SHARK MIX-DS

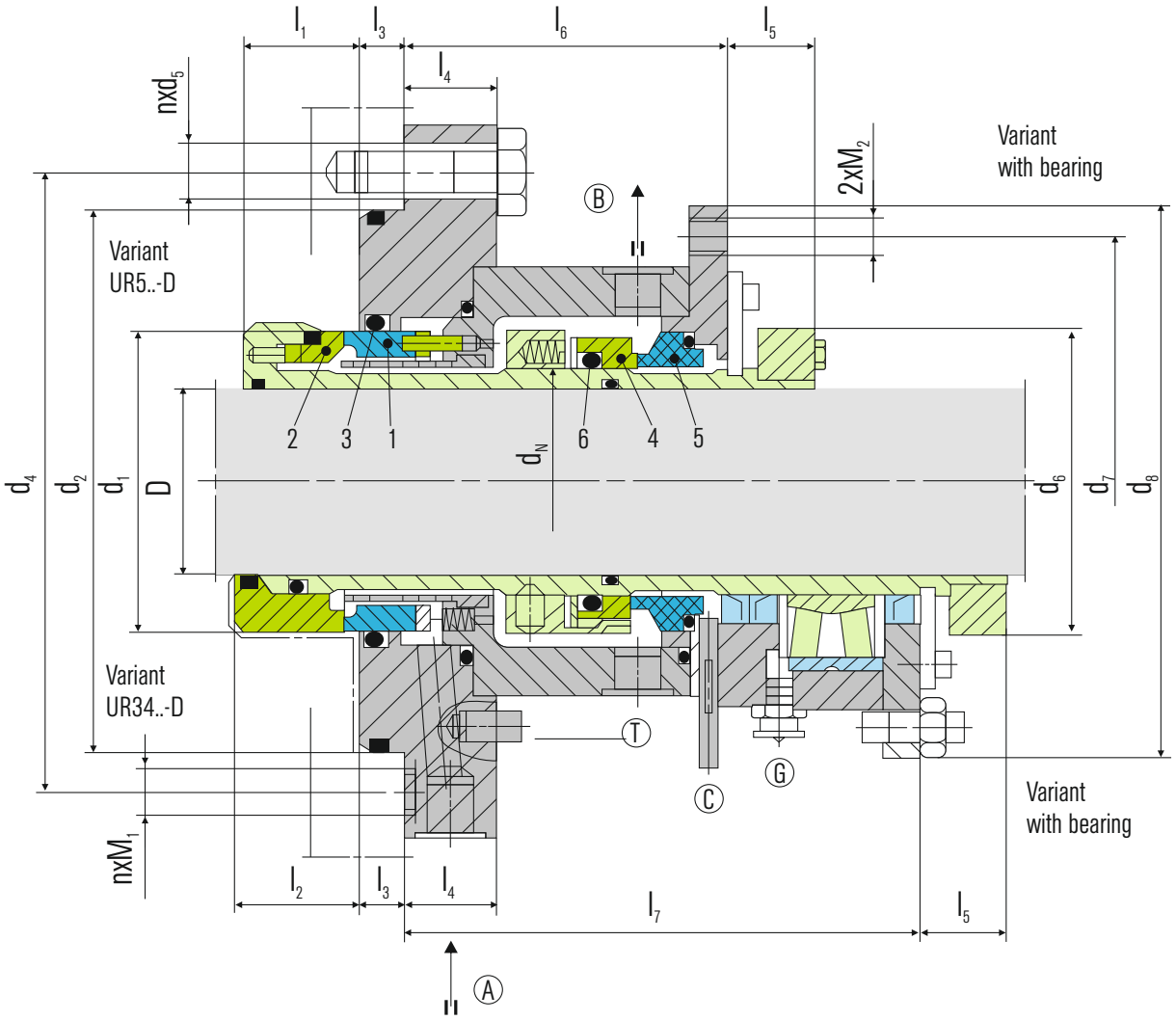
Agitator Seals · Side Entry

Product Description

1. Cartridge unit
2. Double seal
3. For top, lateral and bottom drives
4. Independent of direction of rotation
5. Product side seat rotating
6. Unbalanced

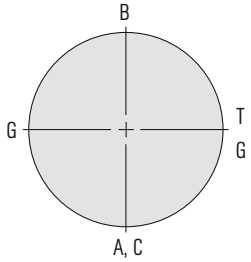
Technical Features

1. CIP-/SIP (Cleaning in Place, Sterilization in Place)
2. Smooth surface with no empty spaces
3. Variant for sterile applications available



Item	Description
1	Seal face, product side
2	Seat, product side
3	O-Ring, dynamic
4	Seal face, atmosphere side
5	Seat, atmosphere side
6	O-Ring, dynamic

Installation, Details, Options



Supply Connections	
A	Barrier fluid IN
B	Barrier fluid OUT
C	Drainage
G	Grease
T	Temperature measuring

Typical Industrial Applications

Chemical industry
Food and beverage industry
Pharmaceutical industry
Dryers
Kneaders
Mills
Mixers
Pressure filters
Reactors

Materials

Product side :
Seal face, seat: Silicon carbide (S), Tungsten carbide (U)
Metal parts: Cr steel (4), CrNiMo steel (1) Hastelloy® (C)

Atmosphere side:
Seal face, seat: Silicon carbide (S), Carbon graphite resin impregnated (C)
Metal parts: Cr steel (4), CrNiMo steel (1)

Product and atmosphere side:
Springs: CrNiMo steel (1), Hastelloy® (C)
Secondary seals: EPDM (E), FKM (V), FFKM (P)

Other materials on request.

Standards

FDA

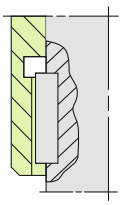
Notes

Options:
Cooling or heating flange
Temperature probe
Axial expansion joint (shaft lifting)
Wiper ring (shaft lifting)
Radial Bearing

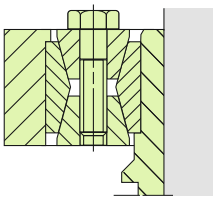
Performance Capabilities

Sizes: D = Up to 20.00"
Axial offset shaft/housing: max. ±0.060"
D > 2.375": max. ±0.080")
Radial offset shaft/housing: max. ±0.012"
Pressure: p1 (process) = vacuum to 203 PSIG (334 PSIG)
p3 (buffer fluid) = max. 232 PSIG (363 PSI))
Δ p3 > p1 = min. 25 PSIG, max. 145 PSIG
Temperature:
t1 (media) = -4 °F to +392 (572°F)
Speed = 66 ft/s

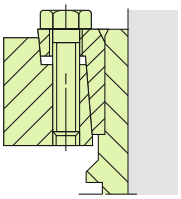
Torque Transmissions



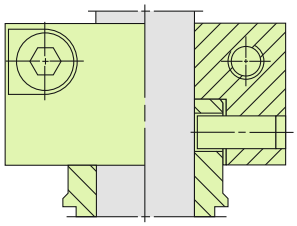
Drive key



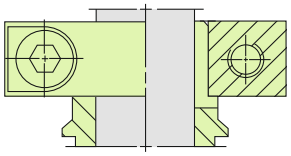
Clamping set



Shrink disc



Clamping ring with pin



Clamping ring

Dimensional Data

Dimensions in millimeter

D	d_N	d_1	d_2	d_3	d_4	l_1	l_2	l_3	l_4	l_5	l_6	l_7	A,B	C	nxd6
20	30	52	117	140	118	35	30	114	30	22	75	41	G3/8	G1/8	6X11
25	35	58	124	150	128	35	30	127	30	22	85	41	G3/8	G1/8	6X11
30	40	62	134	165	138	35	30	129	30	24	87	41	G3/8	G1/8	6X11
35	45	68	140	175	148	35	30	130	30	24	87	41	G3/8	G1/8	6X11
40	50	75	145	175	148	35	30	133	34	26	90	41	G3/8	G1/8	8X11
45	55	82.7	150	175	148	35	30	135	34	26	90	41	G3/8	G1/8	8X11
50	60	85	160	185	158	41	30	150	34	30	105	41	G3/8	G1/8	8X11
50	65	90	170	195	168	41	30	160	34	30	105	41	G3/8	G1/8	8X11
55	70	95	175	205	178	41	30	160	34	30	105	41	G3/8	G1/8	8X11
60	75	100	180	205	178	41	30	160	34	30	105	41	G3/8	G1/8	8X11
65	80	110	190	220	188	41	40	190	44	30	105	41	G3/8	G1/8	8X14
70	85	115	195	230	198	41	40	190	44	30	105	41	G3/8	G1/8	8X14
75	90	120	200	230	198	41	40	190	44	30	105	41	G3/8	G1/8	8X14
80	95	127	205	235	203	41	40	190	44	30	105	41	G3/8	G1/8	8X14
80	100	130	210	240	208	41	40	190	44	30	105	45	G3/8	G1/8	8X14
85	105	135	215	250	218	41	40	190	44	30	105	45	G1/2	G1/4	8X14
90	110	140	230	260	228	41	40	190	44	31	110	45	G1/2	G1/4	8X14
95	115	145	235	270	238	41	40	190	44	31	110	45	G1/2	G1/4	8X14
100	120	150	240	270	238	42	40	200	44	31	120	46	G1/2	G1/4	8X14
110	130	160	255	290	258	42	40	200	50	31	120	46	G1/2	G1/4	8X14
120	140	172	265	305	268	43	50	220	50	41	130	46	G1/2	G1/4	8X18
130	150	185	275	315	278	43	50	220	50	41	130	46	G1/2	G1/4	8X18
140	160	195	290	335	298	43	50	220	50	41	130	46	G1/2	G1/4	8X18
150	170	205	300	335	298	47	50	220	50	45	130	46	G1/2	G1/4	8X18
160	180	220	330	355	323	47	50	250	50	45	140	46	G1/2	G1/4	8X18
170	190	230	345	375	358	47	50	250	55	45	140	46	G1/2	G1/4	8X18
180	200	240	365	395	358	47	50	250	55	45	140	51	G1/2	G1/4	8X18
190	210	260	385	415	378	50	50	250	55	45	140	51	G1/2	G1/4	12X18
190	220	270	395	425	388	50	50	250	55	45	140	51	G1/2	G1/4	12X18
200	230	280	395	425	388	50	50	300	55	45	160	51	G1/2	G1/4	12X18

*** For larger diameters please contact us.**
inch size available from size 1.125" to 10.000"
Note: Additional technical & dimensional information will be provided on request.