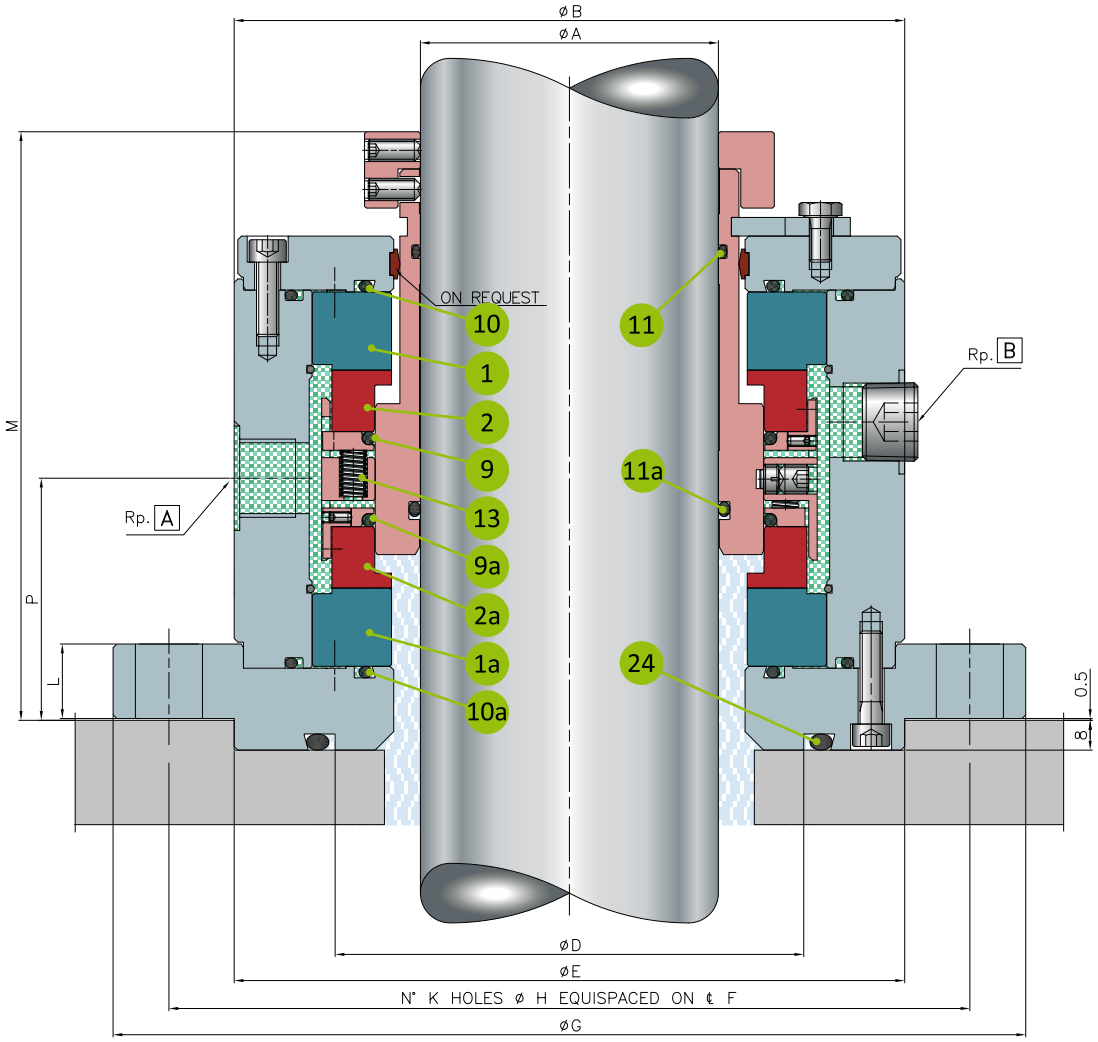


COMPONENT KEY (standard materials)

1 Stationary ring in graphite for dry running (ZD71) or FDA approved graphite for dry running (ZD51)
1a Stationary ring in graphite for dry running (ZD71) or FDA approved graphite for dry running (ZD51)
2 Silicon carbide rotating ring (U31)
2a Silicon carbide rotating ring (U31)
9 Rotating seal gasket in FKM (V) or EPDM (D)
9a Rotating seal gasket in FKM (V), EPDM (D) or FFKM (G720)
10 Stationary ring gasket in FKM (V) or EPDM (D)
10a Stationary ring gasket in FKM (V), EPDM (D) or FFKM (G720)
11 Atmosphere side sleeve gasket in FKM (V) or EPDM (D)
11a Product side sleeve gasket in FKM (V), EPDM (D), FFKM (G720) or Fluigam: energized PTFE (T3)
13 Springs and other parts in AISI 316 (E)
24 Flange gasket in PTFE (T)

Rp. A - Rp. B: connections for pressurization

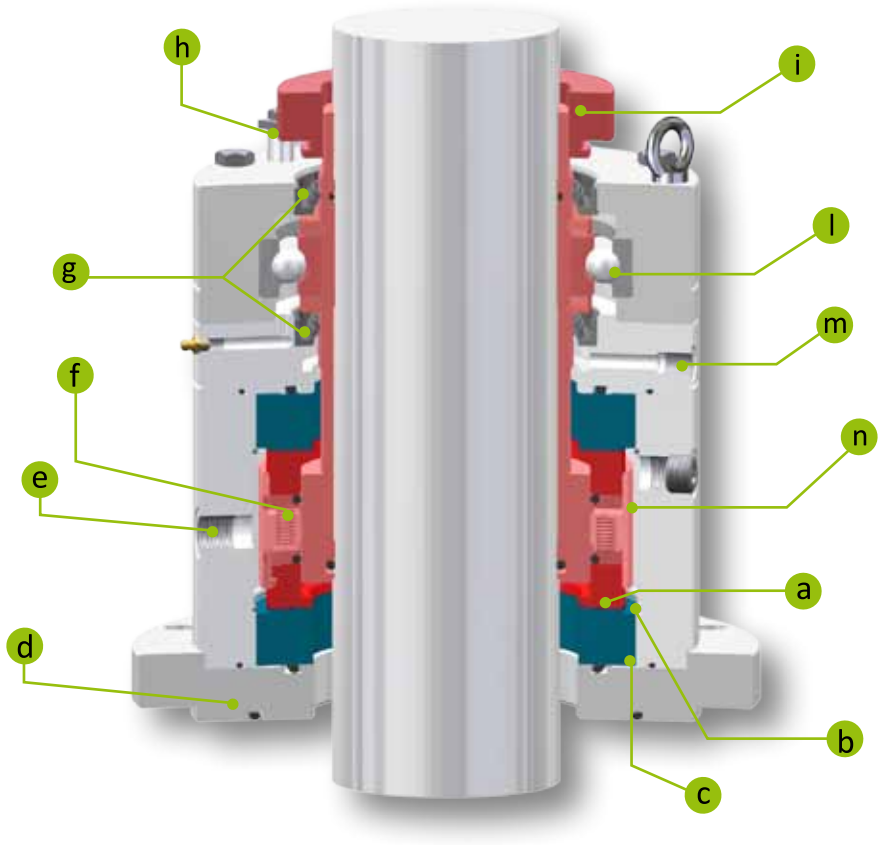
A *h8*	SEAL *Ø*	B	D	E *e8*	F	G	K *HOLES*	H *Ø*	L	M	P	Q	Rp.A-B *UNI ISO 7/1*
35 / 40	55	140	76	120	145	170	6	13	20	158	64	80	1/2"
45 / 50	65	150	89	130	155	180	6	13	20	158	64	80	1/2"
55 / 60	75	160	98	150	180	210	6	18	20	158	64	80	1/2"
65 / 70	85	170	111	165	195	225	6	18	20	158	64	80	1/2"
75 / 80	95	180	126	180	210	240	6	18	20	158	64	80	1/2"
85 / 90	110	243	130	180	215	245	8	18	30	237	96	127	1/2"
95 / 100 / 105	120	253	165	220	255	285	8	18	30	237	96	127	1/2"
110 / 115	135	268	175	230	265	295	8	18	30	237	96	127	1/2"
120 / 125	145	278	191	240	275	305	8	18	30	237	96	127	1/2"
130 / 135	155	288	201	250	285	315	8	18	30	237	96	127	1/2"
140	165	298	211	260	295	325	8	18	30	237	96	127	1/2"
145 / 150	175	308	218	270	305	335	10	18	30	237	96	127	1/2"
155 / 160	185	318	234	280	315	345	10	18	30	240	96	127	1/2"
165 / 170	195	328	239	290	325	355	10	18	30	240	96	127	1/2"
175 / 180	205	338	249	300	335	365	10	18	30	240	96	127	1/2"
185 / 190	215	348	255	310	345	375	10	18	30	240	96	127	1/2"
195 / 200	225	358	261	320	355	385	12	18	30	240	96	127	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

Double seals with gas flushing

GT 1910 A

Latest generation gas lubricated double seal developed to safeguard the environment and eliminate process contamination. The seal is designed with "Fluilift" non contacting face technology (see pg. 10), and is pressurized with an inert gas that lubricates the faces and provides a gas barrier between process and atmosphere. The seal incorporates laser etched grooves that maintain a controlled gap between the faces, even at low rotating speeds, eliminating friction, heat generation and process contamination. Power consuption is also reduced. Equipped with ball or roller bearing to minimise seal run-out.
Designed using API 682 construction guidelines.



Characteristics

a) Seal rings designed using FEA to ensure correct flatness in all operating conditions.

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

c) Flange designed to guarantee correct stationary ring alignment.

d) Optional: sanitary gland to avoid product contamination and cooling jacket for high temperature applications.

e) Connection for gas flushing.

f) Multiple springs for uniform face loading.

g) Bearing protection ring to contain lubrication.

h) Positioning device for easy, precise installation.

i) Self-aligning drive collar.

l) Ball or roller bearing to ensure minimum seal run-out.

m) Atmosphere leakage monitoring connection.

n) Three robust drive lugs that can tolerate run-out and vibration.

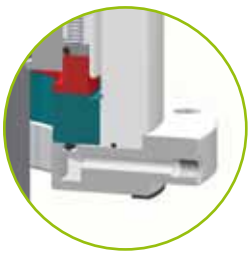
*NOTE: barrier fluid pressure must always be higher than the process pressure with **ΔP** as per operating limits.

Operating limits for non-contacting gas operation

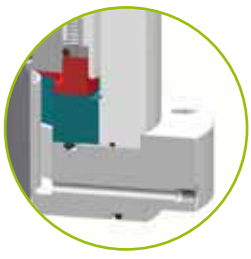
DIAMETER *(mm)*	**FROM 35 TO 200**
SPEED *(m/s)*	**≤ 10**
TEMPERATURE *(°C)*	**FROM -20 TO 200**
ΔP= minimum 2 - 2.5 *bar See NOTE**	
PROCESS PRESSURE *(bar)*	**VACUUM TO 10**

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.

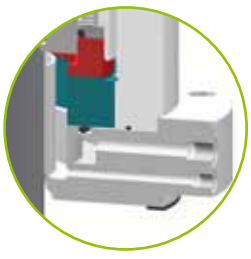
OPTIONAL FLANGES (see pg. 41)



Flange with cooling chamber



Sanitary flange



Sanitary flange with cooling chamber

FOOD INDUSTRY · CHEMICAL INDUSTRY · PHARMACEUTICAL INDUSTRY · GAS NON-CONTACTING · DRY CONTACTING UPON REQUEST · BI-DIRECTIONAL · TOP ENTRY

Images and dimensions may differ slightly from the standard configuration or refer to different markets. The product may be subjected to technical or commercial modifications without notification.

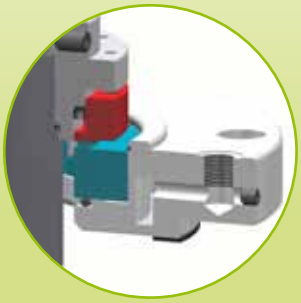
OPTIONAL FLANGES

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

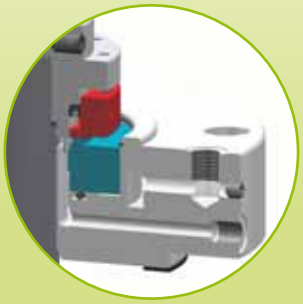
Alternative flanges for single mechanical seal suitable for dry running.
The cooling chamber flange is recommended for temperatures exceeding 80°C.

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)

GT 1811/GT 1810

Alternative flanges for Double seal with pressurized or non-pressurized flushing.
The cooling chamber flange is recommended for temperatures exceeding 250°C.

Flange with cooling chamber (C)

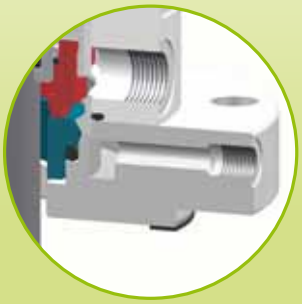
Sanitary flange (D)

Sanitary flange with cooling chamber (E)

GT 1924/GT 1923

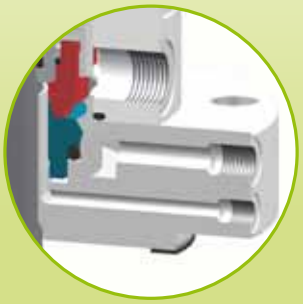
Alternative flanges for Double seal suitable for high pressure.
The cooling chamber flange is recommended for temperatures exceeding 250°C.

Flange with cooling chamber (C)



Sanitary flange (D)

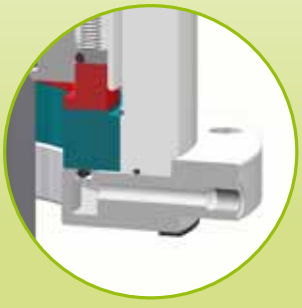
Sanitary flange with cooling chamber (E)



GT 1911/GT 1910

Alternative flanges for Double gas seal.

Flange with cooling chamber (C)



Sanitary flange (D)

Sanitary flange with cooling chamber (E)