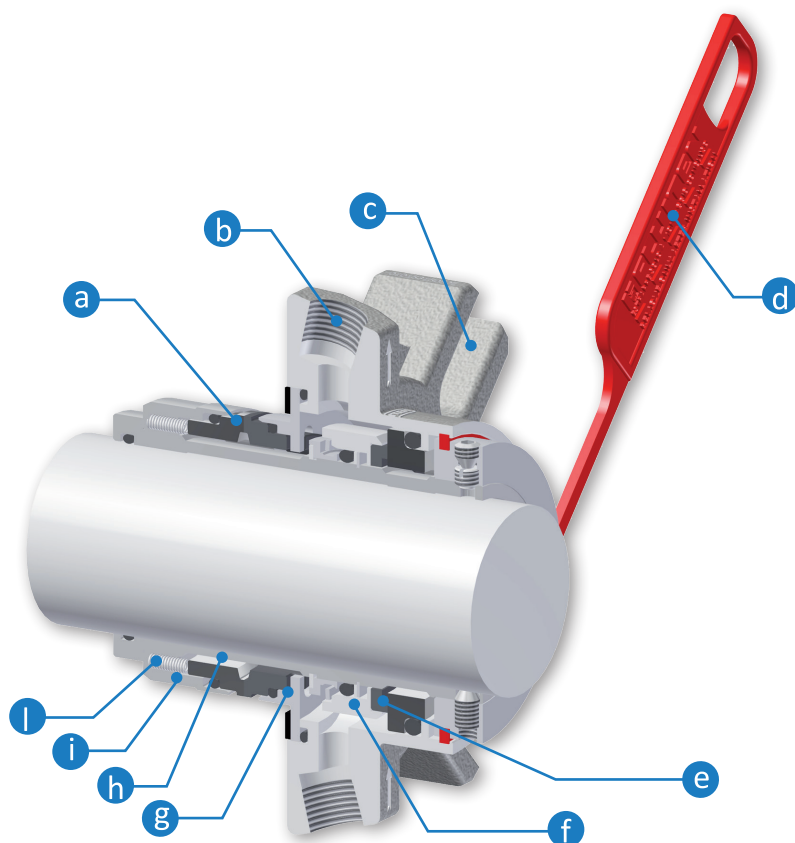


FLUICART CB3D - CB4D

Double cartridge mechanical seal with double hydraulic balancing suitable for services with pressurised auxiliary fluid or for auxiliary fluid at atmospheric pressure (see operating limits). Ideal for heavy-duty applications with dangerous liquids, at high temperatures and pressure.

Easy installation thanks to the new Fluistrip positioning device and to the flange slots which adapt to different stuffing boxes.

The reinforced sleeve tolerates higher shaft run-out and adapts to mixers, dryers, mills and also to assembly directly onto the pump shaft.



FEATURES

a) Double balanced seal for enhanced performance, able to tolerate momentary pressure reversals.

b) Flushing connections for auxiliary systems (PLAN 52 or PLAN 53) or flushing from external source (PLAN 54 or PLAN 55).

c) Slotted flange for more flexible mounting.

d) Fluistrip: positioning device for correct and easy installation, to be pulled off after assembly but before starting-up the machine.

e) Auxiliary seal in graphite/silicon carbide with flushing liquid outside the seal surfaces in order to prevent overheating.

f) Bidirectional pumping device for flushing liquid.

g) Patented rotating-ring drive device on atmosphere side with reduced axial dimensions.

h) Thicker sleeve to tolerate high run-out values and to prevent deformations during maintenance and assembly.

i) Sliding drive device compensates for any movement and maintains contact with rotating ring.

l) Springs outside the product and clean profile for enhanced reliability even with viscous products that crystallise, and also in processes which require thorough cleaning.

*NOTE: If Plan 53A or 53B selected, barrier pressure cannot be higher than 25 bar with max ΔP with process of 2 ÷ 2,5 bar

Operating limits

DIAMETER [mm]	FROM 20 TO 90
SPEED [m/s]	≤ 12
TEMPERATURE [°C]	FROM -50 TO 250
ΔP= 2 ÷ 2,5 bar See NOTE*	
PROCESS PRESSURE [bar]	VACUUM TO 25

Operating conditions which differ from those indicated can be evaluated by our sales engineers. Speed and pressure values indicated are not strictly prescribed; they should be determined by calculating their PV while bearing in mind the temperature as well as the physical and chemical characteristics of the sealed fluid. Therefore it is not possible to combine maximum values of pressure, speed, temperature and shaft diameter.

Operating limits CB4D

SPEED (m/s)	≤ 1,5
TEMPERATURE (°C)	FROM -50 TO 150
ΔP= 2 ÷ 2,5 bar See NOTE*	
PROCESS PRESSURE (bar)	VACUUM TO 3

The faces of the CB4D seal (equivalent to the CB3D seal shown here) are designed for dry running. The seal surfaces in contact with the process are free of fissures or scratches to allow easy cleaning and sterilisation. When treated with electro polishing the CB4D fulfils the requirements for CIP (clean in place) and SIP (sterilization in place).



FOOD
INDUSTRY



CHEMICAL
INDUSTRY



PHARMACEUTICAL
INDUSTRY



OIL & GAS
INDUSTRY



POWER
INDUSTRY



BI-DIRECTIONAL



PUMPS



BOTTOM
ENTRY

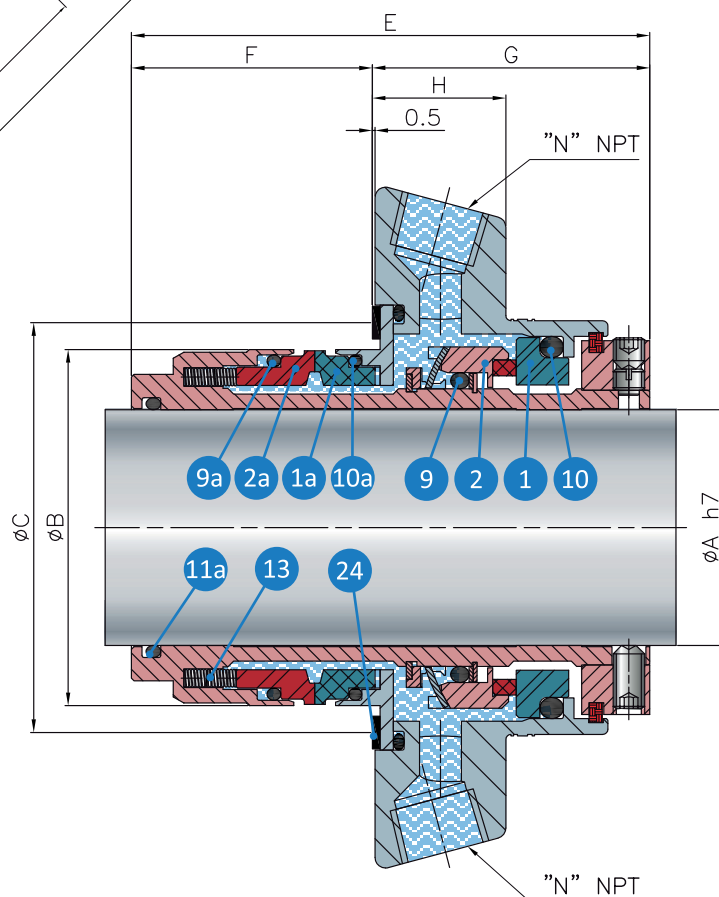
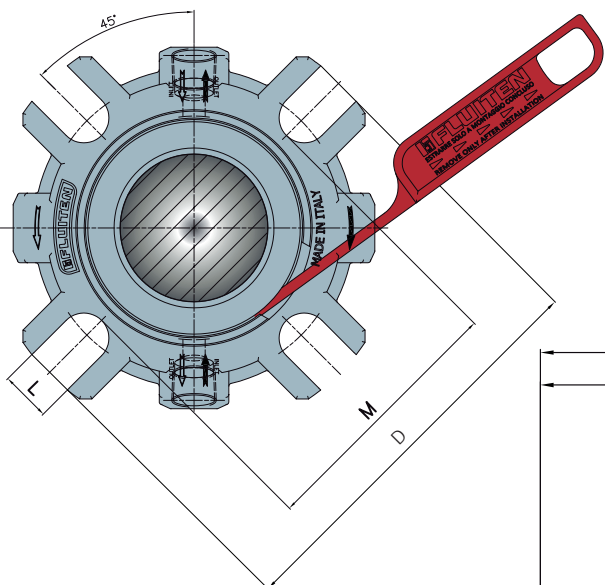


SIDE
ENTRY



TOP
ENTRY

Images and dimensions may differ slightly from the standard configuration or refer to different markets. The product may be subject to technical or commercial modification without notification.


**COMPONENT KEY
(standard materials)**

- 01** Solid stationary ring in silicon carbide (U31)
 - 01a** Solid stationary ring in graphite (Z11) or silicon carbide (U31) or tungsten carbide (K21)
 - 02** Solid rotating ring in AISI 316 + graphite (Z32)
 - 02a** Solid rotating ring in silicon carbide (U31) or tungsten carbide (K21)
 - 09** Rotating ring gasket in FKM (V) or EPDM (D) or FFKM (G720)
 - 09a** Rotating ring gasket in FKM (V) or EPDM (D) or FFKM (G720)
 - 10** Stationary ring gasket in FKM (V) or EPDM (D) or FFKM (G720)
 - 10a** Stationary ring gasket in FKM (V) or EPDM (D) or FFKM (G720)
 - 11a** Product side sleeve gasket FKM (V) or EPDM (D) or FFKM (G720)
 - 13** Springs in Hastelloy (I)
 - 24** Flange gasket in Carbo Fiber (A2) or PTFE (T)
- All other parts in AISI 316 (E)
- "N" NPT:** auxiliary liquid inlet/outlet connections

SEAL DIAMETER	øA	øB	øC		øD	E	F	G	H	L	M	N
			Min	Max								
020	20	43	44	51	98	96	46	50	25,5	14	63	1/4"
022	22	46	47	52	98	96	46	50	25,5	14	63	1/4"
025	25	48	49	56	98	96	46	50	25,5	14	65	1/4"
028	28	50	51	57	106	96	46	50	25,5	14	67	1/4"
030	30	53	54	61,5	106	97	46	51	25,5	14	72	1/4"
032	32	56	57	66	120	98	46	52	25,5	14	76	1/4"
033	33	56	57	66	120	98	46	52	25,5	14	76	1/4"
035	35	58	59	68	120	98	46	52	25,5	14	76	1/4"
038	38	61	62	70,5	127	98	46	52	25,5	14	81	3/8"
040	40	63	64	73	135	98	46	52	25,5	14	81	3/8"
043	43	66	67	75	135	98	46	52	25,5	14	87	3/8"
045	45	68	69	78	148	99	46	53	25,5	14	87	3/8"
048	48	73	74	83	148	99	46	53	25,5	18	94	3/8"
050	50	73	74	83	148	99	46	53	25,5	18	94	3/8"
053	53	78	79	91	158	99,5	46	53,5	25,5	18	102	3/8"
055	55	78	79	91	158	99,5	46	53,5	25,5	18	102	3/8"
058	58	83	84,5	98,5	163	99,5	46	53,5	25,5	18	112	3/8"
060	60	83	84,5	98,5	163	99,5	46	53,5	25,5	18	112	3/8"
063	63	93	95	108	178	99,5	46	53,5	25,5	18	125	3/8"
065	65	93	95	108	178	99,5	46	53,5	25,5	18	125	3/8"
068	68	98	100	113	185	106	46	60	28,5	18	130	3/8"
070	70	105	107	118	193	115,5	52	63,5	28,5	18	135	3/8"
075	75	110	113	123	198	115,5	52	63,5	28,5	22	140	3/8"
080	80	115	118	130	205	115,5	52	63,5	28,5	22	145	3/8"
085	85	121	124	135	208	117,5	54	63,5	28,5	22	150	3/8"
090	90	126	129	140	218	117,5	54	63,5	28,5	22	155	3/8"

All the measures are expressed in millimeters. For measurements differing from those listed or measurements in inches, please contact us at info@fluiten.com