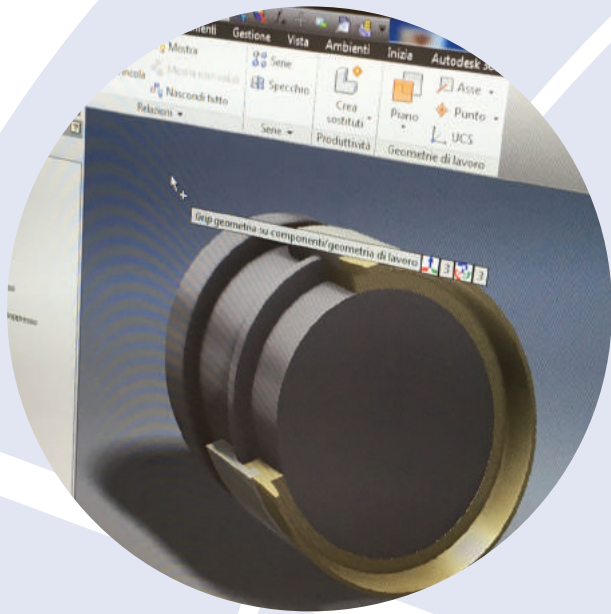




 **universalflex**[®]

Programma Tenute

Seal program



1

Progettazione

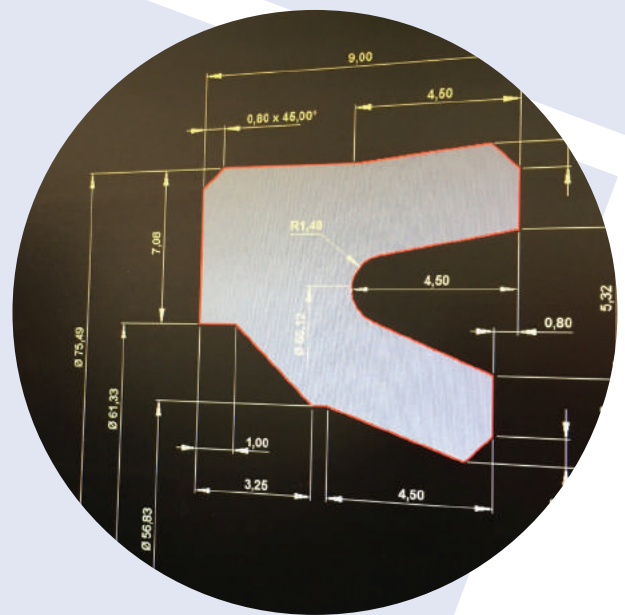
Disponiamo al nostro interno di una divisione engineering, in grado di progettare in stretta collaborazione con il cliente, la tenuta più idonea alle specifiche esigenze.

L'ampia gamma di materiali di alta qualità certificati, soddisfa ogni necessità normativa.

Designing

We are, within our engineering division, able to design the most suitable seal for a specific requirement in close cooperation with the client.

The ample range of high quality and certified materials, satisfies all regulatory needs.



2

Realizzazione

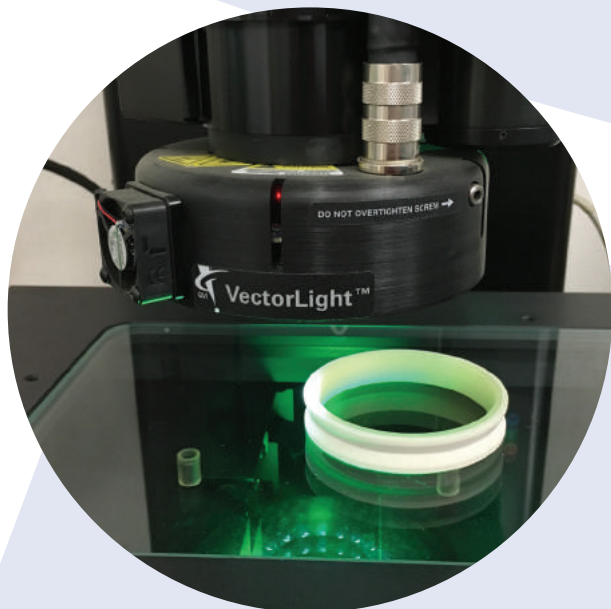
Una volta completato, il progetto definitivo viene trasferito ai torni a controllo numerico per la produzione.

Manufacturing

Once completed, the definitive project is transferred to the computer controlled lathes for production.

Divisione engineering

Engineering division



Controllo

Completata la realizzazione della guarnizione, si passa alla misura ottica per controllo dei particolari.

Controls

Having completed the production of the seals, it is passed over for optical measuring in order to check the details.



Marcatura

Universalflex mette a disposizione il servizio di marcatura laser ai propri clienti.

Marking

Universalflex places the laser marking service at the disposal of the client.



Guarnizioni asettiche per il settore food&beverage e farmaceutico

Aseptic seals for the food & beverage and pharmaceutical sector



In un settore dove le normative sono sempre più severe e le specifiche sempre più esigenti, Universalflex è in grado di fornire la soluzione personalizzata alla richiesta del cliente, sia come tipologia di tenuta che come normative legate alla mescola.

In a sector where the Standards are ever more severe and the specifications always more exacting, Universalflex is able to supply a solution, personalized to the requirements of the client, be that for the type of seal or with regard to the Standards applying to the compound.

La serie “cassaforte” The “Cassaforte” series

La peculiarità specifica di questo modello, unico nel suo genere, esclude la possibile formazione di cariche batteriche attorno alla zona in cui è alloggiata la tenuta.

Le tenute cassaforte, (modello brevettato in Europa e negli USA) sono infatti realizzate prive di sottosquadri o incavi in cui possa penetrare e ristagnare del residuo contaminante.

Realizzabile in vari materiali in base alle applicazioni del cliente.

The specific particularity of this model, unique of its kind, excludes the possible formation of bacterial loads around the area in which the seal is seated.

The strongbox seals, (model patented in Europe and the USA) are indeed made devoid of undercuts or hollows into which the contaminating residue may penetrate or stagnate.

Achievable in various materials depending on the client's application.



La Serie “cleaning CS e cleaning polinox” The “cleaning CS and cleaning Polinox” Series

Di concezione estremamente semplice, queste tenute innovative (brevettate) sono realizzate in unico pezzo.

La parte anteriore è chiusa e priva di interstizi mentre la parte posteriore presenta delle apposite scanalature per agganciarsi in modo semplice al corpo pistone.

La loro conformazione è ideale per le operazioni di lavaggio e sanificazione.

Realizzabile in vari materiali in base alle applicazioni del cliente.


From an extremely simple concept, these innovative seals (patented) are made from a single piece.


The forward part is closed and devoid of fissures while the rear part contains appropriate channelling for attaching itself in a simple manner to the piston body. Their structure is ideal for washing and sanitising operations.

Achievable in various materials depending on the client's application.



Legenda Simboli

 **CS** - Profilo raschiante ideale anche per creme e salse dense e lenti ruotismi

 **FL** - Profilo per lenti ruotismi ideale per fluidi a bassa viscosità


 **Sede Chiusa**


 **Sede Aperta**

 **Movimento alternato**

 **Movimento rotante**


Legend of Symbols


 **CS** - Scraper profile also ideal for dense cream and sauces and slow rotational movements

 **FL** - Profile for slow rotational movements, ideal for low viscosity fluids

 **Seating Closed**

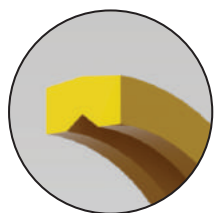
 **Seating Open**

 **Alternate movement**

 **Rotating movement**

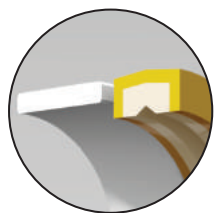
La serie “Cassaforte”

“Cassaforte” Series



O-ring “Cassaforte”
O-ring “Cassaforte”

Pag. 8



Tenuta “Cassaforte” pistone Standard CS/FL
Piston Seals “Cassaforte” Standard

Pag. 9



Tenuta “Cassaforte” stelo Standard CS/FL
Rod seals “Cassaforte” Standard

Pag. 10



Tenuta “Cassaforte” pistone Special CS/FL
Piston Seals “Cassaforte” Special

Pag. 11



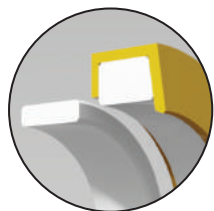
Tenuta “Cassaforte” stelo Special CS/FL
Rod Seals “Cassaforte” Special

Pag. 12



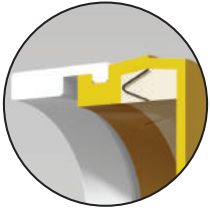
Tenuta “Cassaforte” pistone tuffante
Plunge piston Seals “Cassaforte”

Pag. 13



Tenuta “Cassaforte” alberi rotanti SA
Rotating shafts seals “Cassaforte” SA

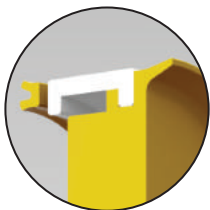
Pag. 14



Tenuta “Cassaforte” pistone “Special T”
Piston seals “Cassaforte Special T”

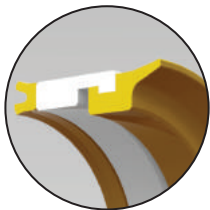
Pag. 15

Serie “Cleaning CS and cleaning polinox” *“Cleaning CS and cleaning polinox” Series*



Tenuta pistone “Cleaning Speciale”
CS Pol-Inox / CS2 Pol-Inox
“Cleaning Special” Piston Seal
CS Pol-Inox / CS2 Pol-Inox

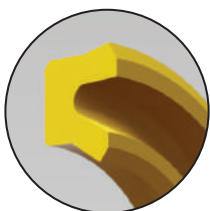
Pag. 16



Tenuta pistone “Cleaning Speciale”
CS / CS2
“Cleaning Special” Piston Seal
CS / CS-2

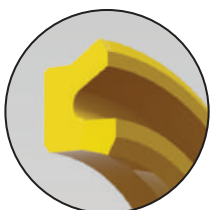
Pag. 17

Serie “Cleaning Standard” *“Cleaning Standard” Series*



Tenuta pistone “Cleaning Standard”
S1 PN - RI PN
“Cleaning Standard” Piston Seal
S1 PN - RI PN

Pag. 18



Tenuta pistone “Cleaning Standard”
K1 PN - RE PN
“Cleaning Standard” Piston Seal
K1 PN - RE PN

Pag. 19

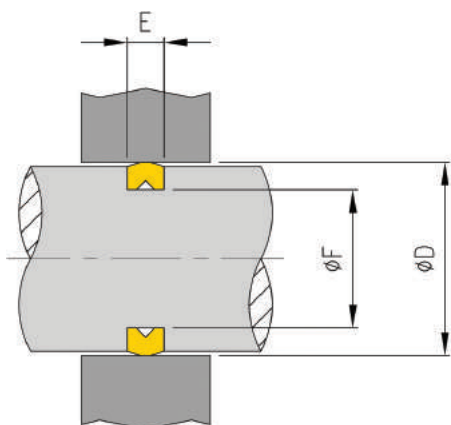
TENUTA "CASSAFORTE"
MOD. O-RING CASSAFORTE
SEALS "CASSAFORTE"
MOD. O-RING CASSAFORTE



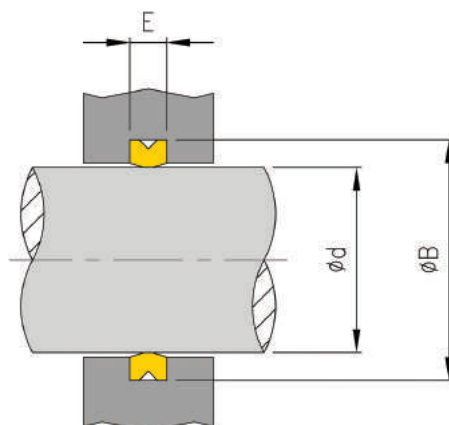
O-ring "Cassaforte" dinamico pistone
O-ring "Cassaforte" dynamic piston



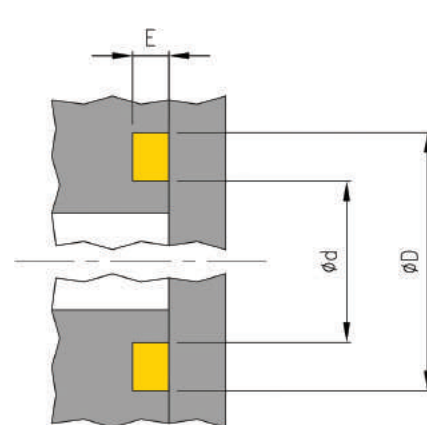
O-ring "Cassaforte" dinamico stelo
O-ring "Cassaforte" dynamic rod



O-ring "Cassaforte" Pistone
O-ring "Cassaforte" piston



O-ring "Cassaforte" Stelo
O-ring "Cassaforte" rod



O-ring "Cassaforte" statico flangiato frontale
O-ring "Cassaforte" frontal flanged static

Principali caratteristiche tecniche

- È il più semplice dei modelli Cassaforte
- Realizzato in un unico pezzo
- Adattabile a sede per o-ring esistente
- Occupa l'intera sede di alloggiamento evitando accumulo e ristagno di prodotto
- Alloggiabile anche in sede chiusa

Main technical characteristics

- This is the simplest of the "Cassaforte" models
- Made from a single piece
- Adaptable as seating or for existing O-ring
- Takes up the whole seating avoiding the accumulation and stagnation of a product
- Housable also in closed seating

TENUTA “CASSAFORTE” PISTONE
MOD. STANDARD CS/FL
PISTON SEALS “CASSAFORTE”
MOD. STANDARD CS/FL



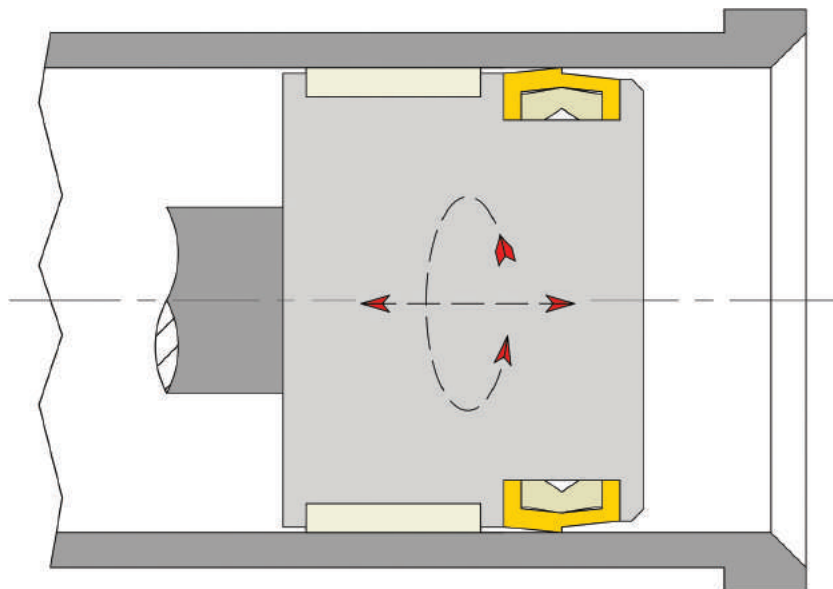
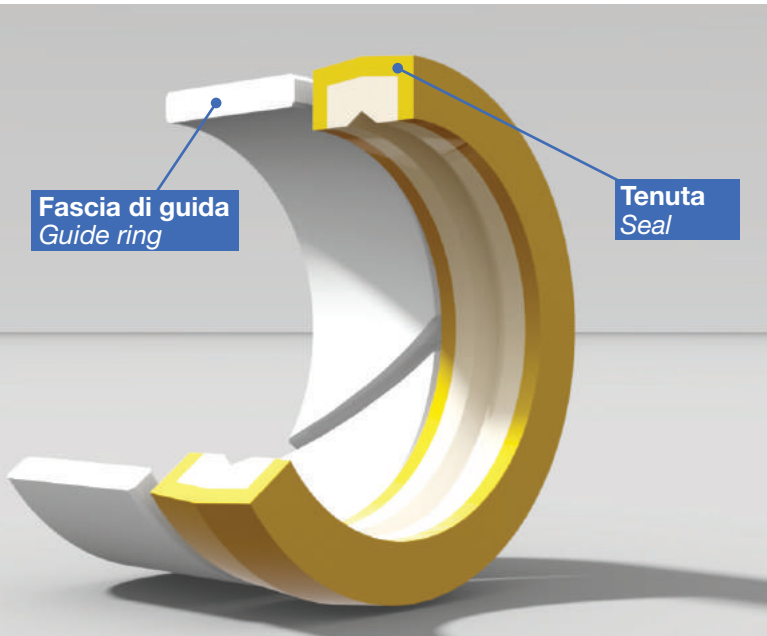
*Per lenti ruotismi/ * For slow rotational movements

Principali caratteristiche tecniche

- Realizzata in più parti
- Parte esterna dinamica a contatto con il prodotto
- Parte interna statica specifica per spinta e memoria
- Alloggiabile anche in sede chiusa

Main technical characteristics

- Made in several parts.
- External dynamic part in contact with the product.
- Internal static part specific for thrust and memory.
- Seatable also in closed seat.

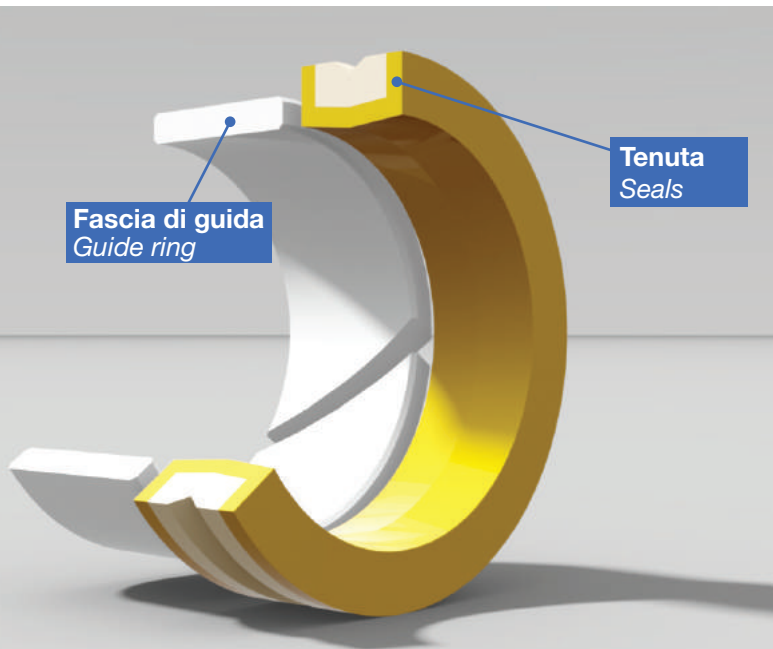


NB. Per sedi, ingombri e installazioni consultare il nostro ufficio tecnico.
NB. For seating, obstructions and installations consult our technical department.

TENUTA "CASSAFORTE" STELO
MOD. STANDARD CS/FL
ROD SEALS "CASSAFORTE"
MOD. STANDARD CS/FL



*Per lenti ruotismi/ * For slow rotational movements

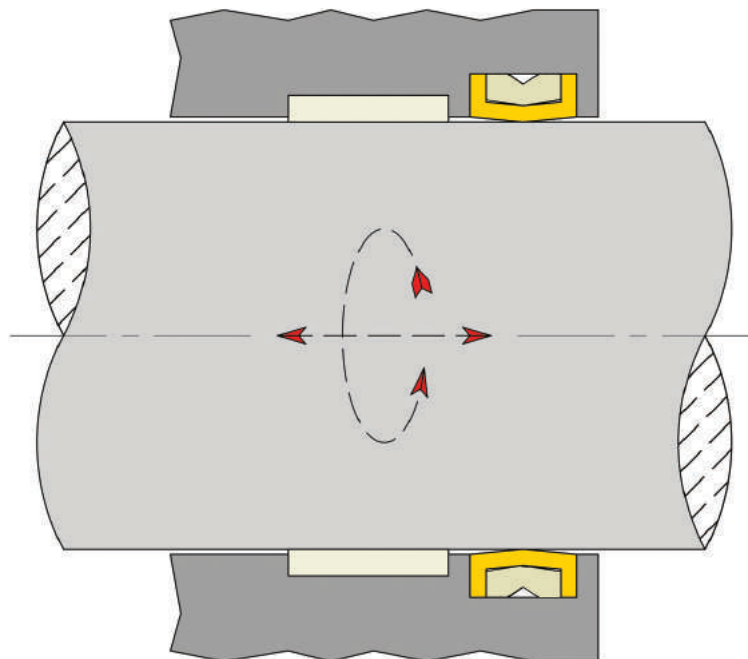


Principali caratteristiche tecniche

- Realizzata in più parti
- Parte interna dinamica a contatto con il prodotto
- Parte esterna statica specifica per spinta e memoria
- Alloggiabile anche in sede chiusa

Main technical characteristics

- Achievable in several parts
- Internal dynamic part in contact with the product
- External static part specific for thrust and memory
- Seatable also in closed seat

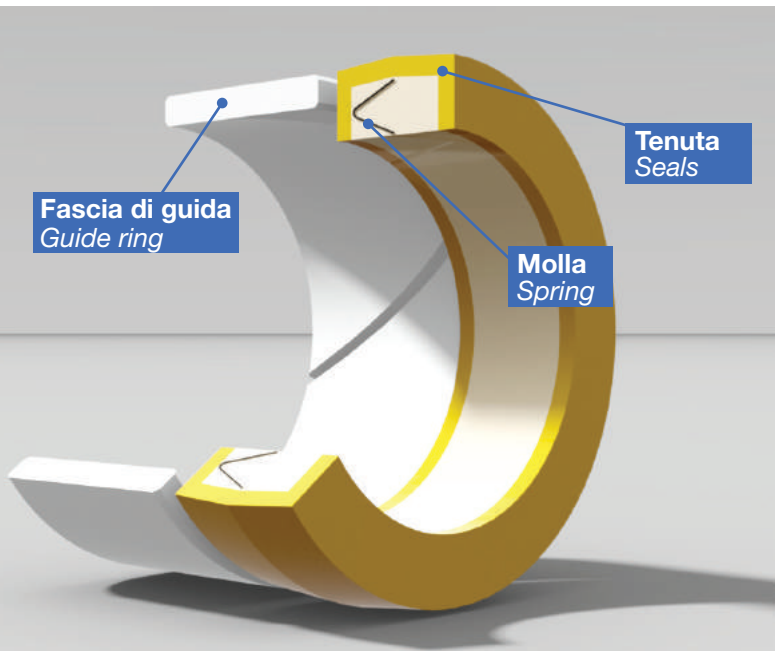


NB. Per sedi, ingombri e installazioni consultare il nostro ufficio tecnico.
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TENUTA “CASSAFORTE” PISTONE
MOD. SPECIAL CS/FL
PISTON SEALS “CASSAFORTE”
MOD. SPECIAL CS/FL



*Per lenti ruotismi/ * For slow rotational movements

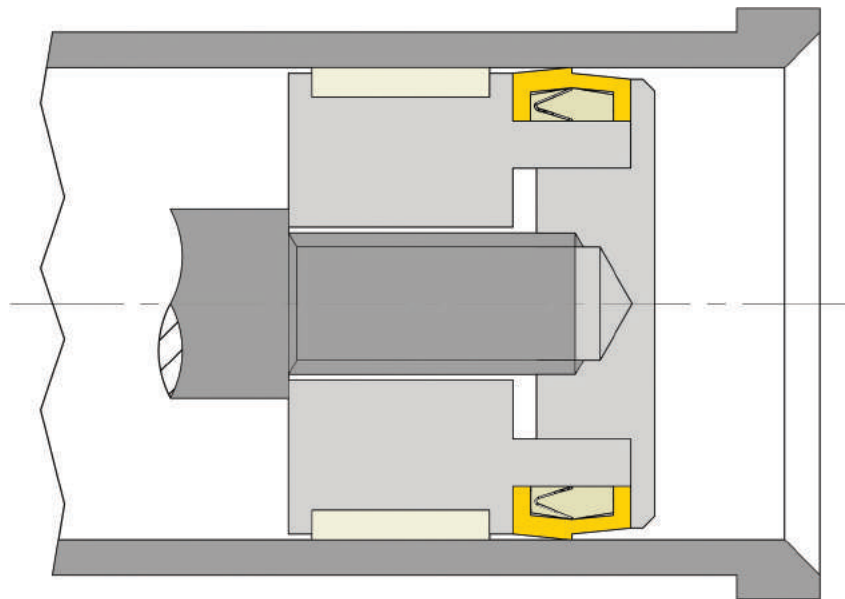


Principali caratteristiche tecniche

- Realizzata in più parti
- Parte esterna dinamica a contatto con il prodotto simile a tutte le versioni cassaforte
- Parte interna statica specifica per spinta e memoria
- Molla di precarico in acciaio inox alloggiata internamente
- Sopporta temperature e velocità più elevate
- Alloggiabile solo in sede aperta

Main technical characteristics

- Achievable in several parts
- External dynamic part in contact with the product similar to all the strongbox versions
- Internal static part specific for thrust and memory
- Internally lodged pre-loaded spring in stainless steel
- Handles higher temperatures and speeds
- Only seatable in open seat

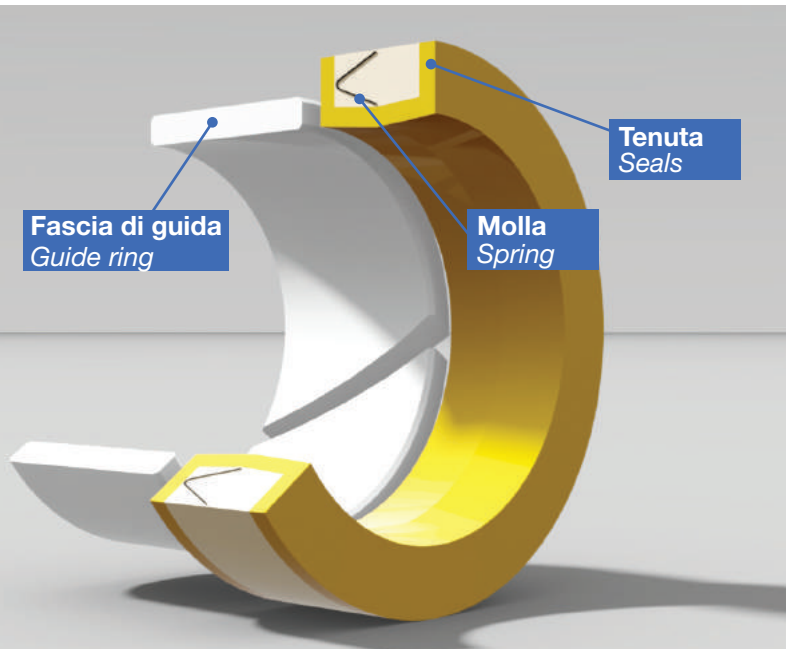


NB. Per sedi, ingombri e installazioni consultare il nostro ufficio tecnico.
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TENUTA "CASSAFORTE" STELO
MOD. SPECIAL CS/FL
ROD SEALS "CASSAFORTE"
MOD. SPECIAL CS/FL



*Per lenti ruotismi/ * For slow rotational movements

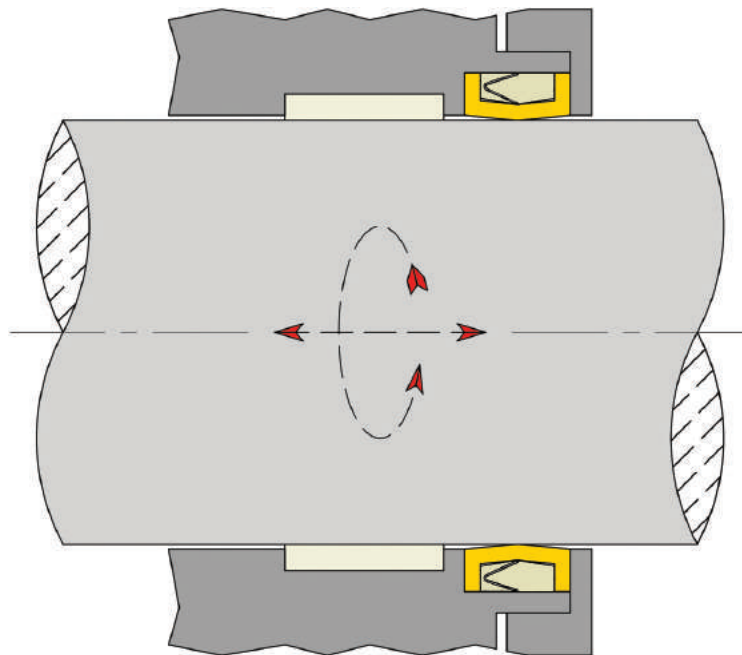


Principali caratteristiche tecniche

- Realizzata in più parti
- Parte interna dinamica a contatto con il prodotto simile a tutte le versioni cassaforte
- Parte esterna statica specifica per spinta e memoria
- Molla di precarico in acciaio inox alloggiata internamente
- Sopporta temperature e velocità più elevate
- Alloggiabile solo in sede aperta

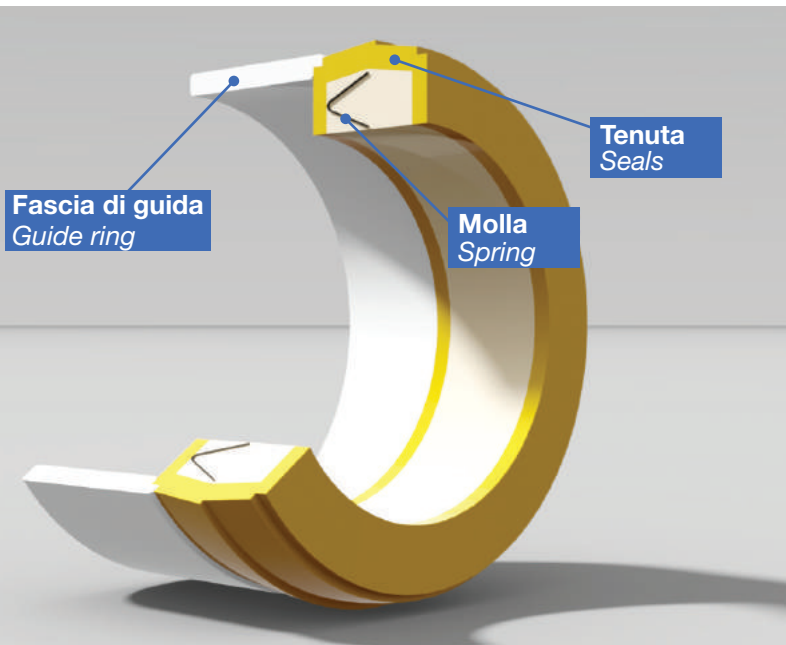
Main technical characteristics

- Achievable in several parts
- Internal dynamic part in contact with the product similar to all the strongbox versions
- External static part specific for thrust and memory
- Internally lodged pre-loaded spring in stainless steel
- Handles higher temperatures and speeds
- Only seatable in open seat



NB. Per sedi, ingombri e installazioni consultare il nostro ufficio tecnico.
NB. For seating, obstructions and installations consult our technical department.

TENUTA “CASSAFORTE” PISTONE TUFFANTE
MOD. SPECIAL/STANDARD PT CS
PLUNGE PISTON SEALS “CASSAFORTE”
MOD. SPECIAL/STANDARD PT CS

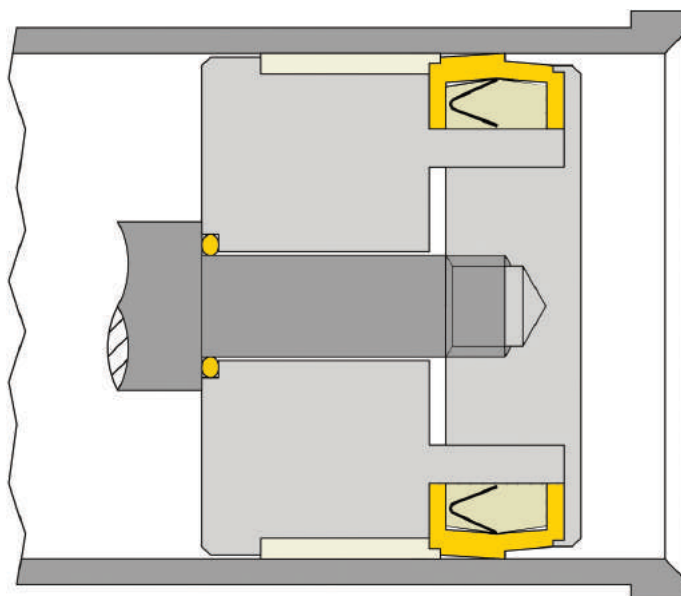


Principali caratteristiche tecniche

- Appositamente studiata per permettere al pistone un'extra corsa di estrazione e rientro nel cilindro consentendo la totale sanificazione di tenuta e fascia.
- Realizzata in più parti in blocco con fascia di guida
- Parte esterna dinamica a contatto con il prodotto simile a tutte le versioni cassaforte
- Parte interna statica specifica per spinta e memoria
- Versioni con molla in acciaio inox alloggiata internamente
- Alloggiabile solo in sede aperta

Main technical characteristics

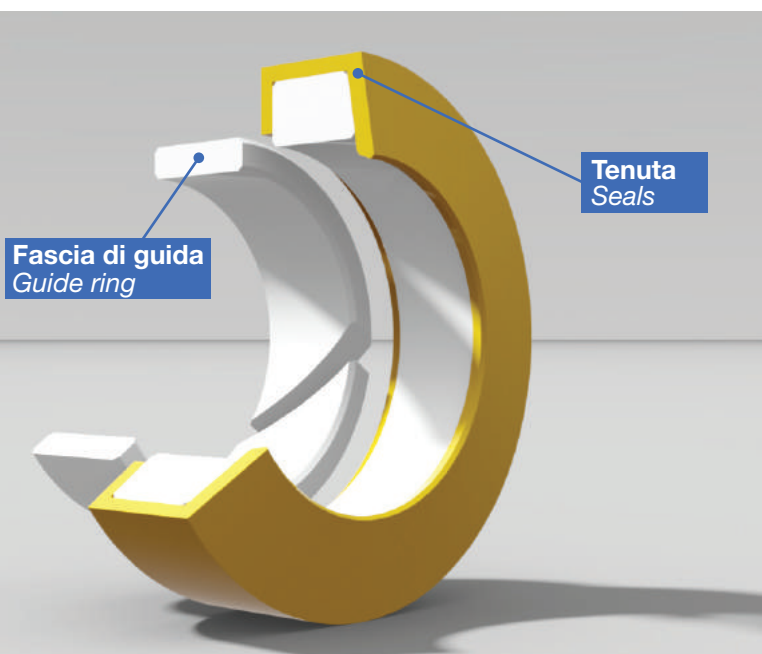
- Purposefully researched to allow the piston an extra extraction and re-entry stroke in the cylinder, allowing for total sanitising of the seal and ring.
- Made in several parts en bloc with the guide ring
- External dynamic part in contact with the product similar to all the strongbox versions
- Internal static part specific for thrust and memory
- Versions with internally lodged spring in stainless steel
- Only seatable in open seat



NB. Per sedi, ingombri e installazioni consultare il nostro ufficio tecnico.
NB. For seating, obstructions and installations consult our technical department.

TENUTA "CASSAFORTE" ALBERI ROTANTI MOD. STANDARD SA

ROTATING SHAFTS SEALS "CASSAFORTE"
MOD. STANDARD SA

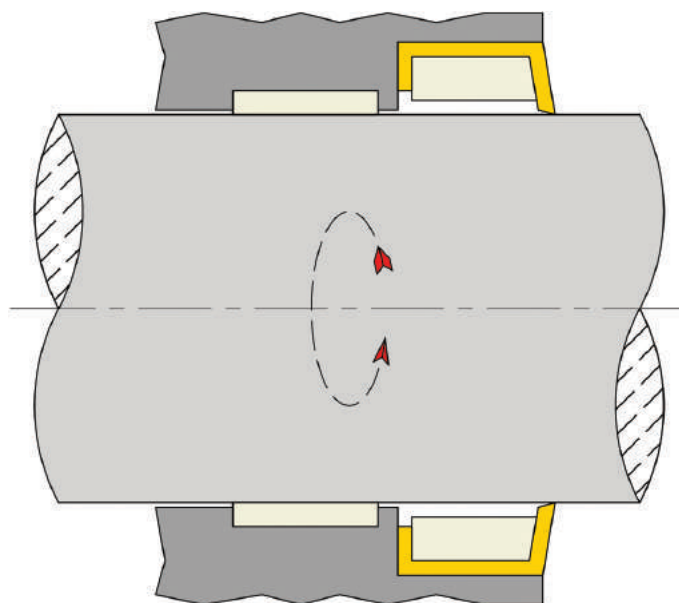


Principali caratteristiche tecniche

- Esclusivamente per movimenti rotatori
- Realizzata in più parti
- Parte interna dinamica a contatto con il prodotto
- Parte esterna statica specifica per spinta e memoria
- Alloggiabile solo in sede aperta

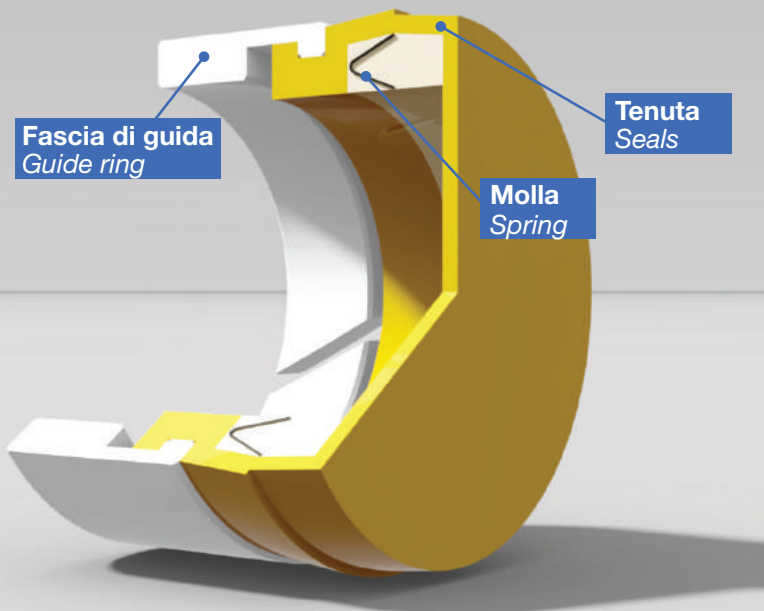
Main technical characteristics

- Exclusively for rotational movements
- Made in several parts
- Internal dynamic part in contact with the product
- External static part specific for thrust and memory
- Only seatable in open seat



NB. Per sedi, ingombri e installazioni consultare il nostro ufficio tecnico.
NB. For seating, obstructions and installations consult our technical department.

**TENUTA “CASSAFORTE” PISTONE
MOD. SPECIAL T
PISTON SEALS “CASSAFORTE”
MOD. SPECIAL T**

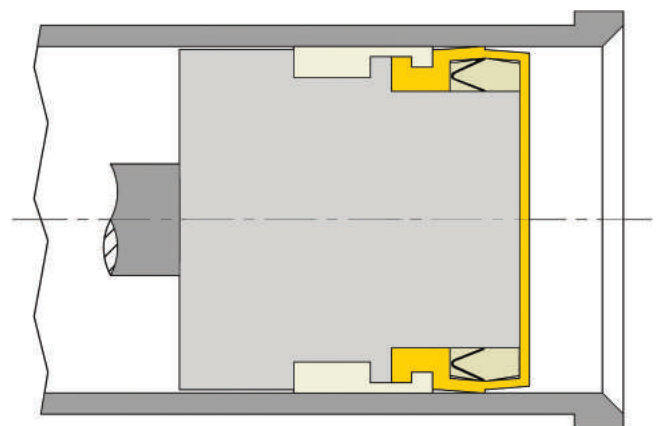
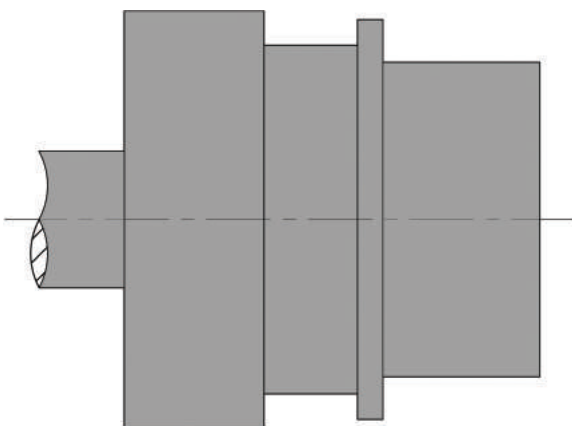


Principali caratteristiche tecniche

- Parte anteriore a contatto con il prodotto completamente chiusa e priva di interstizi.
- Massima pulizia e asetticità
- Realizzata in più parti in kit con fascia di guida
- Parte esterna dinamica a contatto con il prodotto simile a tutte le versioni cassaforte
- Parte interna statica specifica per spinta e memoria
- Versioni con molla in acciaio inox alloggiata internamente
- Alloggiabile solo in sede aperta

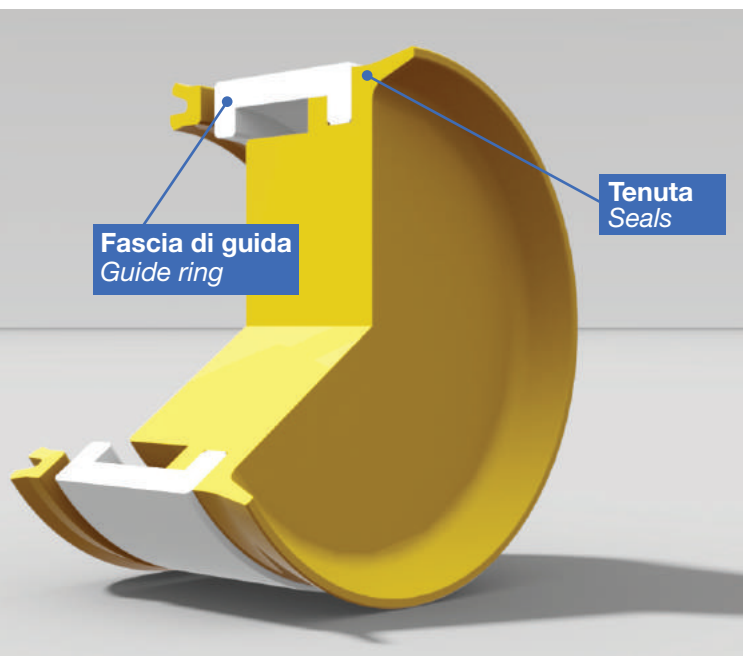
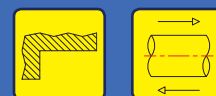
Main technical characteristics

- *Forward part in contact with the product, completely closed and without crazing.*
- *Maximum cleaning and sterility*
- *Made in several kit parts with guide ring*
- *External dynamic part in contact with the product similar to all the strongbox versions*
- *Internal static part specific for thrust and memory*
- *Versions with internally lodged spring in stainless steel*
- *Only seatable in open seat*



NB. Per sedi, ingombri e installazioni consultare il nostro ufficio tecnico.
NB. For seating, obstructions and installations consult our technical department.

TENUTA "CLEANING SPECIALE"
MOD. CS POL-INOX / CS2 POL-INOX
"CLEANING SPECIAL" PISTON SEAL
MOD. CS POL-INOX / CS2 POL-INOX



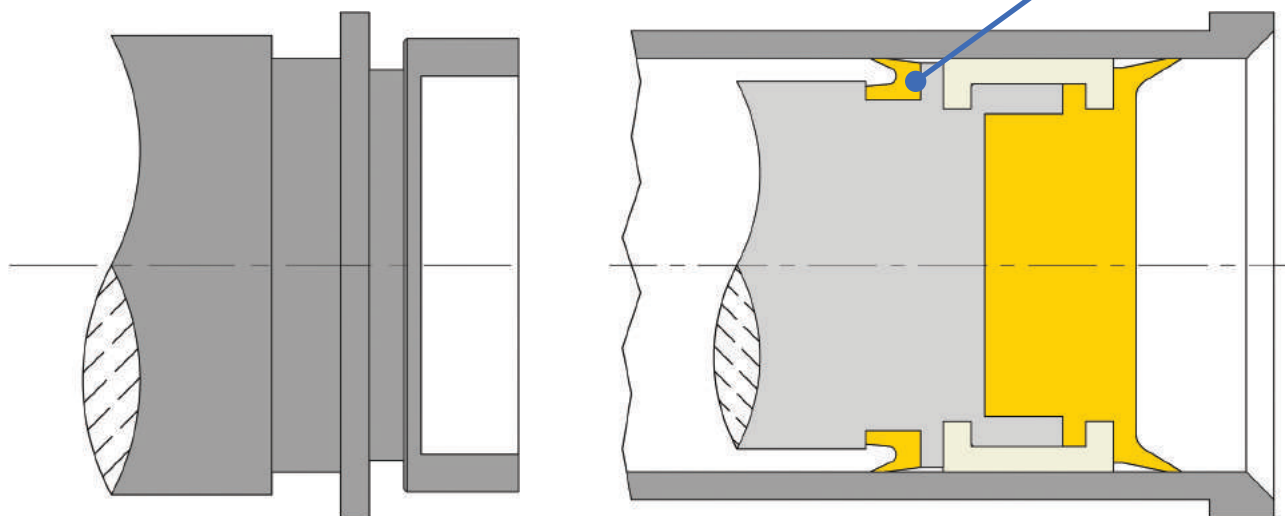
Principali caratteristiche tecniche

- Realizzata in un unico pezzo
- Parte anteriore a contatto con il prodotto da confezionare liscia e priva di interstizi
- Assemblaggio con pistone tramite fascia di guida
- Montaggio e manutenzione semplificati
- **CS:** Modello raschiante per fluidi in genere
- **CS2:** Modello raschiante doppio effetto per creme e salse molto dense

Main technical characteristics

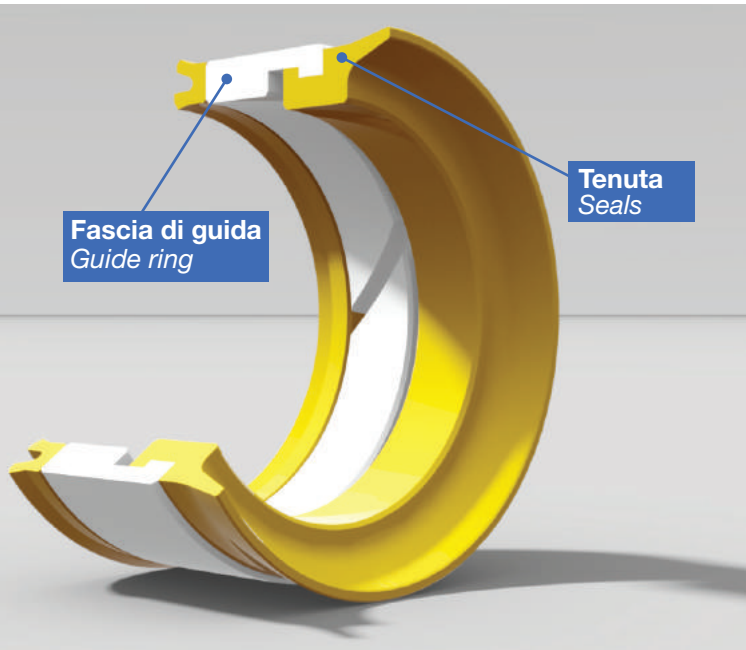
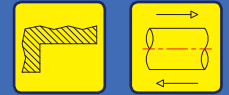
- Made in a single piece
- Forward part in contact with the product to be packaged, smooth and without crazing
- Assembly with piston using guide ring
- Simplified assembly and maintenance
- **CS:** Scraper model for fluids in general
- **CS2:** Double-effect scraper model for very dense creams and sauces

TENUTA DOPPIO EFFETTO DOUBLE EFFECT SEAL



NB. Per sedi, ingombri e installazioni consultare il nostro ufficio tecnico.
NB. For seating, obstructions and installations consult our technical department.

TENUTA PISTONE “CLEANING SPECIALE”
MOD. CS / CS2
“CLEANING SPECIAL” PISTON SEAL
MOD. CS / CS-2



Principali caratteristiche tecniche

- Profilo specifico privo di interstizi e sottosquadri.
- Processo di lavaggio e sanificazione semplificati.
- Profilo raschiante per evitare la formazione di residui sulla parete del cilindro.
- Realizzate con materiali certificati per settore food&beverage

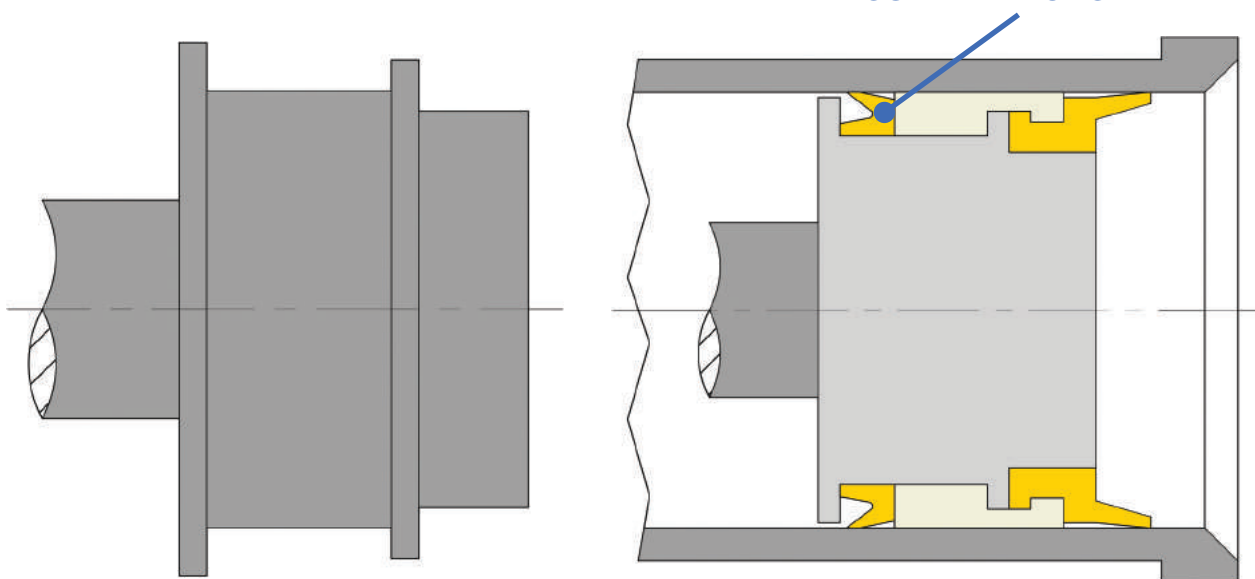
- CS: Modello raschiante per fluidi in genere
- CS2: Modello raschiante doppio effetto per creme e salse molto dense

Main technical characteristics

- Specific profile devoid of cracks and undercuts.
- Simplified process of washing and sanitizing.
- Scraping surface to avoid the formation of residues on the cylinder walls.
- Created with certified materials for the Food & Beverage sector

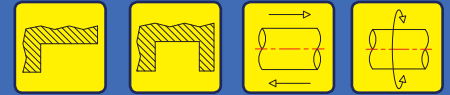
- CS: Scraper model for fluids in general
- CS2: Double-effect scraper model for very dense creams and sauces

TENUTA DOPPIO EFFETTO
DOUBLE EFFECT SEAL



NB. Per sedi, ingombri e installazioni consultare il nostro ufficio tecnico.
NB. For seating, obstructions and installations consult our technical department.

TENUTA STELO "CLEANING STANDARD"
S1 PN - RI PN
"CLEANING STANDARD" ROD SEAL
S1 PN - RI PN



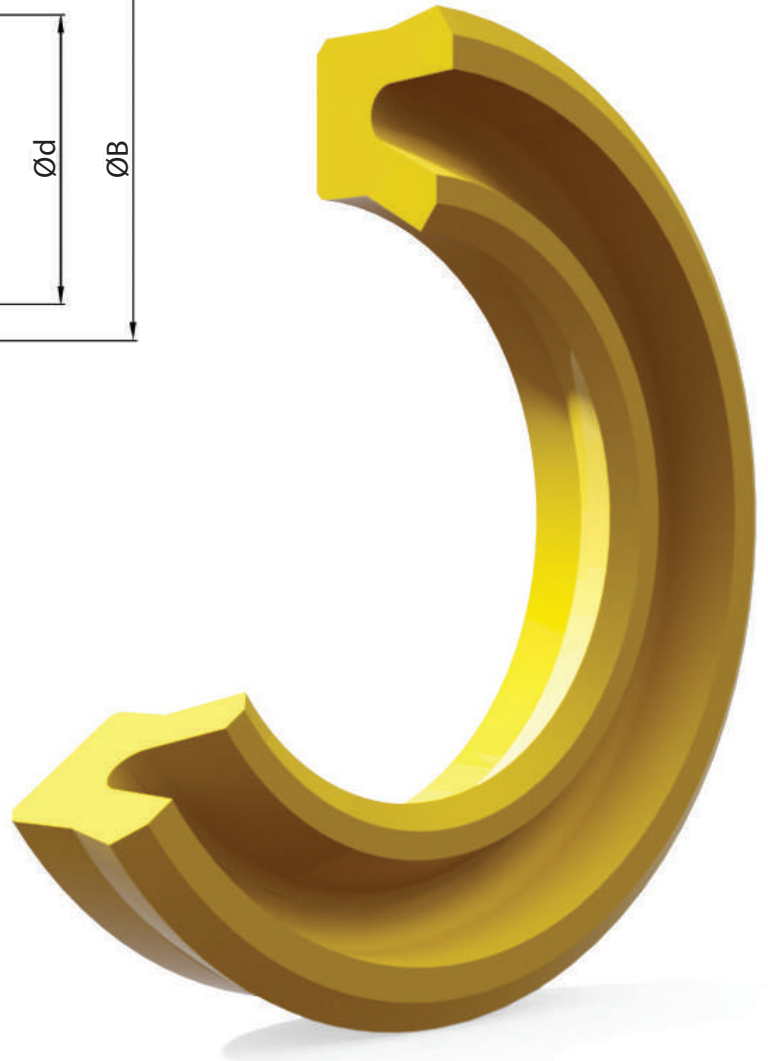
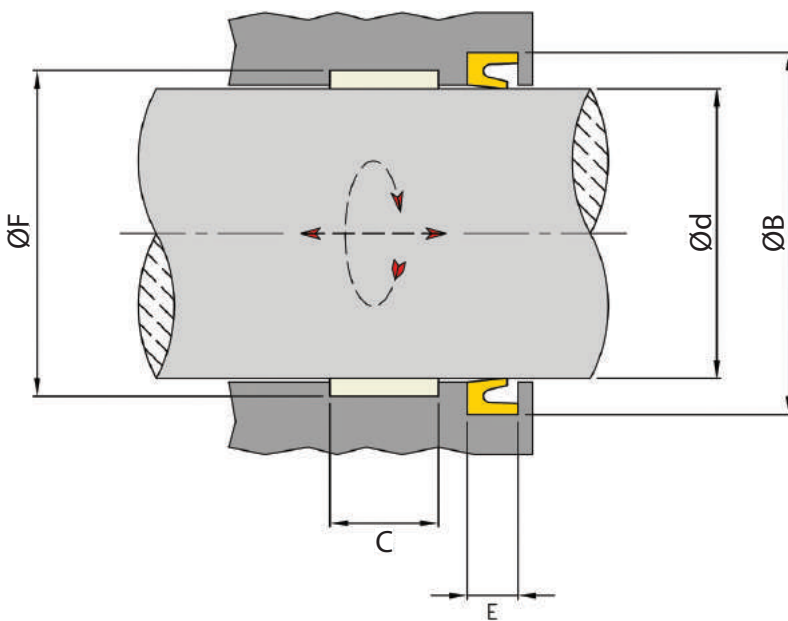
Stelo Rod

Principali caratteristiche tecniche

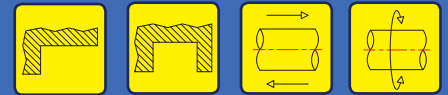
- Profilo per movimenti alternati e rotanti
 - Perfettamente intercambiabili con normali guarnizioni a labbro
 - Adattabili a sedi esistenti
 - Profilo raschiante per evitare la formazione di residui sullo stelo.
 - Realizzate con materiali certificati per settore food&beverage
-
- S1 PN: Modello per movimenti alternati
 - RI PN: Modello per movimenti rotanti

Main technical characteristics

- Profile for alternate and rotating movement
 - Perfectly interchangeable with normal lip seals
 - Adaptable to existing seating
 - Scraping surface to avoid the formation of residues on the stem.
 - Created with certified materials for the Food & Beverage sector
-
- S1 PN: Model for alternating movements
 - RI PN: Model for rotating movements



TENUTA PISTONE “CLEANING STANDARD”
K1 PN - RE PN
“CLEANING STANDARD” PISTON SEAL
K1 PN - RE PN



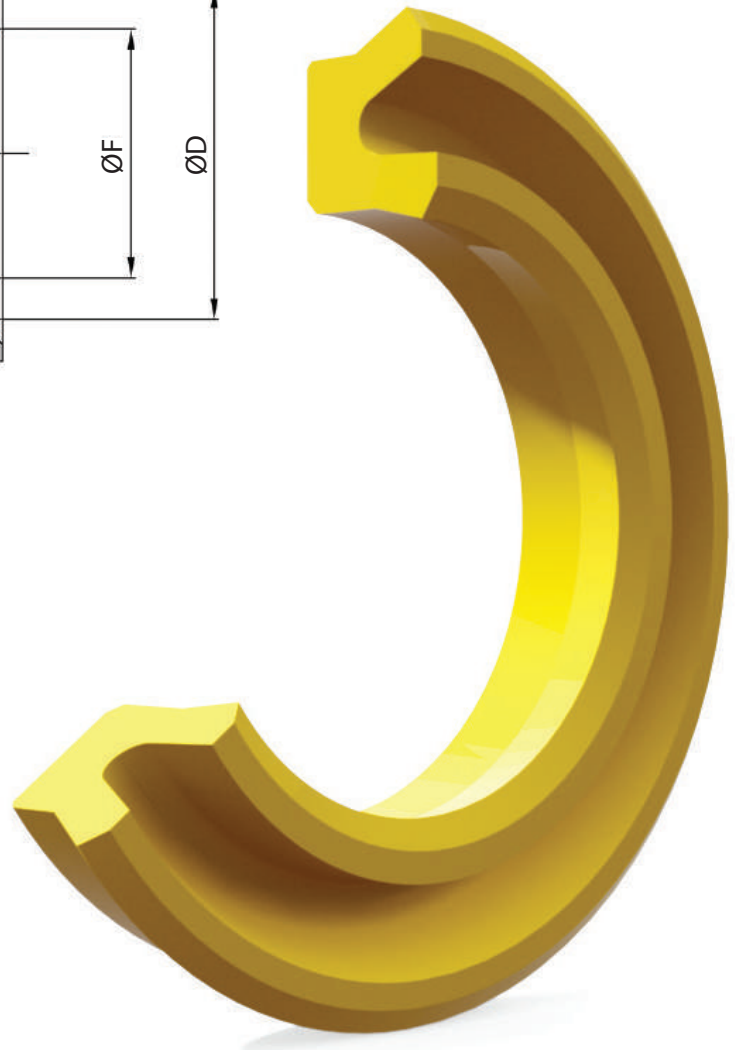
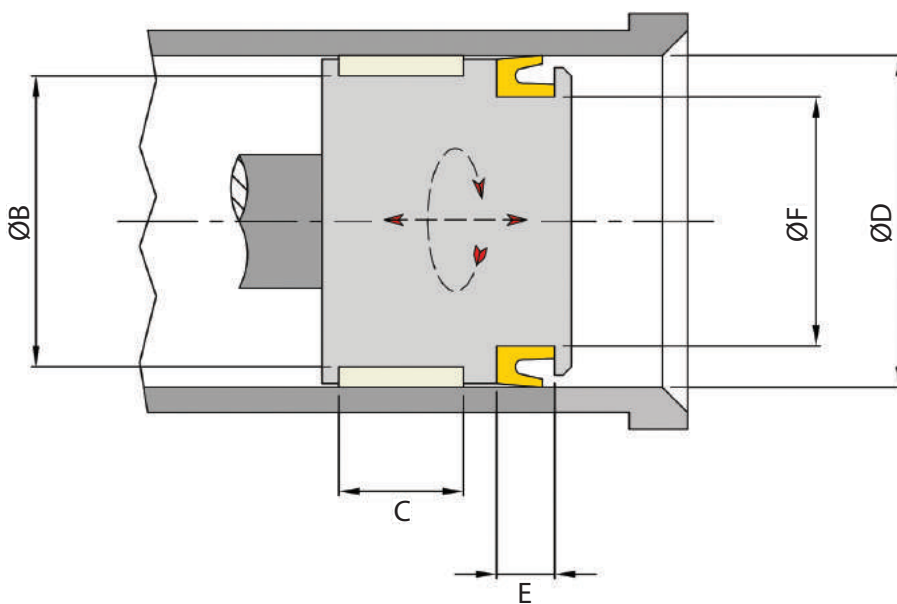
Pistone
Piston

Principali caratteristiche tecniche

- Profilo per movimenti alternati e rotanti
- Perfettamente intercambiabili con normali guarnizioni a labbro
- Adattabili a sedi esistenti
- Profilo raschiante per evitare la formazione di residui sulla parete del cilindro.
- Realizzate con materiali certificati per settore food&beverage
- **K1 PN: Modello per movimenti alternati**
- **RE PN: Modello per movimenti rotanti**

Main technical characteristics

- Profiles for alternate and rotating movements
- Perfectly interchangeable with normal lip seals
- Adaptable to existing seating
- Scraping surface to avoid the formation of residues on the cylinder walls.
- Created with certified materials for the Food & Beverage sector
- *K1 PN: Model for alternate movements*
- *RE PN: Model for rotating movements*



I nostri profili

Our profiles

Raschiatori

Scrapers

L'anello raschiatore è l'elemento fondamentale per la protezione degli steli, delle guarnizioni e degli organi di guida dei cilindri e di altre apparecchiature.

Infatti impedire l'ingresso di sporcizia, particelle e umidità nella guida dello stelo quando si ritrae o ruota, previene la formazione di rigature, la contaminazione dei fluidi e prolunga sensibilmente la durata delle guarnizioni di tenuta interne.

Universalflex è in grado di produrre un'ampia gamma di raschiatori, con materiali in grado di garantire bassa frizione e elevata resistenza all'usura.

The scraper ring is the fundamental element for the protection of rods, the seals and the cylinder guide parts and other equipment.

Indeed, impeding the ingress of dirt, particles and humidity into the rod guide when it retracts or rotates, prevents the formation of ridging, contamination of fluids and significantly prolongs the life of the internal sealing gaskets.

Universalflex is able to produce a large range of scrapers, with materials capable of guaranteeing low friction and elevated resistance to wear.



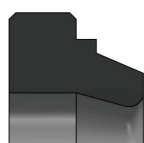
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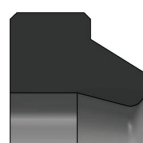
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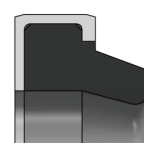
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U-A104



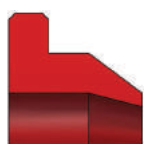
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U-A106



U-A107



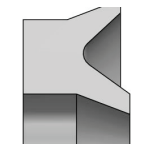
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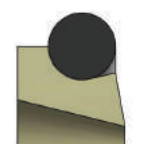
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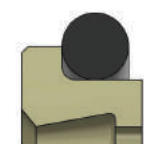
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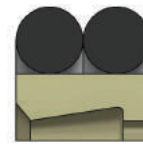
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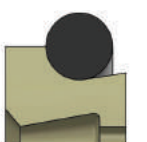
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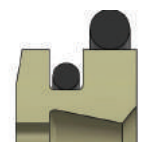
U-A116



U-A117



U-A118



U-A119



U-A211



U-A212



U-A213



Guarnizioni per stelo

Rod seals

La nostra attrezzatura, ci consente di realizzare una gamma illimitata di tenute per stelo che sono il risultato di anni di esperienza e sviluppo di mescole e profili.

La perfetta adattabilità alle vostre sedi, ci permette di proporre la soluzione intercambiabile più idonea a migliorare la resistenza all'attrito, all'usura e alle più severe condizioni di esercizio.

Sia per utilizzi gravosi sia in fase di progettazione, Vi invitiamo a rivolgervi al nostro ufficio tecnico che in costante collaborazione con voi stabilirà la scelta di profilo e materiale più idonei.

Our equipment allows us to make an unlimited range of seals for rods which are the result of years of experience and development of compounds and profiles

The perfect adaptability to your seating allows us to offer interchangeable solutions most adapted to improve resistance to friction and wear under the most severe operating conditions.

For heavy use in the design phase, we invite you to contact our technical department which, in constant collaboration with you will establish the choice of the most suitable profile and material.



U-S101



U-S102



U-S102R



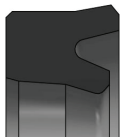
U-S103



U-S104



U-S104R



U-S105



U-S106



U-S107



U-S108



U-S109



U-S110-112



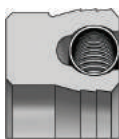
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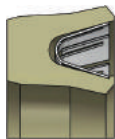
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U-S117R



U-S118



U-S119



U-S120



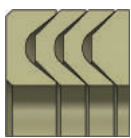
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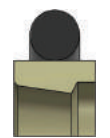
U-S124



U-S125



U-S126-128



U-S129



U-S130



U-S131



U-S138



U-S139



U-S141



U-S142



U-S199



U-S205



U-S216



U-S238

I nostri profili

Our profiles

Guarnizioni per pistone

Piston seals

I dati di pressione, temperatura e velocità di scorrimento sono fondamentali per la scelta del profilo e del materiale della guarnizione. Ecco perché Universalflex studia i suoi profili per assicurare un carico radiale proporzionale alla pressione e agli altri parametri, ottenendo così le condizioni di tenuta ideali ottimizzando la performance della guarnizione.

The pressure, temperature and stroke speed are fundamental for the choice of profile and material for the seal. That is why Universalflex studies its profiles to ensure a radial load proportional to the pressure and the other parameters, thus obtaining the ideal sealing conditions and optimising the performance of the seal.



U-K101



U-K102



U-K102R



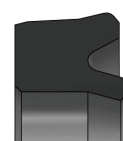
U-K103



U-K104



U-K104R



U-K105



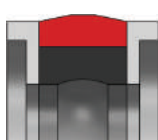
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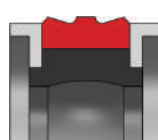
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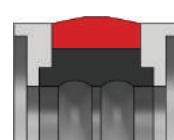
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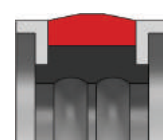
U-K109



U-K109D



U-K109H



U-K109N



U-K110-1122



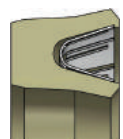
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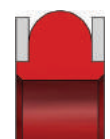
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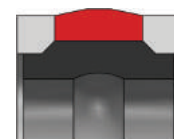
U-K118



U-K119



U-K120



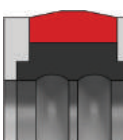
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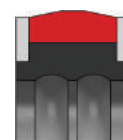
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U-K23D



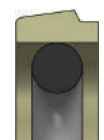
U-K123H



U-K123N



U-K124



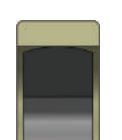
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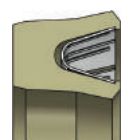
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U-K127



U-K138



U-K139



U-K140



U-K141



U-K142



U-K143



U-K144



U-K145



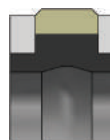
U-K199



U-K205



U-K216



U-K222



U-K238

Guarnizioni per alberi rotanti (rotor)

Seals for rotor shafts

Il moto rotativo può essere continuo, alternato, elicoidale o rototraslante e a sua volta può essere associato a condizioni di esercizio particolari.

Quando si raggiungono elevati valori di pressione, velocità e temperatura, una normale guarnizione non può dare garanzie di tenuta e di durata.

Universalflex grazie al know-how e agli svariati materiali disponibili è in grado di offrire la giusta soluzione per la vostra applicazione.

Ad esempio è possibile realizzare guarnizioni composte (2 materiali diversi/con o-ring/con molla metallica, ecc.) che vanno a coprire un vastissimo campo di impiego.

The rotational motion may be continuous, alternating, helicoidal or roto-shifting and in turn it may be associated with particular operating conditions.

When elevated pressure, velocity and temperature values are reached, a normal seal cannot guarantee a full seal and its lifetime.

Universalflex, thanks to know-how and the various materials available, is able to offer the correct solution for your application.

For example, it is possible to create composite seals (2 different materials/with O-ring/with metal spring, etc.) which cover a vast range of uses.



U-R101



U-R102



U-R103



U-R104



U-R105



U-R106



U-R107



U-R108



U-R109



U-R110



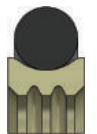
U-R111



U-R112



U-R113



U-R115



U-R116



U-R117



U-R118



U-R119



U-R121



U-R201



U-R202



U-R203



U-R204



U-R205



U-R206



U-R207



I nostri profili

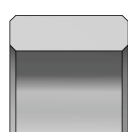
Our profiles

Fasce di guida e anelli anti estrusori

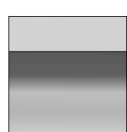
Guide rings and anti-extrusion rings

The guide rings and piston rings have the role of avoiding contact between the piston and the cylinder at those points where radial and perpendicular forces might act in the direction of movement. This is why Universalflex, in addition to the standard profiles, also produces a vast range of special guide elements, constantly enlarged with the collaboration of our clients.

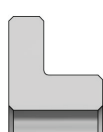
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U-F101



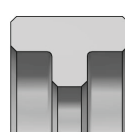
U-F102



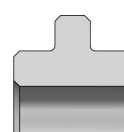
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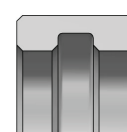
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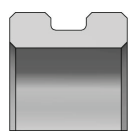
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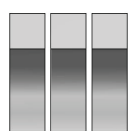
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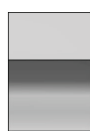
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U-F108



U-FB102



U-ST108



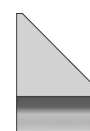
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U-ST110



U-ST111



U-ST112



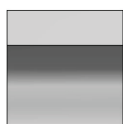
U-ST113

Guarnizioni statiche ed o-ring

Static and o-ring seals

Universalflex, in addition to the standard profiles, produces an infinite variety of seals by turning various types of materials according to the needs of the client. Thanks to special tools, Universalflex can make O-rings in standard sizes, metric or in any other measurement that the client needs.

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U-FL101



U-FL102



U-FL106



U-FL108-2



U-FL109



U-FL110



U-FL111

	Polyurethane	Shore	°C	Velocità m/s
	■ H-PU1 red Poliuretano termoplastico	95 SH A	-30° / +110°	0.7
FDA	■ H-PU2 natural white Poliuretano termoplastico	95 SH A	-30° / +110°	0.7
	■ H-PU3 green Poliuretano termoplastico	93 SH A	-30° / +110°	0.7
	■ H-PU4 yellow Poliuretano termoplastico	55 SH D	-30° / +110°	0.7
	■ H-PU5 red C-HPU casted Poliuretano termoplastico	96 SH A	-30° / +110°	0.7
	■ H-PU6 dark grey Poliuretano termoplastico (autolubric)	95 SH A	-30° / +110°	0.7
	■ H-PU7 blue Poliuretano termoplastico (Low Temperature)	95 SH A	-30° / +110°	0.7
	■ H-PU8 black Poliuretano termoplastico	72 SH D	-30° / +110°	0.7
	NBR			
	■ NBR1 black Elastomero	85 SH A	-30° / +110°	0.5
FDA	□ NBR2 white Elastomero	85 SH A	-30° / +110°	0.5
	■ NBR3 black (T-NBR) Elastomero (Low Temperature)	85 SH A	-30° / +110°	0.5
	FPM			
	■ FPM1 brown Elastomero fluorurato	85 SH A	-20° / +220°	0.8
FDA	□ FPM2 white Elastomero fluorurato (FKM)	85 SH A	-20° / +240°	0.8
	■ FPM3 black Elastomero fluorurato	85 SH A	-20° / +220°	0.8
	H-NBR			
FDA	□ H-NBR1 white NBR Hidrogenato 85	85 SH A	-30° / +150°	0.7
	■ H-NBR2 green NBR Hidrogenato 85	85 SH A	-30° / +150°	0.7
	■ H-NBR3 black NBR Hidrogenato (90 A FDA CFR 21-177.2600 ED approved to NORSOK M-710 standard)	85 SH A	-30° / +150°	0.7
	EPDM			
FDA	■ EPDM1 black Ethylene propylene diene rubber (Peroxyd)	85 SH A	-40° / +150°	0.5
FDA	□ EPDM2 white Ethylene propylene diene rubber	85 SH A	-40° / +150°	0.5
	■ EPDM3 black Ethylene propylene diene rubber (FDA/KTW)	85 SH A	-40° / +150°	0.5
	MVQ			
FDA	■ MVQ1 translucent Methyl vinyl silicone rubber	85 SH A	-60° / +200°	0.5
FDA	□ MVQ2 white Methyl vinyl silicone rubber	85 SH A	-60° / +200°	0.5
FDA	■ MVQ3 blue Methyl vinyl silicone rubber	85 SH A	-60° / +200°	0.5
	OVERVIEW PLASTIC			
FDA	□ POM white Copolimer polyacetal	85 ± 3 SH D	-40° / +110°	0.8
	■ PA natural Polyamide	85 ± 3 SH D		
	□ UHMW-PE natural Polyethylene of ultra hight molecular weight	61 ± 3 SH D	-200° / +80°	1
	PTFE (Polytetrafluoroethylene)			
FDA	□ FL1 white Ptf virgin (FDA) (PTFE G400)	≥ 51 SH D	-200° / + 260°	15
	■ FL2 grey Ptf + glass fibres + MoS2 (PTFE G418)	≥ 55 SH D	-200° / + 260°	15
	■ FL3 brown Ptf + bronze (PTFE G416)	≥ 58 SH D	-200° / + 260°	15
	■ FL4 dark grey Ptf + carbon + graphite (PTFE G453)	≥ 64 SH D	-200° / + 260°	15
FDA	□ FL5 white Ptf + floruro di calcio (FDA) (PTFE G465)	≥ 56 SH D	-200° / + 260°	15
	■ FL6 torquoise Ptf + pigmentes (PTFE G423)	≥ 62 SH D	-200° / + 260°	15
	■ FL7 cream Ptf + peek (PTFE G482)	≥ 58 SH D	-200° / + 260°	15
	■ FL8 cream Ptf + rulon j (polymer-filled) (PTFE G461)	≥ 55 SH D	-200° / + 260°	15
	■ FL9 cream Ptf + ekonol (PTFE G479)	≥ 58 SH D	-200° / + 260°	15
	■ FL12 grey Ptf + mineral fibres (PTFE G663)	≥ 56 SH D	-200° / + 260°	15

Compatibilità chimiche

Chemical compatibility

Compatibilità / Compatibility

- **Ottima**
Excellent
- **Buona**
Good
- **Media**
Average
- **Scarsa**
Poor
- **Non compatibile**
Not compatible

Materiali/ Material	Fluidi/ Fluids																									
	Aceto \ Vinegar	Acetone \ Acetone	Acido Citrico \ Citric Acid	Acido Cloridrico \ Hydrochloric Acid	Acido Solforico diluito \ Diluted Sulphuric Acid	Acqua \ Water	Acqua distillata 100°C \ Distilled Water 100°C	Acqua glicole \ Water Glycol	Acqua marina \ Sea Water	Acqua ossigenata 1% \ Oxygenated water 1%	Acqua ossigenata 30% \ Oxygenated water 3%	Acqua potabile \ Drinking water	Alcol etilico \ Ethyl alcohol	Ammoniaca 10% \ Ammonia 10%	Anidride carbonica \ Carbon dioxide	Anidride solforosa \ Sulphur dioxide	Aria \ Air	Azoto \ Nitrogen	Benzina \ Petrol	Benzolo \ Benzole	Birra \ Beer	Caffè \ Coffee	Carburante diesel \ Diesel fuel	Cherosene \ Kerosene	Cloruro di sodio 10% \ Sodium Chloride 10%	Etere etilico \ Diethyl ether
NBR	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
HNBR	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
EPDM	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FPM	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FKM *	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MVQ	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
H-PU1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
H-PU2 *	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
POM	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
UHMW-PE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FL1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FL2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FL3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FL5 *	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FL7	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FL8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FL12	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

*Sviluppati su nostra richiesta / *Developed at our request



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