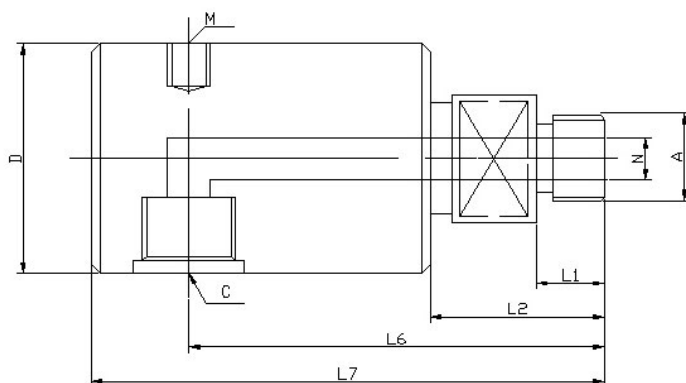
<http://www.hqseal.com>



hq@hqseal.com



Type: High Pressure Rotary Joint
 Temperature: $\leq 200^{\circ}\text{C}$
 Pressure: $\leq 35\text{MPa}$
 Speed: $\leq 200\text{RPM}$



Size (mm)	Type	A	C	N	D	L1	L2	L4	L6	L7
8	GYDND8A	G1/4	G1/4	5	54	8	12	32	89	112
10	GYDND10A	G3/8	G3/8	8	54	10	14	34	91	114
15	GYDND15A	G1/2	G1/2	10	54	12	16	41	98	121
20	GYDND20A	G3/4	G3/4	14	58	14	18	40	108	135
25	GYDND25A	G1	G1	18	68	18	22	47	124	152
32	GYDND32A	G1-1/4	G1-1/4	28	88	24	28	58	142	180
40	GYDND40A	G1-1/2	G1-1/2	32	88	30	35	65	154	192
50	GYDND50A	G2	G2	45	116	30	35	65	166	209



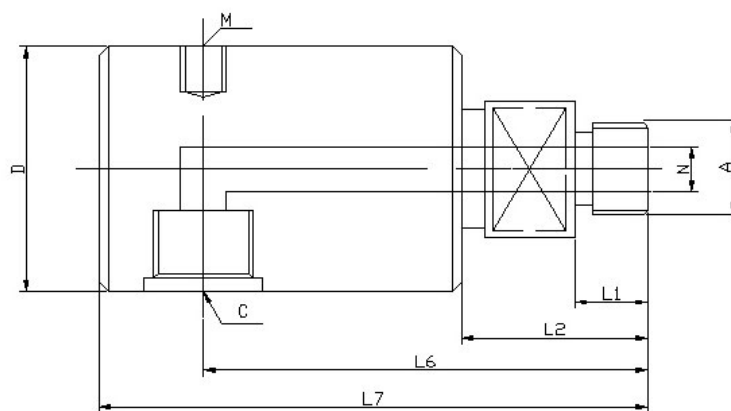
<http://www.hqseal.com>



hq@hqseal.com



Type: High Pressure Stainless Rotary Joint
 Temperature: $\leq 120^{\circ}\text{C}$
 Pressure: $\leq 30\text{MPa}$
 Speed: $\leq 100\text{r/min}$



Size (mm)	Type	A	C	N	D	L1	L2	L4	L6	L7
8	GYDND8A	G1/4	G1/4	5	54	8	12	32	89	112
10	GYDND10A	G3/8	G3/8	8	54	10	14	34	91	114
15	GYDND15A	G1/2	G1/2	10	54	12	16	41	98	121
20	GYDND20A	G3/4	G3/4	14	58	14	18	40	108	135
25	GYDND25A	G1	G1	18	68	18	22	47	124	152
32	GYDND32A	G1-1/4	G1-1/4	28	88	24	28	58	142	180
40	GYDND40A	G1-1/2	G1-1/2	32	88	30	35	65	154	192
50	GYDND50A	G2	G2	45	116	30	35	65	166	209



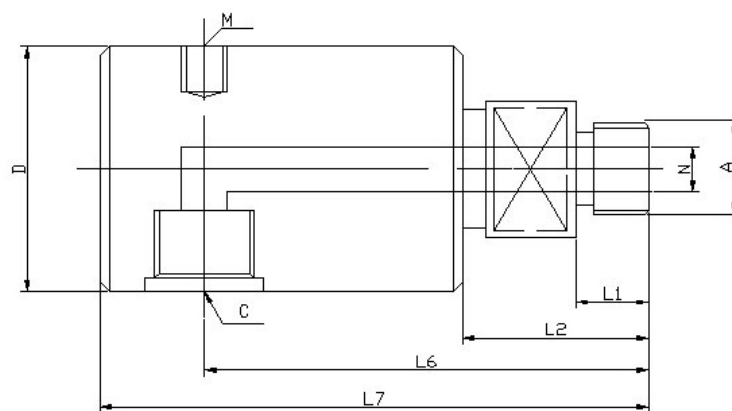
<http://www.hqseal.com>



hq@hqseal.com



Type: High Pressure Stainless Rotary Joint
 Temperature: $\leq 120^{\circ}\text{C}$
 Pressure: $\leq 30\text{MPa}$
 Speed: $\leq 100\text{r/min}$



Size (mm)	Type	A	C	N	D	L1	L2	L4	L6	L7
8	GYDND8A	G1/4	G1/4	5	54	8	12	32	89	112
10	GYDND10A	G3/8	G3/8	8	54	10	14	34	91	114
15	GYDND15A	G1/2	G1/2	10	54	12	16	41	98	121
20	GYDND20A	G3/4	G3/4	14	58	14	18	40	108	135
25	GYDND25A	G1	G1	18	68	18	22	47	124	152
32	GYDND32A	G1-1/4	G1-1/4	28	88	24	28	58	142	180
40	GYDND40A	G1-1/2	G1-1/2	32	88	30	35	65	154	192
50	GYDND50A	G2	G2	45	116	30	35	65	166	209



<http://www.hqseal.com>



hq@hqseal.com



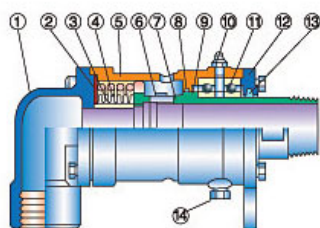
Type: DD Hot Water Rotary Joint

Temperature: $\leq 220^{\circ}\text{C}$

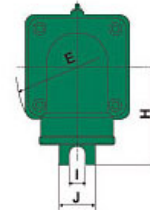
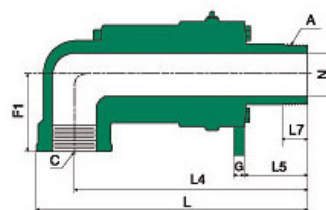
Pressure: $\leq 1.8\text{MPa}$

Speed: $\leq 500\text{RPM}$

Material: Ductile Iron



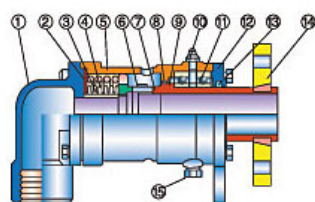
- 1. 弯通 2. 垫片
- 3. 保护套 4. 波纹补偿器
- 5. 壳体 6. 密封环
- 7. 定位套 8. 密封圈
- 9. 空心轴 10. 注油嘴
- 11. 轴承 12. 压盖
- 13. 防尘圈 14. 放油塞



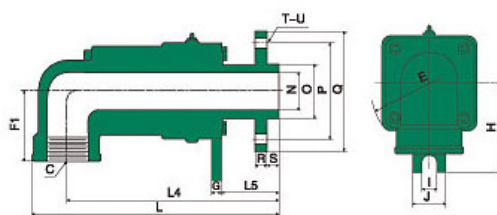
Size (mm)	Type	A	C	E	F1	G	H	I
10	DD-10	R3/8	RC3/8	79	40	8	55	14
15	DD-15	R1/2	RC1/2	79	40	8	55	14
20	DD-20	R3/4	RC3/4	89	45	10	65	18
25	DD-25	R1	RC1	110	55	10	70	14
32	DD-32	R1-1/4	RC1-1/4	119	78	11	82	18
40	DD-40	R1-1/2	RC1-1/2	125	83	10	92	20
50	DD-50	R2	RC2	167	88	10	95	18
65	DD-65	R2-1/2	RC2-1/2	186	110	14	120	20
80	DD-80	R3	RC3	207	115	16	130	24
100	DD-100	R4	RC4	277	120	20	160	28
Size (mm)	Type	J	L	L4	L5	L7	N	
10	DD-10	34	164	149	36	16	10	
15	DD-15	34	175	158	42	20	14	
20	DD-20	38	197	177	45	22	18	
25	DD-25	40	256	231	63	25	25	
32	DD-32	48	264	234	57.5	28	32	
40	DD-40	50	288	256	60	30	38	
50	DD-50	42	308	270	66	32	50	
65	DD-65	50	359	314	72	42	65	
80	DD-80	54	404	248	94	45	75	
100	DD-100	80	705	464	118	50	98	



Type: DD-F Hot Water Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 500\text{RPM}$
 Material: Ductile Iron



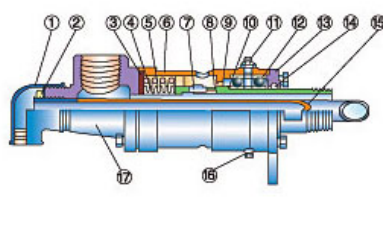
1. 弯通
2. 垫片
3. 保护套
4. 波纹补偿器
5. 壳体
6. 密封环
7. 定位套
8. 密封圈
9. 空心轴
10. 注油嘴
11. 轴承
12. 压盖
13. 防尘圈
14. 半分环法兰
15. 放油塞



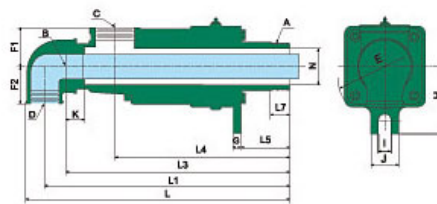
Size (mm)	Type	C	E	F1	G	H	I	J	L	L4
15	DD-F15	RC1/2	79	40	8	55	14	34	182	170
20	DD-F20	RC3/4	89	45	10	65	18	38	201	181
25	DD-F25	RC1	110	55	10	70	14	40	257	232
32	DD-F32	RC1-1/4	119	78	11	82	18	48	266	236
40	DD-F40	RC1-1/2	125	83	10	92	20	50	299	267
50	DD-F50	RC2	167	88	10	95	18	42	320	282
65	DD-F65	RC2-1/2	153	110	14	120	20	50	359	314
80	DD-F80	RC3	207	115	16	130	24	54	385	329
100	DD-F100	RC4	277	120	20	160	28	80	705	623
Size (mm)	Type	L5	N	O	P	Q	R	S	T	U
15	DD-F15	57	14	26	65	95	14	8	4	14
20	DD-F20	49	18	29	75	105	16	8	4	14
25	DD-F25	64	25	40	85	115	16	10	4	14
32	DD-F32	59.5	32	44	100	140	18	12	4	18
40	DD-F40	71	38	49	110	150	18	12	4	18
50	DD-F50	68	50	60	125	165	20	15	4	18
65	DD-F65	72	65	75	145	185	20	18	4	18
80	DD-F80	75	75	90	160	200	20	20	8	18
100	DD-F100	118	98	120	190	235	23	20	8	18



Type: DS-G Hot Water Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 500\text{RPM}$
 Material: Ductile Iron



1. 弯头
2. 锁紧螺母
3. 垫片
4. 保护套
5. 波纹补偿器
6. 壳体
7. 密封环
8. 定位套
9. 密封圈
10. 空心轴
11. 注油嘴
12. 轴承
13. 压盖
14. 防尘圈
15. 内管
16. 放油塞
17. 三通



Size (mm)	Type	A	B	C	D	E	F1	F2	G	H	I
15	DS-G15-6	R1/2	G1/8	RC3/8	RC1/2	79	29	25	8	55	14
20	DS-G20-8	R3/4	G1/4	RC1/2	RC1/2	89	34	30	10	65	18
25	DS-G25-10	R1	G3/8	RC3/4	RC1/2	110	42	33	10	70	14
32	DS-G32-15	R1-1/4	G1/2	RC1	RC1/2	119	44	38	11	82	18
40	DS-G40-20	R1-1/2	G3/4	RC1-1/4	RC3/4	125	46	43	10	92	20
50	DS-G50-25	R2	G1	RC1-1/2	RC1	167	54	51	10	95	18
65	DS-G65-32	R2-1/2	G1-1/4	RC2	RC1-1/4	186	70	62	14	120	20
80	DS-G80-50	R3	G1-1/2	RC2-1/2	RC2	207	75	72	16	130	24
Size (mm)	Type	J	K	L	L1	L3	L4	L5	L7	N	
15	DS-G15-6	34	15	217	204	191	156	42	20	14	
20	DS-G20-8	38	15	244	229	215	175	45	22	18	
25	DS-G25-10	40	28	303	288	273	223	63	25	25	
32	DS-G32-15	48	47	311	294	279	224	57.5	28	32	
40	DS-G40-20	50	48	353	335	316	253	60	30	38	
50	DS-G50-25	42	49	358	338	317	254	56	32	50	
65	DS-G65-32	50	69	422	394	369	295	72	42	65	
80	DS-G80-50	54	71	501	465	443	338	94	45	75	



Type: DS-GF Hot Water Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 500\text{RPM}$
 Material: Ductile Iron



Size (mm)	Type	B	C	D	E	F1	F2	G	H	I	J	K	L
15	DS-GF15-6	G1/8	RC3/8	RC1/2	79	29	25	8	55	14	34	15	222
20	DS-GF20-8	G1/4	RC1/2	RC1/2	89	34	30	10	65	18	38	15	248
25	DS-GF25-10	G3/8	RC3/4	RC1/2	110	42	33	10	70	14	40	28	304
32	DS-GF32-15	G1/2	RC1	RC1/2	119	44	38	11	82	18	48	47	311
40	DS-GF40-20	G3/4	RC1-1/4	RC3/4	125	46	43	10	92	20	50	48	364
50	DS-GF50-25	G1	RC1-1/2	RC1	167	54	51	10	95	18	42	49	370
65	DS-GF65-32	G1-1/4	RC2	RC1-1/4	186	70	62	14	120	20	50	69	422
80	DS-GF80-50	G2	RC2-1/2	RC2	207	75	72	16	130	24	54	71	483
Size (mm)	Type	L1	L3	L4	L5	N	O	P	Q	R	S	T	U
15	DS-GF15-6	209	196	161	47	14	26	65	95	14	8	4	14
20	DS-GF20-8	233	219	179	49	18	29	75	105	16	8	4	14
25	DS-GF25-10	289	274	224	64	25	40	85	115	16	10	4	14
32	DS-GF32-15	296	281	226	59.5	32	44	100	140	18	12	4	18
40	DS-GF40-20	346	327	264	71	38	49	110	150	18	12	4	18
50	DS-GF50-25	350	329	266	68	50	60	125	165	20	15	4	18
65	DS-GF65-32	394	369	295	72	65	75	145	185	20	18	4	18
80	DS-GF80-50	446	414	319	75	75	90	160	200	20	20	8	18



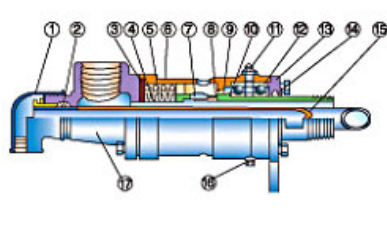
<http://www.hqseal.com>



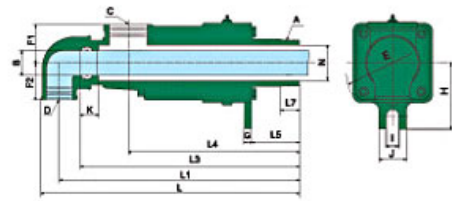
hq@hqseal.com



Type: DS-X Hot Water Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 500\text{RPM}$
 Material: Ductile Iron



1. 密头
2. 填料
3. 垫片
4. 保护层
5. 波纹补偿器
6. 壳体
7. 密封环
8. 定位套
9. 密封圈
10. 空心轴
11. 注油嘴
12. 轴承
13. 压盖
14. 防尘圈
15. 内管
16. 放油塞
17. 三通



Siz (mm)	Type	A	B	C	D	E	F1	F2	G	H	I
15	DS-X15-6	R1/2	10	RC3/8	RC1/2	79	29	25	8	55	14
20	DS-X20-8	R3/4	12	RC1/2	RC1/2	89	34	30	10	65	18
25	DS-X25-10	R1	16	RC3/4	RC1/2	110	42	33	10	70	14
32	DS-X32-15	R1-1/4	19	RC1	RC1/2	119	44	38	11	82	18
40	DS-X40-20	R1-1/2	25	RC1-1/4	RC3/4	125	46	43	10	92	20
50	DS-X50-25	R2	31	RC1-1/2	RC1	167	54	51	10	95	18
65	DS-X65-32	R2-1/2	40	RC2	RC1-1/4	186	70	62	14	120	20
80	DS-X80-40	R3	46	RC2-1/2	RC2	207	75	72	16	130	24
Size (mm)	Type	J	K	L	L1	L3	L4	L5	L7	N	
15	DS-X15-6	34	15	217	204	191	156	42	20	14	
20	DS-X20-8	38	15	244	229	215	175	45	22	18	
25	DS-X25-10	40	28	303	288	273	223	63	25	25	
32	DS-X32-15	48	47	311	294	279	224	57.5	28	32	
40	DS-X40-20	50	48	353	335	316	253	60	30	38	
50	DS-X50-25	42	49	358	338	317	254	56	32	50	
65	DS-X65-32	50	69	422	394	369	295	72	42	65	
80	DS-X80-40	54	71	501	465	443	338	94	45	75	



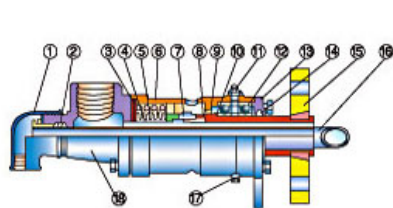
<http://www.hqseal.com>



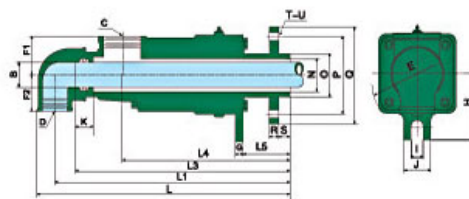
hq@hqseal.com



Type: DS-XF Hot Water Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 500\text{RPM}$
 Material: Ductile Iron



1. 弯头
2. 填料
3. 垫片
4. 保护套
5. 波纹补偿器
6. 壳体
7. 密封环
8. 定位套
9. 密封圈
10. 空心轴
11. 注油嘴
12. 轴承
13. 压盖
14. 防尘圈
15. 半环法兰
16. 内管
17. 放油塞
18. 三通



Size (mm)	Type	B	C	D	E	F1	F2	G	H	I	J	K	L
15	DS-XF15-6	10	RC3/8	RC1/2	79	29	25	8	55	14	34	15	222
20	DS-XF20-8	12	RC1/2	RC1/2	89	34	30	10	65	18	38	15	248
25	DS-XF25-10	16	RC3/4	RC1/2	110	42	33	10	70	14	40	28	304
32	DS-XF32-15	19	RC1	RC1/2	119	44	38	11	82	18	48	47	311
40	DS-XF40-20	25	RC1-1/4	RC3/4	125	46	43	10	92	20	50	48	364
50	DS-XF50-25	31	RC1-1/2	RC1	167	54	51	10	95	18	42	49	370
65	DS-XF65-32	40	RC2	RC1-1/4	186	70	62	14	120	20	50	69	422
80	DS-XF80-40	46	RC2-1/2	RC2	207	75	72	16	130	24	54	71	483
Size (mm)	Type	L1	L3	L4	L5	N	O	P	Q	R	S	T	U
15	DS-XF15-6	209	196	161	47	14	26	65	95	14	8	4	14
20	DS-XF20-8	233	219	179	49	18	29	75	105	16	8	4	14
25	DS-XF25-10	289	274	224	64	25	40	85	115	16	10	4	14
32	DS-XF32-15	296	281	226	59.5	32	44	100	140	18	12	4	18
40	DS-XF40-20	346	327	264	71	38	49	110	150	18	12	4	18
50	DS-XF50-25	350	329	266	68	50	60	125	165	20	15	4	18
65	DS-XF65-32	394	369	295	72	65	75	145	185	20	18	4	18
80	DS-XF80-40	446	414	319	75	75	90	160	200	20	20	8	18



<http://www.hqseal.com>

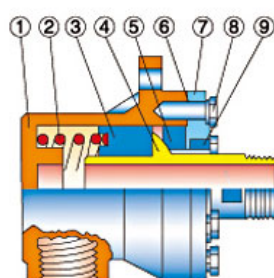


hq@hqseal.com

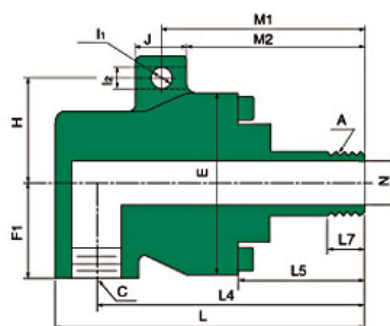
JQD(20-50)



Type: QD Type Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



- 1. 壳体
- 2. 弹簧
- 3. 无油轴承
- 4. 外管体
- 5. 球面密封环
- 6. 密封垫
- 7. 底盖
- 8. 螺栓
- 9. 前导向环



Size (mm)	Type	A	C	E	F1	H	I1	I2	J
20	QD20	R3/4	RC3/4	96	48	48	12	12	25
25	QD25	R1	R1	75	50	55	12	12	26
32	QD32	RC1-1/4	RC1-1/4	120	63	70	14	14	26
40	QD40	RC1-1/2	RC1-1/2	130	70	78	16	16	32
50	QD50	RC2	RC2	160	80	80	18	18	35
Size (mm)	Type	L	L4	L5	L7	M1	M2	N	
20	QD20	141	118	40	20	89	-	18	
25	QD25	180	165	47	22	-	95	25	
32	QD32	194	152	58	25	-	94	30	
40	QD40	220	187	69	30	-	125	38	
50	QD50	239	194	65	32	133	-	48	



<http://www.hqseal.com>

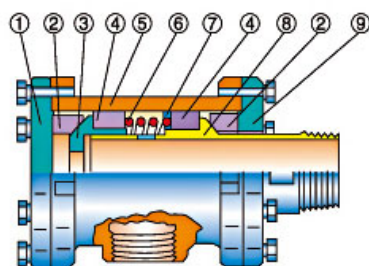


hq@hqseal.com

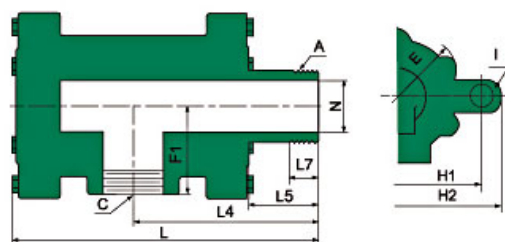
JQD(60-100)



Type: QD Type Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



- 1. 阀盖
- 2. 球面密封环
- 3. 弹簧座
- 4. 无油轴承
- 5. 壳体
- 6. 弹簧
- 7. 弹簧垫
- 8. 外管体
- 9. 底盖



Size (mm)	Type	A	C	E	F1	H1	H2
65	QD-65	R2-1/2	RC2-1/2	190	85	220	270
80	QD-80	R3	RC3	230	110	300	355
100	QD-100	R4	RC4	261	120	300	354
Size (mm)	Type	I	L	L4	L5	L7	N
65	QD-65	20	318	195	80	40	64
80	QD-80	26	367	220	85	45	75
100	QD-100	26	367	265	87	45	97



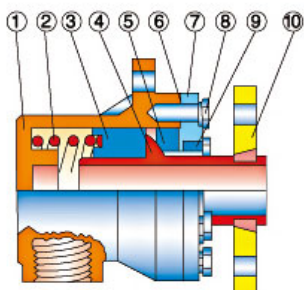
<http://www.hqseal.com>



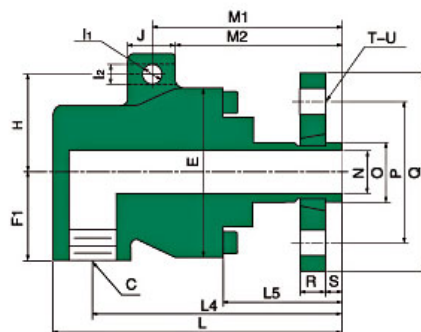
hq@hqseal.com



Type: QD-F Type Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



- | | |
|----------|-----------|
| 1. 壳体 | 2. 弹簧 |
| 3. 无油轴承 | 4. 外管体 |
| 5. 球面密封环 | 6. 密封垫 |
| 7. 底盖 | 8. 螺栓 |
| 9. 前导向环 | 10. 半分环法兰 |



Size (mm)	Type	C	E	F1	H	I1	I2	J	L	L4	L5
20	QD-F20	RC3/4	96	48	48	12	12	25	156	133	55
25	QD-F25	R1	75	50	55	12	12	26	180	165	47
32	QD-F32	RC1-1/4	120	63	70	14	14	26	198	156	62
40	QD-F40	RC1-1/2	130	70	78	16	16	32	220	187	69
50	QD-F50	RC2	160	80	80	18	18	35	244	199	70
Size (mm)	Type	M1	M2	N	O	P	Q	R	S	T	U
20	QD-F20	104		18	27	5	105	16	8	4	14
25	QD-F25		95	25	33.5	85	115	16	8	4	14
32	QD-F32		98	30	42	100	140	18	12	4	18
40	QD-F40		125	38	48	110	150	18	12	4	18
50	QD-F50	138		48	60	125	165	20	15	4	18



<http://www.hqseal.com>

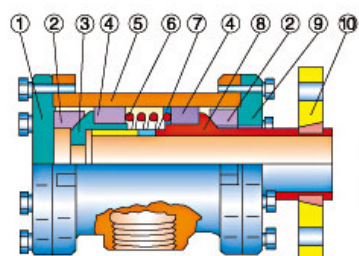


hq@hqseal.com

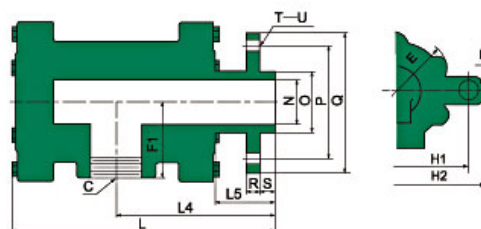
JQD-F(60-100)



Type: QD-F Type Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



- 1. 闷盖
- 2. 球面密封环
- 3. 弹簧座
- 4. 无油轴承
- 5. 壳体
- 6. 弹簧
- 7. 弹簧垫
- 8. 外管体
- 9. 底盖
- 10. 半分环法兰



Size (mm)	Type	C	E	F1	H1	H2	I	L	L4	L5
65	QD-F65	RC2-1/2	190	85	220	290	20	328	205	90
80	QD-F80	R3	230	110	300	355	26	379	232	97
100	QD-F100	RC4	261	120	300	354	26	365	267	90
Size (mm)	Type	N	O	P	Q	R	S	T	U	
65	QD-F65	64	5	145	185	20	18	4	18	
80	QD-F80	75	90	160	200	20	20	8	18	
100	QD-F100	97	112	180	220	22	22	8	18	



<http://www.hqseal.com>

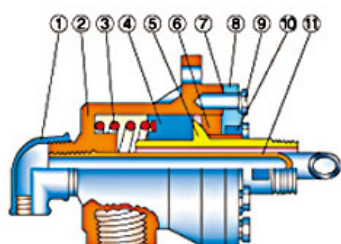


hq@hqseal.com

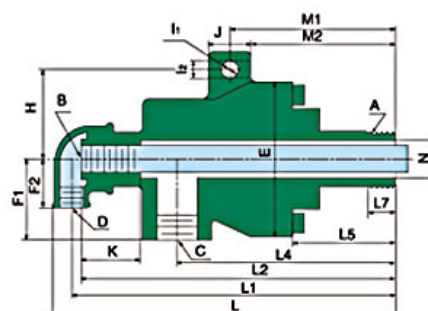
JQS-G(20-50)



Type: QS-G Type Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



1. 接头 2. 壳体
3. 弹簧 4. 无油轴承
5. 外管体 6. 球面密封环
7. 密封垫 8. 底座
9. 螺栓 10. 前导向环
11. 内管



Size (mm)	Type	A	B	C	E	F1	F2	H	I1	I2	J
20	QS-G20-8	RC3/4	G1/4	RC3/4	96	48	30	58	12	-	30
25	QS-G25-10	R1	G3/4	RC3/4	75	35	40	54	-	11	25
32	QS-G32-15	RC1-1/4	G1/3	RC1	120	63	38	70	-	14	34
40	QS-G40-20	RC1-1/2	G3/4	RC1-1/4	130	70	43	78	-	16	32
50	QS-G50-25	RC2	G1	RC1-1/2	160	85	51	95	18		40
Size (mm)	Type	K	L	L1	L2	L4	L5	L7	M1	M2	N
20	QS-G20-8	35	199	180	166	117	39	20	80	66	18
25	QS-G25-10	35	239	225	215	155	48	22	105	93	25
32	QS-G32-15	47	256	235	219	155	59	25	112	95	30
40	QS-G40-20	45	298	273	254	187	69	30	133	117	38
50	QS-G50-25	36	318	291	270	186	64	32	124	104	48



<http://www.hqseal.com>

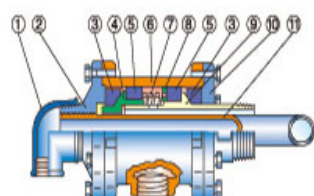


hq@hqseal.com

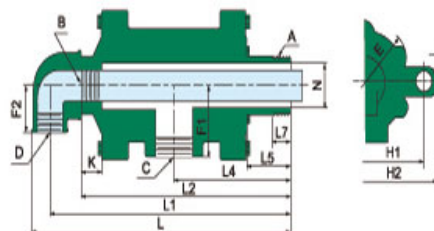
JQS-G(60-100)



Type: QS-G Type Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



1. 弯头
2. 球盖
3. 球面密封环
4. 弹簧座
5. 无油轴承
6. 壳体
7. 弹簧
8. 弹簧垫
9. 外管体
10. 底盖
11. 内管



Size (mm)	Type	A	B	C	D	E	F1	F2	H1	H2
65	QS-G65-32	R2-1/2	G1-1/4	RC2	RC1-1/4	190	85	62	220	270
80	QS-G80-40	R3	G1-1/2	RC2-1/2	RC2	230	110	72	300	355
100	QS-G100-65	RC4	G1-1/1	RC2-1/2	RC2-1/2	261	120	90	300	354
Size (mm)	Type	I	K	L	L1	L2	L4	L5	L7	N
65	QS-G65-32	20	40	402	376	354	195	80	40	64
80	QS-G80-40	26	40	476	441	441	220	85	45	75
100	QS-G100-65	26	30	510	467	429	265	87	45	98



<http://www.hqseal.com>

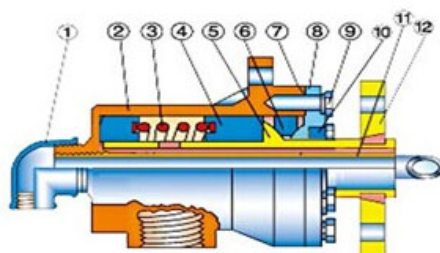


hq@hqseal.com

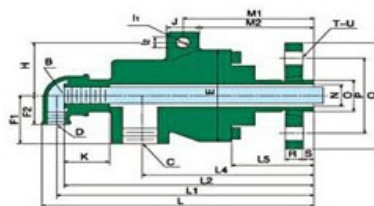
JQS-GF(20-50)



Type: QS-GF Type Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



1. 管头 2. 壳体
 3. 螺栓 4. 无油轴承
 5. 外套体 6. 球面密封环
 7. 密封垫 8. 底座
 9. 螺栓 10. 前导内环
 11. 内管 12. 半环法兰



Size (mm)	Type	B	C	D	E	F1	F2	H	I1	I2	J	K	L	L1
20	QS-GF20	G1/4	RC3/4	RC1/2	96	48	30	48	12	12	25	35	210	195
25	QS-GF25	G3/8	R3/4	RC1/2	75	50	40	55	12	12	26	35	240	225
32	QS-GF32	G1/2	RC1	RC1/2	120	63	38	70	14	14	26	47	254	239
40	QS-GF40	G3/4	RC1-1/4	RC3/4	130	70	43	78	16	16	32	45	291	273
50	QS-GF50	G1	RC1-1/2	RC1	160	80	51	80	18	18	35	36	315	295
Size (mm)	Type	L2	L4	L5	M1	M2	N	O	P	Q	R	S	T	U
20	QS-GF20	171	133	55	104	-	18	27	75	105	16	8	4	14
25	QS-GF25	215	165	47	-	95	25	33.5	85	115	16	8	4	14
32	QS-GF32	223	156	62	-	98	30	42	100	140	18	12	4	18
40	QS-GF40	254	187	69	-	125	38	48	110	150	18	12	4	18
50	QS-GF50	274	199	70	138		48	60	125	165	20	15	4	18



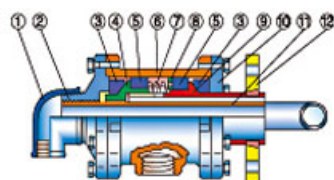
<http://www.hqseal.com>



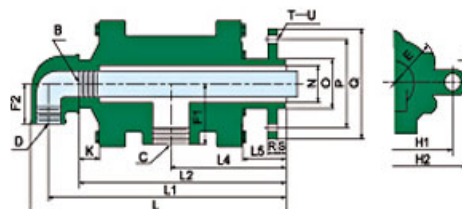
hq@hqseal.com



Type: QS-GF Type Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



- | | |
|----------|----------|
| 1. 密封头 | 2. 端盖 |
| 3. 球面密封环 | 4. 弹簧座 |
| 5. 无油轴承 | 6. 壳体 |
| 7. 弹簧 | 8. 弹簧垫 |
| 9. 外管体 | 10. 底盖 |
| 11. 内管 | 12. 半环法兰 |



Size (mm)	Type	B	C	D	E	F1	F2	H1	H2	I	K	L	L1
65	QS-GF65-32	40	RC2	RC1-1/4	190	85	62	220	270	20	40	412	386
80	QS-GF80-40	46	RC2-1/2	RC1-1/2	230	110	72	300	355	26	40	488	453
100	QS-GF100-65	73	RC2-1/2	RC2-1/2	261	120	90	300	354	26	30	512	469
Size (mm)	Type	L2	L4	L5	N	O	P	Q	R	S	T	U	
65	QS-GF65-32	364	205	90	64	5	145	185	20	18	4	18	
80	QS-GF80-40	423	232	97	75	90	160	200	20	20	8	18	
100	QS-GF100-65	431	267	90	97	112	180	220	22	22	8	18	



<http://www.hqseal.com>

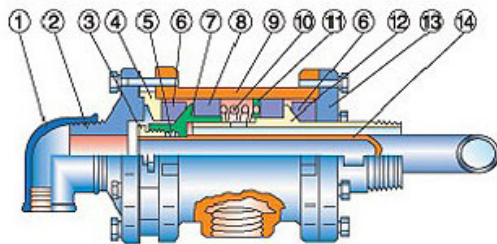


hq@hqseal.com

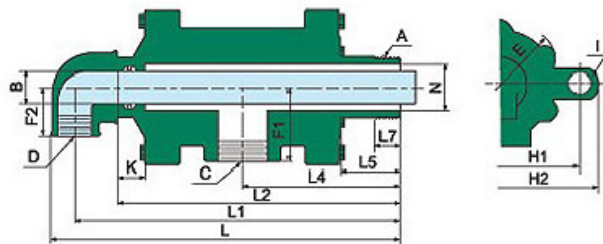
JQS-X(20-50)



Type: QS-X Steam Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



1. 管头 2. 端盖 3. 球面密封环 4. 中盖 5. 密封填料
 6. 球面密封环 7. 弹簧座 8. 无油轴承 9. 壳体 10. 弹簧
 11. 弹簧垫 12. 外管体 13. 底盖 14. 内管



Size (mm)	Type	A	B	C	D	E	F1	F2	H	I1	I2	J
20	QS-X20-8	RC3/4	G1/4	RC3/4	RC1/2	96	48	30	48	12	-	-
25	QS-X25-10	R1	G3/8	RC1	RC1/2	75	52	32	55	-	10	17
32	QS-X32-15	RC1-1/4	G1/2	RC1	RC1/2	120	63	38	70	-	14	16
40	QS-X40-20	RC1-1/2	G3/4	RC1-1/4	RC3/4	130	70	43	78	-	16	22
50	QS-X50-25	RC2	G1	RC1-1/2	RC1	160	80	51	80	18	-	-
Size (mm)	Type	K	L	L1	L2	L4	L5	L7	M1	M2	N	
20	QS-X20-8	35	195	180	166	118	40	20	89	-	18	
25	QS-X25-10	40	222	208	215	140	50	23	-	87	23	
32	QS-X32-15	47	250	235	219	152	58	25	-	94	30	
40	QS-X40-20	45	291	273	254	187	69	30	-	125	38	
50	QS-X50-25	36	311	291	270	194	65	32	133	-	48	



<http://www.hqseal.com>

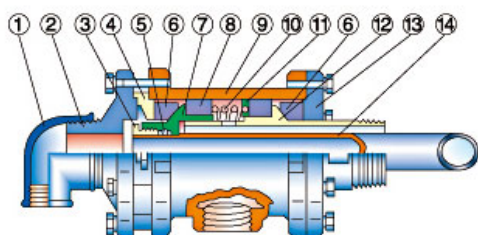


hq@hqseal.com

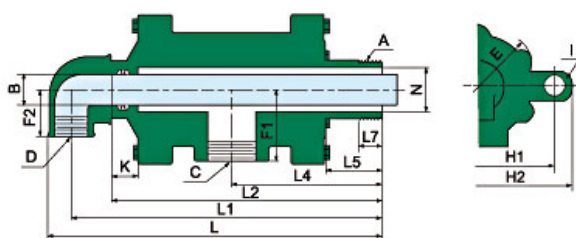
JQS-X(50-100)



Type: QS-X Steam Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



1. 弯头 2. 端盖 3. 球面密封环 4. 中盖 5. 密封填料
 6. 球面密封环 7. 弹簧座 8. 无油轴承 9. 壳体 10. 弹簧
 11. 弹簧垫 12. 外管体 13. 底盖 14. 内管



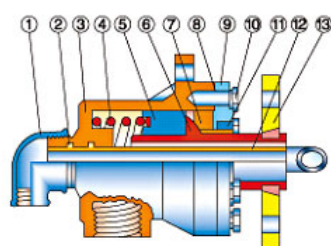
Size (mm)	Type	A	B	C	D	E	F1	F2	H1	H2
65	QS-X65-32	R2-1/2	40	RC2	RC1-1/4	190	85	62	220	270
80	QS-X80-40	R3	46	RC2-1/2	RC2	230	110	72	300	355
100	QS-X100-65	R4	73	RC2-1/2	RC2-1/2	261	120	90	300	354
Size (mm)	Type	I	K	L	L1	L2	L4	L5	N	
65	QS-X65-32	20	55	454	426	313	198	80	64	
80	QS-X80-40	26	64	553	507	376	233	90	75	
100	QS-X100-65	26	56	559	513	366	273	90	97	



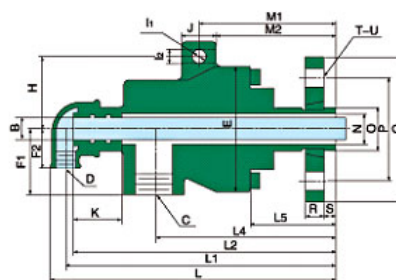
JQS-XF(20-50)



Type: QS-XF Type Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



1. 弯头
2. 密封圈
3. 壳体
4. 弹簧
5. 无油轴承
6. 外管体
7. 球面密封环
8. 密封垫
9. 底座
10. 螺栓
11. 前导向环
12. 内管
13. 半分环法兰



Size (mm)	Type	A	B	C	D	E	F1	F2	H	I1	I2	J
20	QS-XF20-8	RC3/4	12	RC3/4	RC1/2	96	48	30	48	12	12	25
25	QS-XF25-10	R1	16	RC1	RC1/2	75	40	40	55	12	12	26
32	QS-XF32-15	RC1-1/4	20	RC1-1/4	RC1/2	120	63	38	70	14	14	26
40	QS-XF40-20	RC1-1/2	25	RC1-1/2	RC3/4	130	70	43	78	14	14	32
50	QS-XF50-25	RC2	31	RC2	RC1	160	80	51	80	18	18	35
Size (mm)	Type	K	L	L1	L2	L4	L5	L7	M1	M2	N	
20	QS-X20-8	35	195	180	166	118	40	20	89	-	18	-
25	QS-X25-10	35	240	225	215	165	47	22	-	95	25	-
32	QS-X32-15	47	250	235	219	152	58	25	-	94	30	-
40	QS-X40-20	45	291	273	254	187	69	30	-	125	38	-
50	QS-X50-25	36	311	291	270	194	65	32	133	-	48	-



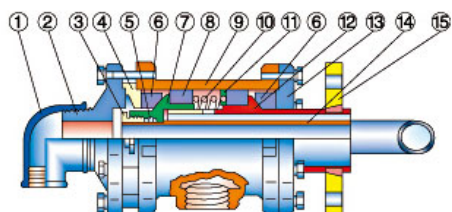
<http://www.hqseal.com>



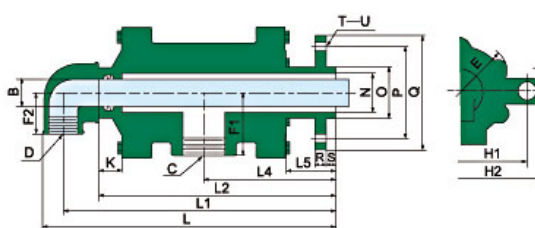
hq@hqseal.com



Type: QS-XF Type Rotary Joint
 Temperature: $\leq 220^{\circ}\text{C}$
 Pressure: $\leq 1.8\text{MPa}$
 Speed: $\leq 100\text{RPM}$
 Material: Ductile Iron



1. 弯头 2. 端盖 3. 球面密封环 4. 中盖 5. 密封填料
 6. 球面密封环 7. 弹簧座 8. 无油轴承 9. 壳体 10. 弹簧
 11. 弹簧垫 12. 外管体 13. 底盖 14. 内管 15. 半分环法兰



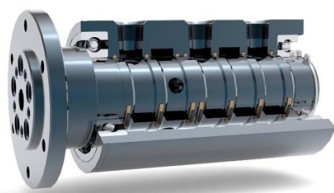
Size (mm)	Type	B	C	D	E	F1	F2	H1	H2	I	K	L	L1
65	QS-XF65-32	40	RC2	RC1-1/4	190	85	62	220	270	20	40	412	386
80	QS-XF80-40	46	RC2-1/2	RC2	230	110	72	300	355	26	40	488	453
100	QS-XF100-65	73	RC2-1/2	RC2-1/2	261	120	90	300	354	26	30	512	469
Size (mm)	Type	L2	L4	L5	N	O	P	Q	R	S	T	U	
65	QS-XF65-32	364	205	90	64	78	145	185	20	18	4	18	
80	QS-XF80-40	423	232	97	75	90	160	200	20	20	8	18	
100	QS-XF100-65	431	267	90	98	112	180	220	22	22	8	18	



<http://www.hqseal.com>



hq@hqseal.com



Type 0 ring seal

Thread seal



Type: 2 Passage Rotary Joint

Temperature: 220°C

Pressure: 35Mpa

Speed: 2m/s

Material: Medium: Water,Hydraulic Oil,Coolant,Vacuum,Air

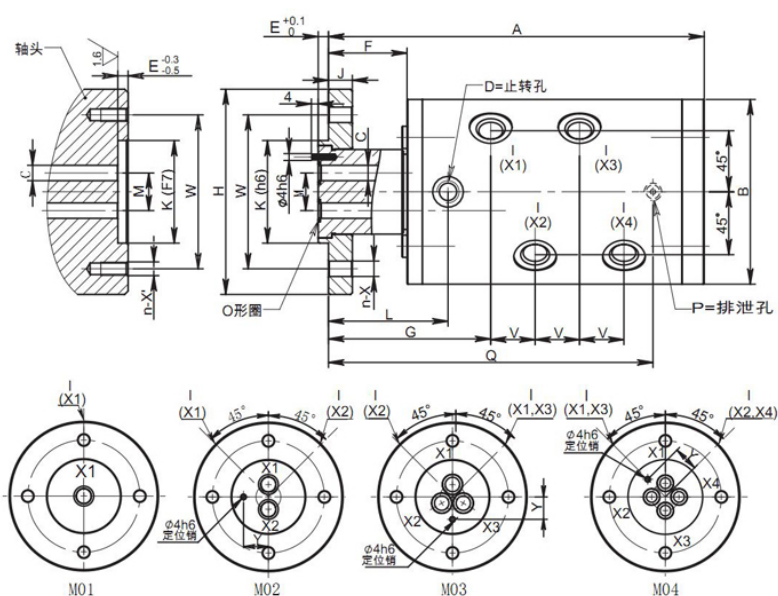
Type: 3 Passage Rotary Joint

Temperature: 220°C

Pressure: 35Mpa

Speed: 2m/s

Material: Medium: Water,Hydraulic Oil,Coolant,Vacuum,Air



JMP-04

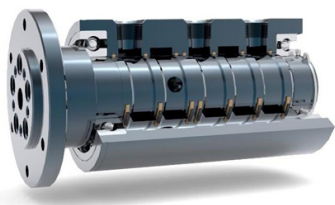


Type: 4 Passage Rotary Joint
 Temperature: 220°C
 Pressure: 35Mpa
 Speed: 2m/s
 Material: Medium: Water,Hydraulic
 Oil,Coolant,Vacuum,Air

JMP-05

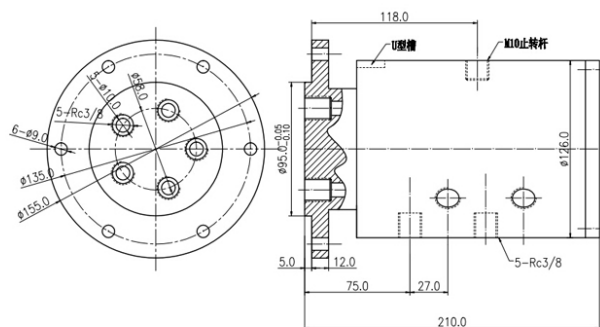
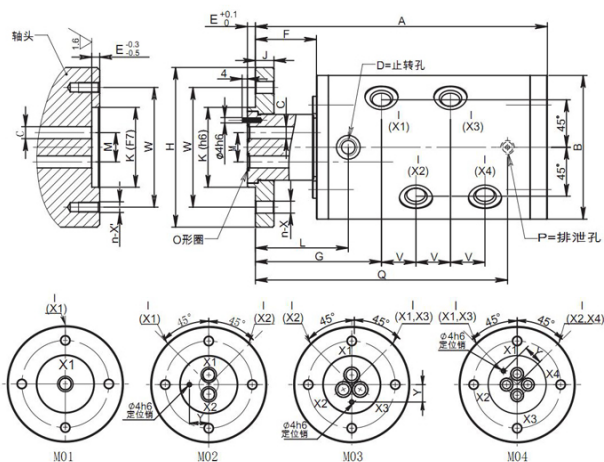


Type: 5 Passage Rotary Joint
 Temperature: 220°C
 Pressure: 35Mpa
 Speed: 2m/s
 Material: Medium: Water,Hydraulic
 Oil,Coolant,Vacuum,Air



Type O ring seal

Thread seal



<http://www.hqseal.com>



hq@hqseal.com

JMP-06

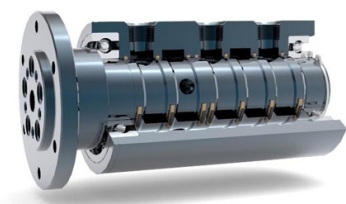


Type: 6 Passage Rotary Joint
 Temperature: 220°C
 Pressure: 35Mpa
 Speed: 2m/s
 Material: Medium: Water,Hydraulic
 Oil,Coolant,Vacuum,Air

JMP-07

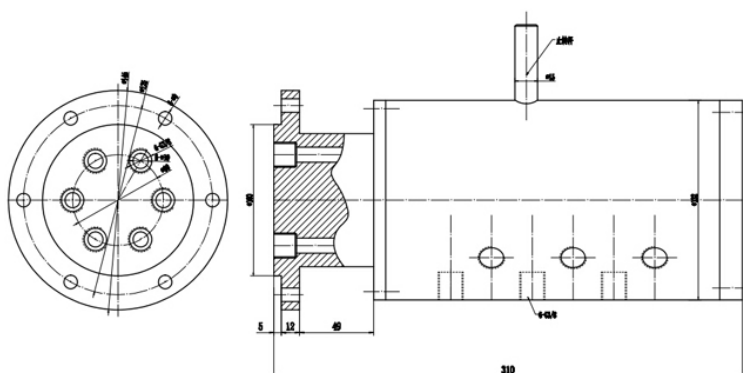


Type: 7 Passage Rotary Joint
 Temperature: 220°C
 Pressure: 35Mpa
 Speed: 2m/s
 Material: Medium: Water,Hydraulic
 Oil,Coolant,Vacuum,Air



Type 0 ring seal

Thread seal



<http://www.hqseal.com>



hq@hqseal.com

JMP-08

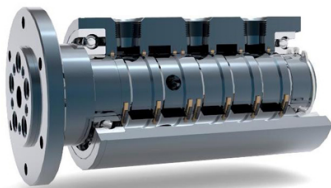


Type: 8 Passage Rotary Joint
 Temperature: 220°C
 Pressure: 35Mpa
 Speed: 2m/s
 Material: Medium: Water,Hydraulic
 Oil,Coolant,Vacuum,Air

JMP-12

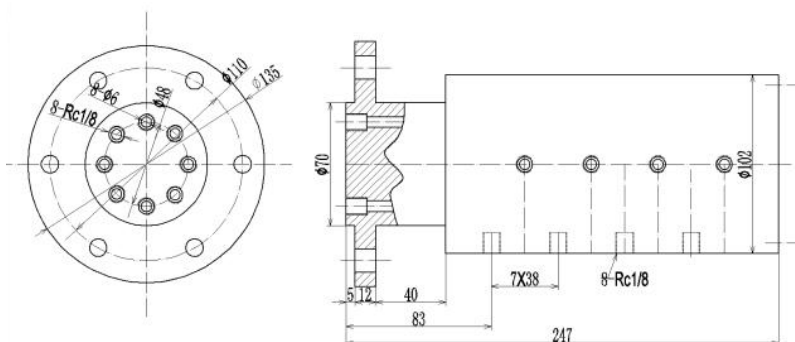


Type: 12 Passage Rotary Joint
 Temperature: 220°C
 Pressure: 35Mpa
 Speed: 2m/s
 Material: Medium: Water,Hydraulic
 Oil,Coolant,Vacuum,Air



Type O ring seal

Thread seal



<http://www.hqseal.com>



hq@hqseal.com

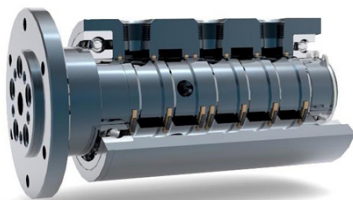
JHD-02

JHD-03



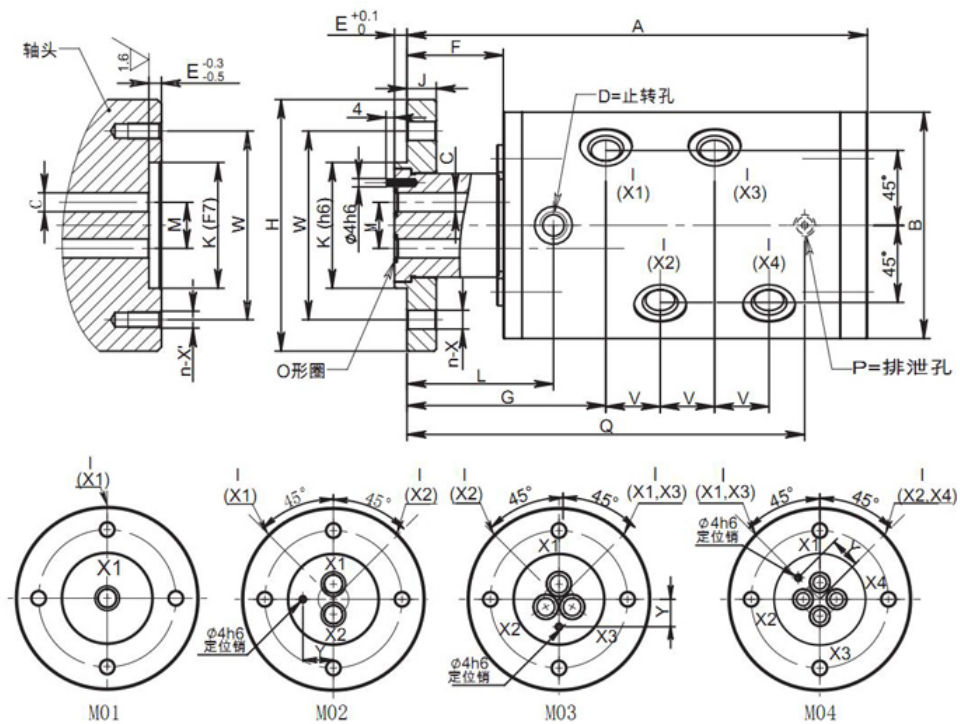
Type: 2 Passage Hydraulic Rotary Joint
 Temperature: 220°C
 Pressure: 35Mpa
 Speed: 2m/s

Type: 3 Passage Hydraulic Rotary Joint
 Temperature: 200°C
 Pressure: 35Mpa
 Speed: 2m/s



Type O ring seal

Thread seal



<http://www.hqseal.com>



hq@hqseal.com

JHD-04

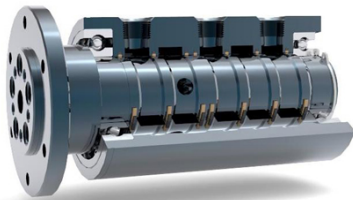
JHD-05



Type: 4 Passage Hydraulic Rotary Joint
 Temperature: 220°C
 Pressure: 35Mpa
 Speed: 2m/s

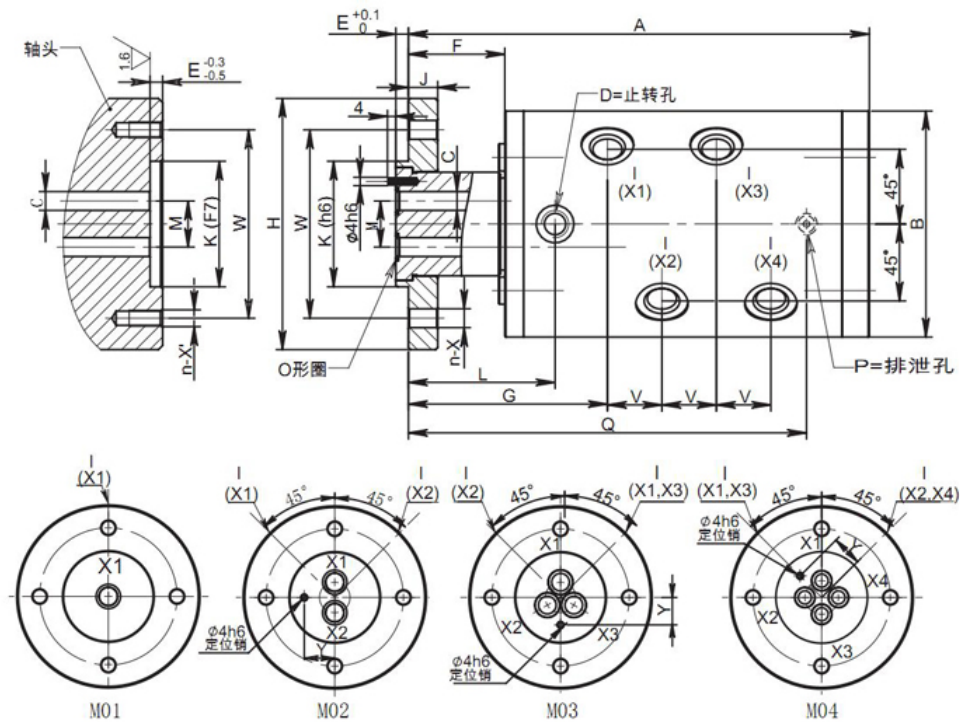


Type: 5 Passage Hydraulic Rotary Joint
 Temperature: 220°C
 Pressure: 35Mpa
 Speed: 2m/s



Type O ring seal

Thread seal



<http://www.hqseal.com>



hq@hqseal.com



Type: 6 Passage Hydraulic Rotary Joint

Temperature: 220°C

Pressure: 35Mpa

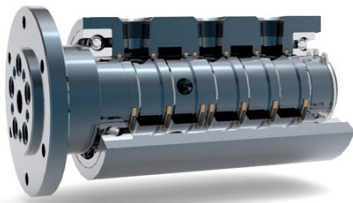
Speed: 2m/s

Type: 7 Passage Hydraulic Rotary Joint

Temperature: 220°C

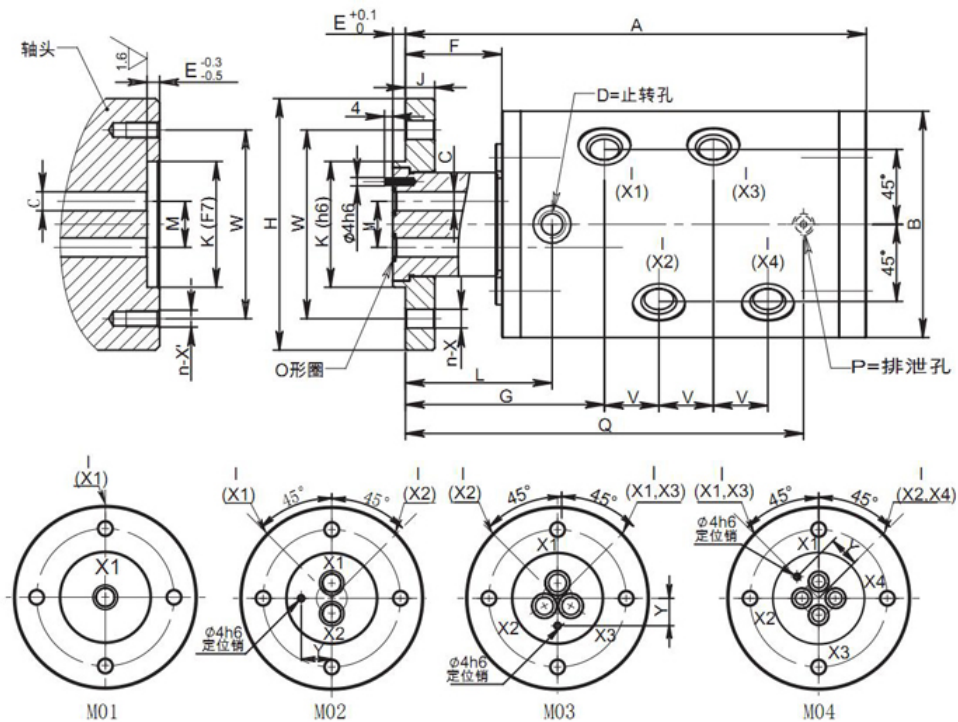
Pressure: 35Mpa

Speed: 2m/s



Type 0 ring seal

Thread seal



Cross Reference Charts

<i>Kettle Seals</i>								
HQ	BURGMA NN	AES	CRANE	VULCAN	ROTEN	FLOWSE RVE	FLEXA	Chester ton
HQK-A06		CSM						
HQK-A07		CDM						
HQMA-14		CDMSC						
HQMA-15		SCMS						
HQK-B01	M461							
HQK-B02	M4481							
HQK-B06	SeccoMix R							
HQK-B07	HS-D							
HQK-B08	AD510/520							
HQK-B09	SeccoMix							
HQK-B11	HS-D							
HQK-B12	MR-D							
HQK-B13	ERB/ERC							
HQK-B14	AGSZ							
HQK-J04			32					
HQK-J05			32i					
HQK-J18			CK725/726					

<i>Mixer and Agitator Seals</i>								
HQ	BURGMA NN	AES	CRANE	VULCAN	ROTEN	FLOWSE RVE	FLEXA	Chester ton
HQMA-14	CDMSC							
HQMA-15	SCMS							

<i>Slurry Pump Seals</i>								
HQ	BURGMA NN	AES	CRANE	VULCAN	ROTEN	FLOWSE RVE	FLEXA	Chester ton
HQS-06								170
HQS-08			5680					
HQS-09		CDPH						



<http://www.hqseal.com>



hq@hqseal.com

Metal Materials			
Type	Material Description	Symbol	Code
	Normal Stainless Steel	2Cr13	F2
	Stainless Steel	304	F
	Stainless Steel	304L	F1
	Stainless Steel	316	G
	Stainless Steel	316L	G1
	Hastelloy C-4 Alloy	Hast C4	M
	Hastelloy B-2 Alloy	Hast B2	M1
	Carpenter	Carp.20	M3
	Monel	Monel.K50	M4
	Hastelloy C-4C-276 Alloy	Hast.C-276	M5
	Pure Titanim	TA2	T2
	Carpenter	Carp.42	T4
	Deposit induration Stainless Steel	Am350	T6
	08F Coated with Chrome	Q235-A	C
	Brass	H62	H
Secondary Seal Materials			
Type	Material Description	Symbol	Code
Rubber	Nitrile(NBR)	NBR	P
	Ethylene Propylene(EPDM)	EPR	E
	Fluorocarbon Rubber(Viton)	FPM	V
	Silicon Rubber	SI	S
	Chloroprene Rubber	CR	N
	Hydrogen Nitrile	HNBR	H
	Perfluoroelastomer(Kalrez,Chemraz)	FFKM	K
PTFE	Pure PTFE	PTFE	T
	PTFE, glassfibre reinforced		T2
	PTFE,Carbon Reinforced		T3
PTFE Wrapped	FPM,with PTFE wrapped	PTFE+FPM	M1
	EPR,with PTFE wrapped	PTFE+EPR	M2
	MVQ,with PTFE wrapped	PTFE+MVQ	M3
Expended graphite	Expanded Graphite		G



Seal Ring Materials			
Type	Material Description	Symbol	Code
SIC	Silicon Carbide,Sintered Pressureless	SSIC	Q1
	Silicon Carbide,Sintered Pressureless(shrunk-in)		Q12
	Silicon Carbide,Reaction bonded	RBSIC	Q2
	Silicon Carbide,Reaction bonded(shrunk-in)		Q22
	Reaction Silicon Carbide with graphite		Q3
	Sintered Silocon Carbide with SB		Q4
AL203	Ceramic(Alumina)	99.5% AL203	V
	Ceramic(Alumina)	99% AL203	V1
	Ceramic(Alumina)	95% AL203	V2
	Cermet	Fe+AL203	V3
TC	Co-binder Tungsten Carbide	YG6,GY8	U1
	Co-binder Tungsten Carbide(shrunk-in)		U12
	Ni-binder Tungsten Carbide	M106,M108	U2
	Ni-binder Tungsten Carbide(shrunk-in)		U22
	NiCrmo-binder Tungsten Carbide		U3
	NiCrmo-binder Tungsten Carbide(shrunk-in)		U32
Carbon	Antimony Impreg,Carbon Graphite		A
	Babbitt Alloy Impreg,Carbon Graphite		A1
	Copper Alloy Impreg,Carbon Graphite		A2
	Resin Impreg Impreg,Carbon Graphite(Furan)		B
	Resin Impreg Impreg,Carbon Graphite(Epoxy)		B1
	Resin Impreg Impreg,Carbon(Phedol-formaldehyde)		B2
	Hot-pressing Carbon		B5



Seal Ring Materials			
Metal	Stainless Steel	304	F
	Stainless Steel	304L	F1
	Stainless Steel	316	G
	Stainless Steel	316L	G1
	Tin bronze	ZQSn6-6-3	S1
	High silicon cast iron		S2
	High nickel cast iron		S3
Plastic	PTFE,glassfibre reinforced		Y1
	PTFE,carbon reinforced		Y2
Spring Materials			
Type	Material Description	Symbol	Code
	Hastelloy C-4 Alloy	Hast.C4	M
	Stainless Steel	304	F
	Stainless Steel	304L	F1
	Stainless Steel	316	G
	Stainless Steel	316L	G1
	65Mn Coated with Chrome	65Mn	G8

