



Tenute Meccaniche Fluicart®
Fluicart® Mechanical Seals

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HISTORY

1980s

Fluiten develops and produces the first series of standardised cartridge seals for ISO and ANSI pumps:

- TCS, single seal
- TCD, double seal

The solutions are preassembled to the required length and include shaft sleeve and flange with DIN dimensions.

The success of this product is due to the ease of installation and reduced operational costs (less maintenance and longer life).



FIGURE 1

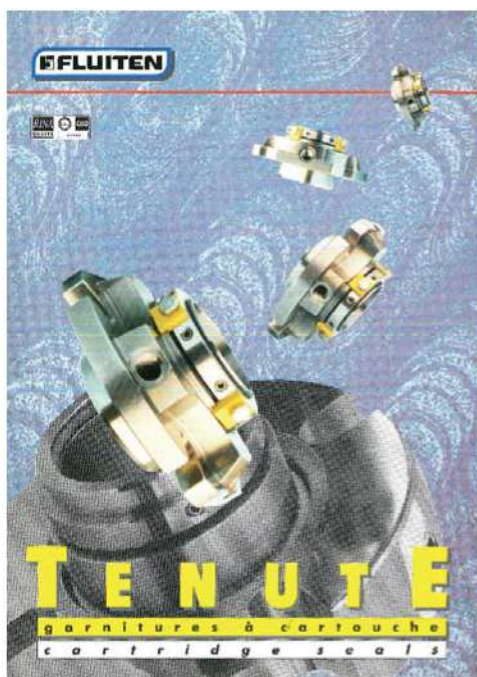


FIGURE 2

1990s

Introduction of the C series seals, first of all the C2S (single) and C2D (double), followed by a full range of C series products, all with:

- Springs fitted in the rotating part of the seal in order to improve the circulation of the fluid resulting in increased product life.
- Dynamic pin drive to compensate for the movement and wearing of the rotating rings, to avoid breakage.



FIGURE 3

NOTES

FIGURE 1

TCS and TCD mechanical seals

The first preassembled cartridge seals designed and produced for single and double configuration.

FIGURE 2

TCS and TCD series catalogue from the 80s.

FIGURE 3

C2D mechanical seal, an evolution of the TCD.

2000s

Fluten develops version 3 with reinforced sleeve, suitable for installation directly onto the machine shaft; the envelop and standard measurements remain unaltered.

The increased thickness allows for the sleeve to be thinned down under the rings so allowing for higher run-out values which are typically found in mixers, and also in pumps in certain applications.

2006 - to the present

Fluten introduces the new Fluicart range:

- Double balanced product side seal/tolerates pressure reversals while maintaining the contact between seal faces (fluid reverse pressure and double balanced)
- Atmosphere side balanced seal.



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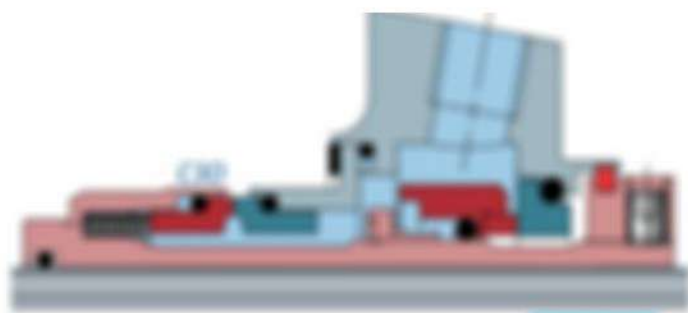


FIGURE 4

NOTES

FIGURE 4
C20 and C30 seal comparison



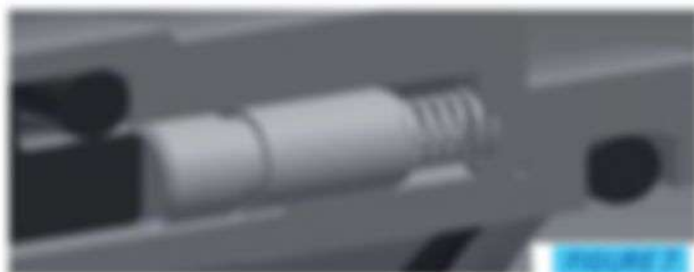
FIGURE 5

NOTES

FIGURE 5 and 6 C20-rings
The rotating and stationary rings are double balanced

2) The compensating dynamic drive device of the product side rotating ring guarantees continuous contact between the seal faces, even after long periods of operation. The drive pin adapts to the movements of the ring and so remains in the correct position and prevents damage to the housing seal.

2) The patented drive system of the auxiliary seal allows for a smaller mechanical seal envelope, as required by pump manufacturers. The two eccentric rings, blushed with the sleeve, guarantee extreme

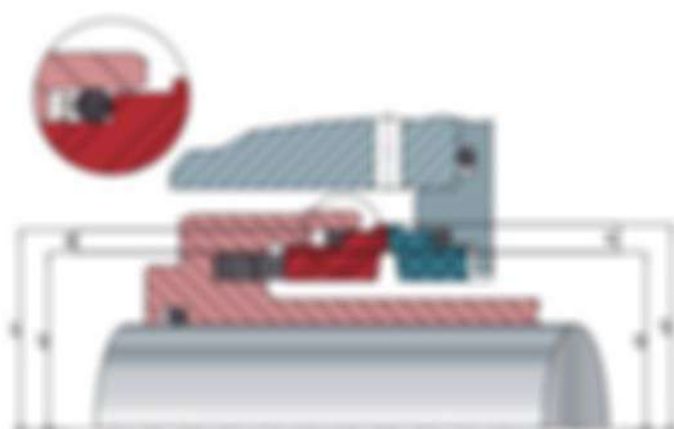


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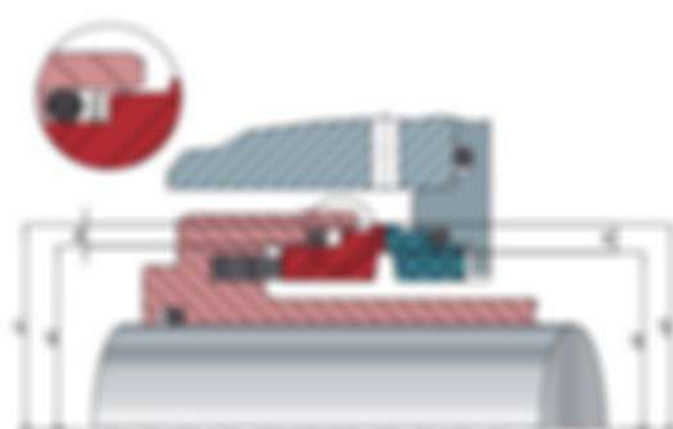
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PROCESSED PRESSURE = BARREN LIQUID PRESSURE

2002年 第 1 期 第 10 页

33 = $(27^2 - 27^2) \times 1 = 0$ 33 = Inside surface of shell
the fluid pressure acts

[illegible]
$$\text{VAPOR PRESSURE} = \text{SURFACE LIQUID PRESSURE}$$

● ● ●

$$\Delta E = (E^{\text{int}} - E^{\text{ext}})^2 \approx 0 \quad \Delta E = \text{kinetic surface energy effect}$$
$$10^4 \times (10^3 - 10^2)^{-1} \times 10^{-1} = 10^{-2} \quad 10^4 \times \text{binding constant surface}$$

Keywords: child sexual abuse; disclosure; disclosure strategies

EXPLOSIVE ATMOSPHERE AND STERILE ENVIRONMENTS

ATEX

Fluiten, member of the European Sealing Association (ESA), supports the position of the European Commission's ATEX Standing Committee. This defines mechanical seals as components of a machine and not fittings as per the ATEX 2014/34/EU 95 directive (previously edition 94/9/EC). The exception is when the seal is used in Zone 0 or when the seal is designed to prevent detonation. Fluiten mechanical seals that are selected for use in potentially explosive

EC 1995-2004 & FDA REGULATIONS

The pharmaceutical, bio-pharmaceutical and food industries are subject to increasingly strict regulation:

- Plant security - the safety of operators and environment must be assured.
- Material compatibility and migration - considering the nature of the processes, the materials used for the machines and their components must not contaminate the processes when in contact.
- Sterility in processes - for health reasons this is of



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FIGURE 24 EC 1995-2004 code example

FLUCART C2KC

This seal is designed for service pumps. The simple and quick assembly helps to optimize customers' operational costs and eliminates installation errors. The Flucart C2KC is by far the cartridge seal with the fewest components thanks to the revolutionary spring with variable geometry and drive lugs, these guarantee the mechanical load on the seal surfaces as well as the drive of the rotating ring. The result Fluiten is able to offer particularly competitive pricing for the seals and spare parts.

FEATURES

• Rotating connection from the pump discharge (PUBK 11) or feeding from external source (PUBK 12).

• 16° bevel flange for more flexible mounting.

• 12 Flucart positioning device for correct seal ring installation, to be pulled off after assembly, but before starting up the machine.

• 40° bevel seal ring in PTFE, as an alternative to 15° rings, for greater chemical compatibility.

• 12° bevel drive and pulling device, straight and offset.



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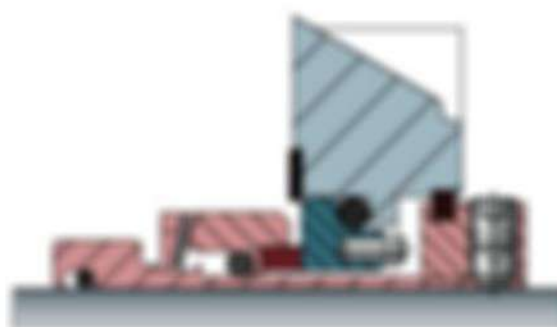


Operating limits

DIMENSION (mm)	FROM 25 TO 200
SPEED (m/s)	0.52
TEMPERATURE (°C)	FROM -50 TO 200
WORKING PRESSURE (bar)	UNTIL 10 TO 12

Operating conditions which differ from those indicated can be achieved by our sales engineers. Speed and pressure values indicated are not strictly guaranteed. They should be determined by consulting the specific 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.

MODEL C2K SUITABLE FOR PLAN 01 AND 02 AVAILABLE



From 2000/0000



From 2000/0000



From 2000/0000



From 2000/0000



From 2000/0000



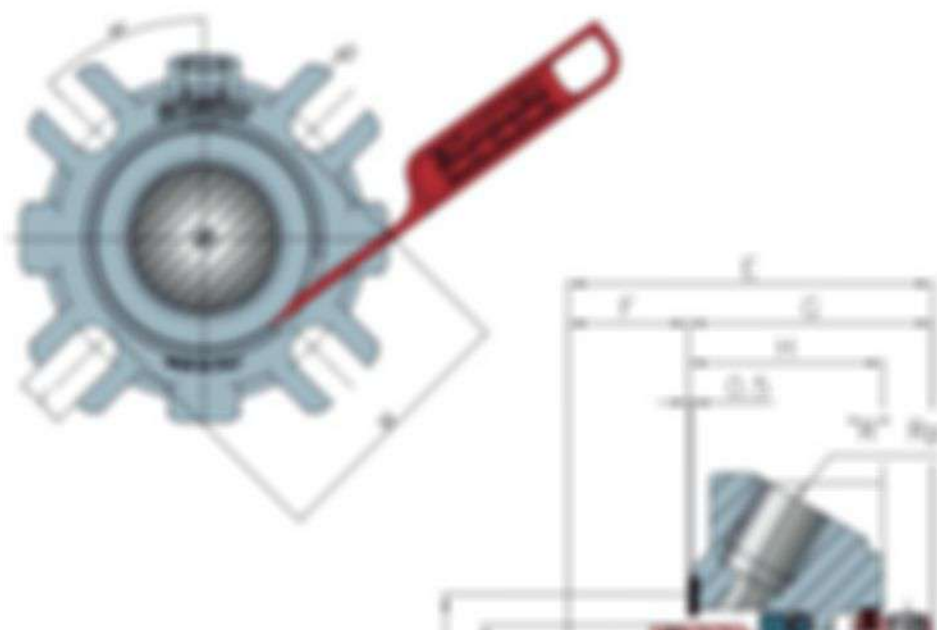
From 2000/0000



From 2000/0000



From 2000/0000



COMPONENTS (Standard materials)

- 1. Stationary ring in silicon carbide (SiC)
- 2. Rotating ring in AISI 316 stainless steel (270) or AISI 304 stainless steel (270)
- 3. Rotating ring gasket in AISI 316 stainless steel or Fluoropolymer (F100) (270)
- 4. Stationary ring gasket in AISI 316 stainless steel or Fluoropolymer (F100) (270)
- 5. Product side O-ring in AISI 316 stainless steel or Fluoropolymer (F100) (270)
- 6. Springs in superalloy (270)



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Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"
1/2"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"
3/4"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	7"
1"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	7"	8"
1 1/4"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	7"	8"	9"
1 1/2"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	7"	8"	9"	10"
2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	7"	8"	9"	10"	11"
2 1/2"	2 1/2"	3"	3 1/2"	4"	5"	6"	7"	8"	9"	10"	11"	12"
3"	3"	3 1/2"	4"	5"	6"	7"	8"	9"	10"	11"	12"	13"
3 1/2"	3 1/2"	4"	5"	6"	7"	8"	9"	10"	11"	12"	13"	14"
4"	4"	4 1/2"	5"	6"	7"	8"	9"	10"	11"	12"	13"	14"
5"	5"	5 1/2"	6"	7"	8"	9"	10"	11"	12"	13"	14"	15"
6"	6"	6 1/2"	7"	8"	9"	10"	11"	12"	13"	14"	15"	16"
7"	7"	7 1/2"	8"	9"	10"	11"	12"	13"	14"	15"	16"	17"
8"	8"	8 1/2"	9"	10"	11"	12"	13"	14"	15"	16"	17"	18"
9"	9"	9 1/2"	10"	11"	12"	13"	14"	15"	16"	17"	18"	19"
10"	10"	10 1/2"	11"	12"	13"	14"	15"	16"	17"	18"	19"	20"
11"	11"	11 1/2"	12"	13"	14"	15"	16"	17"	18"	19"	20"	21"
12"	12"	12 1/2"	13"	14"	15"	16"	17"	18"	19"	20"	21"	22"
13"	13"	13 1/2"	14"	15"	16"	17"	18"	19"	20"	21"	22"	23"
14"	14"	14 1/2"	15"	16"	17"	18"	19"	20"	21"	22"	23"	24"
15"	15"	15 1/2"	16"	17"	18"	19"	20"	21"	22"	23"	24"	25"
16"	16"	16 1/2"	17"	18"	19"	20"	21"	22"	23"	24"	25"	26"
17"	17"	17 1/2"	18"	19"	20"	21"	22"	23"	24"	25"	26"	27"
18"	18"	18 1/2"	19"	20"	21"	22"	23"	24"	25"	26"	27"	28"
19"	19"	19 1/2"	20"	21"	22"	23"	24"	25"	26"	27"	28"	29"
20"	20"	20 1/2"	21"	22"	23"	24"	25"	26"	27"	28"	29"	30"

All the measures are expressed in millimeters. For measurements differing from those listed in this table, please contact our Technical Sales Department at info@fluiten.nl

FLUCART CB25

Single cartridge seal with double hydraulic balancing and multiple springs outside the process. Designed for ISO pumps used at medium pressure and temperature. Installation is made easy with the new flange positioning device and the flange slots which adapt to different stuffing boxes. Enhanced reliability guaranteed by solid rings, designed with the use of finite element analysis (FEA).

FEATURES

- Grinding shoe device compensates for any clearance and maintains contact with the rotating ring.
- Double balanced seal for enhanced performance.
- 2 flange connections from the pump discharge (Flange 1) or flange from an external source (Flange 2).
- Flange positioning device for correct and easy installation. Is set without oil after assembly but before starting up the machine.
- 2 flange flanges for easy flexible mounting.
- 2 springs outside the product.



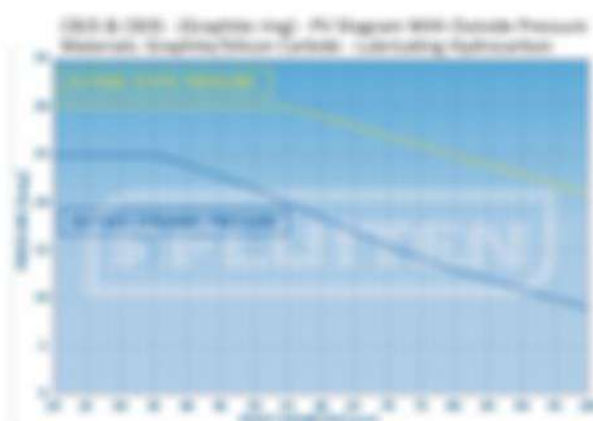
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Operating limits

DIMENSION (mm)	FROM 25 TO 100
SPEED (rpm)	≤ 50
TEMPERATURE (°C)	FROM -50 TO 250
WORKING PRESSURE (bar)	UNTIL 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 consulting the FEA 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.



ISO 15028



ISO 15029



ISO 15030



ISO 15031



ISO 15032



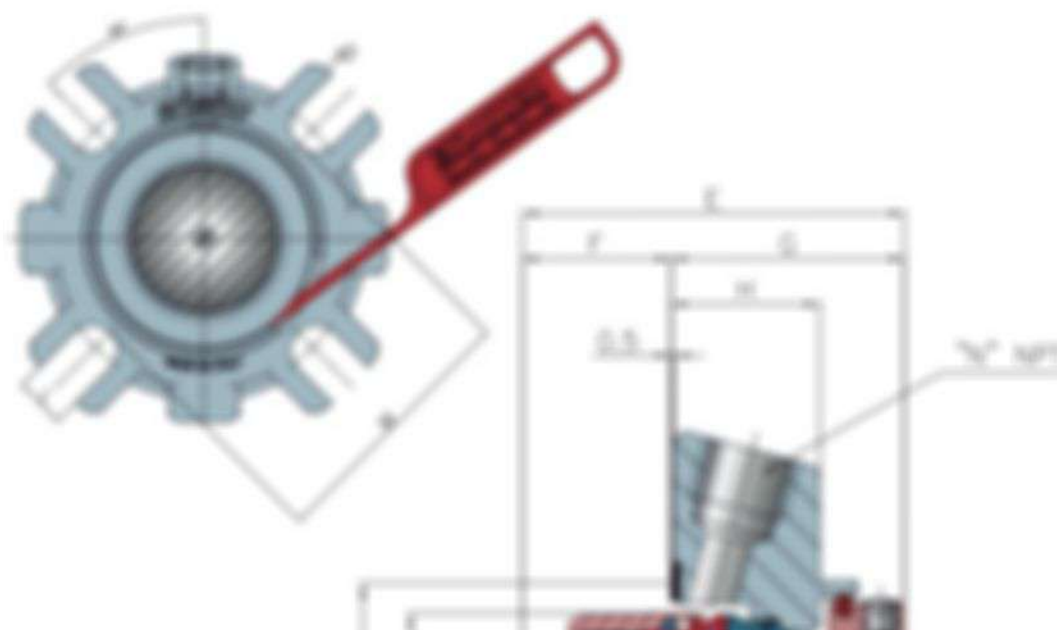
ISO 15033



ISO 15034



ISO 15035



COMPONENTS LIST (Standard materials)

- 1. Seal housing ring in graphite (2712) or silicon carbide (2713) or tungsten carbide (2714)
- 2. Seal rotating ring in silicon carbide (2713) or tungsten carbide (2714)
- 3. Floating ring gasket in O-RING (27) or metal (27) or O-RING (27)
- 4. Seal housing ring gasket in O-RING (27) or metal (27) or O-RING (27)
- 5. Product side gasket in O-RING (27) or metal (27) or O-RING (27)
- 6. Springs in stainless steel



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Model	100	150	200	250	300	350	400	450	500	550	600	650	700
100	100	150	200	250	300	350	400	450	500	550	600	650	700
150	150	150	200	250	300	350	400	450	500	550	600	650	700
200	200	200	200	250	300	350	400	450	500	550	600	650	700
250	250	250	250	250	300	350	400	450	500	550	600	650	700
300	300	300	300	300	300	350	400	450	500	550	600	650	700
350	350	350	350	350	350	350	400	450	500	550	600	650	700
400	400	400	400	400	400	400	400	450	500	550	600	650	700
450	450	450	450	450	450	450	450	450	500	550	600	650	700
500	500	500	500	500	500	500	500	500	500	550	600	650	700
550	550	550	550	550	550	550	550	550	550	550	600	650	700
600	600	600	600	600	600	600	600	600	600	600	600	650	700
650	650	650	650	650	650	650	650	650	650	650	650	650	700
700	700	700	700	700	700	700	700	700	700	700	700	700	700

All the measures are expressed in millimeters. For measurements differing from those listed in measurements in inches, please contact our Technical Sales Department at info@fluiten.nl

FLUCART CB2T

Single cartridge seal with double hydraulic balancing, multiple springs outside the process and a fixed containment bushing for vapour quench at low pressure. Designed for pumps with liquids that tend to crystallise on atmosphere side and which require steam washing.

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

FEATURES

• Grinding shoe design: compensates for any clearance and maintains contact with the rotating ring.

• Hydraulic balanced seal for enhanced performance.

• 12 Flustrip: compensates for the pump discharge fluctuates or fluctuates in fluctuation from an internal source (fluctuates or fluctuates).

• 12 Flustrip: compensates for steam washing.

• 12 Flustrip: positioning device for correct and easy installation, to be pulled off after assembly has been started up the machine.

• 12 Flustrip: auxiliary bushing for 12 Flustrip (change of bushing with a dedicated connection and Flustrip).

• 12 Flustrip: outside the product.



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Operating limits

DIMENSION (mm)	FROM 25 TO 300
SPEED (rpm)	6.52
TEMPERATURE (°C)	FROM -50 TO 250
WORKING PRESSURE (bar)	VACUUM TO 25

Operating conditions which differ from those indicated can be achieved by our sales engineers. Speed and pressure values indicated are not strictly prescribed. They should be determined by consulting the Flustrip 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.



Flustrip



Flustrip



Flustrip



Flustrip



Flustrip



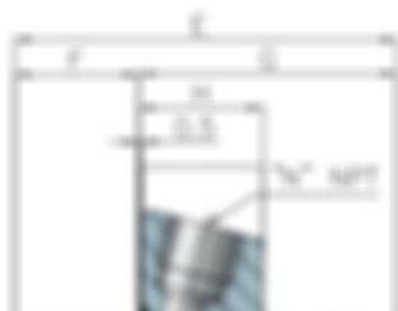
Flustrip



Flustrip



Flustrip



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[illegible]

All the measures are approved by the Ministry of Environment, offering that they have a measurement system, after which the National Data Department is responsible.

FLUCART CB20

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 Flustrip positioning device and to the flange slots which adapt to different stuffing boxes.

FEATURES

• 4 O-rings outside the product and 2 O-rings inside the cartridge adapt to most shaft sizes and products that require a good start to process which require thorough cleaning.

• 2 double balance rods for enhanced performance, able to tolerate pressure variations.

• 2 flanging connections for auxiliary systems (fluid at a fluid) and for flanging from external source (fluid at a fluid 10).

• 2 flanged flange for more flexible mounting.

• 4 Flustrip positioning device for correct and easy installation, to be pulled off after assembly but before starting up the machine.

• 2 flanges and 2 gaskets allow cartridge with flanging head outside.



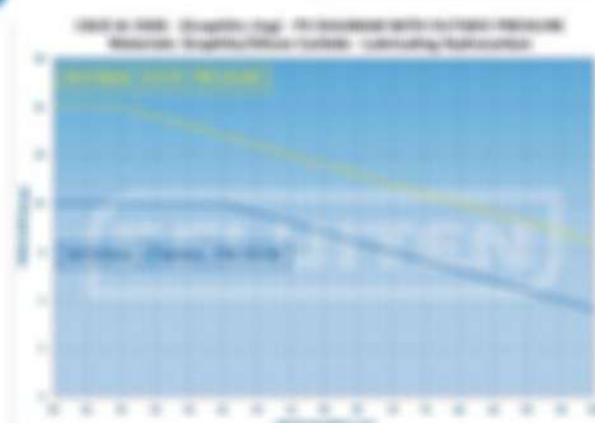
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Operating limits

DIMENSION (mm)	FROM 20 TO 60
SPEED (m/s)	6.32
TEMPERATURE (°C)	FROM -50 TO 250
API 2 + 2.3 for use 60°C	
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 directly prescribed. They should be determined by consulting the Flucart 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.



From 2000/0000



From 2000/0000



From 2000/0000



From 2000/0000



From 2000/0000



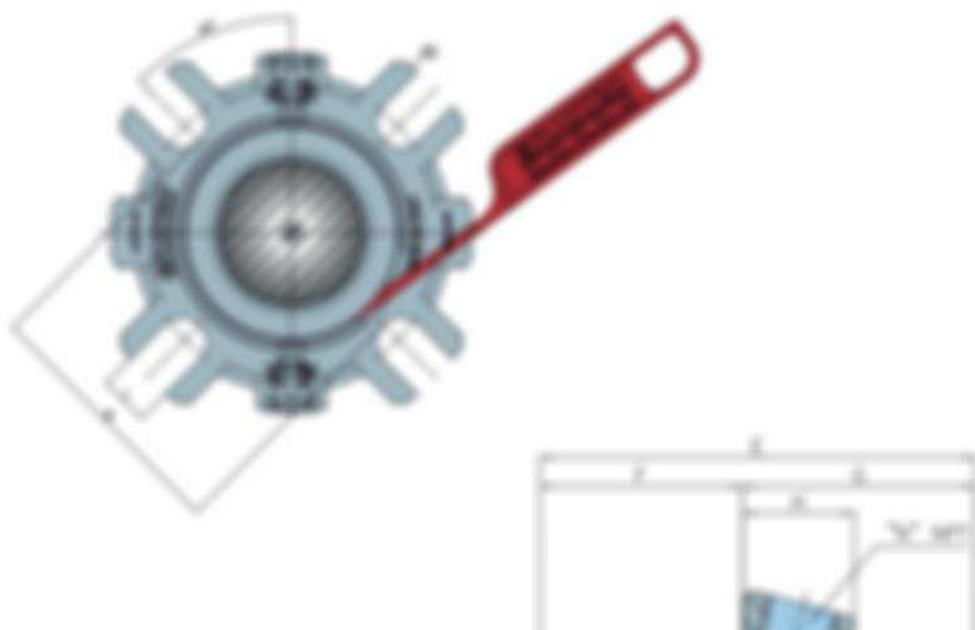
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From 2000/0000



From 2000/0000



COMPLEMENTARY SET (Standard materials)

- 1. Solid stationary ring in silicon-carbide (SiC)
- 2. Solid stationary ring in graphite (G10) or silicon-carbide (SiC) or tungsten-carbide (WC)
- 3. Solid rotating ring in SiC + graphite (G10)
- 4. Solid rotating ring in silicon-carbide (SiC) or tungsten-carbide (WC)
- 5. Rotating ring gasket in nitril-butyl rubber (NBR) or metal (S1/S2)
- 6. Rotating ring gasket in nitril-butyl rubber (NBR) or metal (S1/S2)
- 7. Stationary ring gasket in nitril-butyl rubber (NBR) or metal (S1/S2)



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FLUCCART 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FLUCART CB2Q

Single cartridge seal with double hydraulic balancing. The seal has a spring to contain the continuous quench, ideal for pumps with fluids that tend to crystallize on the atmosphere and which require washing.
Simple installation thanks to the new Flustrip positioning device and to the slots adaptable to different stuffing boxes.

FEATURES

• Spring outside the product and clean profile for enhanced reliability even with viscous products that crystallize, and also to prevent effect against thorough cleaning.

• Spring drive device compensates for any displacement and maintains contact with the rotating ring.

• Double balanced and for enhanced performance.

• Flushing: compensation from the spring discharge fluid to the fluid to be sealed or flushing from external source fluid to the fluid to be sealed.

• Locked design for more flexible mounting.

• Flustrip positioning device for correct and easy installation, to be pulled off after assembly but before starting up the machine.



Would you like to receive our complete technical manual?

Fill in the fields in the **format above**, you will receive them via e-mail within **48 hours** of the request.

Operating limits

DIMENSION (mm)	FROM 25 TO 300
SPEED (m/s)	≤ 52
TEMPERATURE (°C)	FROM -50 TO 250
WORKING PRESSURE (bar)	UNTIL 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 consulting the Fluiten 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.



From 2500000



From 1000000



From 1000000



From 1000000



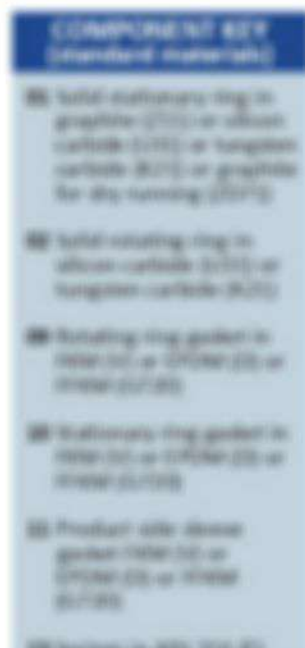
From 1000000



From 1000000



From 1000000



Year 1990-2000	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
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2021	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
2022	2022	2023	2024	2025</								

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FLUCART C3KC

Single cartridge mechanical seal, bidirectional with flushing connections. Simple installation with Fluten positioner. Fluting.

The geometry of the rotating parts reduces the heat generated and the centrifugal force eliminates possible particle deposits. The reinforced sleeve tolerates greater stress and shaft run-out in order to adapt to the needs of mixers, dryers, mills and can be fitted directly onto the pump shaft.

FEATURES

• 2 flushing connections from the pump discharge (Flute 1) or flushing from external source (Flute 2).

• 10° bevel and gland plate for more flange mounting.

• 12 Fluting: positioning device for correct seal ring installation. It is pulled off after assembly, but before starting up the machine.

• 12 Fluting: 12° angle, 12° angle, 12° angle, for very high chemical compatibility (instead of a ring).

• 12 Fluting: drive and push device, simple and robust.

• 12 Fluting: sleeve tolerates higher rotation rates and prevents deformations during maintenance and assembly operations.



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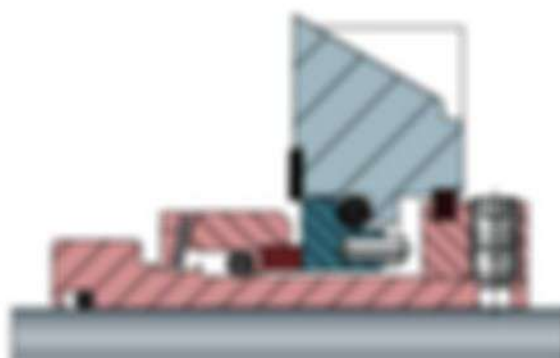


Operating limits

DIMENSION (mm)	FLANGE 20 TO 60
SPEED (rpm)	5.52
TEMPERATURE (°C)	FLANGE 10 TO 200
WORKING PRESSURE (bar)	VACUUM TO 12

Operating conditions which differ from those indicated can be evaluated by our sales engineers. Speed and pressure values indicated are not directly prescribed. They should be determined by consulting the Flute 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.

MODEL C3Kc AVAILABLE FOR PLAN 01 AND 02 AVAILABLE



FLUTE 100/100



FLUTE 100/100



FLUTE 100/100



FLUTE 100/100



FLUTE 100/100



FLUTE 100/100



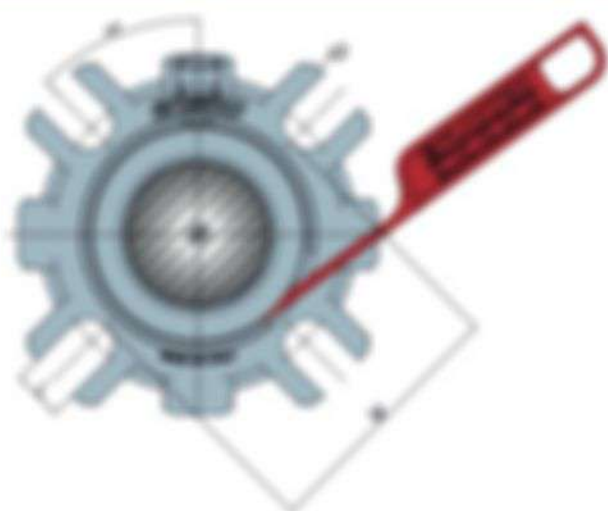
FLUTE 100/100



FLUTE 100/100



FLUTE 100/100



COMPONENTS OF THE STANDARD MATERIALS

- 1. Stationary ring in graphite (211) or silicon carbide (212) or tungsten carbide (213)
- 2. Rotating ring in silicon carbide (212) or tungsten carbide (213)
- 3. Rotating ring gasket: carbon (214) or carbon fiber (215) or silicon (216) or PTFE (217)
- 4. Stationary ring gasket in carbon (214) or carbon fiber (215) or silicon (216) or PTFE (217)
- 5. Product with sleeve gasket (218) or carbon (219) or silicon (220) or PTFE (221)
- 6. Sleeve in stainless steel



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Size Description	HT	HT	HT	HT	HT	HT	HT	HT	HT	HT	HT	HT
1000	100	100	100	100	100	100	100	100	100	100	100	100
1100	110	110	110	110	110	110	110	110	110	110	110	110
1200	120	120	120	120	120	120	120	120	120	120	120	120
1300	130	130	130	130	130	130	130	130	130	130	130	130
1400	140	140	140	140	140	140	140	140	140	140	140	140
1500	150	150	150	150	150	150	150	150	150	150	150	150
1600	160	160	160	160	160	160	160	160	160	160	160	160
1700	170	170	170	170	170	170	170	170	170	170	170	170
1800	180	180	180	180	180	180	180	180	180	180	180	180
1900	190	190	190	190	190	190	190	190	190	190	190	190
2000	200	200	200	200	200	200	200	200	200	200	200	200
2100	210	210	210	210	210	210	210	210	210	210	210	210
2200	220	220	220	220	220	220	220	220	220	220	220	220
2300	230	230	230	230	230	230	230	230	230	230	230	230
2400	240	240	240	240	240	240	240	240	240	240	240	240
2500	250	250	250	250	250	250	250	250	250	250	250	250
2600	260	260	260	260	260	260	260	260	260	260	260	260
2700	270	270	270	270	270	270	270	270	270	270	270	270
2800	280	280	280	280	280	280	280	280	280	280	280	280
2900	290	290	290	290	290	290	290	290	290	290	290	290
3000	300	300	300	300	300	300	300	300	300	300	300	300
3100	310	310	310	310	310	310	310	310	310	310	310	310
3200	320	320	320	320	320	320	320	320	320	320	320	320
3300	330	330	330	330	330	330	330	330	330	330	330	330
3400	340	340	340	340	340	340	340	340	340	340	340	340
3500	350	350	350	350	350	350	350	350	350	350	350	350
3600	360	360	360	360	360	360	360	360	360	360	360	360
3700	370	370	370	370	370	370	370	370	370	370	370	370
3800	380	380	380	380	380	380	380	380	380	380	380	380
3900	390	390	390	390	390	390	390	390	390	390	390	390
4000	400	400	400	400	400	400	400	400	400	400	400	400
4100	410	410	410	410	410	410	410	410	410	410	410	410
4200	420	420	420	420	420	420	420	420	420	420	420	420
4300	430	430	430	430	430	430	430	430	430	430	430	430
4400	440	440	440	440	440	440	440	440	440	440	440	440
4500	450	450	450	450	450	450	450	450	450	450	450	450
4600	460	460	460	460	460	460	460	460	460	460	460	460
4700	470	470	470	470	470	470	470	470	470	470	470	470
4800	480	480	480	480	480	480	480	480	480	480	480	480
4900	490	490	490	490	490	490	490	490	490	490	490	490
5000	500	500	500	500	500	500	500	500	500	500	500	500

All the measures are expressed in millimeters. For measurements differing from those listed in this table, please contact our Technical Sales Department at info@fluiten.nl

FLUCART CB35 - CB45

Single cartridge seal with double hydraulic balancing and springs outside the product. Designed for use in medium pressure and temperatures. Installation is made easy with the new Fluting positioning device and the flange slots which adapt to different stuffing boxes. The reinforced sleeve tolerates higher shaft run-out and adapts to motors, dryers, mills and also to assembly directly onto the pump shaft.

FEATURES

- a) Grinding disc device compensates for any misalignment and maintains contact with the rotating ring.
- b) Double balanced seal for enhanced performance.
- c) Protected fluting connections from pump discharge fluid to prevent fluting from an external source (fluid 2).
- d) Fluting positioning device for correct and easy installation, to be pulled off after assembly, but before starting up the machine.
- e) Reinforced flanges for more flexible mounting.
- f) Springs outside the product.
- g) Reinforced sleeve to tolerate high torque values and to prevent deformations during maintenance and



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Operating limits

DIMENSION (mm)	FROM 25 TO 90
SPEED (rpm)	≤ 52
TEMPERATURE (°C)	FROM -50 TO 250
API 684	
MAXIMUM PRESSURE (bar)	UNTIL 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 consulting the Fluting 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.

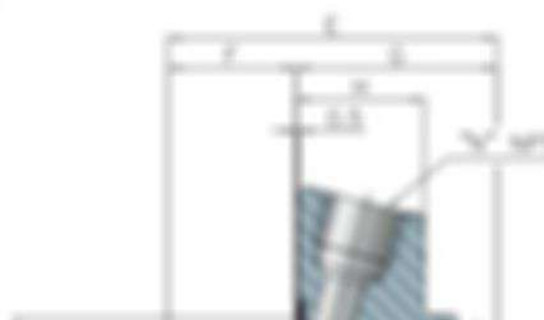
Operating limits CB45

SPEED (rpm)	≤ 52
TEMPERATURE (°C)	FROM -50 TO 250
MAXIMUM PRESSURE (bar)	UNTIL 5

The series of the CB35 and dependent to the CB45 and shown here are designed for dry running. The seal surfaces in contact with the process are free of. However, in order to allow easy starting and distribution. When treated with electric polishing the CB35 fulfils the requirements for API 684 (class 1) and API 684 (class 2) (class 2).



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.



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[illegible]

All the measures are approved by the Ministry of Education, offering free basic health measurement services, along with an optional paid service for a complete check-up.

FLUCART CB3T

Single cartridge seal with double hydraulic balancing, multiple springs outside the process and fixed containment bushing for low pressure vapour quench. Ideal for fluids that tend to crystallise on the atmosphere side and which require steam washing.

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

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

FEATURES

4 springs outside the product and 4 big drive screws adjust compression for possible movement to maintain contact with the rotating ring.

10 double balanced seal for enhanced performance.

12 bushing connections from pump discharge shaft to the shaft (12) or 12 bushing from external pump shaft to the shaft (12).

4 fixed flange for more flexible mounting.

4 Flustrip positioning device for correct and easy installation. To be pulled off after assembly, but before starting up the machine.

1 fixed auxiliary bushing for fluid(s) discharge of leakage with a dedicated connection and buffer (optional).



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Operating limits

DIMENSION (mm)	FROM 25 TO 90
SPEED (rpm)	6 32
TEMPERATURE (°C)	FROM -50 TO 250
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 consulting the Flucart 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.



From 25 to 90 mm



From 6 to 32 rpm



From -50 to 250 °C



From vacuum to 25 bar



From 25 to 90 mm



From 6 to 32 rpm



From -50 to 250 °C



From vacuum to 25 bar



From 25 to 90 mm

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