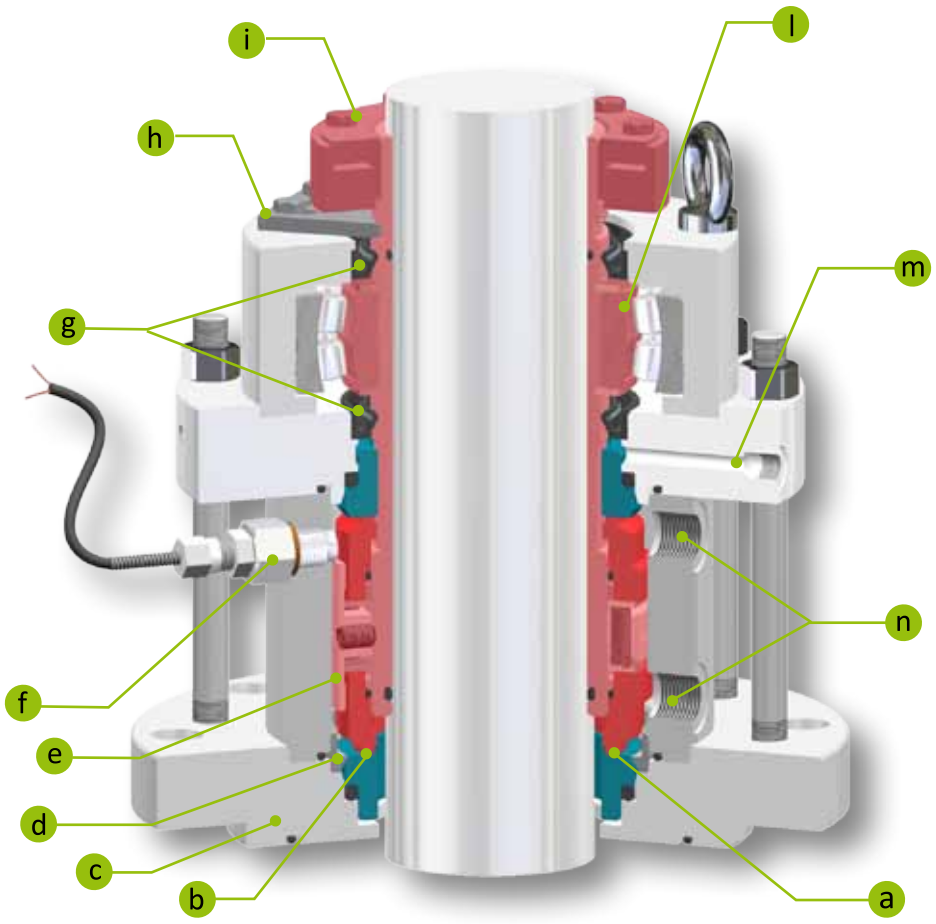
## GT 1923 A

A preassembled, back-to-back double cartridge seal with an integrated, self aligning roller bearing. Suitable for operation with a pressurised fluid. A double balanced seal suitable for high working pressure and the ability to operate under reverse pressure if there is a loss of barrier fluid pressure.
Designed using API 682 construction guidelines.




## Characteristics

a) Double balanced design able to tolerate unexpected reverse pressure.

b) High performance solid seal rings developed with FEA Analysis to avoid deformation.

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

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

e) Robust drive lugs that can tolerate run-out and vibration.

f) Optional thermocouple for ATEX applications.

g) Bearing protection ring to contain lubrication.

h) Positioning device for easy, precise installation.

i) Shrink disk drive to guarantee and maintain correct seal axial position under high process pressure conditions.

l) Self aligning roller bearing to ensure minimum seal run-out.

m) Atmosphere leakage monitoring connection.

n) Flushing connections designed to ensure air is always vented.

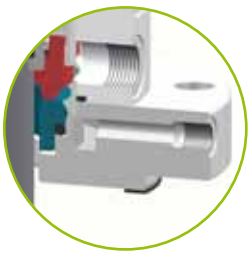
*NOTE: barrier fluid pressure must always be higher than the process pressure with **ΔP** as per operating limits.

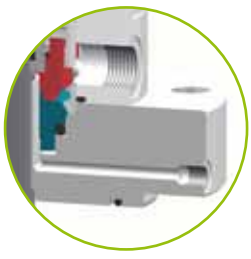
## Operating limits

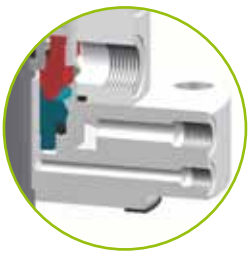
| | |
|---|---|
| **DIAMETER** *(mm)* | **FROM 50 TO 250** |
| **SPEED** *(m/s)* | **≤ 20** |
| **TEMPERATURE** *(°C)* | **FROM -50 TO 250** |
| **ΔP= minimum 1 - 2** *bar See NOTE** | |
| **PROCESS PRESSURE** *(bar)* | **VACUUM TO 75** |

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.

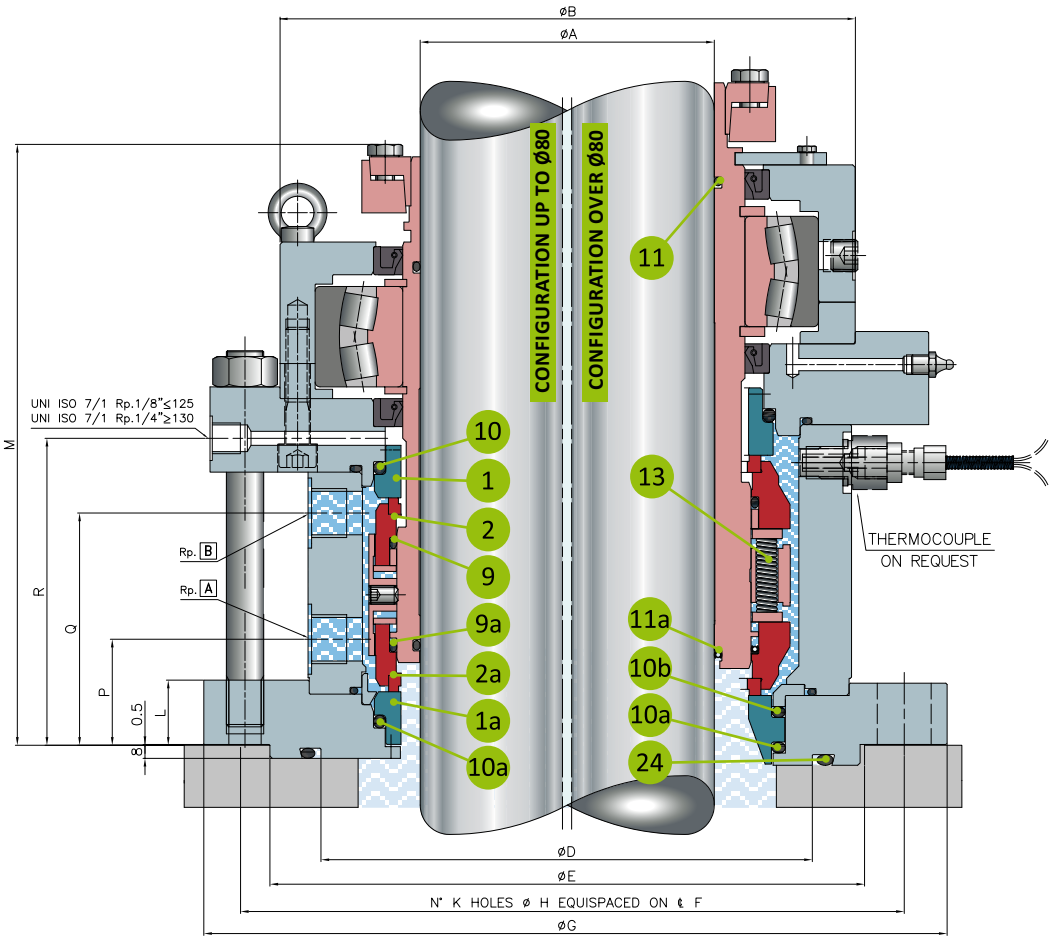
**OPTIONAL FLANGES** (see pg. 41)


Flange with cooling chamber


Sanitary flange


Sanitary flange with cooling chamber

FOOD INDUSTRY
CHEMICAL INDUSTRY
PHARMACEUTICAL INDUSTRY
WET LUBRICATED
BI-DIRECTIONAL
TOP ENTRY




## 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 + graphite (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 FFKM (G720)
**10** Stationary ring gasket in FKM (V) or 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 metal parts in AISI 316 (E)
**24** Flange gasket in PTFE (T)

**Rp. A - Rp. B**: auxiliary fluid input/output

II 1 GD c X

Model GT 1923 is available in version GT 1933, ATEX certified for Zone 0 Cat. 1 (see pg. 8). Requests for this particular configuration should be referred to the Technical Sales Department during the offer negotiation phase.

| A *h6* | 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 | 191 | 36 | 80 | 108 | 3/8" |
| 45 / 50 | 60 | 183 | 136 | 136 | 176 | 210 | 240 | 8 | 18 | 25 | 207 | 40 | 89 | 118 | 3/8" |
| 55 / 60 | 70 | 199 | 151 | 136 | 176 | 210 | 240 | 8 | 18 | 25 | 224 | 40 | 97 | 124 | 3/8" |
| 65 / 70 | 80 | 210 | 166 | 136 | 176 | 210 | 240 | 8 | 18 | 25 | 236 | 42 | 97 | 124 | 3/8" |
| 75 / 80 | 95 | 268 | 200 | 165 | 204 | 240 | 275 | 8 | 22 | 25 | 255 | 43 | 97 | 129 | 1/2" |
| 85 / 90 / 95 | 115 | 260 | 200 | 165 | 204 | 240 | 275 | 8 | 22 | 25 | 276 | 43 | 116 | 148 | 1/2" |
| 100 / 105 | 125 | 270 | 210 | 184 | 234 | 270 | 305 | 8 | 22 | 28 | 285 | 50 | 119 | 148 | 1/2" |
| 110 / 115 | 140 | 320 | 247 | 210 | 260 | 295 | 330 | 8 | 22 | 28 | 297 | 50 | 123 | 155 | 1/2" |
| 120 / 125 | 150 | 325 | 254 | 210 | 260 | 295 | 330 | 8 | 22 | 28 | 304 | 50 | 121 | 153 | 1/2" |
| 130 | 160 | 350 | 269 | 267 | 313 | 350 | 395 | 8 | 22 | 35 | 341 | 56 | 150 | 186 | 1/2" |
| 135 / 140 | 170 | 360 | 284 | 267 | 313 | 350 | 395 | 12 | 22 | 35 | 347 | 56 | 153 | 188 | 1/2" |
| 145 / 150 | 180 | 380 | 304 | 267 | 313 | 350 | 395 | 12 | 22 | 35 | 357 | 56 | 153 | 189 | 1/2" |
| 155 / 160 | 190 | 370 | 294 | 267 | 313 | 350 | 395 | 12 | 22 | 35 | 345 | 56 | 153 | 189 | 1/2" |
| 165 / 170 | 200 | 380 | 304 | 267 | 313 | 350 | 395 | 12 | 22 | 35 | 353 | 56 | 153 | 190 | 1/2" |
| 175 / 180 | 210 | 400 | 324 | 292 | 364 | 400 | 445 | 12 | 22 | 35 | 370 | 57 | 162 | 198 | 1/2" |
| 185 / 190 / 195 / 200 | 230 | 435 | 344 | 292 | 364 | 400 | 445 | 12 | 22 | 35 | 368 | 56 | 156 | 193 | 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)

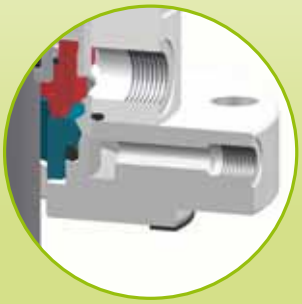
Sanitary flange (D)

Sanitary flange with cooling chamber (E)

GT 1924/GT 1923

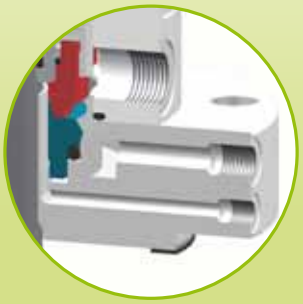
Alternative flanges for Double seal suitable for high pressure.
The cooling chamber flange is recommended for temperatures exceeding 250°C.

Flange with cooling chamber (C)



Sanitary flange (D)

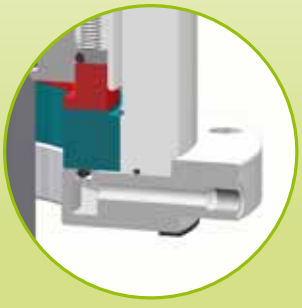
Sanitary flange with cooling chamber (E)



GT 1911/GT 1910

Alternative flanges for Double gas seal.

Flange with cooling chamber (C)



Sanitary flange (D)

Sanitary flange with cooling chamber (E)