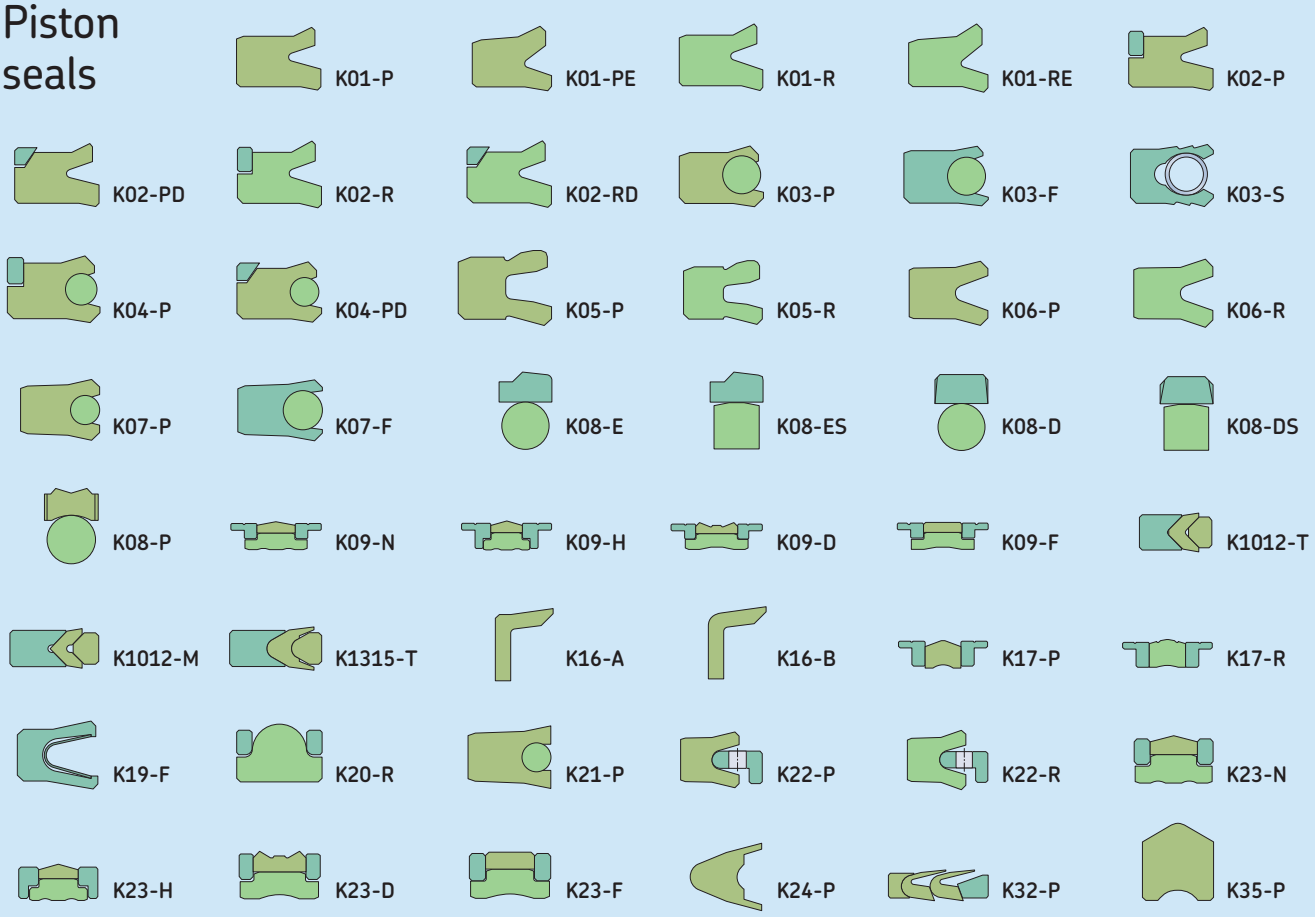
Machined seals

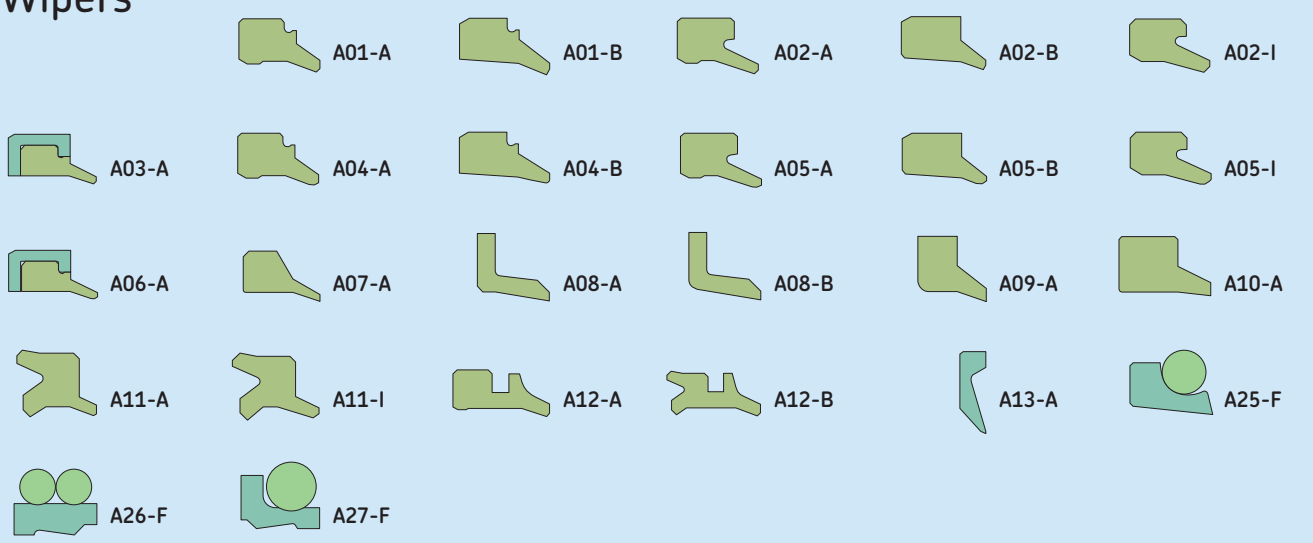
Profiles overview

Piston seals

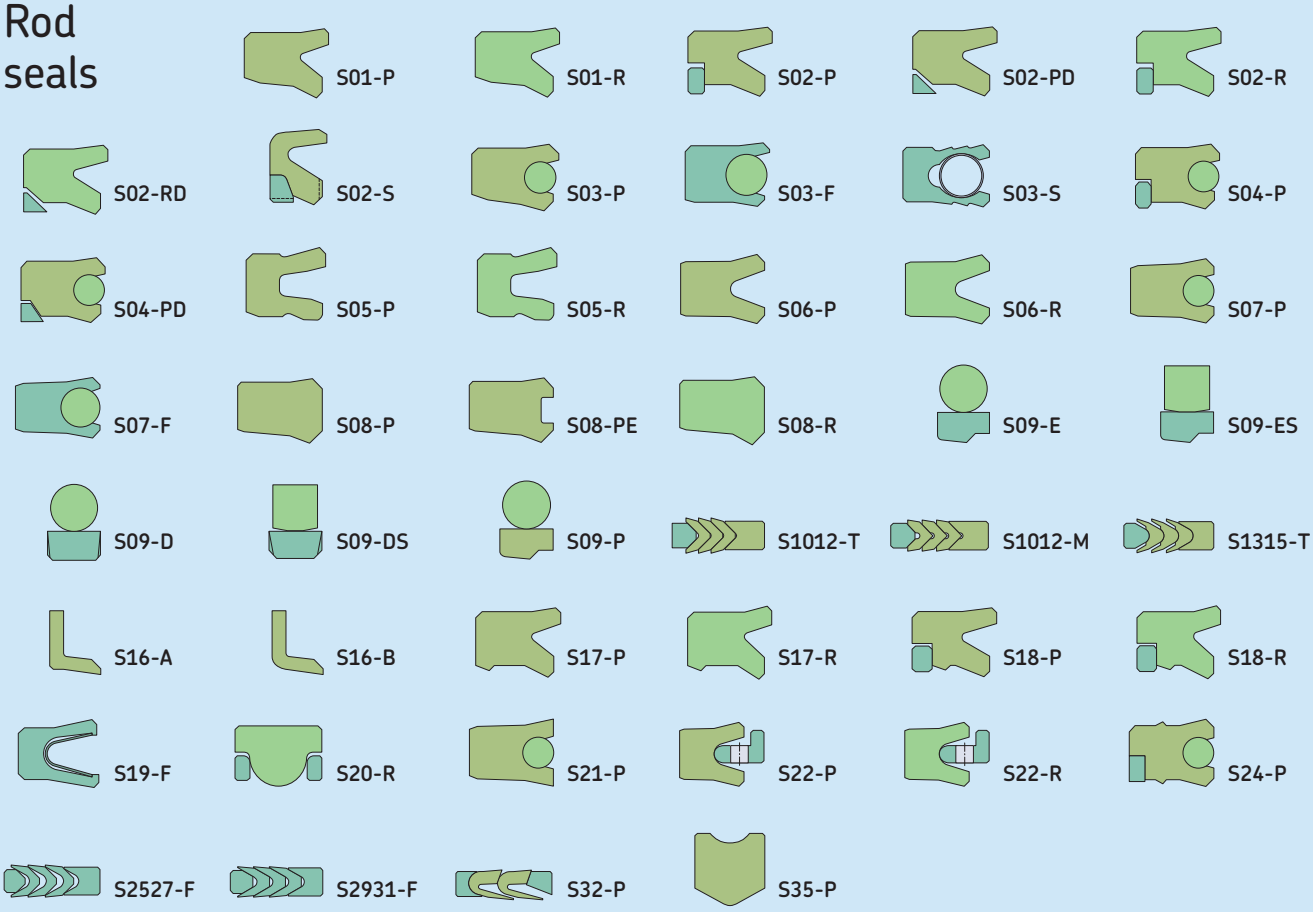


Thanks to our innovative manufacturing process we are able to produce virtually any profile in any dimension and material.

Wipers

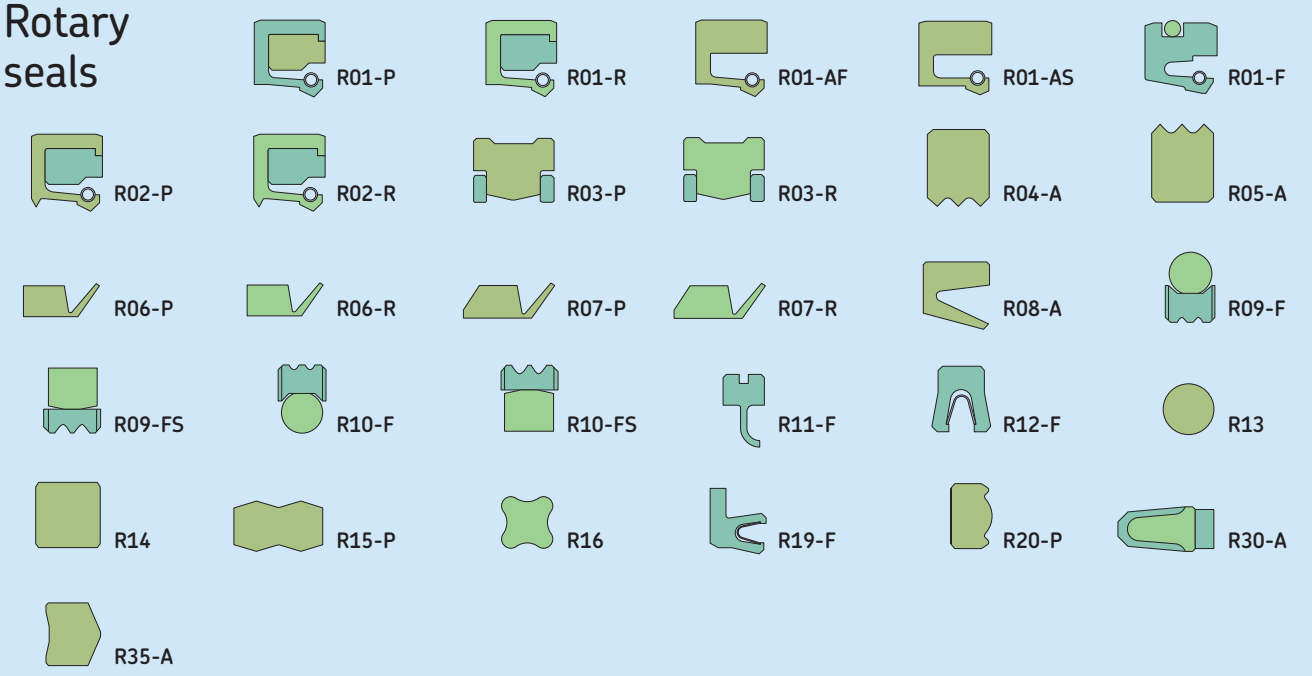


Rod seals

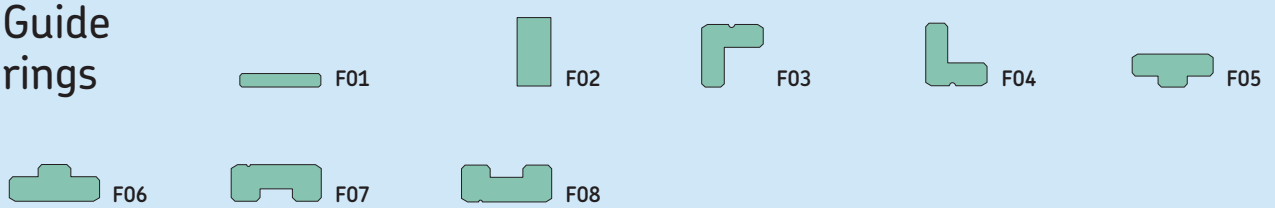


Indicated materials (colours) are examples, profiles are available in a wide range of standard and non-standard materials.

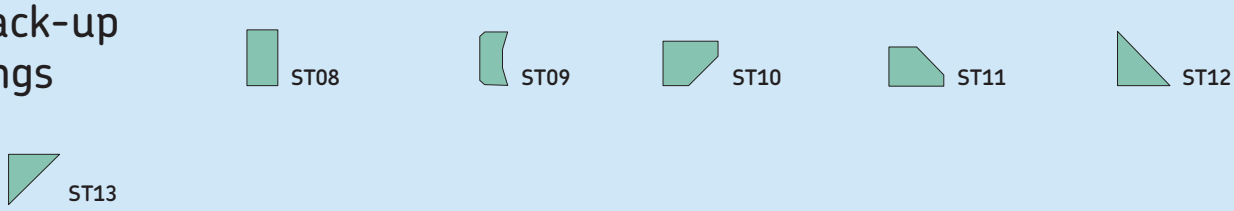
Rotary seals



Guide rings



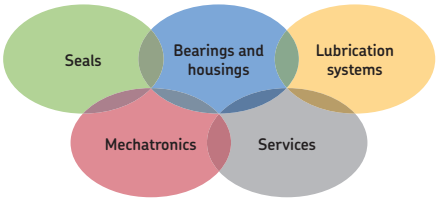
Back-up rings



Materials overview		Material colour	Shore A/D hardness	Operating temperature, °C		Mineral oil based resistance		HFA-E water +oil emuls. resistance		Water resistance	
				min.	max.	RT	60 °C	RT	60 °C	RT	60 °C
Elastomers, polyurethanes											
ECOPUR	Polyurethane (TPU)		95/48	–30	110	+	+	0	–	+	–
ECOPUR LD	Cast polyurethane (CPU)		95/48	–35	110	+	+	0	–	+	–
G-ECOPUR	Cast polyurethane (CPU)		95/47	–30	110	+	+	+	0	+	0
H-ECOPUR	Polyurethane (TPU)		95/48	–20	110	+	+	+	+	+	+
S-ECOPUR	Polyurethane (TPU)		95/48	–20	110	+	+	+	+	+	+
T-ECOPUR	Polyurethane (TPU)		95/48	–50	110	+	+	0	–	+	–
X-ECOPUR	Hard grade polyurethane (TPU)		97/57	–30	110	+	+	0	–	+	–
X-ECOPUR H	Hard grade polyurethane (TPU)		97/60	–20	110	+	+	+	+	+	+
X-ECOPUR S	Hard grade polyurethane (TPU)		96/58	–20	110	+	+	+	+	+	+
Elastomers, rubber											
SKF Ecoflas	Tetrafluoroethylene propylene rubber (TFE/P)		83/–	–10	200	+	+	+	+	+	+
SKF Ecorubber-H	Hydrogenated NBR (H-NBR)		85/–	–25	150	+	+	+	+	+	+
SKF Ecorubber-1	Acrylonitrile butadiene rubber (NBR)		85/–	–30	100	+	+	+	+	+	+
SKF Ecorubber-2	Fluorocarbonate rubber (FKM)		85/–	–20	200	+	+	+	0	+	+
SKF Ecorubber-3	Ethylene propylene diene rubber (EPDM)		85/–	–50	150	–	–	–	–	+	+
SKF Ecosil	Silicone rubber (MVQ)		85/–	–60	200	+/0	+/0	0	0	+	+
Thermoplastics											
SKF Ecoflon 1	Polytetrafluoroethylene (PTFE)		–/57	–200	260	+	+	+	+	+	+
SKF Ecoflon 2	Polytetrafluoroethylene +15% glass +5% MoS_2		–/62	–200	260	+	+	+	+	+	+
SKF Ecoflon 3	Polytetrafluoroethylene +40% bronze		–/65	–200	260	+	+	+	+	+	+
SKF Ecoflon 4	Polytetrafluoroethylene +25% carbon		–/65	–200	260	+	+	+	+	+	+
SKF Ecomid	Polyamide (PA)		–/77	–40	110	+	+	+	+	0	0
SKF Ecopaek	Polyaryletherketone (PEEK)		–/87	–100	260	+	+	+	+	+	+
SKF Ecotal	Polyacetal (POM)		0/82	–50	100	+	+	+	+	+	+
SKF Ecowear	Ultra-High Molecular Weight Polyethylene (UHMWPE)			–200	90	+	+	+	+	+	+

+ Suitable
0 Unknown data or limited resistance
– Not recommended
RT Room temperature (20 °C)

Open to see the full range of machined seals, wipers, guide rings and back-up rings



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