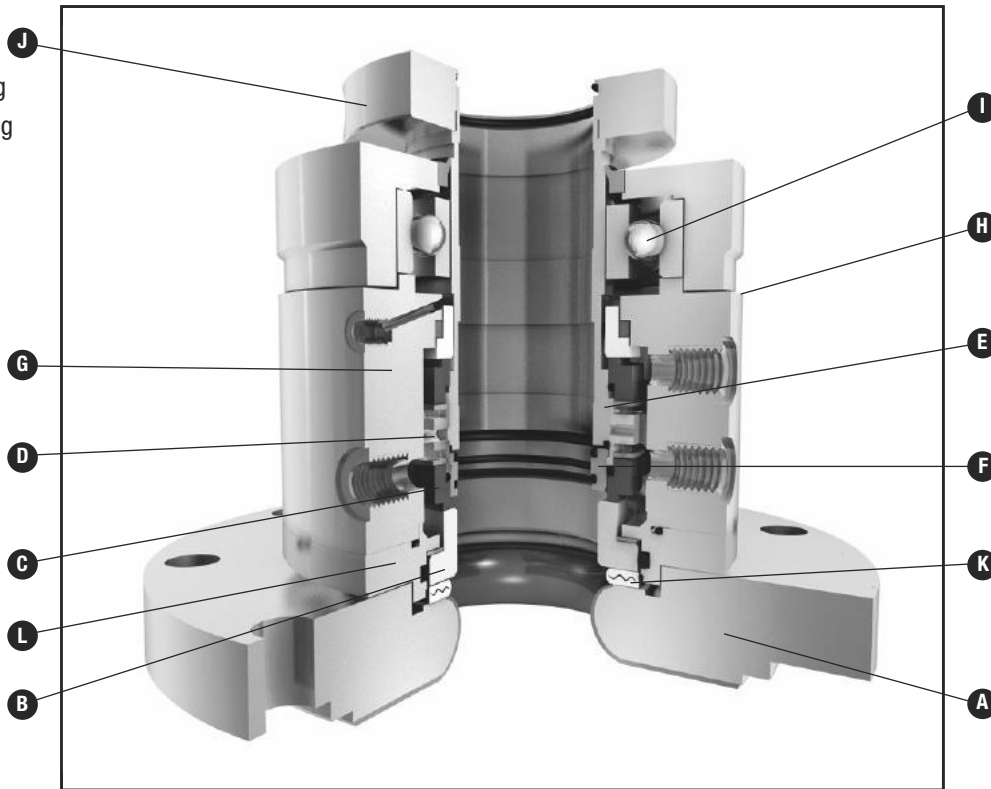


# TYPE CK736

## FOR GLASS LINED VESSELS

Technical Specification

- A – Glass Lined DIN Flange
- B – Seat/Mating Ring
- C – Face/Primary Ring
- D – Retainer
- E – Sleeve
- F – Ceramic Front Sleeve
- G – Housing
- H – Gauging Edge
- I – Bearing
- J – Clamp Ring
- K – PTFE Gasket
- L – Flange Adaptor



### Product Description

Type CK736 vessel and agitator seals are factory-tested dual cartridge seals with an integrated radial bearing, compliant with vessel seal standard DIN 28138 Parts 2 and 3. They are designed for use on glass lined agitator vessels to DIN 28136, to fit on a mounting flange to DIN 28137-2 and agitator shaft end dimensions to DIN 28159. All product wetted parts are non metal materials. Both liquid lubricated and dry running versions are available.

All versions are suitable for operation in potentially explosive atmospheres. Depending on individual explosion protection requirements, the seal operating limits may differ from the values given in this data sheet. Consult John Crane for more information.

### Performance Capabilities\*

- Speed 0 to 570 rpm (up to 430 rpm for dry running)
- Vessel pressure: vacuum to 16 bar(g)
- Barrier pressure: maximum 18 bar(g)
- Temperature: -40°C to +200°C
- Shaft run out: axial: +/- 1.0 mm

\*Maximum values (dependant on combination of operating conditions).  
For details see chart operating limits in family brochure B-DINVesselSeals/Eng.  
For operating conditions outside these limits consult John Crane.

### Design Features

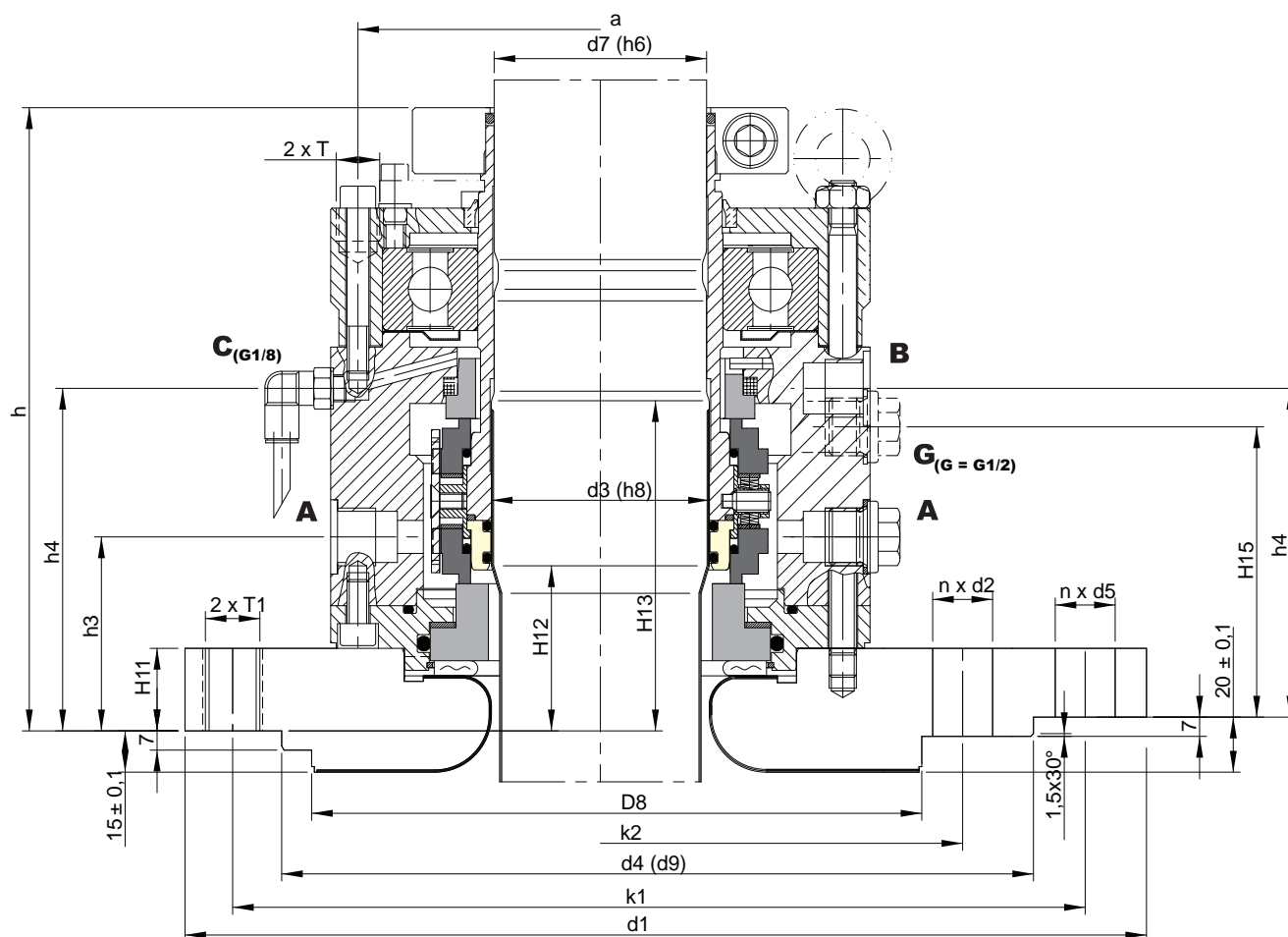
- Dual cartridge seal to DIN 28138 for glass lined vessels
- Fits mounting flange to DIN 28137-2 and shaft end dimensions to DIN 28159
- Back-to-back seal arrangement with unbalanced faces
- Liquid lubricated or dry running (D) versions available
- Reverse pressure capabilities inboard
- Integrated radial bearing for optimal running precision
- Product wetted components made of non metal materials
- Special designs and material options available on request
- Cooling flange or cooling jacket available on request
- Limits of seal operation without barrier pressure available on request
- Suitable for application in explosive areas. Certificates of -conformity according to European Directive 94/9/EC (ATEX) Cat. 1, 2 and 3 available on request

# TYPE CK736

## FOR GLASS LINED VESSELS

Technical Specification

### Type CK736 Typical Arrangement/Dimensional Data (mm)



#### CK736

Liquid lubricated

#### CK736 D

Dry running, easy barrier gas supply with dry nitrogen

Seal Size	Flange Connectivity			Fastening						Cartridge Dimensions								Connections & Mounting			
d3	d1	d4	D8	k1	n x d2	bolt	k2	n x d5	bolt	d7	h	h3	h4	H11	H12	H13	H15	A & B	a	T	T1
40	175	110	102	145	4 x 18	M16	-	-	-	38	193	50	114	27	50	100	106	G 3/8	126	M12	M16
50	240	176	138	210	8 x 18	M16	-	-	-	48	199	50	114	27	50	100	104	G 3/8	136	M12	M16
60	275	204	188	240	8 x 22	M20	-	-	-	58	205	56	114	25	50	110	104	G 3/8	145	M12	M20
80	305	234	212	270	8 x 22	M20	-	-	-	78	227	71	124	30	60	120	110	G 1/2	178	M16	M20
100	395	313	268	350	12 x 22	M20	-	-	-	98	236	67	134	30	60	120	120	G 1/2	208	M16	M20
125	505	422	320	460	4 x 22	M20	350	12 x 22	M20	120	255	66	139	25	60	140	126	G 1/2	235	M20	M20

Dimensions according to DIN 28138 Parts 1 & 3 and DIN 28154 - special dimensions and designs possible.

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