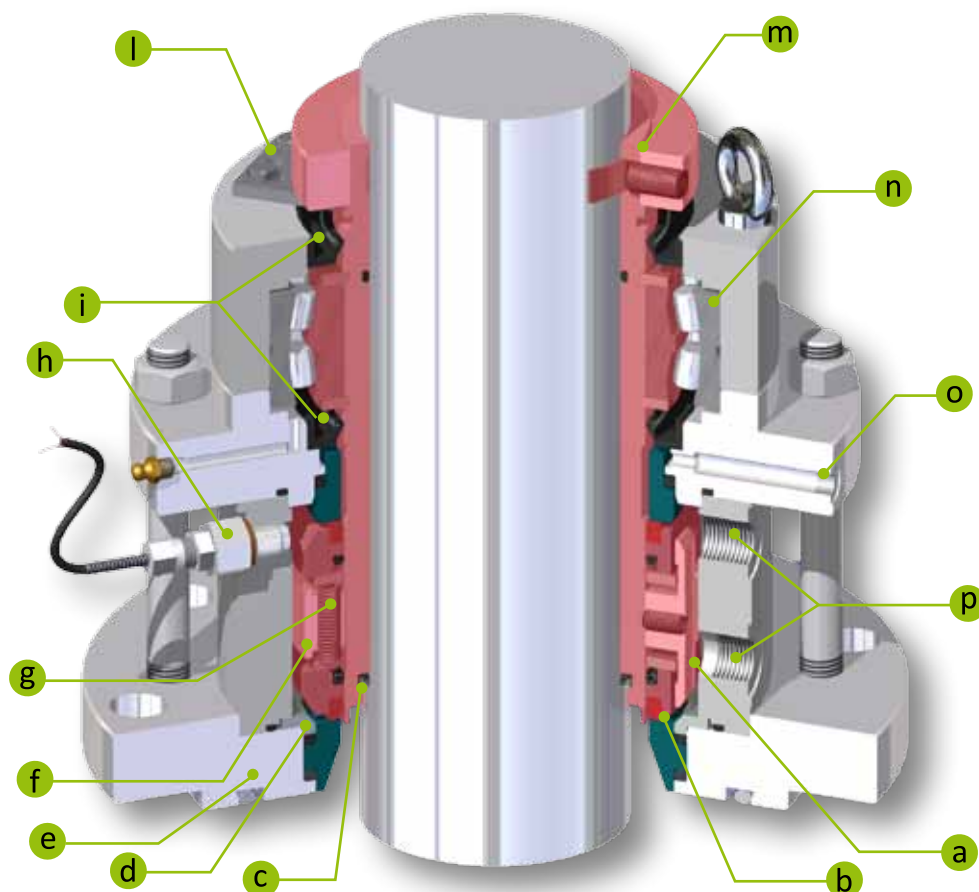


GT 1810A

The GT 1810 A is a back-to-back double cartridge seal designed for operation with a pressurized barrier fluid (1 bar > than process pressure). The seal has the addition of an integrated self-aligning roller bearing to minimise shaft run-out. This robust, tried and tested design is available constructed from materials selected according to the specific operating conditions. The GT 1820 A variant is also available with dimensions compliant with DIN 28138 (flange) and DIN 28159 (shaft).



Characteristics

- a) Robust drive lugs that can tolerate run-out and vibration.
- b) Robust, carefully designed seal rings.
- c) FLUIGAM: product side PTFE energized gasket.
- d) Retained stationary ring to prevent blow out during reverse pressure.
- e) Optional: sanitary flange to prevent product contamination and cooling flange for high temperature applications.
- f) Double seal with single piece body to reduce axial length.
- g) Multiple springs outside the product for uniform load on the seal faces.
- h) Optional thermocouple for ATEX solutions.
- i) Bearing protection rings to contain lubrication.
- l) Positioning device for easy, precise installation.
- m) Drive collar designed to prevent locking screws damaging the shaft.
- n) Ball or roller bearing to ensure minimum seal run-out.
- o) Atmosphere leakage monitoring connection.
- p) Flushing connections designed to ensure air is always vented.

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

Operating limits

DIAMETER (mm)	FROM 35 TO 220
SPEED (m/s)	≤ 10
TEMPERATURE (°C)	FROM -50 TO 250
ΔP = 1 - 2 bar	See NOTE*
PROCESS PRESSURE (bar)	VACUUM TO 18

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.

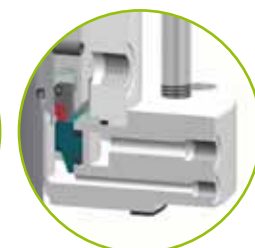
OPTIONAL FLANGES (see pg. 41)



Flange with cooling chamber



Sanitary flange



Sanitary flange with cooling chamber



FOOD
INDUSTRY



CHEMICAL
INDUSTRY



WET
LUBRICATED



BI-DIRECTIONAL

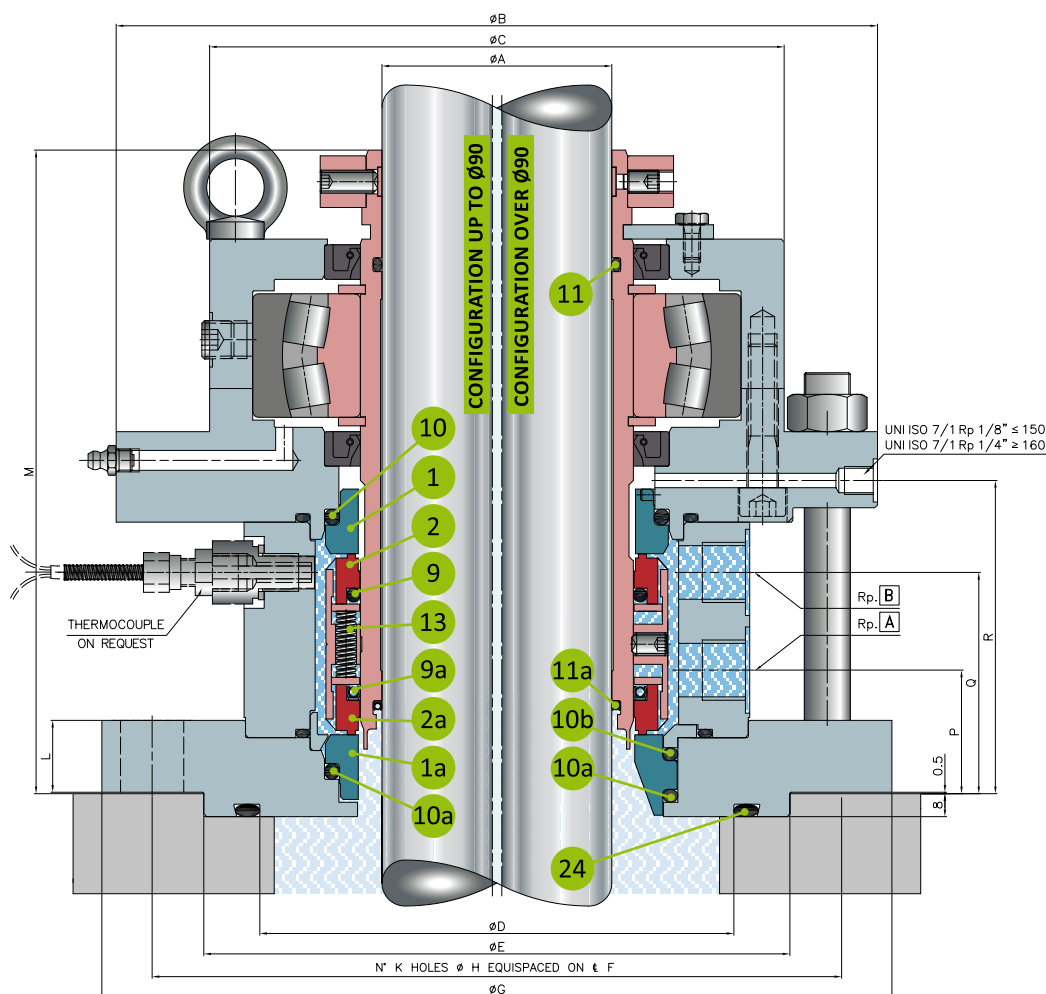


SIDE
ENTRY



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.



COMPONENT KEY (standard materials)

- 1** Silicon carbide stationary ring (U31)
- 1a** Silicon carbide stationary ring (U31)
- 2** Rotating ring in AISI 316 + graphite (Z32) or solid graphite (Z11)
- 2a** Rotating ring in AISI 316 + solid (Z32) or solid graphite (Z11)
- 9** Rotating seal gasket in FKM (V) or EPDM (D)
- 9a** Rotating ring gasket in FKM (V), EPDM (D) or Fluigam: energized PTFE (T3)
- 10** Stationary ring gasket in FKM (V) o EPDM (D)
- 10a** Stationary ring gasket in FKM (V), EPDM (D) or PTFE (T)
- 10b** Stationary ring gasket in FKM (V) or EPDM (D)
- 11** Atmosphere side sleeve gasket in FKM (V) or EPDM (D)
- 11a** Product side sleeve gasket in FKM (V), EPDM (D) or Fluigam: energized PTFE (T3)
- 13** Springs and other parts in AISI 316 (E)
- 24** Flange gasket in PTFE (T)
- Rp. A - Rp. B:** auxiliary fluid input/output

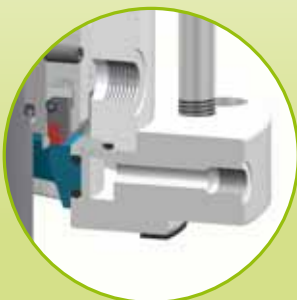
A h8	SEAL Ø	B	C	D	E e8	F	G	K HOLES	H Ø	L	M	P	Q	R	Rp.A-B UNI ISO 7/1
35 40	50	168	119	70	110	145	175	4	18	22	164	36	60	88	3/8"
45 50	60	183	136	136	176	210	240	8	18	25	181	40	69	98	3/8"
55 60	70	198	151	136	176	210	240	8	18	25	195	40	74	103	3/8"
65 70	80	210	166	136	176	210	240	8	18	25	203	42	77	106	3/8"
75 80	95	265	200	165	204	240	275	8	22	25	224	43	77	109	1/2"
85 90	100	265	200	165	204	240	275	8	22	25	224	43	77	109	1/2"
95 100	120	270	210	184	234	270	305	8	22	28	250	50	97	126	1/2"
105 110	130	320	247	210	260	295	330	8	22	28	258	50	97	129	1/2"
115 120	140	325	254	210	260	295	330	8	22	28	264	50	97	129	1/2"
125 130	150	350	269	267	313	350	395	8	22	35	290	56	113	149	1/2"
135 140	160	360	284	267	313	350	395	12	22	35	304	56	125	160	1/2"
145 150	170	380	304	267	313	350	395	12	22	35	321	56	125	161	1/2"
155 160	180	370	294	267	313	350	395	12	22	35	305	56	125	161	1/2"
165 170	190	380	304	267	313	350	395	12	22	35	308	56	125	162	1/2"
175 180	200	400	323	292	364	400	445	12	22	35	321	56	125	157	1/2"
185 190	210	420	344	292	364	400	445	12	22	35	340	56	135	169	1/2"
195 200	220	420	344	292	364	400	445	12	22	35	342	56	135	172	1/2"
210 220	240	440	364	350	422	460	505	16	22	35	342	56	135	169	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

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.

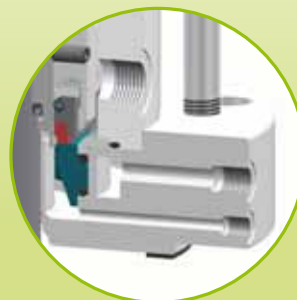
Flange with
cooling chamber (C)



Sanitary flange (D)



Sanitary flange
with cooling
chamber (E)



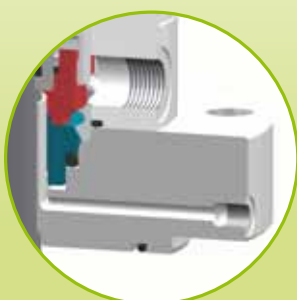
GT 1924/GT 1923

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

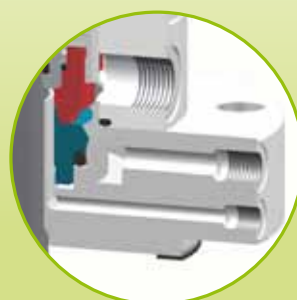
Flange with
cooling chamber (C)



Sanitary flange (D)



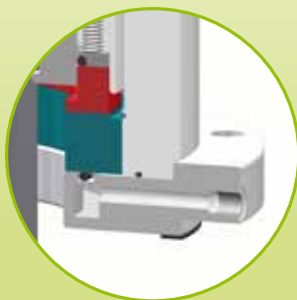
Sanitary flange
with cooling
chamber (E)



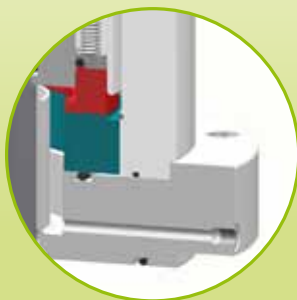
GT 1911/GT 1910

Alternative flanges for Double gas seal.

Flange with
cooling chamber (C)



Sanitary flange (D)



Sanitary flange
with cooling
chamber (E)

