

## GT 1924 A

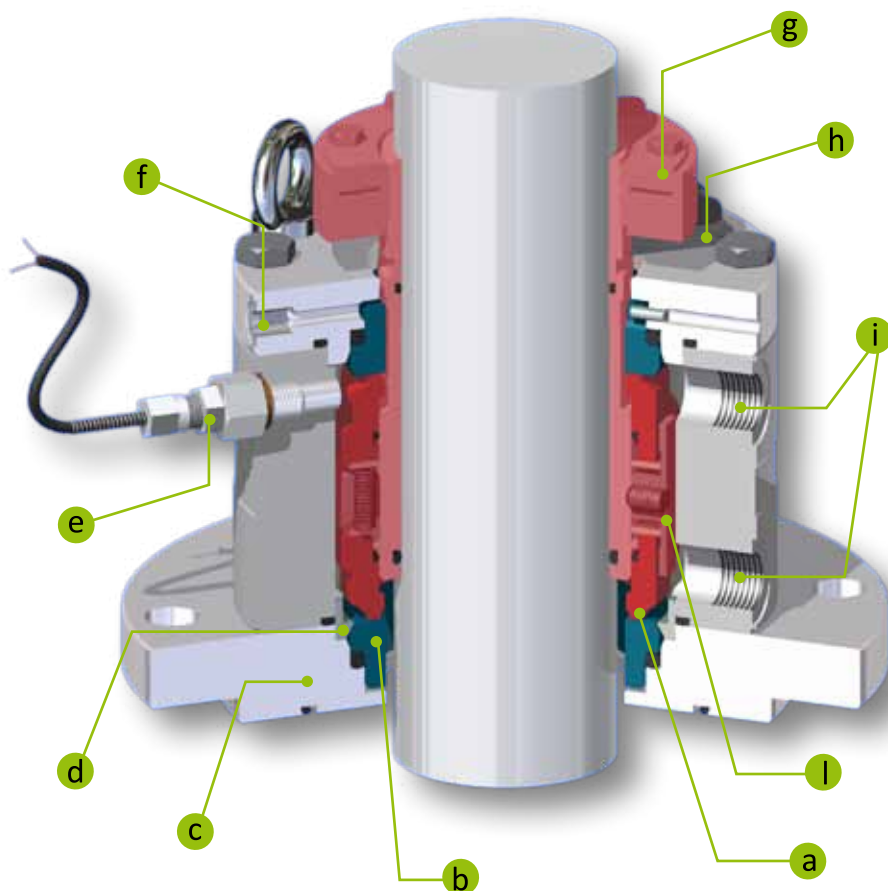
A preassembled, back-to-back double cartridge seal suitable for operation with a pressurised barrier fluid. A double balanced seal suitable for high working pressures and the ability to operate under reverse pressure if there is a loss of barrier fluid pressure.

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) Optional thermocouple for ATEX applications.
- f) Atmosphere leakage monitoring connection.
- g) Shrink disk drive to guarantee and maintain correct seal axial position under high process pressure conditions.
- h) Positioning device for easy, precise installation.
- i) Flushing connections designed to ensure air is always vented.
- l) Robust drive lugs that can tolerate run-out and vibration.

**\*NOTE:** barrier fluid pressure must always be higher than the process pressure with  $\Delta P$  as per operating limits.

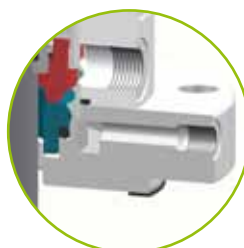


## Operating limits

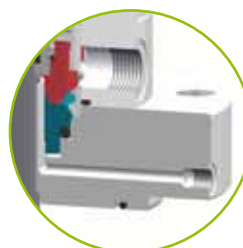
|                               |                        |
|-------------------------------|------------------------|
| <b>DIAMETER (mm)</b>          | <b>FROM 50 TO 250</b>  |
| <b>SPEED (m/s)</b>            | <b>≤ 20</b>            |
| <b>TEMPERATURE (°C)</b>       | <b>FROM -50 TO 250</b> |
| <b>ΔP=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

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.

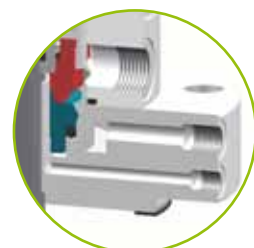
## OPTIONAL FLANGES (see pg. 41)



Flange with cooling chamber



Sanitary flange



Sanitary flange with cooling chamber



FOOD  
INDUSTRY



CHEMICAL  
INDUSTRY



PHARMACEUTICAL  
INDUSTRY



WET  
LUBRICATED

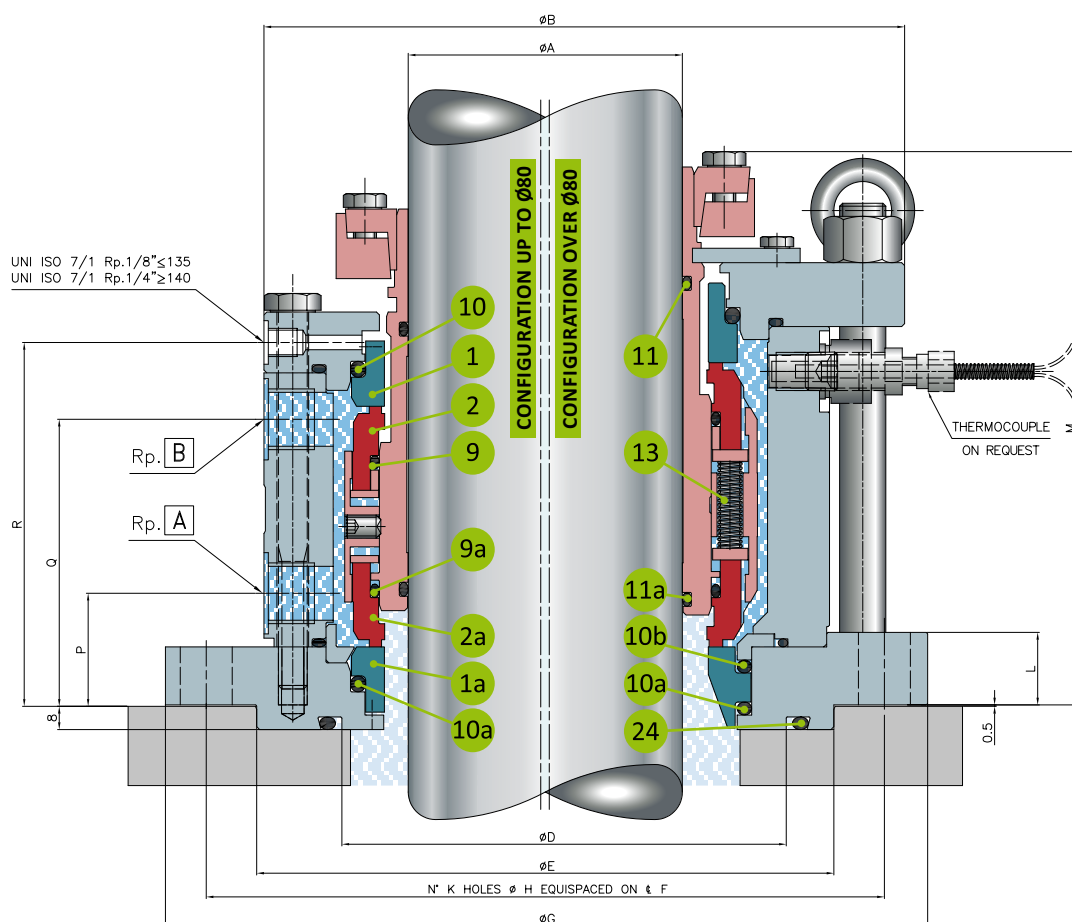


BI-DIRECTIONAL



TOP  
ENTRY

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 + 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 1924 is available in version GT 1934, 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.

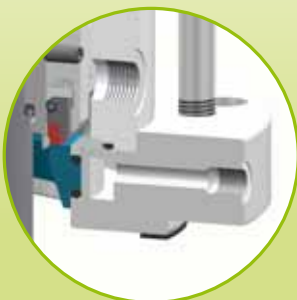
| A<br>h6        | SEAL<br>Ø | B   | D   | E<br>e8 | F   | G   | K<br>HOLES | H<br>Ø | L  | M   | P  | Q   | R   | Rp.A-B<br>UNI ISO 7/1 |
|----------------|-----------|-----|-----|---------|-----|-----|------------|--------|----|-----|----|-----|-----|-----------------------|
| 35<br>40       | 50        | 124 | 76  | 130     | 155 | 185 | 6          | 18     | 20 | 148 | 37 | 84  | 107 | 3/8"                  |
| 45<br>50       | 60        | 138 | 83  | 135     | 165 | 195 | 6          | 18     | 20 | 156 | 37 | 89  | 115 | 3/8"                  |
| 55<br>60       | 70        | 160 | 114 | 165     | 195 | 225 | 6          | 18     | 20 | 165 | 37 | 97  | 122 | 3/8"                  |
| 65<br>70       | 80        | 170 | 127 | 180     | 210 | 240 | 6          | 18     | 20 | 177 | 38 | 97  | 123 | 3/8"                  |
| 75<br>80       | 95        | 180 | 126 | 180     | 215 | 245 | 8          | 18     | 20 | 177 | 39 | 99  | 126 | 1/2"                  |
| 85<br>90<br>95 | 115       | 249 | 167 | 200     | 235 | 265 | 8          | 18     | 25 | 192 | 43 | 116 | 144 | 1/2"                  |
| 100<br>105     | 125       | 270 | 173 | 210     | 260 | 290 | 8          | 18     | 30 | 200 | 50 | 119 | 147 | 1/2"                  |
| 110<br>115     | 140       | 310 | 186 | 240     | 285 | 320 | 8          | 22     | 28 | 209 | 50 | 123 | 154 | 1/2"                  |
| 120<br>125     | 150       | 315 | 210 | 250     | 285 | 320 | 8          | 22     | 28 | 210 | 50 | 121 | 153 | 1/2"                  |
| 130<br>135     | 160       | 340 | 210 | 260     | 305 | 340 | 8          | 22     | 35 | 242 | 56 | 150 | 182 | 1/2"                  |
| 140<br>145     | 170       | 345 | 229 | 285     | 330 | 365 | 12         | 22     | 35 | 247 | 56 | 153 | 185 | 1/2"                  |
| 145<br>150     | 180       | 370 | 254 | 300     | 340 | 380 | 12         | 22     | 35 | 247 | 56 | 153 | 187 | 1/2"                  |
| 155<br>160     | 190       | 370 | 267 | 310     | 350 | 390 | 12         | 22     | 35 | 247 | 56 | 153 | 187 | 1/2"                  |
| 165<br>170     | 200       | 380 | 280 | 320     | 360 | 400 | 12         | 22     | 35 | 257 | 56 | 153 | 187 | 1/2"                  |
| 175<br>180     | 210       | 390 | 290 | 330     | 370 | 410 | 12         | 22     | 35 | 266 | 56 | 161 | 195 | 1/2"                  |
| 185<br>190     | 220       | 400 | 300 | 340     | 380 | 420 | 12         | 22     | 35 | 261 | 56 | 156 | 190 | 1/2"                  |
| 195<br>200     | 230       | 410 | 310 | 350     | 390 | 430 | 12         | 22     | 35 | 261 | 56 | 156 | 190 | 1/2"                  |
| 210<br>220     | 250       | 420 | 311 | 360     | 400 | 440 | 12         | 22     | 35 | 261 | 56 | 156 | 190 | 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](mailto: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.

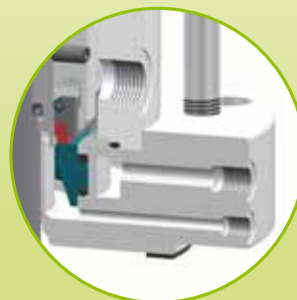
Flange with  
cooling chamber (C)



Sanitary flange (D)



Sanitary flange  
with cooling  
chamber (E)



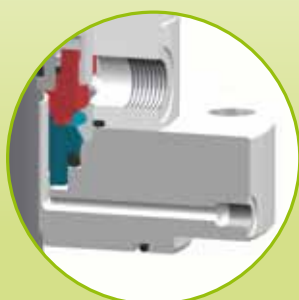
### GT 1924/GT 1923

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

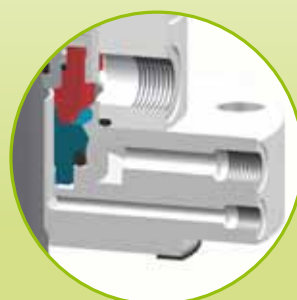
Flange with  
cooling chamber (C)



Sanitary flange (D)



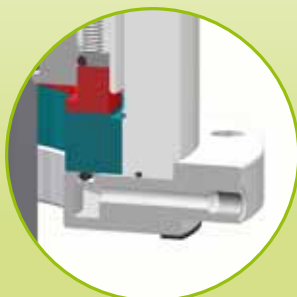
Sanitary flange  
with cooling  
chamber (E)



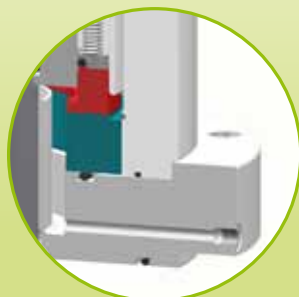
### GT 1911/GT 1910

Alternative flanges for Double gas seal.

Flange with  
cooling chamber (C)



Sanitary flange (D)



Sanitary flange  
with cooling  
chamber (E)

