



Quality Industrial Seal Engineering

# Seal Profiles & Materials Overview

Specialising in manufacturing and distributing of hydraulic, pneumatic and rotary seals.



# Materials Overview

Material		HFA Fluids	Food Grade	Operating Temp. (°C)		Hardness
HPU	hydrolysis resistant polyurethane	✓	✓	-30	+110	94 shore A
HPU-SG	hydrolysis resistant solid grade polyurethane	✓		-20	+105	57 shore D
HPU-FDA	hydrolysis resistant polyurethane		✓	-40	+100	95 shore A
HPU-LT	hydrolysis resistant low temperature polyurethane			-55	+110	95 shore A
HPU-SL	hydrolysis resistant self lubricated polyurethane			-30	+105	94 shore A
NBR-85	nitrite butadiene rubber	✓		-35	+120	85 shore A
NBR-90	nitrite butadiene rubber	✓		-35	+120	90 shore A
H-NBR 83	hydrogenated acrylnitrile-butadiene rubber			-20	+150	83 shore A
H-NBR-95	hydrogenated acrylnitrile-butadiene rubber			-20	+150	95 shore A
H-NBR-FDA	hydrogenated acrylnitrile-butadiene rubber		✓	-20	+150	82 shore A
EPDM-FDA	ethylene propylene diene rubber (white)		✓	-40	+150	87 shore A
EPDM-KTW	ethylene propylene diene rubber (black)		✓	-20	+150	88 shore A
MVQ-FDA	methyl vinyl silicone rubber		✓	-40	+220	84 shore A
FPM-FDA	fluor rubber viton (brown)		✓	-20	+220	85 shore A
AFLAS	fluor rubber			-10	+220	85 shore A
PTFE-1	virgin teflon	✓		-200	+260	51 shore D
PTFE-2	teflon + 15% glass fibre + 5% MoS02			-200	+260	57 shore D
PTFE-3	teflon + 40% bronze			-200	+260	58 shore D
PTFE-4	teflon + 25% carbon			-200	+260	66 shore D
PTFE-5	teflon + 25% glass			-200	+260	57 shore D
PTFE-6	teflon + 15% graphite			-200	+260	61 shore D
POM	acetal	✓		-50	+100	81 shore D
PA6G	polyamide			-40	+110	85 shore D
PEEK	polyaryletherketone			-60	+250	86 shore D

In addition to the profiles shown, SealPlus is able to design and manufacture custom-made seals specifically tailored to your needs. Using over 20 different materials from qualified European suppliers, most profiles can be manufactured to sizes from 4mm to 700mm in-house. Larger sizes (up to 2000mm) can be produced with a longer lead time.

SealPlus offers materials recommended for use in:

- HFA and HFB fluids
- Pure and Sea Water
- Bio-degradable fluids like synthetic esters and vegetable oils.

We also offer food-grade materials conforming to Food and Drug Administration (FDA) standards, as well as self-lubricated, modified polyurethane - specifically designed for the most demanding applications within water hydraulics or non-lubricated pneumatics.

In addition to machined seals, SealPlus also offers a large range of standard seals including shaft, piston and rotary seals; o-rings; and back-ups.

For further information, or a free quote, please contact our office on (07) 4952 4959.

# Seal Profiles Overview

## Piston Seals



K01



K01-E



K02



K02-A



K02-E



K03



K03-S



K04



K04-A



K05-PA



K05-PB



K06



K06-A



K07



K08



K08-Q



K08-QB



K09



K09-N



K09-D



K09-H



K10-M



K11-V



K12-F



K1012-T



K1012-M



K1012-SA



K1315-T



K16-A



K16-B



K16-C



K17



K18



K19



K20



K21-A



K21-B



K22



K22-A



K22-B



K23-N



K23-D



K23-H



K24



K25



K26



K27



K32



K38



K38-A



K38-P



K38-Z



K38-Q



K40



K41



K42



K43



K44



K45



K46



K47



K48



K49



K50



K51



K52



K53



K54



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K78



K79



K80



K81



K82



K83



K84



K85



K86



K87



K88

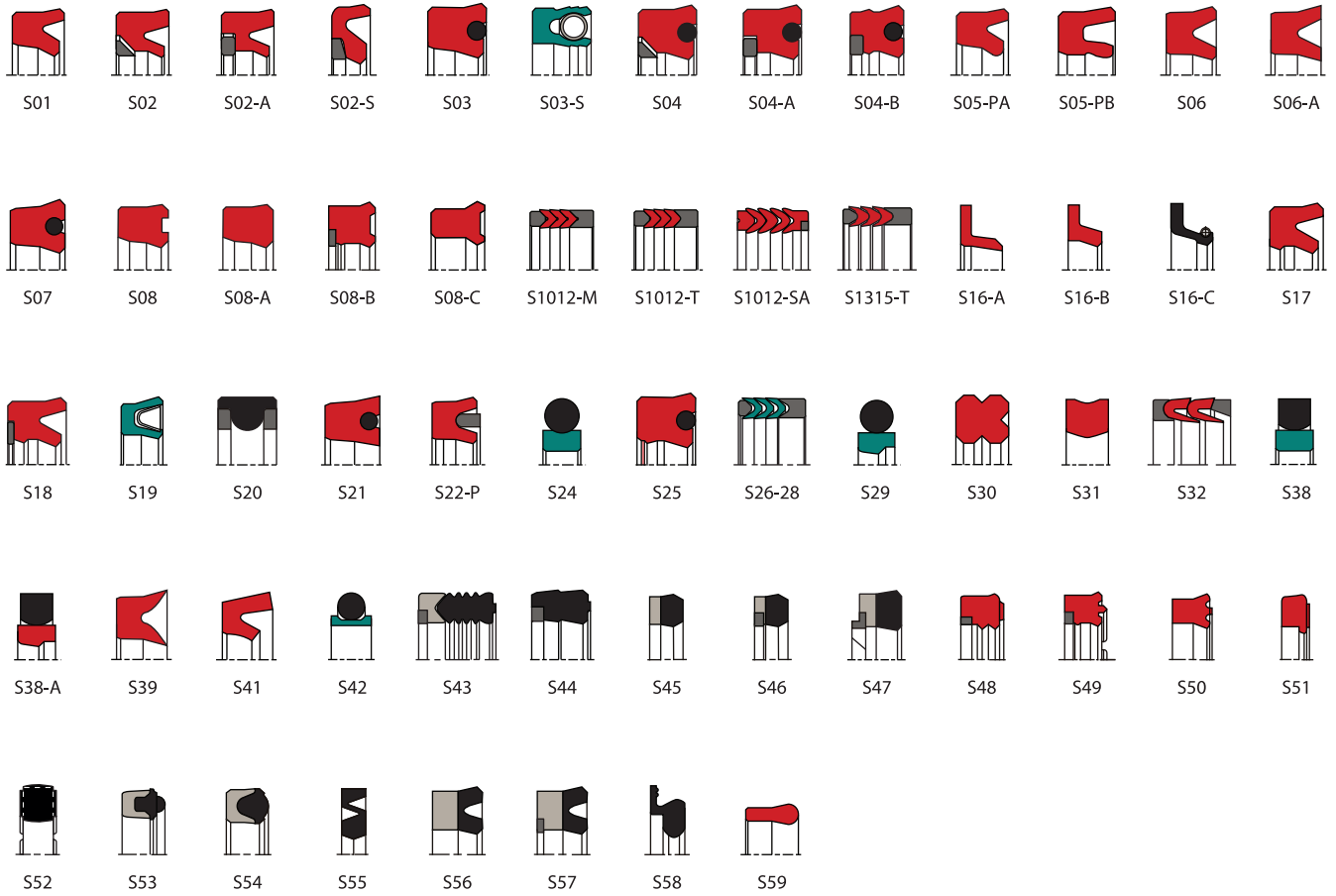


K89

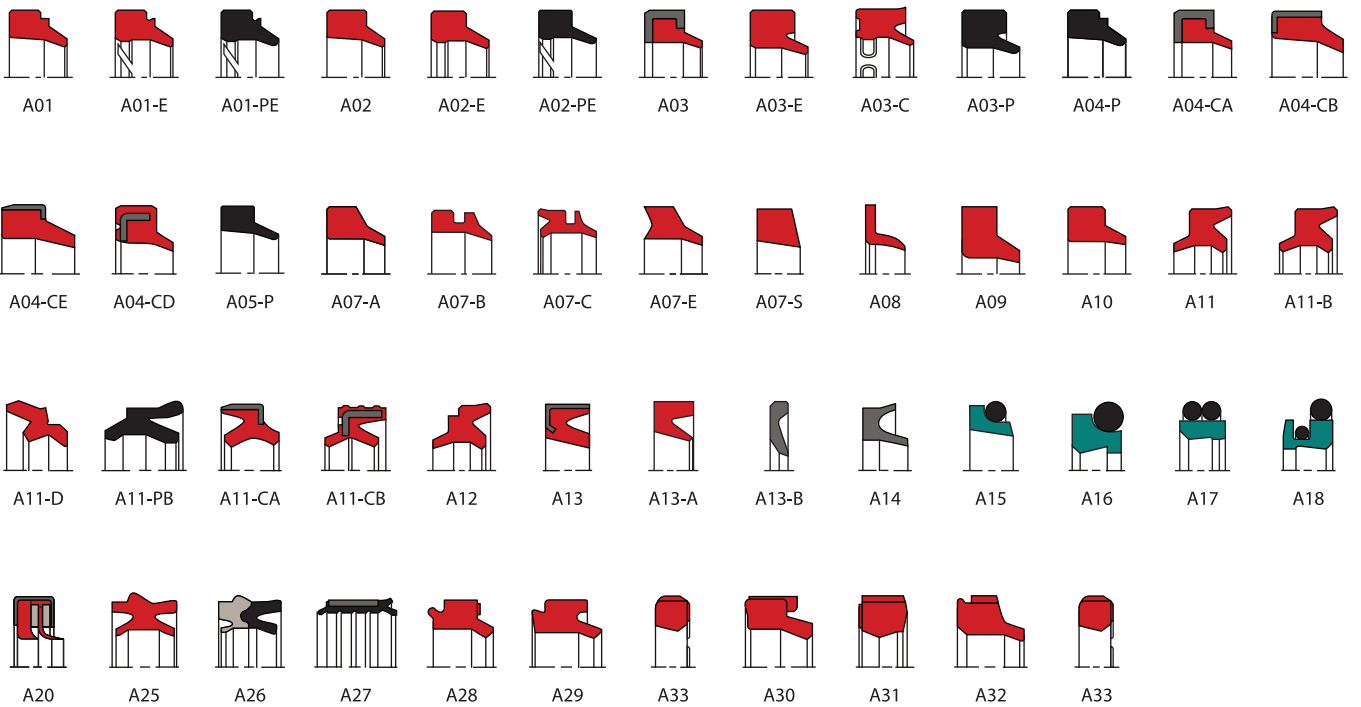


CIR

## Rod Seals



## Wipers



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## Rotary Seals



R01



R01-C



R01-LP



R01-HP



R01-ST



R01-A



R01-AS



R01-F



R01-AF



R02



R02-C



R02-LP



R02-HP



R02-S



R03



R04



R05



R06



R06-A



R06-B



R07



R08



R09



R10



R11



R12



R13



R14



R15



R15-A



R16



R16-A



R17



R18



R19



R20



R21



R22



R30



R35



R36



R37



R38



R39



R40



R41



R42



R43



R44



R45



R46



R47



R48



R49



R50



R51



R52



R53



R53



R55



R56



R57



R58



R59



R60



R61



R62



R63



R64



R65



R66



R67



R68



R69



R70



R71

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## Guide Rings



F01



F02



F03



F04



F05



F06



F07



F08

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## Backup Rings



ST08



ST09



ST10



ST11



ST12



ST13



ST60

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