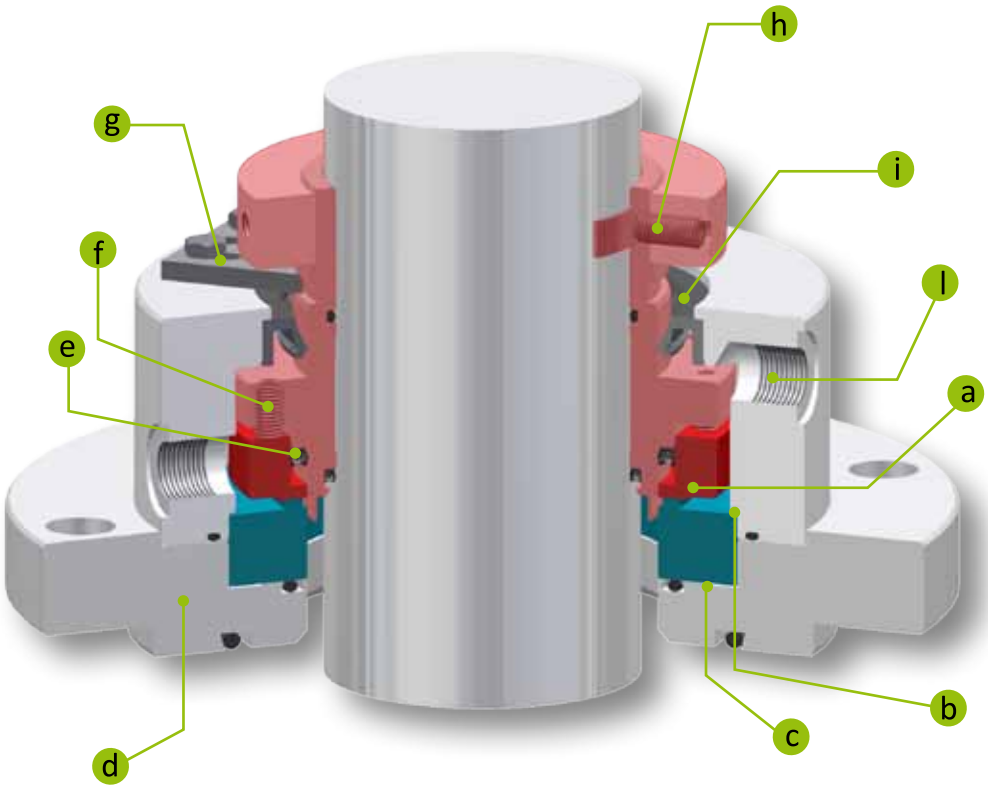
Single dry seals with cooling

GT 1855 A

Single balanced external mechanical seal in cartridge configuration complete with flange, shaft sleeve and auxiliary seal to allow static or continuous atmospheric pressure quenching. "Fluigrid" technology (see pg.10) ensures superior dry running performance while the large radial clearances make the seal tolerant to high shaft run-out.



Characteristics

a) Solid rotary seal ring in silicon carbide and solid stationary seal ring in premium grade graphite.

b) Retained stationary ring to prevent blow out during reverse pressure.

c) Flange designed to guarantee correct alignment of stationary seal ring.

d) Optional: sanitary flange to prevent product contamination.

e) Optimised sliding diameter to ensure reliable performance of the dynamic elastomer.

f) Multiple springs outside the product to ensure uniform load on the seal faces.

g) Setting device for easy and precise installation.

h) Drive collar designed to prevent locking screws damaging the shaft.

i) Lip seal containment gasket.

l) Connections for continuous or occasional washing with low pressure fluid.

NOTE: A high pitched squealing sound may occur temporarily under certain operating conditions. This does not indicate a seal defect and does not compromise correct operation.

Operating limits

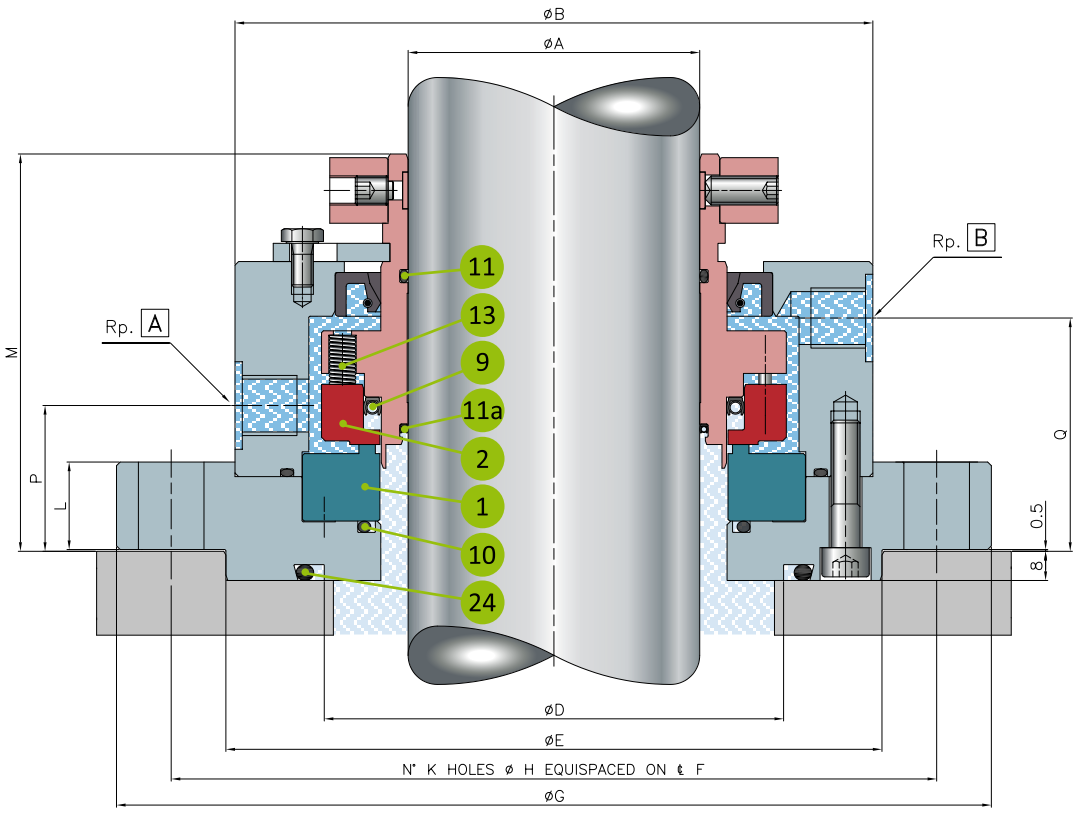
DIAMETER *(mm)*	**FROM 35 TO 200**
SPEED *(m/s)*	**≤ 3**
TEMPERATURE *(°C)*	**FROM -50 TO 150**
PROCESS PRESSURE *(bar)*	**VACUUM TO 6**

For operating limits other than those specified, please consult our Technical Department. The pressure and speed values indicated are not absolute limits, but should be evaluated by calculating the pressure x velocity value (PV) and considering the temperature, chemical and physical characteristics of the fluid to be sealed.

OPTIONAL FLANGES (see pg. 40)

Sanitary flange

FOOD INDUSTRY | CHEMICAL INDUSTRY | PHARMACEUTICAL INDUSTRY | DRY CONTACTING | BI-DIRECTIONAL | TOP ENTRY



COMPONENT KEY (standard materials)

1 Stationary ring in special graphite for dry running (ZD71) or FDA approved graphite for dry running (ZD51)

2 Silicon carbide rotating ring (U31)

9 Rotating seal gasket in FKM (V), EPDM (D) or Fluigam: energized PTFE (T3)

10 Stationary ring gasket in FKM (V), EPDM (D) or FFKM (G720)

11 Atmosphere side sleeve gasket in FKM (V), EPDM (D)

11a Product side sleeve gasket in FKM (V), EPDM (D) or Fluigam: energized PTFE (T3)

13 Springs and other metal parts in AISI 316

24 Flange gasket in PTFE (T)

Rp. A - Rp. B: input/output for washing or ventilation fluid

A *h8*	SEAL *Ø*	B	D	E *e8*	F	G	K *HOLES*	H *Ø*	L	M	P	Q	Rp.A-B *UNI ISO 7/1*
35 40	50	118	76	120	145	170	6	13	20	91	43	54	3/8"
45 50	60	128	89	130	155	180	6	13	20	93	43	56	3/8"
55 60	70	145	98	150	180	210	6	18	20	93	43	56	3/8"
65 70	80	160	111	165	195	225	6	18	20	100	36	59	3/8"
75 80	95	175	126	180	210	240	6	18	25	110	41	65	3/8"
85 90	100	179	129	180	215	245	8	18	25	104	43	62	1/2"
95 100 105	120	220	159	220	255	285	8	18	40	146	65	100	1/2"
110 115	130	230	172	230	265	295	8	18	40	148	65	100	1/2"
120 125	140	240	178	240	275	305	8	18	40	151	65	100	1/2"
130 135	150	250	191	250	285	315	8	18	40	151	65	100	1/2"
140	160	260	197	260	295	325	8	18	40	164	65	110	1/2"
145 150	170	270	209	270	305	335	10	18	40	164	65	110	1/2"
155 160	180	280	216	280	315	345	10	18	40	164	65	110	1/2"
165 170	190	290	228	290	325	355	10	18	40	167	65	110	1/2"
175 180	200	300	241	300	335	365	10	18	40	184	65	110	1/2"
185 190	210	310	247	310	345	375	10	18	40	184	65	110	1/2"
195 200	220	320	254	320	355	385	12	18	40	184	65	110	1/2"

Measurements are expressed in millimetres. For measurements differing from those listed or measurements in inches, please contact our Technical Sales Department at info@fluiten.it

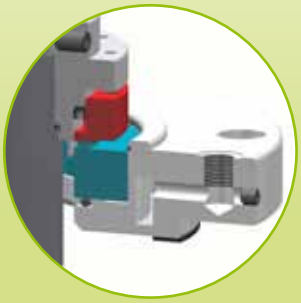
OPTIONAL FLANGES

Every mechanical seal can be equipped with optional flanges for specific applications.
A cooled flange is available for higher temperature applications, identified with the letter C in the seal code.
A sanitary flange is available for hygenic applications to prevent particles or leakage from entering the process and potentially contaminating the product. This flange is identified with letter D in the seal code.
A cooled sanitary flange has both features and is suitable for applications having both high temperature and hygienic requirements. This flange is identified with the letter E in the seal code.
The standard flange is identified with the letter A in the seal code.

GT 2888/GT 2887

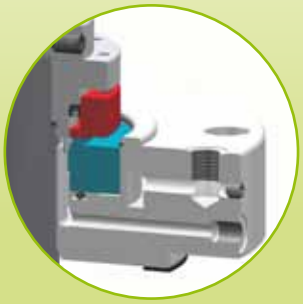
Alternative flanges for single mechanical seal suitable for dry running.
The cooling chamber flange is recommended for temperatures exceeding 80°C.

Flange with cooling chamber (C)



Sanitary flange (D)

Sanitary flange with cooling chamber (E)



GT 1855

Alternative flange for single mechanical seal suitable for dry running.

Sanitary flange (D)