

STATIC SEALS BECA 760-769



ODESCRIPTION

The BECA 760 is a symmetrical dynamic and static facial effect U-seal, made from PTFE (different filling options) with lips that are pre-stressed by a spring.

Derived from the BECA 760 profile, the BECA 769 profile is made specially for food industry applications. The V-spring is replaced with a VMQ O'Ring.

OADVANTAGES

Wide temperature range and excellent chemical resistance

Low friction coefficient; no stick-slip effect

Excellent abrasion resistance

Good dimensional stability

Non-toxic material

OAPPLICATIONS

Food & Beverage

Medical

Pharmaceutical

Static hydraulics

OMATERIALS

Profiled seal

Bronze-filled PTFE Carbon-filled PTFE

V-Shaped spring

Stainless steel

Other grades of materials are available. Please refer to the materials table on the next page.

TECHNICAL DATA

Temperature	-200°C / +260°C		
Pressure	30 MPa		
Speed	15 m/s		
Media	Mineral hydraulic oils Fire-resistant liquids Biocompatible fluids Water Others (contact our experts)		

The figures above indicate the maximum values and may not be cumulated. They may be developed, depending on the materials used.

SURFACE ROUGHNESS

Roughness	Hydrogen, helium, cryogenic gas, refrigerants	Low viscosity fluids (water, alcohols, natural gases, air)	High viscosity fluids (gear oils, dairy products, adhesives)
Ra	≤0.3 µm	≤0.6 µm	≤0.8 µm
Rz	≤2.2 µm	≤3.5 µm	≤5.0 µm
Rmax	≤3.5 µm	≤5.0 µm	≤6.5 µm

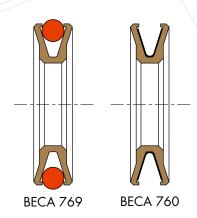
RADIUS

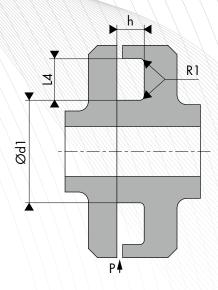
Groove depth h	Radius R1
1.45	0.40
2.25	0.40
3.10	0.60
4.70	0.80
6.10	0.80

O TABLE MATERIALS

Profiled seal				V-spring	Moting ourfoce				
Standard code	ISO code	Material	Colour	Characteristics	Code	Type of material	Service temperature	Mating surface material	
DP	Р	Virgin PTFE	White	Resistance to chemical products Impermeability Dielectric Non-stick Low friction coefficient Food industry	ı	X10 Cr Ni 18-8	-200°C/+260°C	C/+260°C Steel Stainless steel Chrome steel	
DC	С	PTFE + 25% Carbon	Grey	Improvements • Wear properties	ı	X10 Cr Ni 18-8	-200°C/+260°C	Aluminium Bronze	
CG	С	PTFE + 23% Carbon + 2% Graphite	Black	Compression set Good resistance to chemical products Thermal and electrical conductivity Anti-static High-performing in compression-based dynamic applications	I	X10 Cr Ni 18-8	-200°C/+260°C	Cast iron Treated surface	
DV	٧	PTFE + 25 % Glass	Blue	Improvements • Wear properties • Mechanical strength	I	X10 Cr Ni 18-8	-200°C/+260°C		
VM	М	PTFE + 15 % Glass + 5% MOS2	Grey	Slightly more abrasive, however, this is corrected by adding MOS2 Maintains its chemical and dielectric properties Well-suited to applications with rotational and simultaneous alternating movements	ı	X10 Cr Ni 18-8	-200°C/+260°C	Steel Chrome steel Cast iron	
DX	X	PTFE GL Blue + Glass + Metal oxides	Turquoise blue	Resistance to compression Resistance to wear Excellent chemical stability Good thermal conductivity	I	X10 Cr Ni 18-8	-200°C/+260°C		
DG	G	PTFE + 15% Graphite	Black	Black Black Improvements • Wear properties Reduced wear on metal parts Self-lubricating Thermal and electrical conductivity Low permeability Good friction coefficient Anti-static High performing in dynamic self-lubricating		X10 Cr Ni 18-8	-200°C/+260°C	Steel Stainless steel Chrome steel Aluminium Bronze	
K1	K	PTFE + 10% Ekonol	Light brown	applications Improvements • Better abrasion resistance	ı	X10 Cr Ni 18-8	-200°C/+260°C	Cast iron Treated surface	
K2	К	PTFE + 20% Ekonol	Light brown	Better abrasion resistance Better dimensional stability at high temperatures Use up to +300°C Good friction coefficient and low permeability		X10 Cr Ni 18-8	-200°C/+260°C		
DB	В	PTFE + 60% Bronze	Dark brown	Improvements • Wear properties • Warping resistance and creep strength	I	X10 Cr Ni 18-8	-200°C/+260°C		
B4	В	PTFE + 40% Bronze	Dark brown	Compression resistance Self-lubricating Electrical and thermal conductivity Dark Does not alter the metal parts		X10 Cr Ni 18-8	-200°C/+260°C	Steel Chrome steel Cast iron	
HG	HG	PE-UHMW	White or off-white	Excellent wear resistance on contact with water and air	ı	X10 Cr Ni 18-8	-70°C/+80°C	Steel Stainless steel Chrome steel Aluminium Bronze Cast iron Treated surface	

Other grades of materials are available depending on your specificities.





• INSTALLATION DIMENSIONS - STANDARD SERIES

Series	Groove inside diameter Ød1 h10		Groove width L4 0/+0.15	Groove depth	
	Standard range	Extended range	L4 U/+U.15	h	Tol.
760.0*	7.0 - 14.9	7.0 - 200.0	2.40	1.45	+0.03
760.1*	15.0 - 24.9	15.0 - 200.0	3.60	2.25	+0.05
760.2	25.0 - 39.9	25.0 - 400.0	4.80	3.10	+0.08
760.3	40.0 - 79.9	40.0 - 600.0	7.10	4.70	+0.10
760.4	80.0 - 599.9	80.0 - 600.0	9.50	6.10	+0.15

^{*}Only BECA 760.0 and 760.1 profiles are fitted with an O'Ring instead of a V-spring.

• INSTALLATION DIMENSIONS - ADDITIONAL SERIES

Series	Groove inside diameter Ød1 h10	Groove width	Groove depth		
		L4 0/+0.15	h	Tol.	
760.235	25.0 - 200.0	5.00	3.50	+0.08	
760.240	25.0 - 200.0	5.00	4.00	+0.08	
760.245	25.0 - 200.0	5.50	4.50	+0.08	
760.350	40.0 - 200.0	5.50	5.00	+0.10	
760.355	40.0 - 400.0	7.50	5.50	+0.10	
760.460	80.0 - 400.0	8.00	6.00	+0.15	
760.465	80.0 - 400.0	8.50	6.50	+0.15	
760.470	80.0 - 400.0	8.50	7.00	+0.15	
760.475	80.0 - 400.0	9.00	7.50	+0.15	
760.480	80.0 - 600.0	11.00	8.00	+0.20	
760.485	80.0 - 600.0	11.00	8.50	+0.20	
760.490	80.0 - 600.0	11.00	9.00	+0.20	
760.495	80.0 - 600.0	12.00	9.50	+0.20	
760.4100	80.0 - 600.0	12.00	10.00	+0.25	

