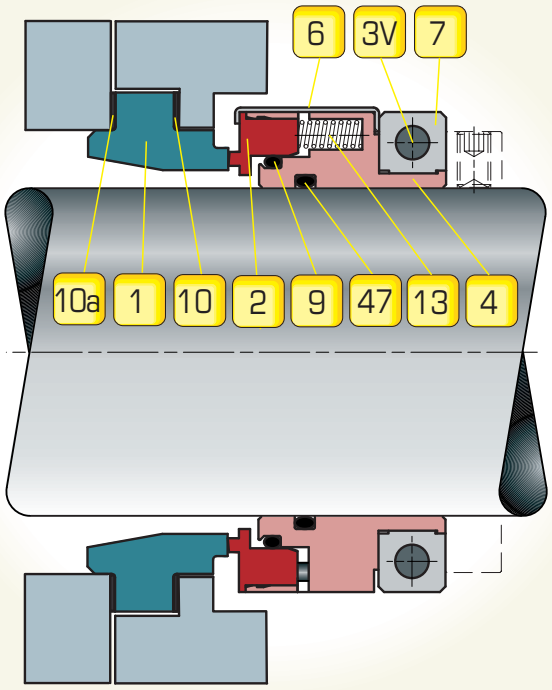
FLUITEN

A strong link of your system

MECHANICAL SEAL
EFC

CAT032 ENG REV 11.09

External seals designed for the more critical applications on rotating equipment where the process fluids are highly corrosive and the metallic parts of the seal would normally be exposed to these harsh chemicals.
EFC seals are constructed from the most modern materials and selected for their resistance to chemical attack. For this reason, EFC seals have superior mechanical characteristics to seals constructed using more conventional materials.
Following laboratory tests and multiple field trials on very demanding applications, EFC seals have been meticulously designed to offer the best solution for sealing acidic products. These seals, with Fluibi rotary ring version, have the possibility to withstand dry-running operation.



ELEMENTS:

1	STATIONARY SEAT
2	ROTARY FACE
3V	SCREW
4	SEAL BODY
6	SETTING PLATE
7	DRIVE COLLAR
9	ROTARY FACE "O" RING
10	STATIONARY SEAT "O" RING
10a	STATIONARY SEAT "O" RING
13	SPRING
47	SEAL BODY "O" RING

OPERATING CONDITIONS:

DIAMETER: *(inch)*	SPEED: *(m/sec)*	PRESSURE: *(bar)*	TEMPERATURE: *(°C)*
2"3/4 (70 mm)	**8** (3 m/s dry running)	**15** (3 bar dry running)	**150*** (60 °C dry running)
7/8" (20 mm)	**0**	**0**	**-30**

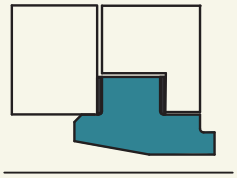
Maximum allowed temperature using PVDF seal bocy is 80 °C

CHARACTERISTICS:

- SINGLE
- BI-DIRECTIONAL
- EXTERNAL
- INCH DIMENSIONS
- BALANCED
- RESISTANT TO ACIDS & BASES
- CAN BE FITTED ON STRAIGHT SHAFT

MECHANICAL SEAL
EFC

STATIONARY SEAT: 1

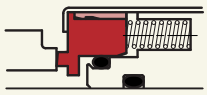


Silicon Carbide: **U31**

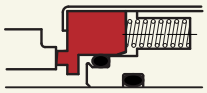
STATIONARY SEAT GASKET: 10 10a

Perfluoroelastomer: **V**
PTFE: **T**

ROTARY FACE: 2



Fluibi [3] with titanium reinforcement: **T11L**



Silicon Carbide: **U31** [4]

ROTARY FACE AND SEAL BODY "O" RING: 9 47

Fluoroelastomer: **V**
Perferfluoroelastomer: **G711**

SEAL BODY: 4

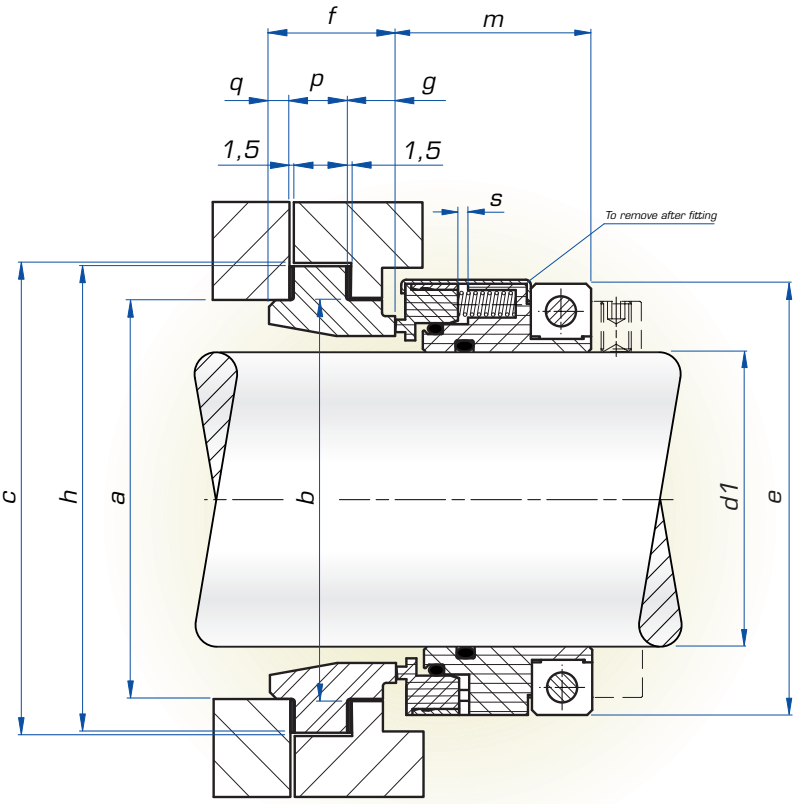
PVDF: **T5**
Titanium: **L**
Hastelloy C: **I**

MOLLE: 13

Hastelloy C: **I**

OTHER METAL PARTS: 7

AISI 316: **E**



Seal Diameter	d1 Inch	d1 mm	a ±0.05	b +0.1	c H11	e	f	g	h	m ±0.2	p	q	s
078	7/8"	20/22	39,69	40,5	51	50	19,3	7,5	50	39	8	3.8	2
100	1"	24/25	42,86	43,5	54	52	19,3	7,5	53	39	8	3.8	2
118	1"1/8	28	50,8	51,5	65	57	31	12	64	45	11	8	2
114	1"1/4	30/32	53,98	55	68	65	31	12	67	45	11	8	2
138	1"3/8	33/35	57,15	58	71	65	31	12	70	45	11	8	2
112	1"1/2	38	63,5	64,5	78	67	31	12	77	45	11	8	2
158	1"5/8	40	66,68	67,5	81	72	31	12	80	45	11	8	2
134	1"3/4	43/45	69,85	71	84	77	31	12	83	45	11	8	2
178	1"7/8	/	73,03	74	87	77	31	12	86	45	11	8	2
200	2"	48/50	79,38	80	97	82	37	13,5	96	45	14,5	9	2
218	2"1/8	53	82,55	83,5	100	87	37	13,5	99	45	14,5	9	2
214	2"1/4	55	85,73	86,5	103	87	37	13,5	102	45	14,5	9	2
238	2"3/8	58/60	88,9	89,5	106	92	37	13,5	105	45	14,5	9	2
212	2"1/2	63	92,08	93	110	97	37	13,5	109	45	14,5	9	2
258	2"5/8	65	95,25	96	113	97	37	13,5	112	45	14,5	9	2
234	2"3/4	68/70	98,43	99	116	102	37	13,5	115	45	14,5	9	2

Dimensions subject to modifications without notice.

Example:

To order the seals shown on this page for shaft 1"3/4 and material shown in the table below:

2	1	9	10a	10	13	4	7
T11L	U31	V	T	V	I	T5	E

The code will be: EFC134 - T11LU31VTVIT5E [2]

NOTES:

1) The material should be chosen according to the operating conditions. The material shown on this page is only part of the available range, for other products stock items, please call our Technical Sales Office.
2) When the material of the seal on the stationary seat "O" ring is the same as the seal on the rotary face "O" ring the product code is not repeated.
3) Fluibi is a superpolymer which, though having chemical compatibility identical to that of P.T.F.E., has superior mechanical characteristics. This material showed no signs of overheating or significant wear when tested and utilized "dry running," or when used on abrasive crystals.
4) The selection of Titanium, or Hastelloy C, body is reccomended in the case of silicon carbide rotary ring version.

FLUITEN ITALIA SpA 20016 PERO (Milano) Italy • Via L. da Vinci, 14
Tel. +39 02.339403.1 Fax +39 02.3538641 E-mail: info@fluiten.it • www.fluiten.it