



MACHINED PARTS

Express delivery times of your custom parts
manufactured on drawings or models!

Expert in sealing solutions



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+ 70 000 REFERENCES
EXPRESS DELIVERY
A TEAM OF EXPERTS

- A WIDE RANGE
Rotary - Hydraulic - Pneumatic - Aseptic
Machined parts



- DELIVERY 24/48 H
Order placed before 4pm (16h)
will be sent on the same day!



- TECHNICAL SUPPORT
Advises, helps and provides you technical assistance!

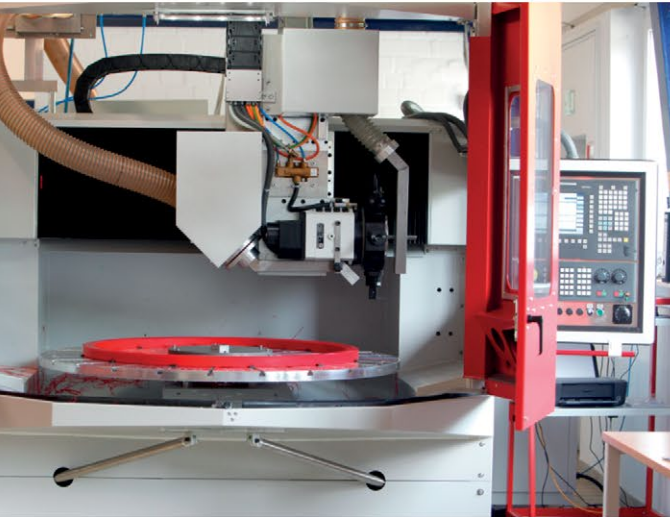


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2

Feel free to contact our technical support, we will be glad to help you to choose the profile and the material to suit your needs.



SEAL FRANCE provides you technical assistance for your seals from prototype to medium series, according to your specifications:

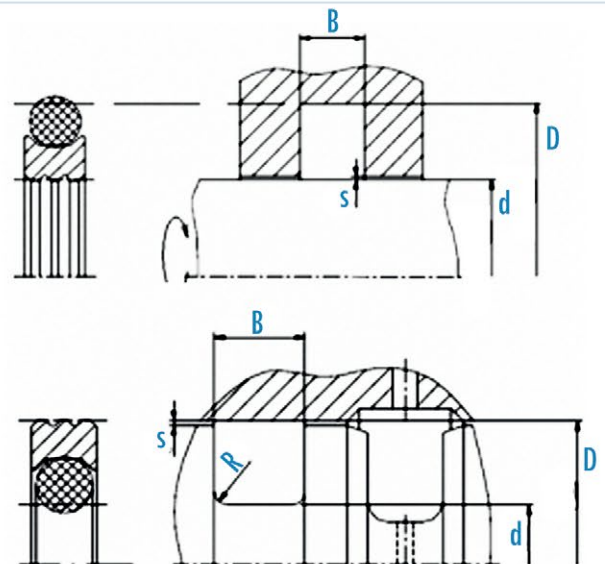
- Adaptability according to your dimensions and housing dimensions.
- In any materials, from standard to approved materials as FDA, ACS, USP VI...

The information required to ensure suitable adaptability to your housing dimensions, are:

- Outer housing dimensions (D)
- Inner housing dimensions (d)
- Height dimensions or groove width (B)
- Piston diameter, rod diameter
- Operating temperature (min and max)
- Travel or rotation speed
- Operating pressure
- Fluids in contact
- Particular conditions



Please use our diagrams for your request mentioning all necessary information.



WIPERS

	PU	FKM	NBR	EPDM	SILICONE	PTFE	FILLED PTFE
LIP		 	 	 	 		
PROFILES	A1 → A15 except A13					A16 & A17	
SPEED (m/s)	→ 4 m/s					→ 4 m/s	

	POM	PA	PTFE	FILLED PTFE
CASE & A13	 	 	 	 
			 	 

For special application, it is possible to use other materials (PE, PEEK, HNBR...).

ROD AND PISTON SEALS

Profiles used in alternative linear motions.

	PU	FKM	NBR	EPDM	SILICONE	PTFE	FILLED PTFE
U		 	 	 	 		
PROFILES	All except →					S19, S 19S, K 19 K 19 S	
SPEED (m/s)	→ 0,5 m/s					→ 4 m/s	
PRESSURE (bar)	→ 400	→ 160				→ 400	

Elastomer O-ring, PTFE PA or POM back-up ring.

COMPOSITE SEALS

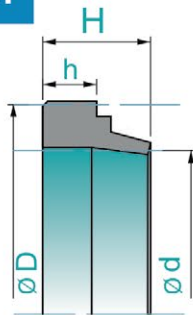
Elastomer O-ring or expander, PTFE or FILLED PTFE rings.

In some cases, the ring can be made in PU, PEEK, PA, POM...

RAFTERS

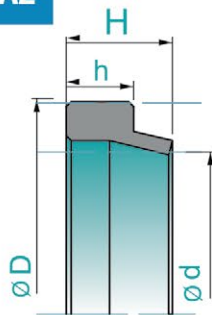
	PU	FKM	NBR	HNBR	EPDM	SILICONE	PTFE	FILLED PTFE
INTERMEDIATE ELEMENTS		 	 	 	 	 		
HEAD & FOOT	POM, PA, or PTFE						PTFE, POM or PA	
PROFILES	CHE5, CHN5 (can be used in rod or piston)						CHV5, CHR5	
SPEED (m/s)	→ 0,5 m/s						→ 4 m/s	
PRESSURE (bar)	→ 400				→ 160			→ 400

A1



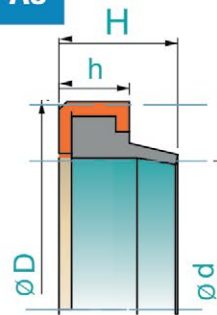
Without case

A2



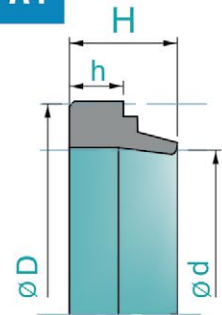
Without case

A3



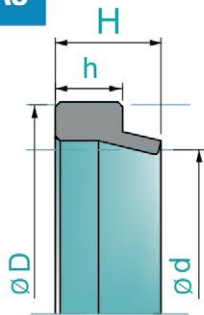
With case
 $\emptyset > 20 \text{ mm}$

A4



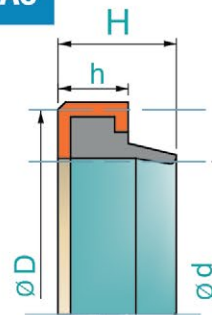
Without case

A5



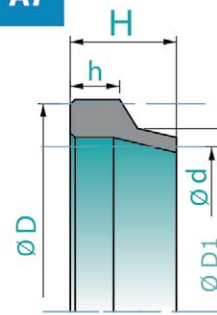
Without case

A6



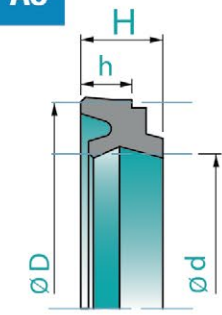
With case
 $\emptyset > 20 \text{ mm}$

A7



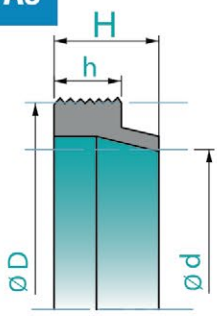
Without case

A8



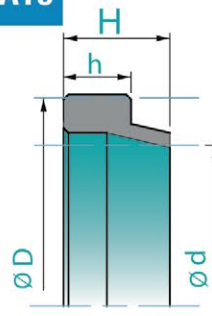
With flange

A9



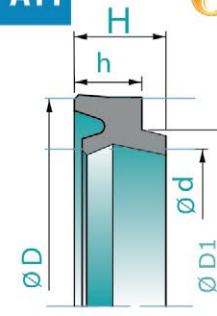
Without case
US standard

A10



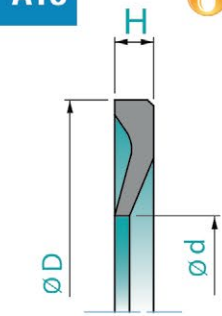
Without case
US standard

A11



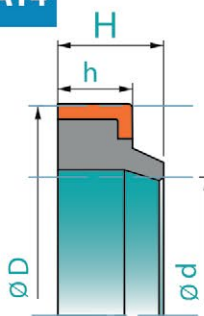
Without case
Double lip

A13



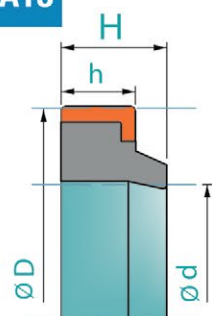
Wiper ring

A14



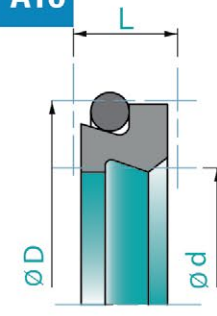
Same as A3
 $\emptyset < 20 \text{ mm}$

A15



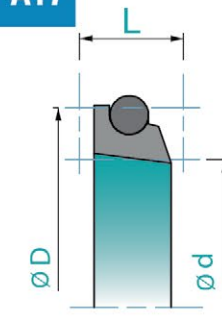
Same as A6
 $\emptyset < 20 \text{ mm}$

A16



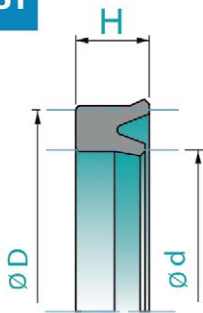
Double lip + O-ring

A17



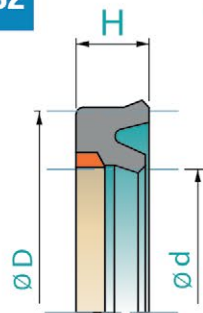
Single lip + O-ring

S1



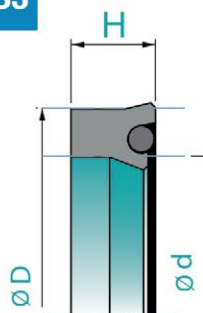
Asymmetric

S2



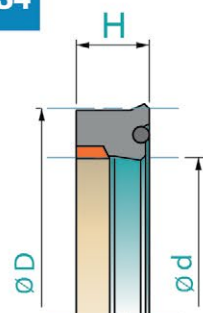
Asymmetric + BAE

S3



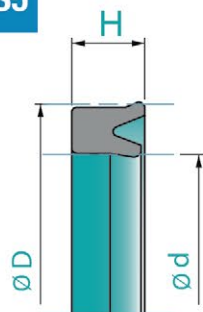
Asymmetric
+ O-ring

S4



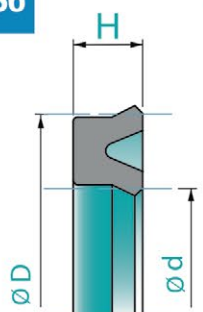
Asymmetric
+ BAE + O-ring

S5



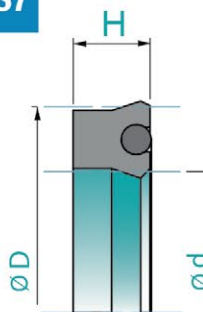
Asymmetric

S6



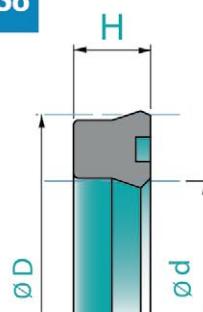
Symmetric

S7



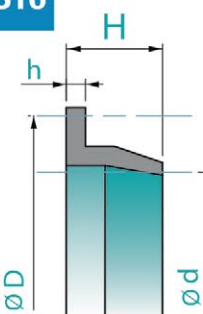
Symmetric
+ O-ring

S8



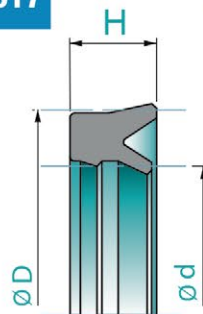
Compact

S16



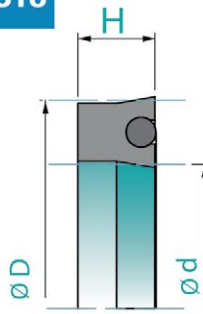
Cap

S17



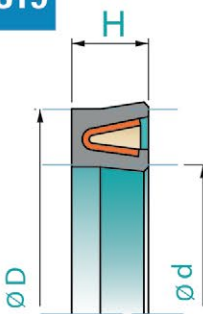
Double sealing lips

S18



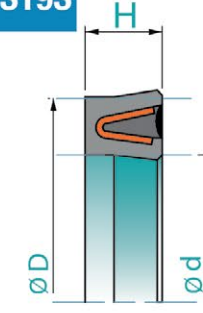
Symmetric
+ O-ring

S19



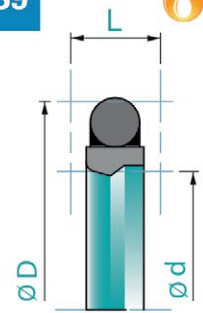
Stainless steel spring

S19S



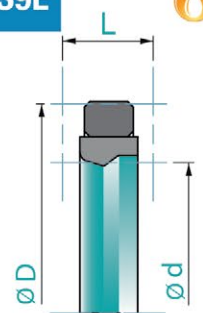
Stainless steel spring
+ silicone

S9



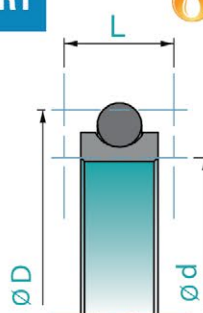
Single acting
O-ring expander

S9E



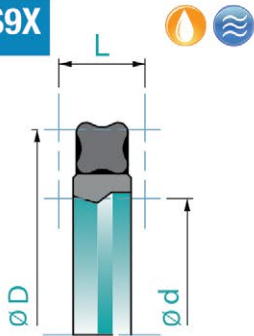
Single acting
Square expander

RT



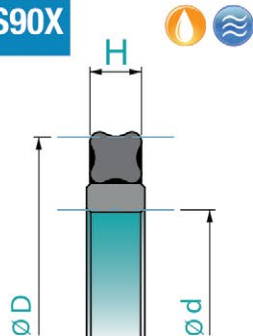
Double acting
O-ring expander

S9X



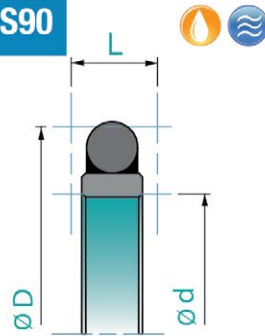
Single acting
JT4 expander

S90X



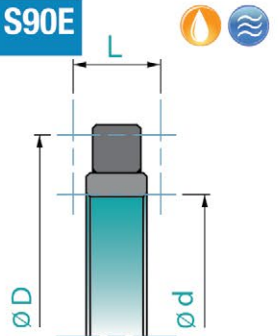
Double acting
JT4 expander

S90



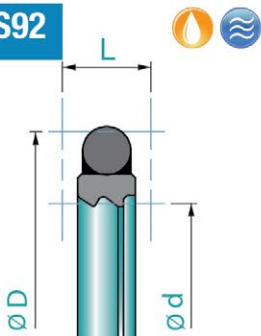
Double acting
O-ring expander

S90E



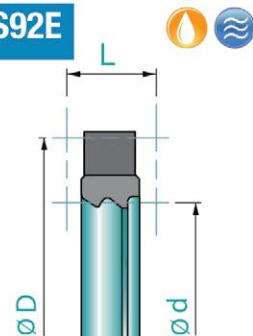
Double acting
Square expander

S92



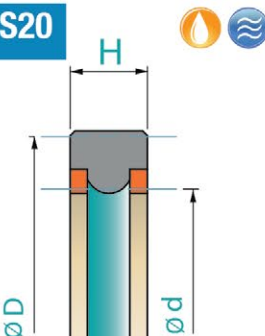
Single acting
Double lip

S92E



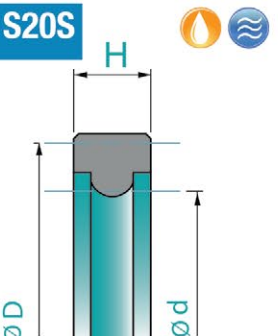
Single acting
Double lip

S20



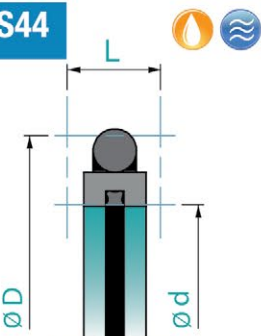
T Seal + BAE

S20S



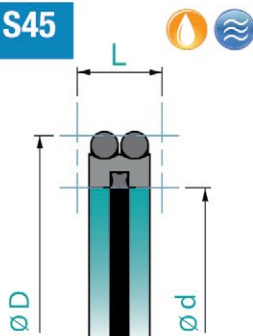
T Seal

S44



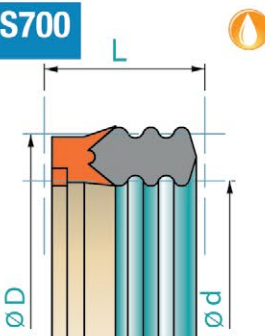
Double acting
+ O-ring expander + JT4

S45



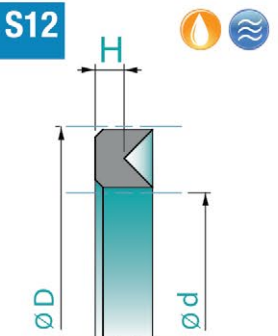
Double acting +
2 O-rings expanders + JT4

S700



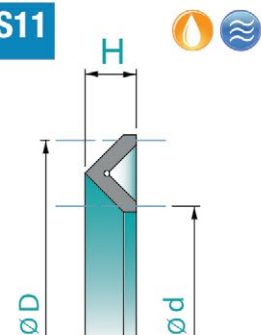
Single acting
Resistant up to 700 bar

S12



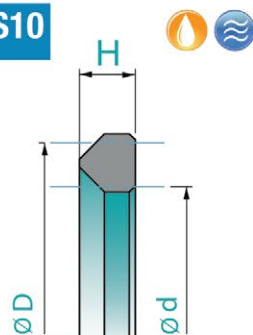
Foot for CHE5
POM, PA or PTFE

S11



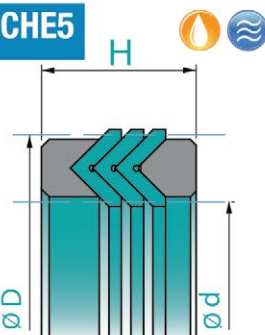
V for CHE5
PU or elastomers

S10



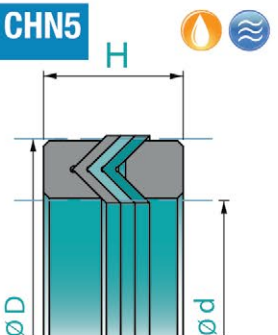
Head for CHE5
POM, PA or PTFE

CHE5



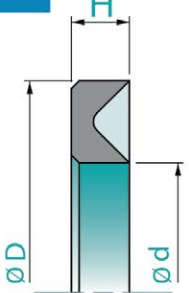
Rafters 90°

CHN5



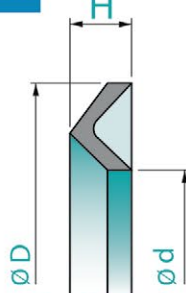
Rafters 60°

S27



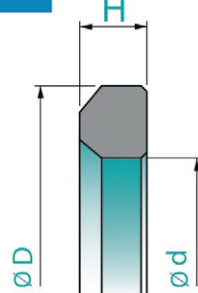
Foot for CHV5
POM, PA or PTFE

S26



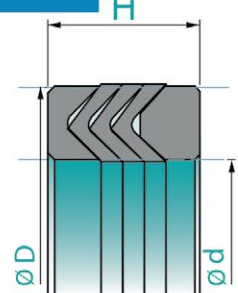
V for CHV5
PU or elastomers

S25



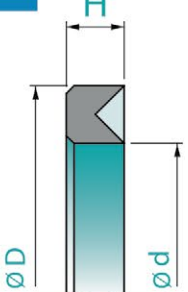
Head for CHV5
POM, PA or PTFE

CHV5



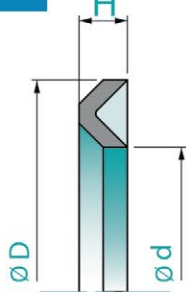
RAFTERS 90°

S31



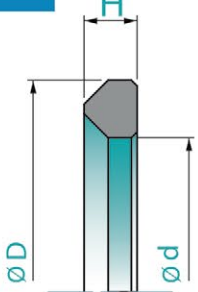
Foot for CHR5
POM, PA or PTFE

S30



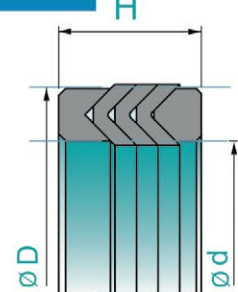
V for CHR5
PU or elastomers

S29



Head for CHR5
POM, PA or PTFE

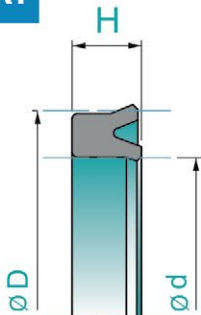
CHR5



Rafters 60°

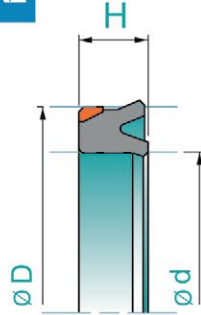


K1



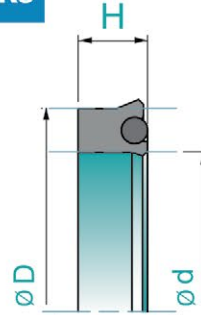
Asymmetric

K2



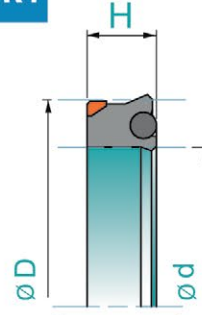
Asymmetric
+ BAE

K3



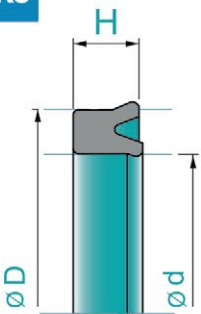
Asymmetric
+ O-ring

K4



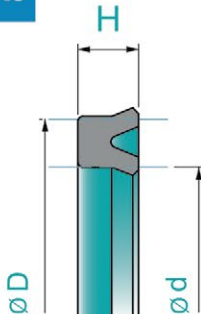
Asymmetric
+ O-ring + BAE

K5



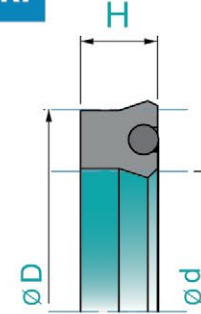
Asymmetric

K6



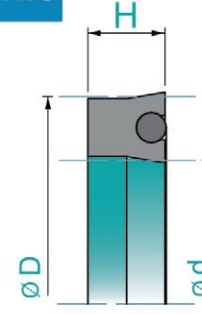
Symmetric

K7



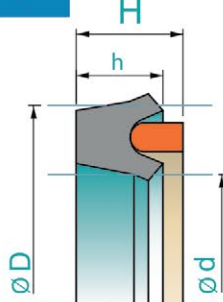
Symmetric
+ O-ring

K18



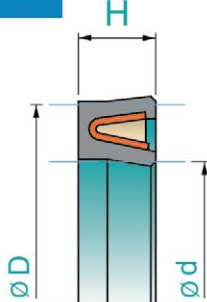
Symmetric
+ O-ring

K22



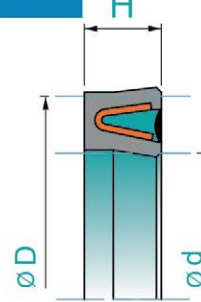
Symmetric
+ limiter

K19



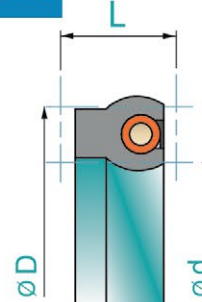
Stainless steel
spring

K19S



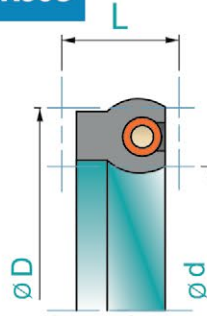
Stainless steel
spring + silicone

K30



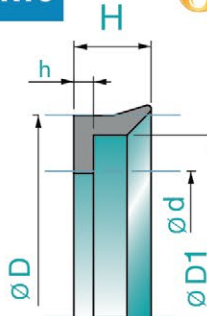
Round stainless
steel spring
(also exists in rod)

K30S



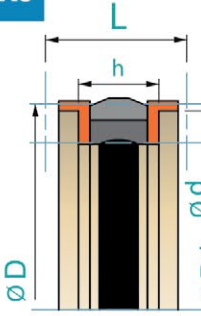
Round stainless steel
spring + silicone
(also exists in rod)

K16

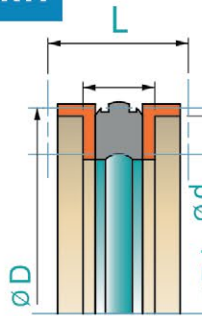


Plate

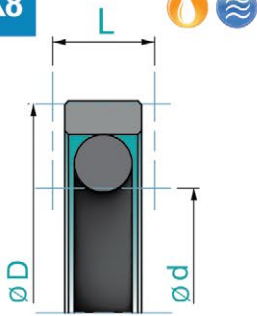
K9



K17

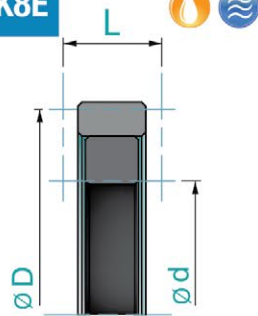


K8



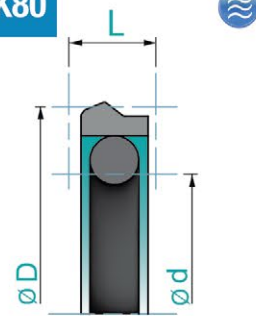
Double acting
O-ring expander

K8E



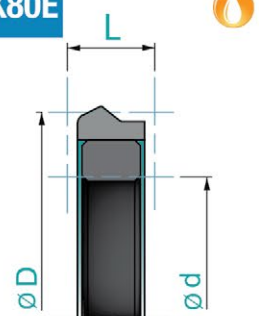
Double acting
Square expander

K80



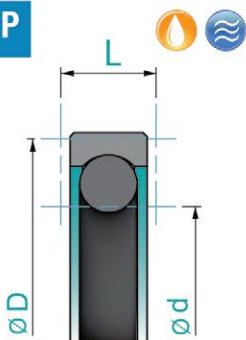
Single acting
O-ring expander

K80E



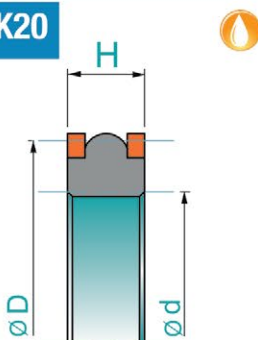
Single acting
Square expander

RP



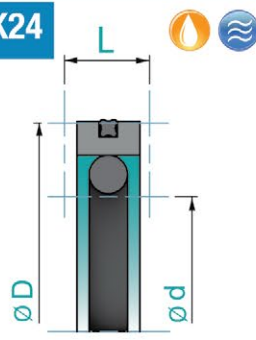
Double acting
reduce spaces

K20



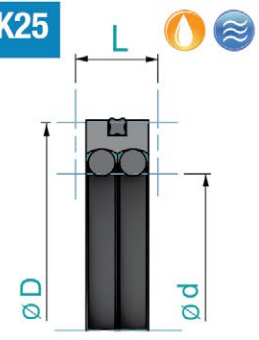
T Seal + BAE

K24



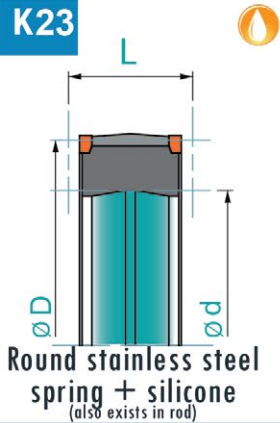
Double acting
+ O-ring expander + JT4

K25



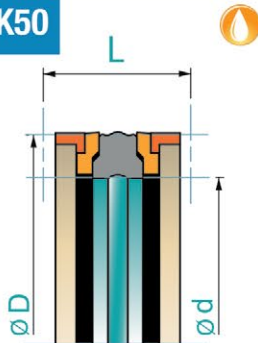
Double acting +
2 O-rings expanders + JT4

K23

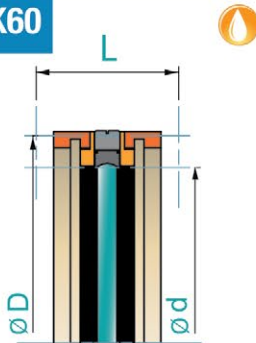


Round stainless steel
spring + silicone
(also exists in rod)

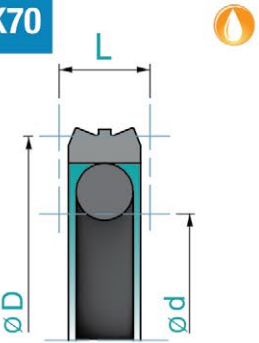
K50



K60

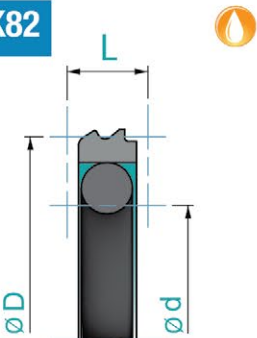


K70



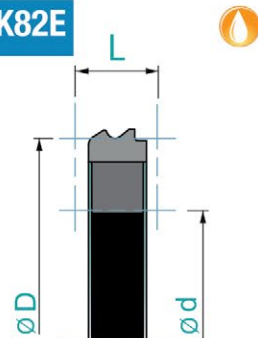
Double acting

K82



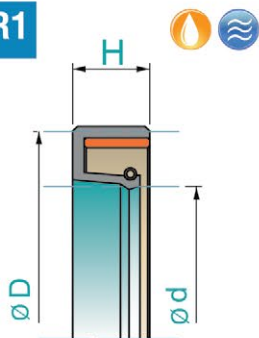
Single acting
Double lip

K82E



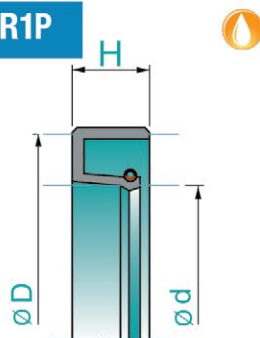
Single acting
Double lip

R1



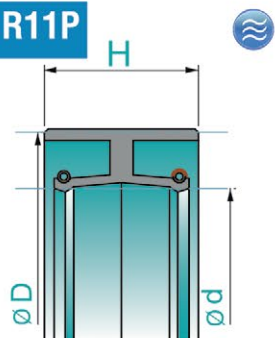
Simple lip
+ reinforcement

R1P



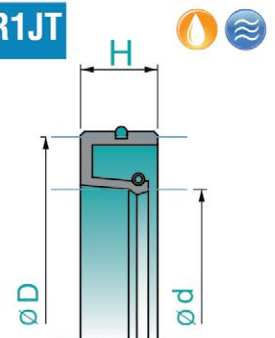
Simple lip

R11P



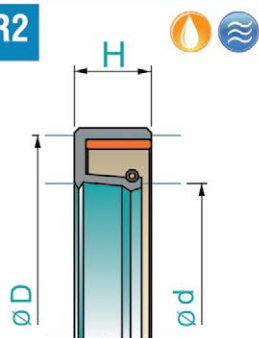
Double acting
lip

R1JT



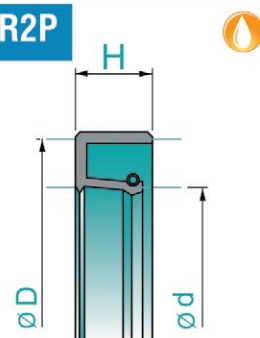
Single lip
+ O-ring

R2



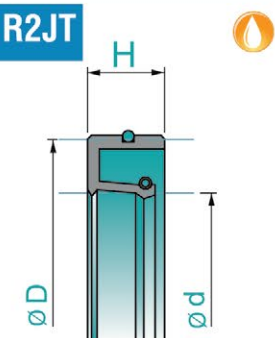
Double lip
reinforcement

R2P



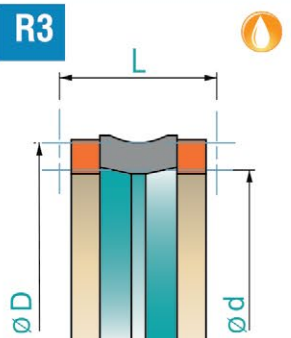
Double lip

R2JT

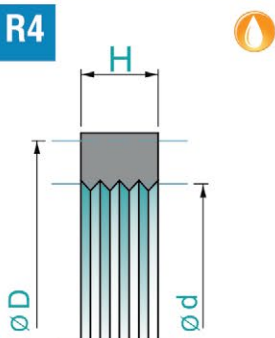


Double lip
+ O-ring

R3

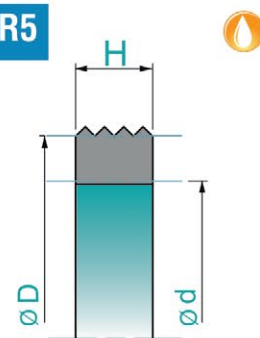


R4



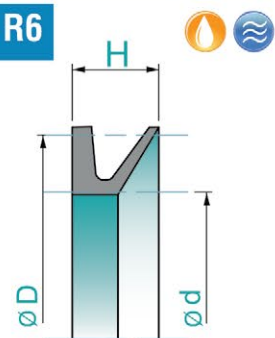
Internal
sealing

R5



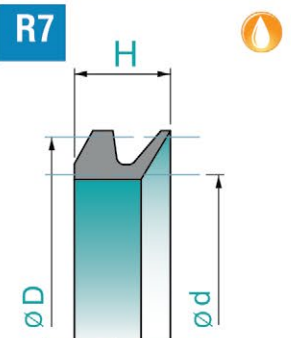
External
sealing

R6



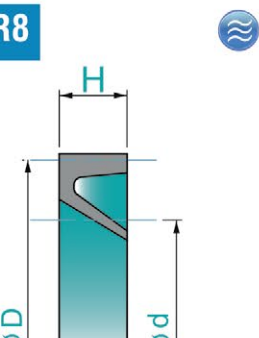
V-ring
Type A

R7

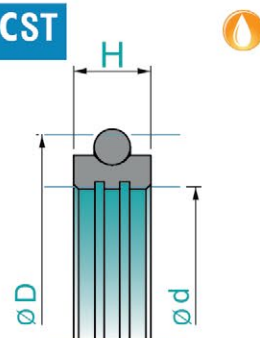


V-ring
Type S

R8

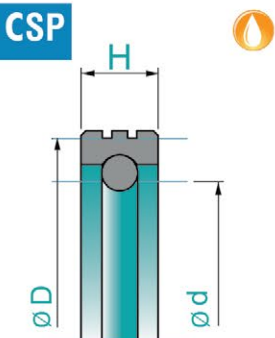


CST



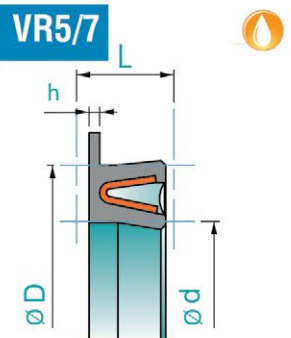
Double acting
Rod

CSP



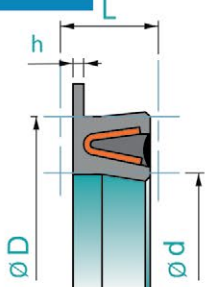
Double acting
Piston

VR5/7



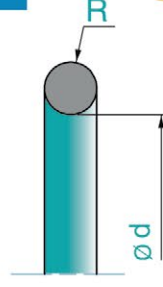
Stainless steel
spring

VAR5/7



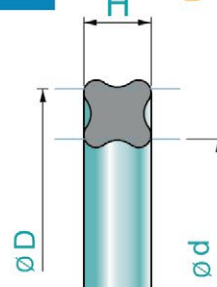
Stainless steel
spring + silicone

R0



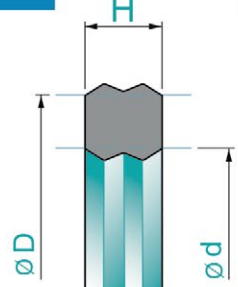
O-ring

JT4



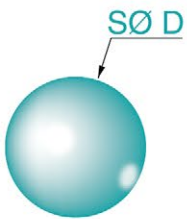
JT4

XS



Static seal
500 bars

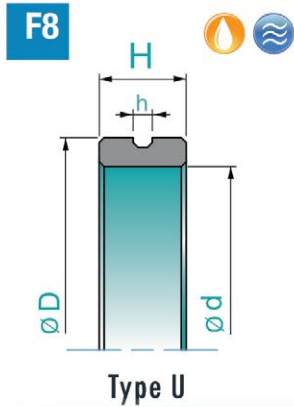
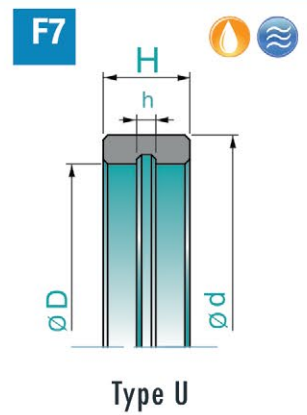
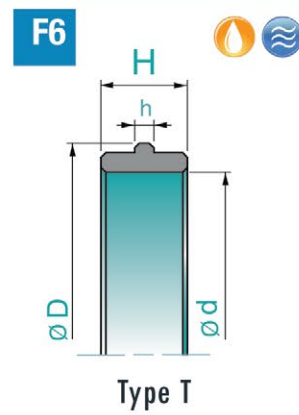
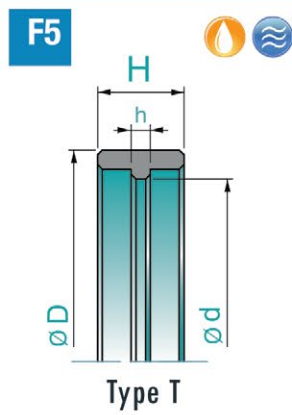
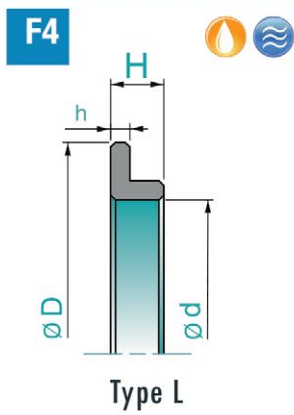
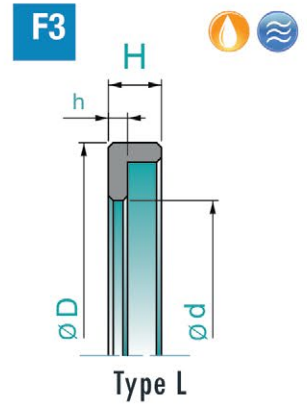
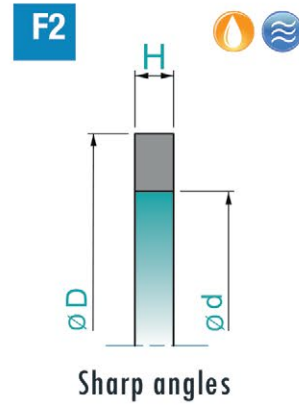
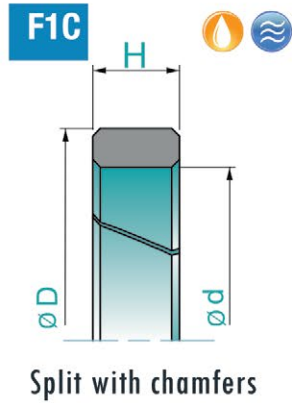
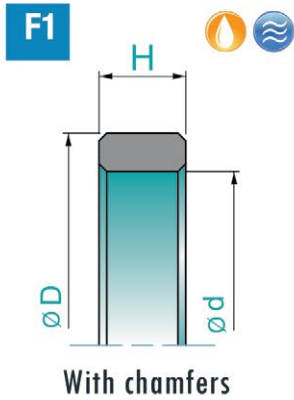
XB



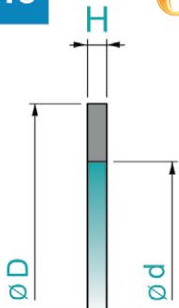
Standard Bil $\varnothing < 50$
More than 50, consult us.

Speed and maximum pressure cannot be used at the same time.



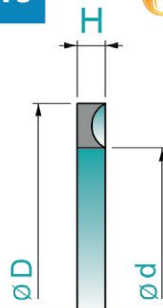


ST8



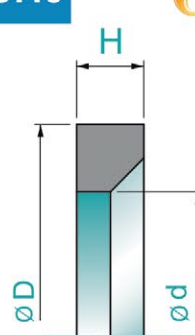
Can be split

ST9

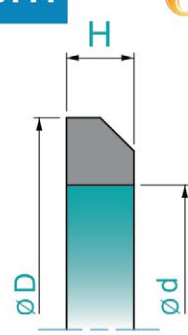


Can be split

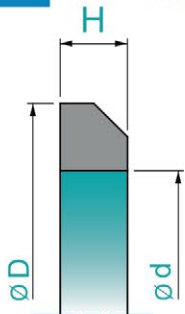
ST10



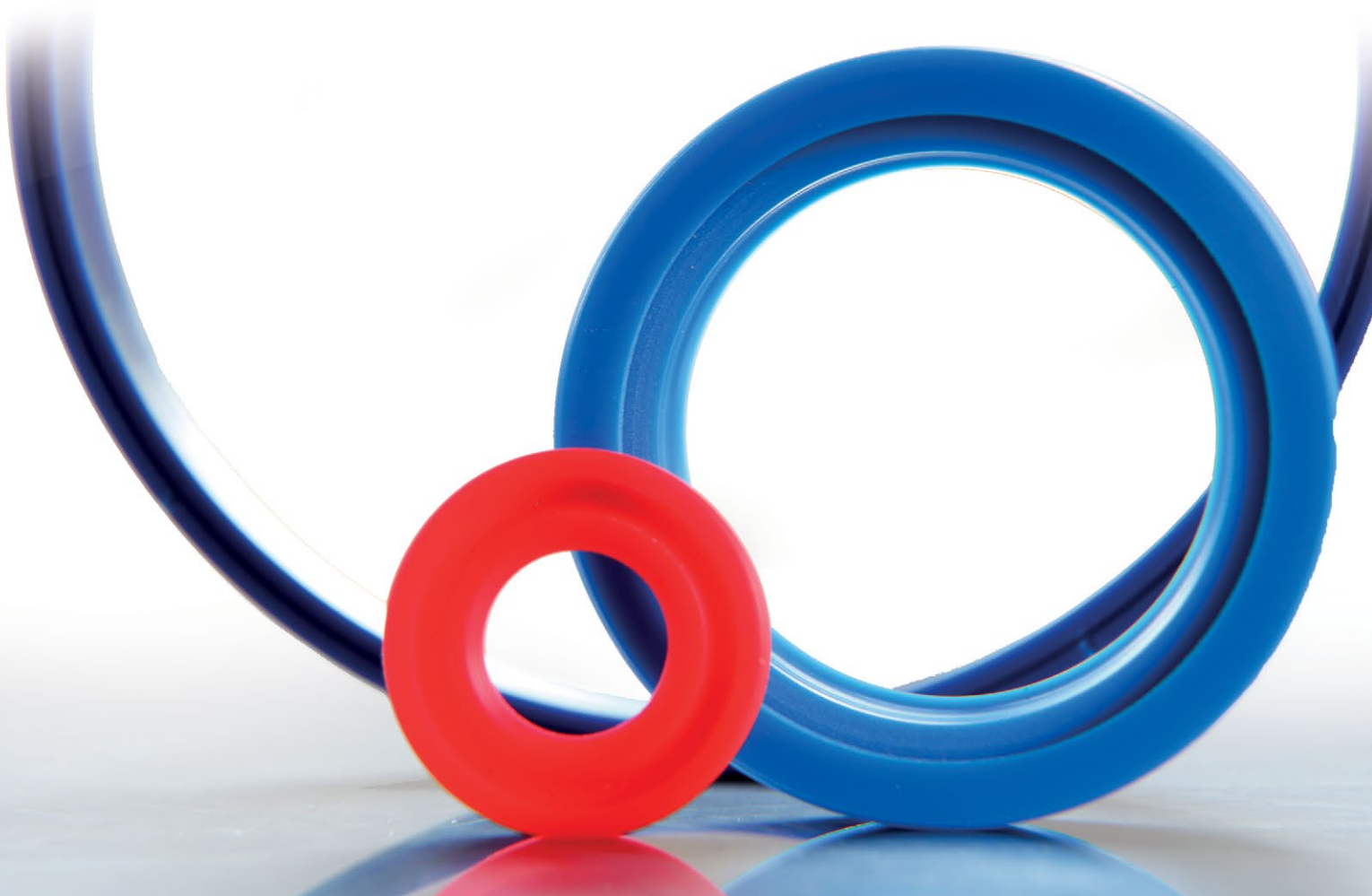
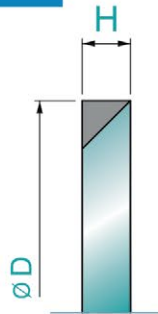
ST11



ST12



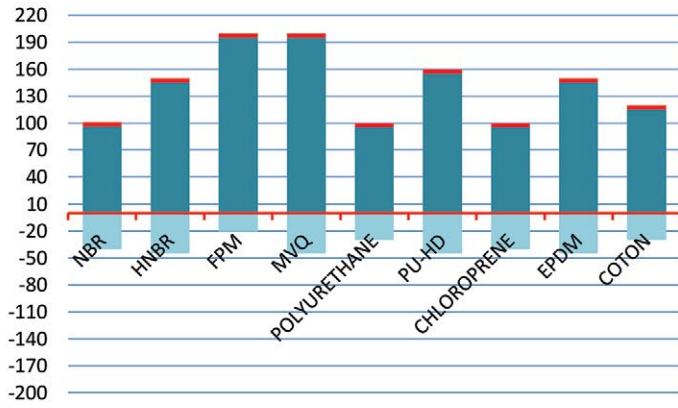
ST13



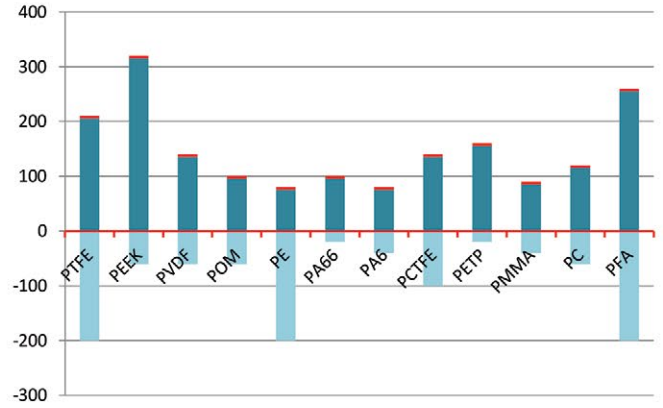
Material	Abbreviation	Name	Density	Temperature range in C°	Coefficient of thermal expansion 10(-5) XC° -1	Classification UL 94	Tensile strength N/mm2	Flexural strength N/mm2	Hardness shore Rockwell	Coefficient of friction (COF)
POLYAMIDE 6	PA6	NYLON® 6/ERTALON 6 SA®	1,14	- 40 - 85	9	HB	60	55	D74	0,25 - 0,50
POLYAMIDE 6/6	PA6/6	NYLON® 6/6 ERTALON 6/6 SA®	1,14	- 30 - 95	7	HB	70	60	D80	0,25 - 0,50
Cast POLYAMIDE	PA6/6	Cast NYLON®	1,15	- 30 - 105	8	HB	65	60	D80	0,25 - 0,50
Glass filled POLYAMIDE	PA6/6 GF 30	Glass filled NYLON®	1,40	- 20 - 120	3	HB	150	200	D75	0,30 - 0,50
Oil filled POLYAMIDE	PA6 + Oil	Oil Filled NYLON®	1,35	- 20 - 105	8	HB	70	80	M82	0,15 - 0,25
POLYAMIDE 12	PA12	RILSAN®	1,06	- 50 - 70	9	V2	40	50	D74	0,25
POLYACETAL	POMC	DELIN®	1,42	- 50 - 115	8	HB	70	110	D74	0,25
POLYVINYL CHLORIDE	PVC		1,45	- 20 - 60	8	-	50	80	D78	0,25 - 0,50
POLYETHYLENE	PEHD		0,94	- 50 - 80	18	HB	24	-	D60	0,20
POLYETHYLENE 500	PEHD 500		0,94	- 100 - 80	18	HB	28	40	D66	0,15
POLYETHYLENE 1000	PEHD 1000		0,95	- 260 - 90	18	HB	22	27	D62	0,12
POLYETHYLENE 6000	PEHD 6000	CESTIDUR®	0,93	- 269 - 90	18	HB	-	-	D62	0,12
POLYETHYLENE TEREPHTHALATE	PETP		1,38	- 20 - 115	7	HB	75	120	D84	0,20
COPOLYMER POLYPROPYLENE	PPC		0,92	- 10 - 100	11	HB	31	40	D70	0,30
POLYTETRAFLUORETHYLENE	PTFE	TEFLON®	2,10	- 200 - 200	12	VO	35	160	D50	0,10
POYETHERETHERCETHONE	PEEK		1,31	- 60 - 250	5	VO	92	170	D86	0,3
COPOLYMERE Perfluoroalkoxyethylene *	PFA									

Non exhaustive list, these are guide values and could not engage the responsibility of SEAL FRANCE.

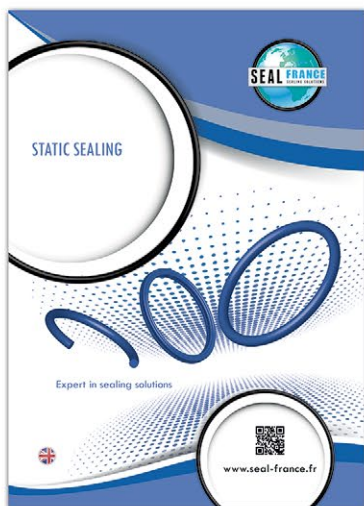
Elastomer operating temperature



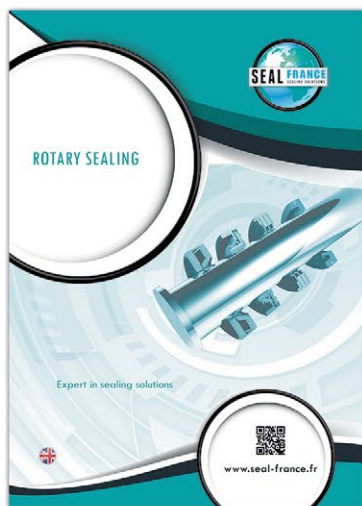
Plastic operating temperature



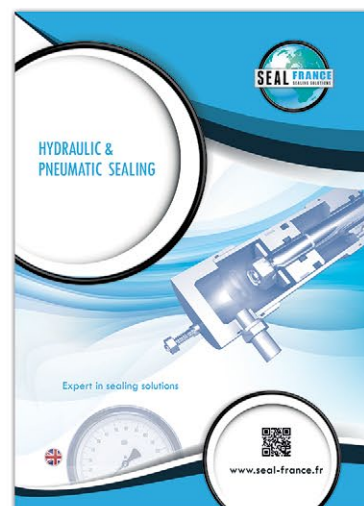
ALL OUR AVAILABLE CATALOGUES



STATIC SEALING



ROTARY SEALING



**HYDRAULIC & PNEUMATIC
SEALING**



ASEPTIC SEALING



MACHINED PARTS



PRODUCTS RANGES



EXPERT IN SEALING SOLUTIONS FOR DISTRIBUTORS AND MANUFACTURERS

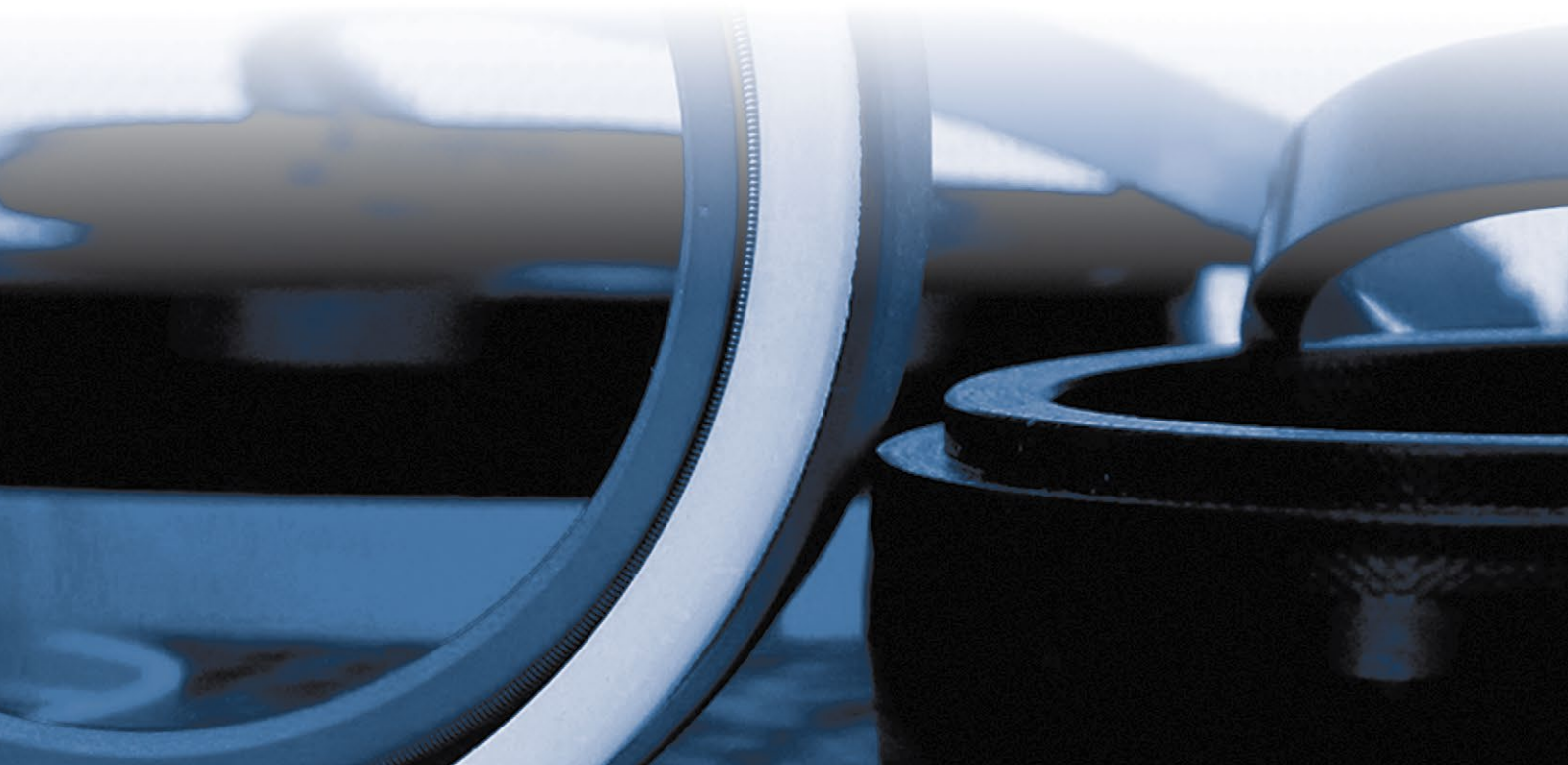
SEAL FRANCE is specialised in the sales and manufacturing of standard and customized sealing solutions. For over 20 years, our team of experts has advised, supported and provided technical assistance to its customers in a climate of trust. Thanks to its experience and know-how, SEAL FRANCE wishes to share its experience using appropriate tools adapted to your sealing systems.

A COMPLETE TRACEABILITY

Our materials are FDA, KTW, W270 or USP VI approved...

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For customized products, we propose you various methods of manufacturing to suit your needs.





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