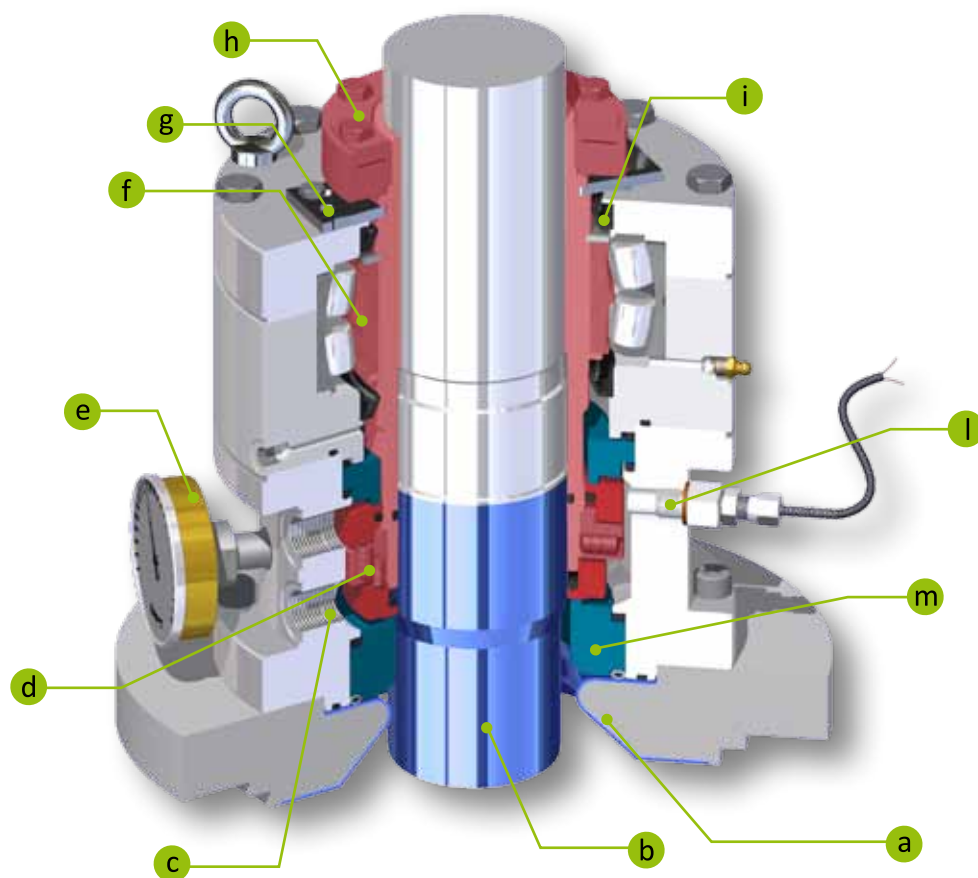


## GT 1165 A

Latest generation cartridge solution for enamelled (glass lined) mixers, used for highly aggressive processes and where easy cleaning is required for surfaces in contact with the process. A double back-to-back seal with chemically inert wetted parts, the seal can be supplied with either a ball or roller bearing. The seal is designed to be pressurised with a compatible barrier fluid which prevents harmful emissions to the atmosphere and is balanced to operate under reverse pressure for short periods. Dry running configurations of this seal are also available.



## Characteristics

- a) Flange with enamelled wetted surfaces to prevent corrosion.
- b) Enamel coated shaft to prevent corrosion.
- c) Liquid or gas flushing connections designed to facilitate venting.
- d) Multiple springs for uniform face loading.
- e) Thermometer.
- f) Ball or roller bearing, to ensure minimum seal run-out.
- g) Positioning device for easy, precise installation.
- h) Shrink disk to ensure reliable seal drive.
- i) Bearing protection ring to contain lubrication.
- l) Optional thermocouple for ATEX applications.
- m) Solid graphite stationary seal ring, retained to prevent blow out during reverse pressure.

**\*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 40 TO 160</b>
<b>SPEED (m/s)</b>	<b>≤ 8</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 10</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.



CHEMICAL  
INDUSTRY



PHARMACEUTICAL  
INDUSTRY



GAS NON-CONTACT-  
ING UPON REQUEST



DRY CONTACTING  
UPON REQUEST



WET  
LUBRICATED

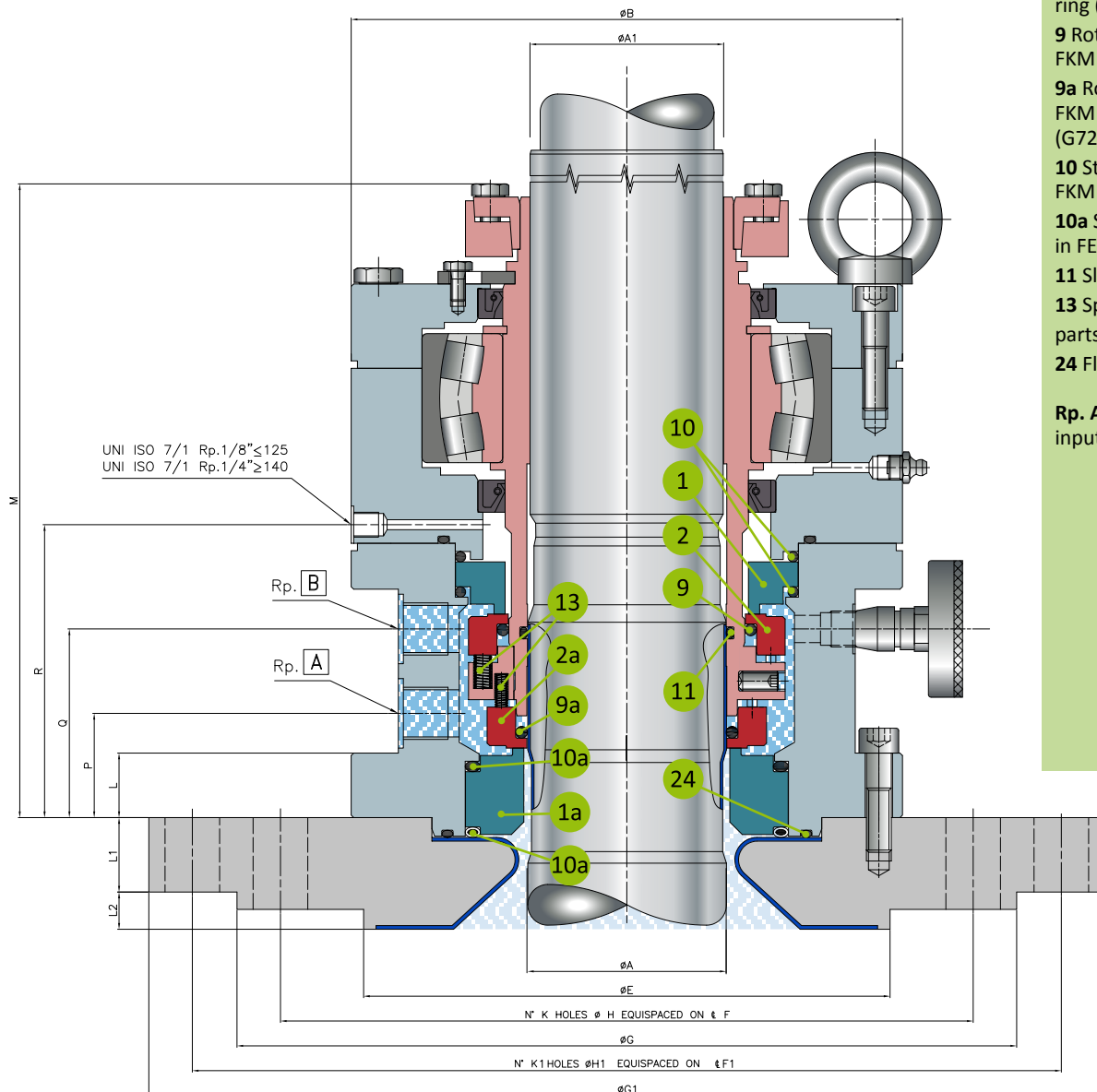


BI-DIRECTIONAL



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** Graphite stationary ring (Z31)
- 1a** Graphite stationary ring (Z31)
- 2** Silicon carbide rotating ring (U31)
- 2a** Silicon carbide rotating ring (U31)
- 9** Rotating seal gasket in FKM (V)
- 9a** Rotating seal gasket in FKM (V), EPDM (D) or FFKM (G720)
- 10** Stationary ring gasket in FKM (V)
- 10a** Stationary ring gasket in FEP (V2) or FKM (V)
- 11** Sleeve gasket in FKM (V)
- 13** Springs and other metal parts in Hastelloy (I)
- 24** Flange gasket in FKM (V)

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

ØA	SEAL	ØA1	B	D	E	F	F1	G	G1	K	K1	H	H1	L	L1	L2	M	P	Q	R	Rp.A-B
h8	ø	h6	ø	H7/g6	ø			d9	ø	HOLES	HOLES	ø	ø		±0,1						UNI ISO 7/1
40	40	38	130	110	102	145		110	175	4		18		20	25	15	206	33	79	118,5	3/8"
50	50	48	155	116	138	210		176	240	8		18		25	25	15	214,5	40	77	119	3/8"
60	60	58	165	160	188	240		204	275	8		22		39	25	15	217,5	25	77	120	3/8"
80	80	78	222	157	212	270		234	305	8		22		26	30	15	285,3	42	76	118	1/2"
100	100	98	255	185	268	350		313	395	12		22		33	30	15	291,5	50	110,5	149,5	1/2"
125	125	120	265	210	320	350	460	422	505	12	4	22	22	41	28	20	321,5	25	132	178,5	1/2"
140	140	135	295	226	320	350	460	422	505	12	4	22	22	41	28	20	375	25	147	197	1/2"
160	160	150	315	250	320	350	460	422	505	12	4	22	22	41	28	20	363,3	25	147	198	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)