

BLF®

TENUTA STELO TIPO BLF®

Descrizione

La tenuta stelo BLF® riduce significativamente sia la temperatura di funzionamento della tenuta che il rischio di estrusione successivo, grazie al suo profilo unico e innovativo.
Le protrusioni presente sulla superficie di scorrimento interna della guarnizione diminuisce l'area di contatto, riducendo a sua volta l'attrito e spostando la base della guarnizione al di fuori del gioco di accoppiamento, riducendo al minimo il rischio di estrusione. L'aggiunta del canale davanti al labbro di tenuta primario, non solo riduce l'area di contatto, ma consente inoltre di catturare l'olio all'interno della superficie di scorrimento, creando una camera d'olio per lubrificare il labbro di tenuta.

Dati tecnici

Pressione:	‹400 bar con punte a 500 bar alla temperatura di 60°C
Velocità:	‹0.5 m/s
Temperatura:	da - 35°C a +100°C con punte fino a +110°C
Fluidi :	fluidi idraulici a base minerale (v. tabella 3 a p. 14)

Materiale

Il materiale proposto è il poliuretano tipo Co ad alto modulo elastico, basso compression-set ed elevata resistenza all'abrasione.
Ha una durezza di 93 Shore A±2.

Montaggio

Eliminare bave e spigoli taglienti presenti nella sede e sullo stelo per evitare che la guarnizione si danneggi. È sempre consigliato lubrificare la tenuta prima del montaggio per agevolare l'inserimento dello stelo.

BLF® TYPE ROD SEAL

Description

The BLF® seal Type significantly reduces both the operating temperature of the seal and subsequent extrusion risk, due to its unique and innovative profile.
The feature present on the internal sliding face of the seal decreases the contact area, in turn reducing friction and removing the base of the seal from the clearance gap minimising extrusion risk.
The addition of the channel feature not only reduces the contact area, but also allows oil to be captured within the sliding surface in front of the primary sealing lip, creating an oil chamber to lubricate the sealing lip allowing for smooth linear action.

Technical data

Pressure:	*‹400 bar with peaks until 500 bar At 60°C*
Speed :	*‹ 0.5 [m/s]*
Temperature:	*- 35 °C ÷ +100 °C with peaks until +110°C*
Fluids :	*mineral based hydraulic fluids (see table 3, page 14)*

Material

The proposed material is a "Co" type polyurethane, with high elasticity modulus, low compression-set and high abrasion resistance.
The hardness is 93 Shore A ± 2.

Assembling

To prevent any damage to the seal during assembly, remove all swarf and sharp edges within the housing and corresponding rod. The seal should always be lubricated before assembling in order to have easier insertion of the rod.

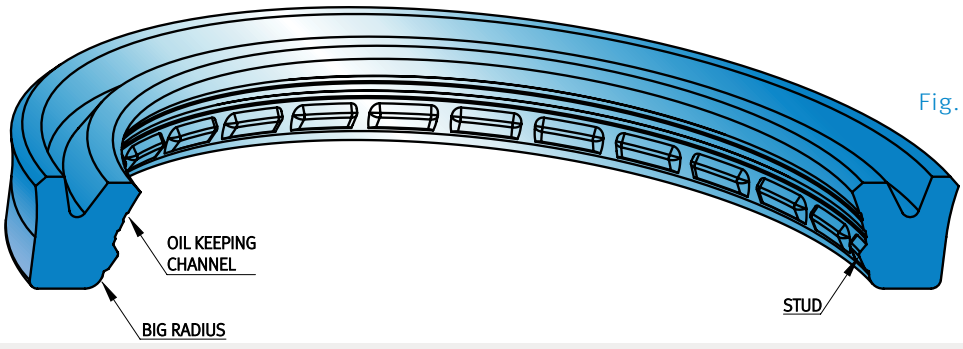
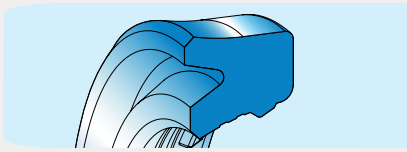


Fig. 27 - *Pic.27:*

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NO ANELLO ANTIESTRUSIONE

Grazie al suo profilo unico, BLF® elimina la necessità di un anello antiestrusione aggiuntivo. Una combinazione della larghezza ridotta della base, delle protrusioni interne e di un raggio elevato assicura che il materiale si trovi sempre al di fuori del gioco di accoppiamento delle sedi.

NO BACKUP RING

Due to its unique profile, BLF® eliminates the need for an additional anti-extrusion component. A combination of the reduced base width, stud features and large radius, ensures the base material is not located near the housing clearance gap, thus significantly reducing the risk of extrusion.



Fig. 28 - *Pic.28:* BLF® montaggio/ *BLF® installation*

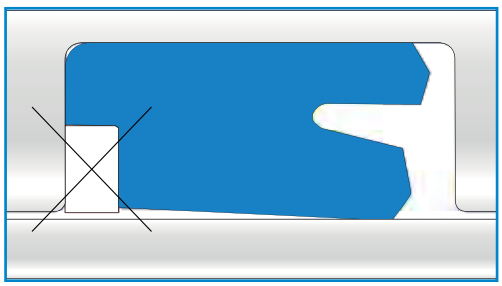
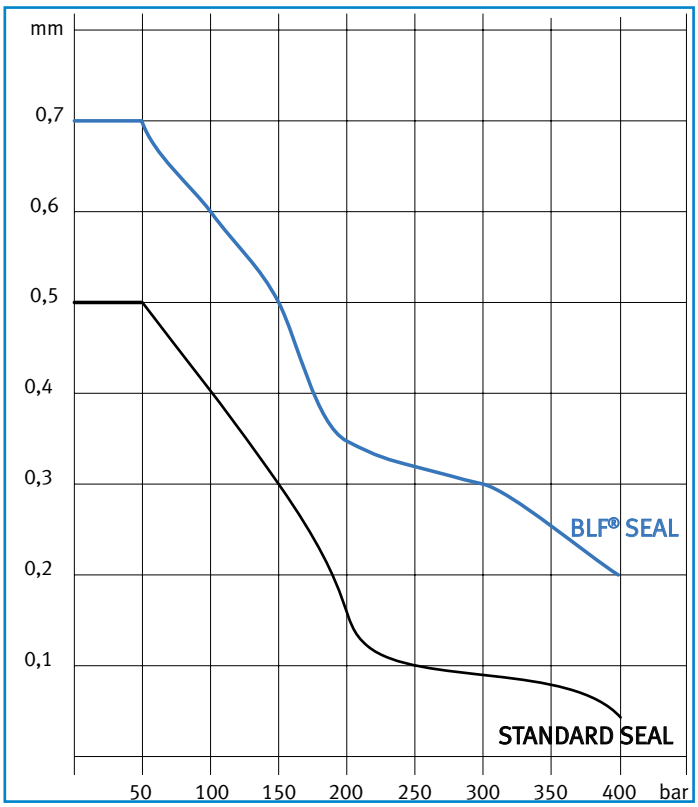


Fig. 29 - *Pic.29:* Tenuta STD montaggio/*STD seal installation*

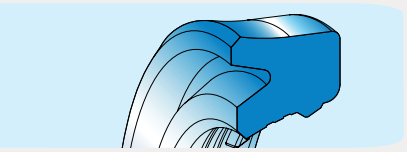
PATENT PENDING

Fig. 30 - *Pic.30:* PRESSURE / COUPLING CLEARANCE



Tab. 33 - gioco di accoppiamento radiale / radial coupling clearance

PRESSIONE / PRESSURE bar	*BLF® SEAL mm*	STD SEAL *mm*
50	0,70	0,50
100	0,60	0,40
150	0,50	0,30
200	0,35	0,15
300	0,30	0,10
400	0,20	0,05



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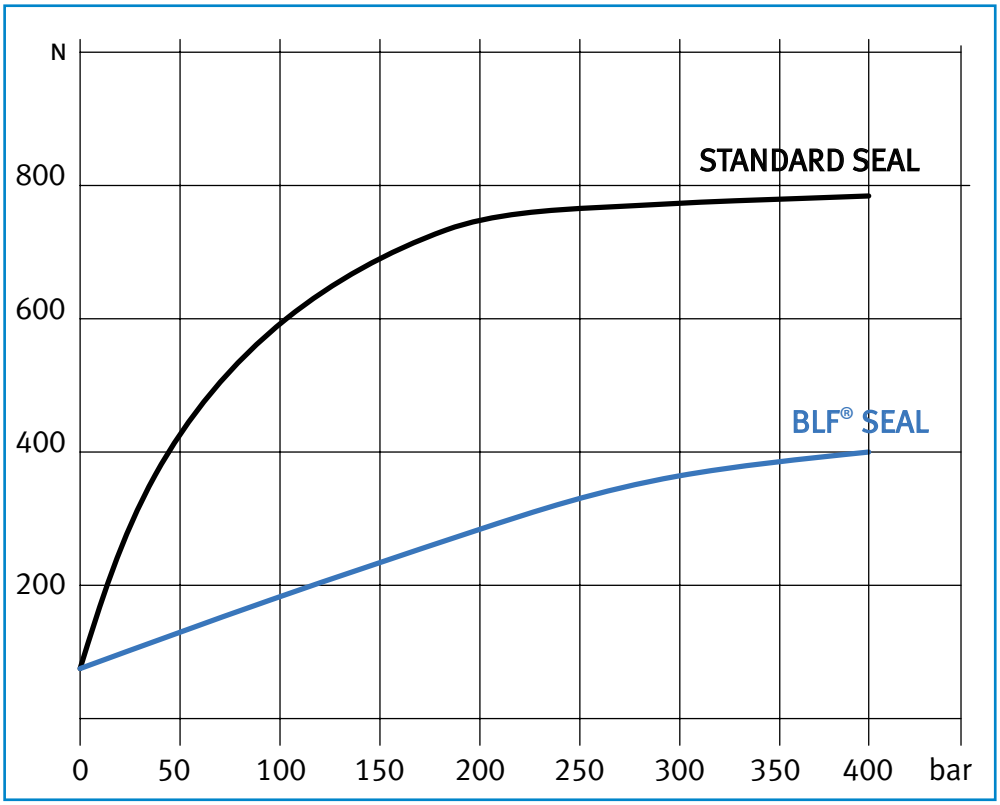
BASSO ATTRITO

Una superficie di contatto ridotta, anche quando la guarnizione è soggetta a pressione, riduce significativamente l'attrito sviluppato dalla tenuta durante il funzionamento. Inoltre, la camera di olio creata del canale assicura che il labbro di tenuta sia lubrificato in modo permanente per un funzionamento regolare e un attrito inferiore.

LOW FRICTION

A reduced contact surface, even when the seal is subject to pressure, significantly reduces the friction developed by the seal during operation. Furthermore, the oil gap created by the channel features, ensures the sealing lip is permantly lubricated for smooth operation and lower friction

Fig. 31 - *Pic.31:* PRESSURE / OPERATING FRICTION



Ampi test mostrano una riduzione dell'attrito operativo di circa un 50% misurato in un intervallo di pressione da 0 a 400 [Bar]

Extensive test shows a reduction in operational friction approximately 50% measured in a pressure range from 0 to 400[Bar]



Fig. 32 - *Pic.32:*
BLF® in pressione 400 [Bar]/
BLF® in pressure 400[Bar]

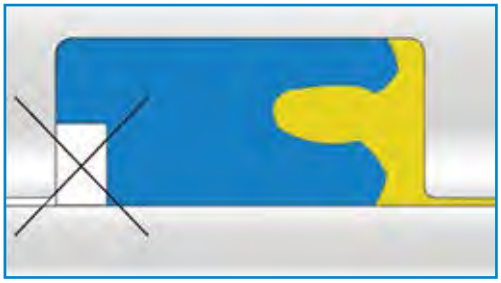
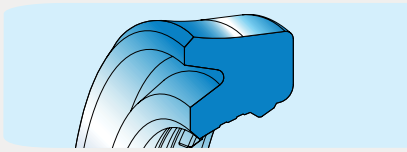
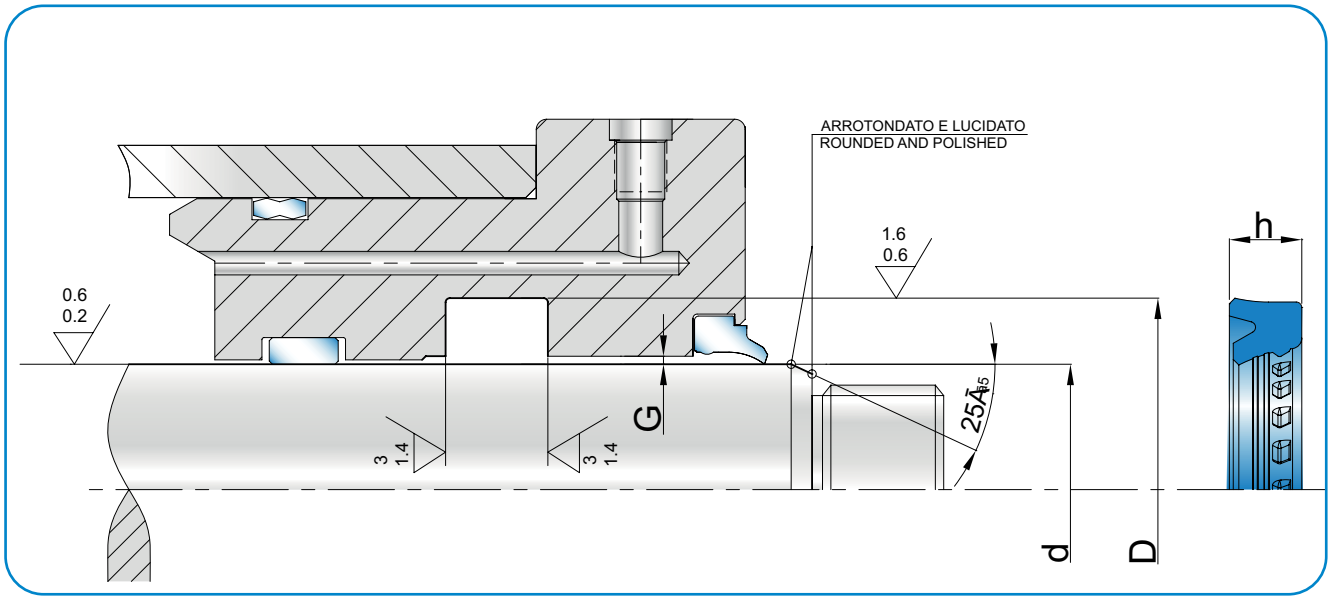


Fig. 33 - *Pic.33:*
Tenuta STD in pressione 400[Bar]/
STD seal in pressure 400 [Bar]

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d_{h9}	D_{H10}	h	$E_{+0,2}$	C	ART / *ITEM*
32,0	42,0	7,3	8,0	4,5	BLF 0320 0420 073 Co
40,0	55,0	10,0	11,0	5,5	BLF 0400 0550 100 Co
42,0	51,0	10,0	11,0	4,5	BLF 0420 0510 100 Co
45,0	53,0	5,7	6,3	4,5	BLF 0450 0530 057 Co
45,0	60,0	10,0	11,0	5,5	BLF 0450 0600 100 Co
50,0	59,0	10,0	11,0	4,5	BLF 0500 0590 100 Co
50,0	60,0	7,3	8,0	5,0	BLF 0500 0600 073 Co
50,0	65,0	10,0	11,0	5,5	BLF 0500 0650 100 Co
50,0	65,0	11,5	12,5	5,5	BLF 0500 0650 115 Co
50,0	70,0	12,0	13,0	6,0	BLF 0500 0700 120 Co
56,0	71,0	11,5	12,5	5,5	BLF 0560 0710 115 Co
60,0	69,0	10,0	11,0	4,5	BLF 0600 0690 100 Co
60,0	75,0	11,5	12,5	5,5	BLF 0600 0750 115 Co
60,0	80,0	12,0	13,0	6,0	BLF 0600 0800 120 Co
63,0	78,0	11,5	12,5	5,5	BLF 0630 0780 115 Co
63,0	83,0	12,0	13,0	6,0	BLF 0630 0830 120 Co
65,0	80,0	11,5	12,5	5,5	BLF 0650 0800 115 Co
70,0	80,0	7,3	8,0	5,0	BLF 0700 0800 073 Co
70,0	85,0	11,5	12,5	5,5	BLF 0700 0850 115 Co
75,0	95,0	13,5	14,5	6,0	BLF 0750 0950 135 Co
80,0	95,0	11,5	12,5	5,5	BLF 0800 0950 115 Co

d_{h9}	D_{H10}	h	$E_{+0,2}$	C	ART / *ITEM*
80,0	100,0	13,5	14,5	7,0	BLF 0800 1000 135 Co
85,0	95,0	10,0	11,0	5,5	BLF 0850 0950 100 Co
85,0	100,0	11,0	12,0	7,0	BLF 0850 1000 110 Co
85,0	105,0	12,0	13,0	7,0	BLF 0850 1050 120 Co
85,0	105,0	13,5	14,5	7,0	BLF 0850 1050 135 Co
90,0	105,0	11,5	12,5	6,0	BLF 0900 1050 115 Co
95,0	105,0	10,0	11,0	6,0	BLF 0950 1050 100 Co
95,0	115,0	13,5	14,5	7,0	BLF 0950 1150 135 Co
100,0	120,0	12,0	13,0	7,0	BLF 1000 1200 120 Co
100,0	120,0	13,5	14,5	7,0	BLF 1000 1200 135 Co
105,0	120,0	13,0	14,0	7,0	BLF 1050 1200 130 Co
105,0	125,0	12,0	13,0	7,0	BLF 1050 1250 120 Co
110,0	125,0	11,0	12,0	7,0	BLF 1100 1250 110 Co
110,0	130,0	12,0	13,0	7,0	BLF 1100 1300 120 Co
120,0	140,0	12,0	13,0	7,0	BLF 1200 1400 120 Co
120,0	140,0	13,0	14,0	7,0	BLF 1200 1400 130 Co
125,0	145,0	12,0	13,0	7,0	BLF 1250 1450 120 Co
130,0	150,0	12,0	13,0	7,0	BLF 1300 1500 120 Co

Nota: altre dimensioni non a catalogo a richiesta. Consultare il nostro ufficio tecnico.

Remark: please contact our technical dept. for further dimensions not included in the catalogue.