

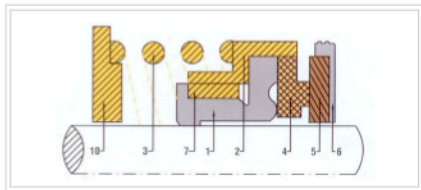
R60 SINGLE SPRING ELASTOMER BELLOW UNBALANCED SEAL

OPERATING LIMIT

Seal size : 12mm to 75mm
 Pressure : 10kg/cm²
 Speed : 13 m/s
 Temp : 10°C ...to 220°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
 Stationary Seats : Silicon, TC, SS,
 Ceramic
 Type : S-60, S-6, S-9, S-4,
 S-50,



SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon, PTFE

METAL PARTS

SS304, Ss316,

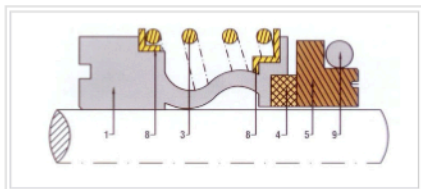
S13 ELASTOMER BELLOW UNBALANCED SEAL

OPERATING LIMIT

Seal size : 10mm to 100mm
 Pressure : 12kg/cm²
 Speed : 10m/s
 Temp : 10°C ...to 220°C

FACE MATERIAL

Rotary Face : Carbon, Silicon,
 Stationary Seats : Silicon, TC, SS,
 Type : S-9, S-60, S-6
 S-4, S-13, S-50



SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon

METAL PARTS

SS304, SS316,

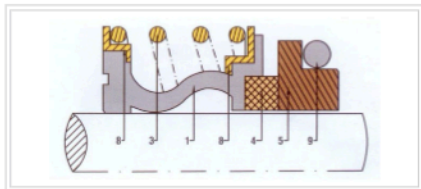
S15 ELASTOMER BELLOW UNBALANCED SEAL

OPERATING LIMIT

Seal size : 10mm to 100mm
 Pressure : 12kg/cm²
 Speed : 10m/s
 Temp : 10°C ...to 220°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC, LC
 Stationary Seats : Silicon, TC, SS, Ceramic
 Type : S-9, S-60, S-6, S-4, S-13,



SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon, PTFE

METAL PARTS

SS304, SS316, SS316L

MECHANICAL SEALS SPARES

ROTARY FACE

Material:
 CARBON
 CERAMIC
 SILICON
 TUNG. CARBIDE
 STELLITE
 GFT/CFT/SIFT



M. RING FACE

Material:
 CARBON
 CERAMIC
 SILICON
 TUNG. CARBIDE
 STELLITE



O.RING & PKG.

Material:
 VITON
 EPR/EPDM
 NEOPRENE
 FFKM
 FEP
 PTFE / GFT
 FLEX. GRAPHITE



SPRING

Material:
 SS304
 SS316
 SS316(PTFE COATED)
 ALLOY-20
 HAST-C



DRY RUNNING SEALS

Outside / Balanced Seal

Single Seal

MATERIALS:

Faces : Carbon vs Sic. / Tungsten Carbide / Ceramic
 Secondary Seals : Viton / PTFE / FEP / Nitrile / EPDM
 Hardware : SS316 / HAST-C / ALLOY-20

OPERATING LIMITS:

Shaft Dia : 25 - 100 mm(1.0"-4.0")
 Pressure : Full Vacuum to 6 kg (max)
 Temperature : -40°C -150°C
 Velocity : 5 m/s

Generally used for Mixer, Reactor, Multi Mill, Pharmaceutical Industry

Good performance in vacuum conditions



DV1 MULTI SPRING BALANCE/UNBALANCED SEAL

OPERATING LIMIT

Seal size : 20mm to 120mm
 Pressure : 10kg/cm²
 Speed : 20m/s
 Temp : -20°C ...to 250°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
 Stationary Seats : Silicon, TC, SS, Ceramic
 Type : S-9, S-6, S-4, S-55, S-50

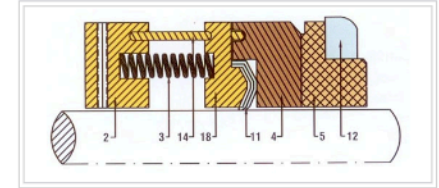


SECONDARY SEAL MATERIALS

PTFE, GFT

METAL PARTS

SS304, Ss316, SS316L



AGITATOR SEALS

Single Seal / Double Seal Unbalanced / Balance Independent of Direction of Rotation

MATERIALS:

Faces : Carbon vs Sic. / Tungsten Carbide
 Secondary Seals : Viton / PTFE / FEP / FFKM
 Hardware : SS316 / HAST-C / ALLOY-20

OPERATING LIMITS:

Shaft Dia : 25 - 150 mm(1.0"-4.0")
 Pressure : 40bar (max)
 Temperature : -20°C -250°C
 Velocity : 4 m/s

Chemical Industry, Food Industry, Pharmaceutical Industry, Dryers, Mills, Mixers, Pressure Filters, Reactors, Agitators

This high pressure double seals / double mechanical seals that are used for top entry and side entry autoclaves & mixers. High pressure Double Seals / Double Mechanical Seals are used in all kinds of mixers, reactor, driers in pharmaceuticals, paints, pulp & plastic industries. the seals are factory assembled with cartridge unit, therefore can easily be installed without disturbing the delicate mating faces. For larger shaft deflection special version with integrated floating bearing is provided



Lw15 LONG RETAINER VEGG DOUBLE SEAL

OPERATING LIMIT

Seal size : 20mm to 150mm
 Pressure : 10kg/cm²
 Speed : 20 m/s
 Temp : -20°C ...to 250°C

FACE MATERIAL

Rotary Face : SS, Silicon, TC
 Stationary Seats : Silicon, TC, SS, C
 Type : S-6, S-9, S-4, S-13

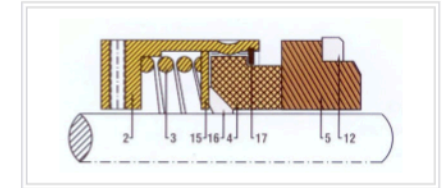


SECONDARY SEAL MATERIALS

PTFE, GFT

METAL PARTS

SS304, Ss316, SS316L



Jv75 SINGLE SPRING CLUTCH UNBALANCED SEAL

OPERATING LIMIT

Seal size : 20mm to 100mm
 Pressure : 10kg/cm²
 Speed : 20 m/s
 Temp : -25°C ...to 250°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
 Stationary Seats : Silicon, TC, Ceramic
 Type : S-9, S-6, S-4, S-50, S-55

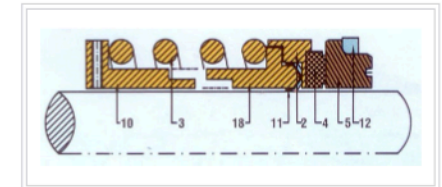


SECONDARY SEAL MATERIALS

PTFE, GFT

METAL PARTS

SS304, Ss316, SS316L



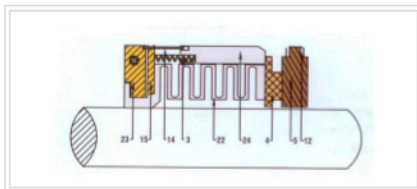
Tf25 TEFLON BELLOW (RCF) UNBALANCED SEAL

OPERATING LIMIT

Seal size : 20mm, 120mm
 Pressure : 8kg/cm²
 Speed : 12m/s
 Temp : -30°C ...to 250°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, T
 Stationary Seats : Silicon, TC, SS,
 Ceramic
 Type : T-type, S-9



SECONDARY SEAL MATERIALS

PTFE, GFT

METAL PARTS

SS304, Ss316

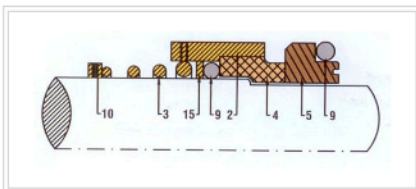
12N CONICAL SPRING BALANCE SEAL

OPERATING LIMIT

Seal size : 12mm to 80mm
 Pressure : 10kg/cm²
 Speed : 13m/s
 Temp : -25°C ...to 200°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
 Stationary Seats : Silicon, TC, SS,
 Type : S-9, S-6, S-4, S-13,



SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon, PTFE

METAL PARTS

SS304, Ss316, SS316L

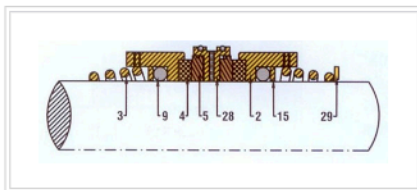
F10M DOUBLE MECHANICAL UNBALANCED SEAL

OPERATING LIMIT

Seal size : 22mm, 30mm, 35mm
 Pressure : 10kg/cm²
 Speed : 10 m/s
 Temp : -15°C ...to 140°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
 Stationary Seats : Silicon, TC, SS,
 Ceramic
 Type : H-Type, L-Type



SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon

METAL PARTS

SS304, SS316, SS316L

CARTRIDGE SEALS

1. Single Spring Seal
2. Multi Spring Seal
3. Metal Bellow Seal

Single Seal

MATERIALS:

Faces : Carbon / Sic. / Tungsten Carbide
 Secondary Seals : Viton / PTFE / FEP / GFT / FFKM
 Hardware : SS316 / HAST-C / ALLOY-20

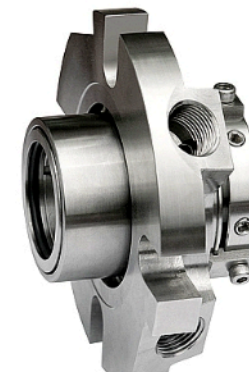
OPERATING LIMITS:

Shaft Dia : 25 - 80 mm (3/4"-3.5")
 Pressure : 25 - 30 bar (max)
 Temperature : -30°C -350°C
 Velocity : 22 - 30 m/s

Generally used for Paper & Pulp industries, Petrochemical industries, Pharmaceutical industries, Dyeing industries, Food industries

Single slurry cartridge seal is a cartridge unit specially designed for slurry application. this seal is perfect for using in such abrasive and rugged media. further, this range is widely used in various industries for different applications.

A self contained unit consisting of a single seal assembly, mating ring, gland, sleeve, etc., which is pre-assembled and preset by the manufacturer prior to installation. a superior upgrade to component seals in both time saved and installation errors avoided.



CARTRIDGE SEALS

1. Multi Spring Seal
2. Metal Bellow Seal

Double Seal

MATERIALS:

Faces : Carbon / Ceramic / Sic. / Tungsten Carbide
 Secondary Seals : Viton / PTFE / FEP / GFT
 Hardware : SS316 / HAST-C / ALLOY-20

OPERATING LIMITS:

Shaft Dia : 25 - 100 mm (1.0"-4.0")
 Pressure : 40 bar (max)
 Temperature : -40°C -220°C
 Velocity : 23 m/s

Generally used for Paper & Pulp industries, Petrochemical industries, Pharmaceutical industries, Dyeing industries, Food industries

Double slurry cartridge seal is a cartridge unit specially designed for slurry application. this seal is perfect for using in such abrasive and rugged media. further, this range is widely used in various industries for different applications.

A self contained unit consisting of a single seal assembly, mating ring, gland, sleeve, etc., which is pre-assembled and preset by the manufacturer prior to installation. a superior upgrade to component seals in both time saved and installation errors avoided.



METAL BELLOW SEALS

MBS 16

MATERIALS:

Faces : Carbon / Sic. / Tungsten Carbide
 Bellow Material : Am350
 Secondary Seals : Viton / Aflas / PTFE / FEP / FFKM
 Hardware : SS316 / Carpenter-42

OPERATING LIMITS:

Shaft Dia : 19-100mm(3/4"-4.0")
 Pressure : 18bar (max)
 Temperature : -50°C -350°C
 Velocity : 25 m/s



Single Acting / Balanced / Independent Of Direction



Single Acting / Balanced / Independent Of Direction



MBS 17

MATERIALS:

Faces : Carbon / Sic. / Tungsten Carbide
 Bellow Material : Am350
 Secondary Seals : Viton / Aflas / PTFE / FEP / FFKM / Grafoil
 Hardware : SS316 / Carpenter-42

OPERATING LIMITS:

Shaft Dia : 19-100mm(3/4"-4.0")
 Pressure : 18bar (max)
 Temperature : -50°C -420°C
 Velocity : 25 m/s

METAL BELLOW SEALS

MBS 16

MATERIALS:

Faces : Carbon / Sic. / Tungsten Carbide
 Bellow Material : AM350
 Secondary Seals : Viton / Aflas / PTFE / FEP / Grafoil
 Hardware : SS316 / Carpenter-42

OPERATING LIMITS:

Shaft Dia : 19-100mm(3/4"-4.0")
 Pressure : 18 bar (max)
 Temperature : -50°C -350°C
 Velocity : 25 m/s



Single Acting / Balanced / Independent Of Direction



Single Acting / Balanced / Independent Of Direction



MBS 16

MATERIALS:

Faces : Carbon / Sic. / Tungsten Carbide
 Bellow Material : AM350
 Secondary Seals : Copper / GFT / PTFE
 Hardware : SS316 / Carpenter-42

OPERATING LIMITS:

Shaft Dia : 19-100mm(3/4"-4.0")
 Pressure : 18 bar (max)
 Temperature : -50°C -350°C
 Velocity : 25 m/s

Df2 DIAPHRAGMS UNBALANCED SEAL

OPERATING LIMIT

Seal size : 31.75mm,35mm,
 42mm,45mm
 Pressure : 10kg/cm²
 Speed : 10m/s
 Temp : -10°C ...to 200°C

FACE MATERIAL

Rotary Face : Carbon, Silicon,TC
 Stationary Seats : Silicon, TC, SS
 Type : S-L202

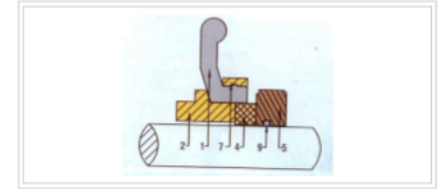


SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon, PTF

METAL PARTS

SS304, Ss316



105 METAL BELLOW BALANCED SEAL

OPERATING LIMIT

Seal size : 25mm to 100mm
 Pressure : 10kg/cm²
 Speed : 20 m/s
 Temp : -20°C ...to 250°C

FACE MATERIAL

Rotary Face : Carbon, Silicon
 Stationary Seats : Silicon, TC, SS,
 Ceramic
 Type : S-6, S-9, S-4,
 S-13, S-50

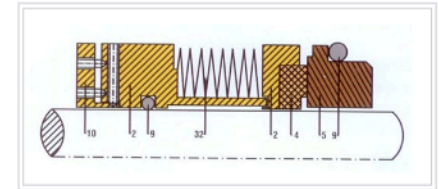


SECONDARY SEAL MATERIALS

Viton, Grafoil, PTFE

METAL PARTS

SS304, Ss316, SS316L



101 METAL BELLOW UNBALANCED SEAL

OPERATING LIMIT

Seal size : 25mm TO 100mm
 Pressure : 10kg/cm²
 Speed : 20 m/s
 Temp : -20°C ...to 250°C

FACE MATERIAL

Rotary Face : Carbon, Silicon
 Stationary Seats : Silicon, TC, SS,
 Ceramic
 Type : S-6, S-9, S-4,
 S-13, S-50

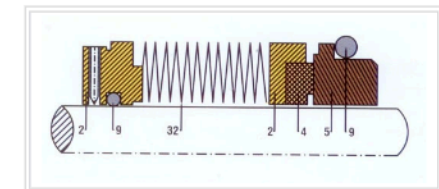


SECONDARY SEAL MATERIALS

Viton, PTFE, Grafoil

METAL PARTS

SS304, SS316,SS316L



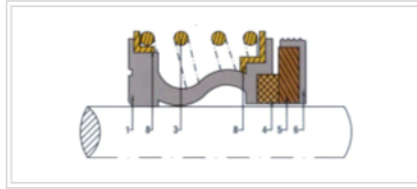
S01 ELASTOMER BELLOW UNBALANCED SEAL

OPERATING LIMIT

Seal size : 100mm to 150mm
 Pressure : 12kg/cm²
 Speed : 10m/s
 Temp : -10°C to 220°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
 Stationary Seats : Silicon, TC, SS, Ceramic
 Type : S-6, S-60, S-9, S-4, S-13, S-50



SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon

METAL PARTS

SS304, SS316

APPLICATION

Chemical Plant, Oil Refinery, Water

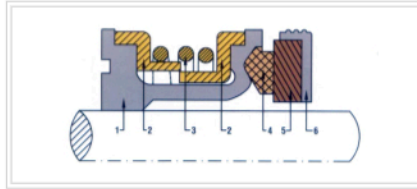
R2101 ELASTOMER BELLOW UNBALANCED SEAL

OPERATING LIMIT

Seal size : 10mm to 100mm
 Pressure : 12kg/cm²
 Speed : 18 m/s
 Temp : -10°C to 220°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
 Stationary Seats : Silicon, TC, SS, Ceramic
 Type : S-60, S-6, S-9, S-4, S-30, S-50



SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon

METAL PARTS

SS304, SS316, SS316

APPLICATION

Chemical Plant, Oil Refinery, Water

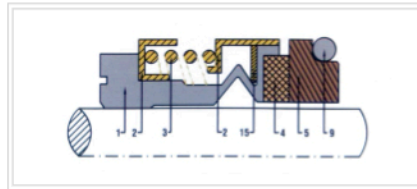
GLF2 ELASTOMER BELLOW UNBALANCED SEAL

OPERATING LIMIT

Seal size : 12mm to 16mm
 Pressure : 10kg/cm²
 Speed : 10 m/s
 Temp : -10°C to 220°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
 Stationary Seats : Silicon, TC, SS, Ceramic
 Type : S-60, S-6, S-9, S-4, S-13



SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon

METAL PARTS

SS304, SS316

APPLICATION

Chemical Plant, Oil Refinery, Water

MULTI SPRING SEALS

DURA 2K

MATERIALS:

Faces : Carbon / Ceramic / Sic. / Tungsten Carbide
 Secondary Seals : Viton / PTFE / FEP / GFT
 Hardware : SS316 / HAST-C / ALLOY-20

OPERATING LIMITS:

Shaft Dia : 12-100mm(0.5"-4.0")
 Pressure : 10bar (max)
 Temperature : -20°C -240°C
 Velocity : 20 m/s

DURA 0K

MATERIALS:

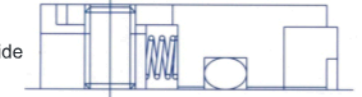
Faces : Carbon / Ceramic / Sic. / Tungsten Carbide
 Secondary Seals : Viton / PTFE / FEP / GFT
 Hardware : SS316 / HAST-C / ALLOY-20

OPERATING LIMITS:

Shaft Dia : 18-100mm(3/4"-4.0")
 Pressure : 35bar (max)
 Temperature : -20°C -240°C
 Velocity : 20m/s



Single Acting / Unbalanced / Independent Of Direction



Single Acting / Balanced / Independent Of Direction



TEFLON BELLOW SEALS

TF 27

MATERIALS:

Faces : GFT / CFT / SIFT
 Stationary Faces : Ceramic / Sic.
 Hardware : SS316 / HAST-C

OPERATING LIMITS:

Shaft Dia : 18-100mm(3/4"-4.0")
 Pressure : 6 bar (max)
 Temperature : -45°C -120°C
 Velocity : 20m/s

TF 28

MATERIALS:

Faces : GFT / CFT / SIFT
 Stationary Faces : Ceramic / Sic.
 Hardware : SS316 / HAST-C

OPERATING LIMITS:

Shaft Dia : 18-100mm(3/4"-4.0")
 Pressure : 6 bar (max)
 Temperature : -45°C -120°C
 Velocity : 20m/s



Single Acting / Outside Mounted / Independent Of Direction



Single Acting / Outside Mounted / Independent Of Direction



Gf30 (G.U.F) CARTRIDGE BALANCED SEAL

OPERATING LIMIT

Seal size : 22mm, 25MM, 28MM
 Pressure : 20kg/cm²
 Speed : 15 m/s
 Temp : 20°C ...to 200°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
 Stationary Seats : Silicon, TC, SS,
 Ceramic
 Type : S-60, S-6, S-9, S-4,
 S-50,

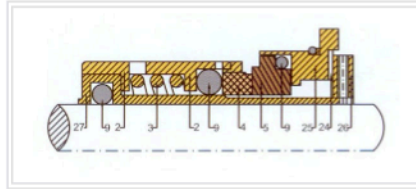


SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon, PTFE

METAL PARTS

SS304, Ss316, SS316L



S H.J 92 WAVE SPRING BALANCED SEAL

OPERATING LIMIT

Seal size : 20mm to 100mm
 Pressure : 20kg/cm²
 Speed : 15m/s
 Temp : -20°C ...to 200°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
 Stationary Seats : Silicon, TC, SS,
 Type : S-9, S-6, S-4, S-13,

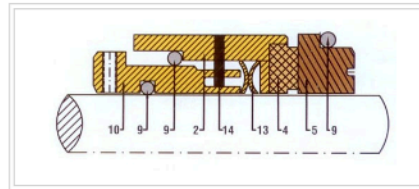


SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon

METAL PARTS

SS304, SS316,



Ag350 AGITATOR SEAL

SEAL CHARACTERISTIC

Single acting, Multiple coil spring,
 Independent direction of rotation,
 Balanced

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
 Stationary Seats : Silicon, TC, SS
 Ceramic

METAL PARTS

SS304, Ss316, Ally-20,
 Hastelloy-B, Hastelloy-C



OPERATING LIMIT

Seal size : 20mm to 200mm,
 Pressure : 10kg/cm²
 Speed : 20m/s
 Temp : -10°C ...to 200°C

SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon

BJ2 CONICAL SPRING ELASTOMER BELLOW UNBALANCED SEAL

OPERATING LIMIT

Seal size : 12mm to 50mm
 Pressure : 10kg/cm²
 Speed : 10m/s
 Temp : -15°C to 180°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
 Stationary Seats : Carbon, Silicon, TC
 Type : S-6, S-9, S-4



SECONDARY SEAL MATERIALS

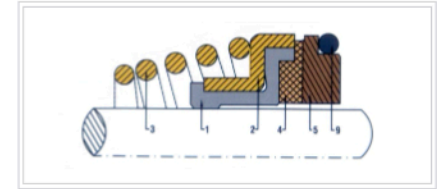
Viton, NBR, EPDM, Silicon

METAL PARTS

SS304, SS316

APPLICATION

Chemical Plant, Oil Refinery, Water



J02 SINGLE SPRING ELASTOMER BELLOW UNBALANCED SEAL

OPERATING LIMIT

Seal size : 20mm to 75mm
 Pressure : 10kg/cm²
 Speed : 13 m/s
 Temp : -20°C to 200°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
 Stationary Seats : Carbon, Silicon,
 TC, SS
 Type : S-60, S-9,
 S-4, S-6, S-50



SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon

METAL PARTS

SS304, SS316

APPLICATION

Chemical Plant, Oil Refinery, Water



Bt52 CLOSE / STOCK TYPE ELASTOMER UNBALANCED SE

OPERATING LIMIT

Seal size : 12mm to 50mm
 Pressure : 8kg/cm²
 Speed : 10m/s
 Temp : -10°C to 120°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
 Stationary Seats : Silicon, TC, SS,
 Ceramic
 Type : S-60, S-50



SECONDARY SEAL MATERIALS

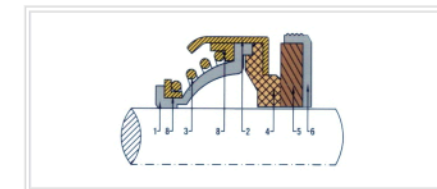
Viton, NBR, EPDM, Silicon

METAL PARTS

SS304, SS316

APPLICATION

Chemical Plant, Oil Refinery, Water



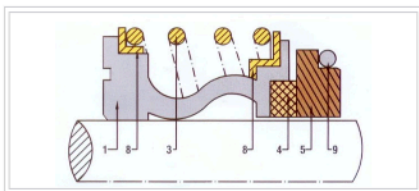
Df2 S20 ELASTOMER BELLOW UNBALANCED SEAL

OPERATING LIMIT

Seal size : 10mm to 100mm,
Pressure : 12kg/cm²
Speed : 10m/s
Temp : 10°C ...to 220°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
Stationary Seats : Silicon, TC, SS,
Ceramic
Type : S-6, S-60, S-9, S-4,
S-13, S-50



SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon

METAL PARTS

SS304, Ss316

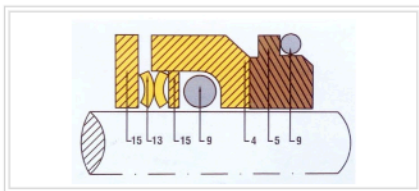
Ls62 WAVE SPRING UNBALANCED SEAL

OPERATING LIMIT

Seal size : 20mm to 100mm
Pressure : 12kg/cm²
Speed : 10 m/s
Temp : 10°C ...to 180°C

FACE MATERIAL

Rotary Face : SS, Silicon, TC
Stationary Seats : Silicon, TC, SS,
Carbon
Type : S-9, S-13



SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon, PTFE

METAL PARTS

SS304, Ss316, SS316L

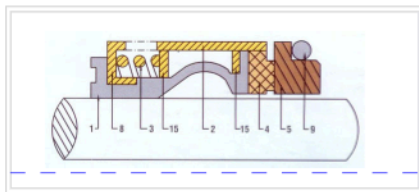
S502 ELASTOMER BELLOW UNBALANCED SEAL

OPERATING LIMIT

Seal size : 15mm to 100mm
Pressure : 12kg/cm²
Speed : 10 m/s
Temp : 10°C ...to 200°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
Stationary Seats : Silicon, TC, Carbon
Type : S-9, S-6, S-4, S-50



SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon

METAL PARTS

SS304, SS316L

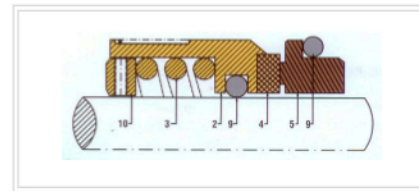
074 SINGLE SPRING UNBALANCED SEAL

OPERATING LIMIT

Seal size : 25mm to 75mm
Pressure : 20kg/cm²
Speed : 15m/s
Temp : -20°C ...to 200°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
Stationary Seats : Silicon, TC, SS,
Type : S-9, S-6, S-4, S-13



SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon

METAL PARTS

SS304, SS316, SS316L

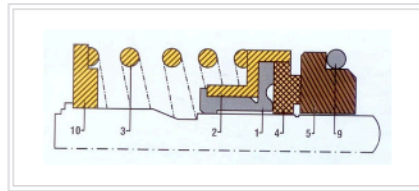
D.R.V. 32 ELASTOMER BELLOW UNBALANCED SEAL

OPERATING LIMIT

Seal size : 25mm to 50mm
Pressure : 10kg/cm²
Speed : 12 m/s
Temp : 10°C ...to 180°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, TC
Stationary Seats : Silicon, TC, SS
Type : S-60, S-6, S-9,
S-4, S-50



SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon

METAL PARTS

Ss304, Ss316, SS316L

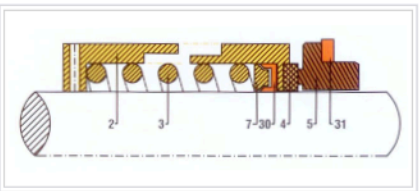
09S STAR 35 UNBALANCED SEAL

OPERATING LIMIT

Seal size : 20mm to 50mm
Pressure : 10kg/cm²
Speed : 10m/s
Temp : 20°C ...to 180°C

FACE MATERIAL

Rotary Face : Carbon, Silicon, T
Stationary Seats : Silicon, TC, SS, C
Type : S-9, S-6, S-4, S-13



SECONDARY SEAL MATERIALS

Viton, NBR, EPDM, Silicon

METAL PARTS

SS304, SS316, SS316L