SHARK MIX-DP

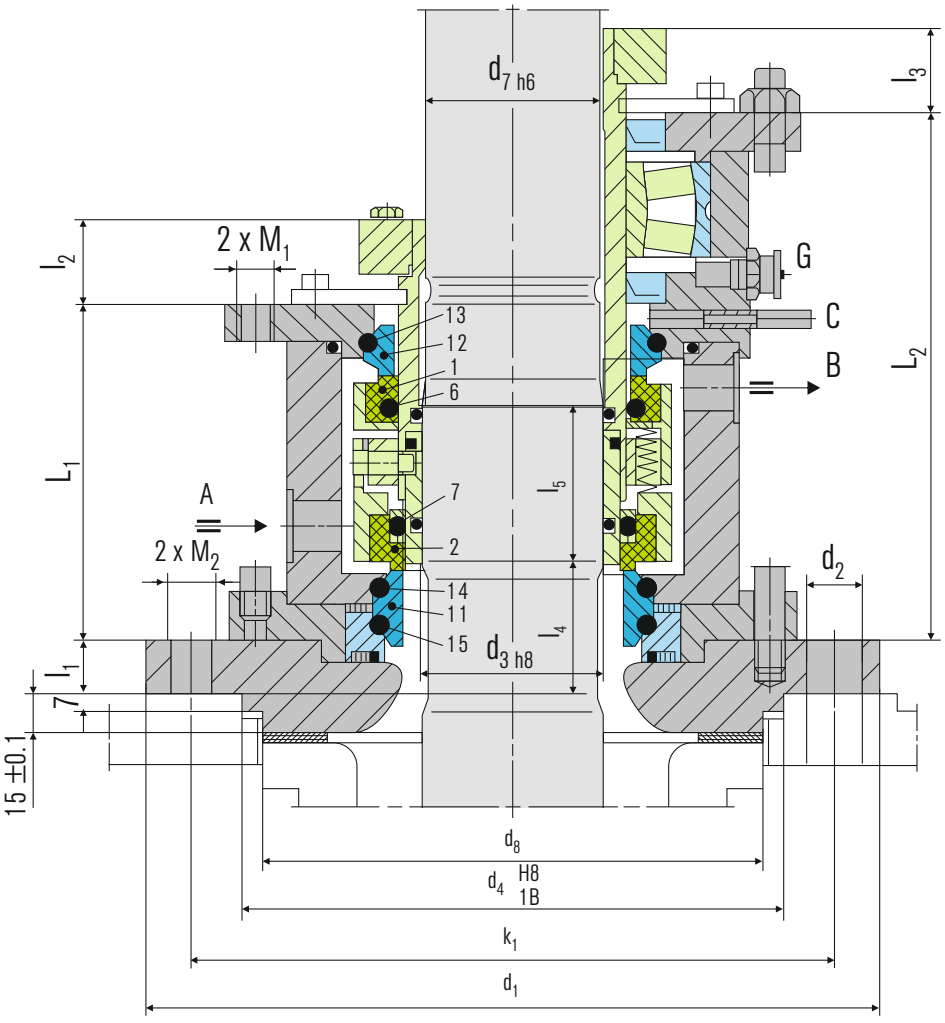
Agitator Seals · Top Entry Glass Lined

Product Description

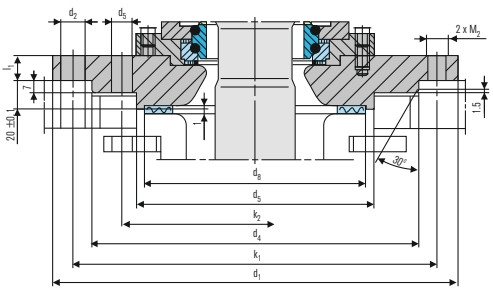
1. Cartridge unit
2. Double seal, single seal on request
3. For glass-lined vessels, acc. to DIN 28138 T2
4. For top entry drives
5. Independent of direction of rotation
6. Multiple springs rotating
7. Unbalanced

Technical Features

1. Available with or without floating bearing
2. Double seals can be applied at higher pressure and rotating speed
3. Ready-to-fit and factory-tested unit
4. Suitable for standardizations



Item	Description
1	Seal face, atmosphere side
2	Seal face, product side
6,7,13 14,15	O-Ring
11	Seat, product side
12	Seat, atmosphere side



Flange connections acc. to DIN 28137 T2 for nominal diameters 125 ... 161.

Typical Industrial Applications

Chemical industry
Non-toxic media with single seal
Pharmaceutical industry
Toxic media with double seal
Agitators
Reactors

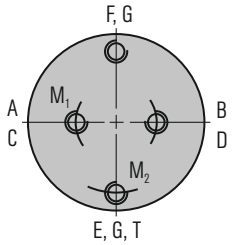
Materials

According to application and customer's specification.

Performance Capabilities

Sizes: d3 = Up to 160 mm (6.500")
Pressure: p1 = vacuum to 230 PSIG
p3 = max. 261 PSIG
Temperature: t1 = -40 °F to +392 (482) °F
Speed = 0 to 16 ft/s

Installation, Details, Options



Supply connections
Designation and positions of screwed connections, pull-off and jacket threads acc. to DIN 28138 T3.

A	Barrier fluid resp. quench IN
B	Barrier fluid resp. quench OUT
C	Drainage
D	Leakage drain G1/8"
E	Cooling IN G3/8"
F	Cooling OUT G3/8"
G	Grease
H	Temperature metering

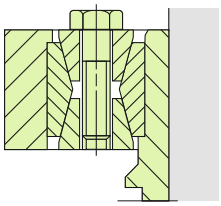
Standards

FDA
DIN 28136 T3 (for glass-lined vessels)
DIN 28137 T2 (flange connection for glasslined vessels)
DIN 28159 (shaft end for glass-lined vessels)

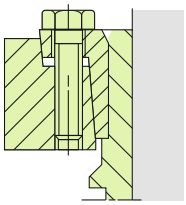
Notes

Options:
Cooling or heating flange
Leakage drain, flush or heating flange
Leakage drain or flush
Polymerization barrier, leakage drain or flush

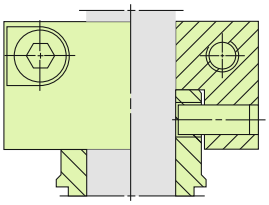
Torque Transmissions



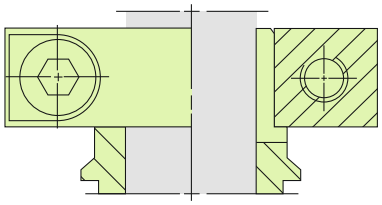
Clamping set



Shrink disk

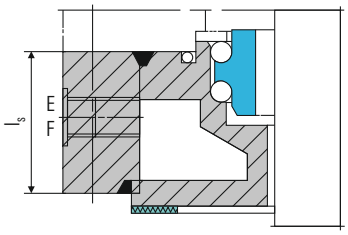


Clamping ring
with pin

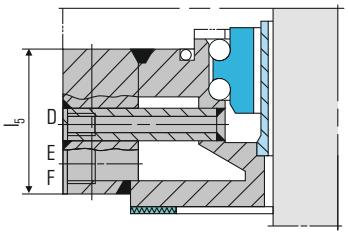


Clamping ring

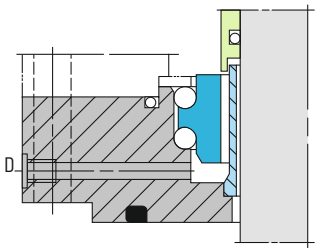
Options



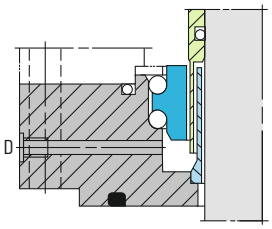
Option
Cooling flange, can be used alternatively as a heating flange (tmax. = 662 °F.



Option
Leakage drain, can be used alternatively as a flush or as a heating flange.



Option
Leakage drain, can be used alternatively as a flush



Option
Polymerization barrier, can be used alternatively as a leakage drain or a flush.

Design Variations

Double Seals Variants

MIX-DT

Double seal for stainless vessels

MIX-DT-B

Double seal with bearing for stainless vessels

MIX-DP-B/MIX-DP

Double seal with/without floating bearing for PN25

Dimensional Data

Dimensions in mm

d_3 1)	d_7 1)	Nominal size	Flange size 2)	d_1	nxd 2	d_4	nxd 5	d_6	d_7	[k_1	[k_2	L_1	L_2	l_1	l_2	l_3	l_4	l_5	M_1	M_2	A,B
40	38	40	E125	175	4X18	110	-	-	102	145	-	142	184	25	35	28	50	50	M12	M16	G3/8
50	48	50	E200	240	8X18	176	-	-	138	210	-	147	195	25	40	28	50	50	M12	M16	G3/8
60	58	60	E250	275	8X22	204	-	-	188	240	-	158	203	30	42	28	50	60	M12	M20	G3/8
80	78	80	E300	305	8X22	234	-	-	212	270	-	170	240	30	45	34	60	60	M16	M20	G1/2
100	98	100	E400	395	12X22	313	-	-	268	350	-	177	240	30	52	34	60	60	M16	M20	G1/2
100	98	100	E500	395	12X22	313	-	-	268	350	-	177	240	30	52	34	60	60	M16	M20	G1/2
125	120	125	E700	505	4X22	422	12X22	320	306	460	350	208	266	30	75	40	60	80	M20	M20	G1/2
140	135	140	E700	505	4X22	422	12X22	320	306	460	350	223	282	30	79	40	60	80	M20	M20	G1/2
160	150	160	E700	505	4X22	422	12X22	320	306	460	350	228	282	30	77	40	60	85	M20	M20	G1/2
160	150	160	E900	505	4X22	422	12X22	320	306	460	350	228	282	30	77	40	60	85	M20	M20	G1/2
160	150	161	E901	565	4X26	474	12X22	370	356	515	400	228	282	30	77	40	60	85	M20	M20	G1/2

1) Shaft diameters d3 and d7 to DIN 28159
2) Flange size to DIN 28137T2
inch size available from size 1.575 to 6.500
Note: Additional technical & dimensional information will be provided on request.