

DCS Diaphragm seal

Threaded, flanged, clamp, male, union nut



Diaphragm P
up to 400 bar

With selected material, diaphragm workable up to 400 bar, highest pressure range in it's class.



ETFE-PTFE
Coat-Lining

ETFE (Ethylene Tetrafluoroethylene)
PTFE Lining



Double laser
weld diaphragm

Double line diaphragm laser welding to provide high pressure range and accurate reading.




Diaphragm P
up to 160 bar

DCS122 - Heavy Duty Threaded DCS

- Direct threaded design, strong body design
- 2 Piece construction, applicable mostly process
- Process connection size 1/4", 1/2", 3/4" and 1"NPT
- Instrument connection size 1/4" and 1/2"NPTF
- Diaphragm SS316L, FKM, Tantalum, Titanium, etc
- Option diaphragm ETFE coating or PTFE lining
- Process temp. -30°..+120°C depend on filling
- Accessories capillary, cooling tower.. etc
- Working pressure range 0..2.5 up to 160 bar
- Option Integrated flushing ring 1/4" and 1/2"NPTF



DCS102
DCS103



Diaphragm P
up to 400 bar

DCS102/103 - Mini Threaded (P ≤ 400Bar)

- Direct threaded mini body design
- 2 piece construction with welded body
- Connection size G1/2" or NPT
- Diaphragm SS316L, Titanium, Tantalum.. etc
- Option diaphragm ETFE coating or PTFE lining
- Media temp. -30°..+150°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range DCS102 0.. 1 to 100 bar
- DCS103 0.. 60 to 400 bar



DCS101 - Direct Threaded

- Direct threaded design
- Double laser welding diaphragm
- Wide ranges corrosive application
- Connection size 1/2", 3/4", 1" BSP or NPT
- Diaphragm SS316L, Titanium, Tantalum.. etc
- Option diaphragm ETFE coating or PTFE lining
- Viton seal ring, other material available
- Media temp. -30°..+150°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, -1..+24, 0..1 to 400 bar



Diaphragm
-1 to 400 bar



DCS104 - Cooling/Heating System

- Direct threaded with Cooling/Heating vent
- Double laser welding diaphragm
- High temperature and corrosive application
- Pipe connection, specific connection available
- Diaphragm SS316L, Titanium, Tantalum.. etc
- Option diaphragm ETFE coating or PTFE lining
- Viton seal ring, other material available
- Media temp. -30°..+150°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, -1..+24, 0..100 bar



Diaphragm
-1..100 bar



DCS209 - Flanged End Blind Hole

- Flanged end diaphragm seal
- Double laser welding diaphragm
- Wide ranges corrosive application
- Flange end to DIN 2501 or ANSI B1.20
- Diaphragm SS316L, Titanium, Tantalum.. etc
- Option diaphragm ETFE coating or PTFE lining
- Viton seal ring, other material available
- Media temp. -30°..+150°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, -1..+60 to 0..100 bar



Diaphragm
-1 to 100 bar



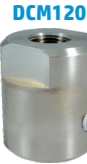
Double laser weld diaphragm



Diaphragm P up to 400 bar
Heavy duty Application

DCM110 - Heavy Duty Threaded

- Mini threaded diaphragm seal, PN25
- Stainless steel jacket and protection
- Corrosive media and gaseous application
- Welded body with integral diaphragm
- Conn. size ½" BSP or NPT Male/Female
- Welded SS316L diaphragm seal
- Process temperature -10°..+150°C
- Ambient temperature -10°..+40°C
- Pressure range 0..10 up to 400 bar



Cleaning Device

Diaphragm P up to 400 bar

DCM120 (Cleaning Device) / DCM130

- Diaphragm with flushing port for cleaning device *DCM120
- Mini threaded diaphragm seal, PN400
- High press. process industrial environment
- Welded body with integral diaphragm
- Conn. size ¼" and ½" BSP/NPT Male/Female
- Welded SS316L diaphragm seal
- Process temperature -10°..+150°C
- Ambient temperature -10°..+40°C
- Pressure range -1..0 bar to 0..400 bar

DCS

Diaphragm seal

Sanitary Threaded Coupling, Clamping, Homogenizer



Food & Beverage
Sanitary Industries



DN Sizes
DN25-DN50



Double laser
weld diaphragm

DCS510 - Sanitary Union Nut

- Sanitary union nut diaphragm seal
- Standard DIN 11851, SMS 1145.. etc
- Wide range hygienic process application
- Double laser welding SS316L diaphragm
- Sterilization and Cleaning in place
- Non-toxic diaphragm filling
- Process temp. -10°..+130°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, 0..1 up to 40 bar
- Conn. size DIN DN25..DN80, SMS 1½"..2"
- Wetted parts SS316 standard



DCS510 - Sanitary Clamping

- Sanitary clamping fastening diaphragm seal
- Standard ISO 2852, DIN 32676
- Wide range hygienic process application
- Double laser welding SS316L diaphragm
- Sterilization and Cleaning in place
- Non-toxic diaphragm filling
- Process temp. -10°..+130°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, 0..1 up to 40 bar
- Conn. size DIN DN32..DN50, ISO 1½"..2"
- Wetted parts SS316 standard



DCS51X - Sanitary Male Thread

- Sanitary male thread diaphragm seal
- Standard DIN 11851, SMS 1145.. etc
- Wide range hygienic process application
- Double laser welding SS316L diaphragm
- Sterilization and Cleaning in place
- Non-toxic diaphragm filling
- Process temp. -10°..+130°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, 0..1 up to 40 bar
- Conn. size DIN DN25..DN80, SMS 1½"..2"
- Wetted parts SS316 standard



DCS850 - Homogenizer Sanitary

- Homogenizer sanitary diaphragm seal
- Special design for homogenizing industries
- Homogenizer block flange mounting design
- Stainless steel wetted part and construction
- Designed flush diaphragm welded to body
- USP Grade glycerine diaphragm filling
- Ambient temperature -10°..+40°C
- High pressure application diaphragm seal
- Pressure range 0..100 bar to 0..600 bar
- Available various supporting accessories



Diaphragm P up to 600 bar

DCS

Diaphragm seal

In-line and Extended Sensor

DCS850 - In-Line Diaphragm Seal

- On-line pipe diaphragm seal (No dead volume)
- Pipeline direct permanent and flowing application
- Specific construction available on request
- Diaphragm SS316L, other material available
- Body material stainless steel construction
- Process temp. -10°..+200°C depend on filling
- Accessories capillary, cooling tower.. etc
- *Option diaphragm ETFE coating or PTFE lining
- Pressure range 0..1 to 0..40 bar
- Connection to flange standard
 - ASME B16.5 Size 1"..6"
 - EN 1092-1 DN25.. DN150



In-Line type
Connection

DCS710 - Extended Sensor Type

- Flanged process with Extended diaphragm seal
- Design for chemical, isolated and tank application
- Extended diaphragm length 50.. 200 mm
- Wetted parts SS316L, other materials available
- Flush diaphragm SS316L, double laser welded
- Process temp. -10°..+200°C depend on filling
- Accessories capillary, cooling tower.. etc
- Option diaphragm ETFE coat/PTFE lining
- Pressure range 0..0.6 to 0..400 bar
- Connection to flange standard
 - ASME B16.5 Size 1"..6"
 - EN 1092-1 DN25.. DN150



Diaphragm P up to 400 bar



DCS Diaphragm seal

Flanged End and Flush Diaphragm



DCS300 - Flanged Diaphragm Seal

- Flanged end diaphragm seal
- Double laser welding diaphragm
- Wide ranges corrosive application
- Flange end to DIN 2501, ANSI B1.20.1.. etc
- Flanged to ASME B16.5, DN 1/2"-.4", Rate 150..2500
- Diaphragm SS316L, Titanium, Tantalum.. etc
- Option diaphragm ETFE coating or PTFE lining
- Viton seal ring, other material available
- Media temp. -30°..+240° depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, -1..+24 to 0..400 bar

 DN25..DN50
 PN10..PN400
  ETFE-PTFE
 Coat-Lining



DCS200 - Flush Diaphragm Seal

- Flanged end diaphragm seal
- Double laser welding diaphragm
- Wide ranges corrosive application
- Flange end to DIN 2501, ANSI B1.20.1.. etc
- Flanged to ASME B16.5, DN 1"-.4", Rate 150..2500
- Diaphragm SS316L, Titanium, Tantalum.. etc
- Option diaphragm ETFE coating or PTFE lining
- Viton seal ring, other material available
- Media temp. -30°..+240°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, -1..+24 to 0..400 bar

 DN40..DN125
 PN10..PN250
  ETFE-PTFE
 Coat-Lining



DCS401 - Mini Flush Diaphragm Seal

- Threaded flush diaphragm seal
- Wide ranges standard corrosive application
- Female instrument conn. 1/4"-.1/2"NPT or BSP
- All welded system, suitable for high pressure
- Diaphragm SS316L welded to body
- Media temp. -20°..+150°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range 0..16 bar to 0..600 bar
- Male pipe thread :
 - Size 1/2"
 - Size 3/4"
 - Size 1"
 - Size 1 1/2"



 Diaphragm P
 4 to 600 bar

DCS330V - Air-Vent Diaphragm Seal

- Integral Air-Vent for cooling/heating system
- Flanged to ASME B16.5, DN 2"-.4", Rate 150..1500
- Double laser welding diaphragm
- Wide ranges corrosive application
- Flange end to DIN 2501, ANSI B1.20.1.. etc
- Diaphragm SS316L, Titanium, Tantalum.. etc
- Option diaphragm ETFE coating or PTFE lining
- Viton seal ring, other material available
- Media temp. -30°..+240°C depend on filling
- Accessories capillary, cooling tower.. etc
- Pressure range -1..0, -1..+24 to 0..400 bar

 DN50..DN125
 PN10..PN400
  ETFE-PTFE
 Coat-Lining

DCS402 - Extended Flush Diaphragm Seal

- Threaded extended flush diaphragm seal
- Wide ranges standard corrosive application
- Design for contaminated, viscous pressure
- Female instrument conn. 1/4"-.1/2"NPT or BSP
- Diaphragm SS316L welded to body
- Various diaphragm material
- Media temp. -20°..+150°C depend on filling
- Accessories capillary, cooling tower.. etc
- Option diaphragm ETFE coating or PTFE lining
- Pressure range 0..1 bar to 0..200 bar
- Male running nut
 Size 1", 1 1/4", 1 1/2", 2" BSP or NPT

 Diaphragm P
 up to 200 bar



DVC103 - PVC Diaphragm Seal

- Threaded type diaphragm seal
- Plastic body construction design
- Suitable for waste water application
- Contaminated instrument protection
- Connection size G $\frac{1}{2}$ " and $\frac{1}{2}$ "NPT
- PTFE diaphragm seal
- Process temperature -20°..+60°C
- Pressure range -1..15, 0..1 to 16 bar
- Design body material :
 - DVC103 PVC upper and lower body
 - DVC105 PTFE upper and lower body



DVC102 - PVC Diaphragm Seal

- Threaded PVC body diaphragm seal
- Stainless steel upper body design
- Contaminated instrument protection
- Connection size G $\frac{1}{2}$ " and $\frac{1}{2}$ "NPT
- SS316 diaphragm with PTFE foil / ETFE coating
- Process temperature -20°..+60°C
- Pressure range -1..15, 0..1 to 16 bar



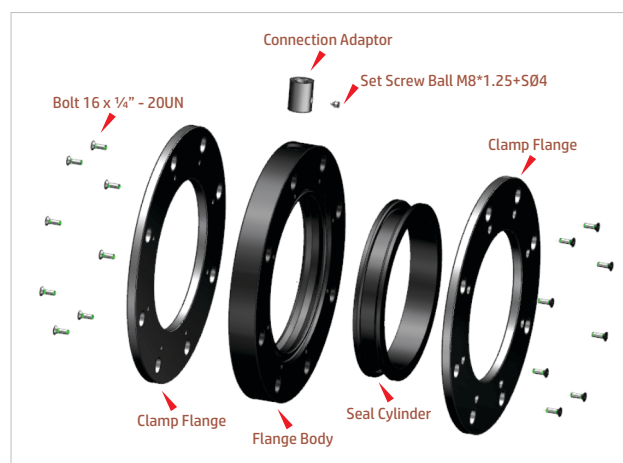
DVC105 - PVC Diaphragm Seal

- PVC diaphragm seal with body protector
- Plastic body construction design
- Suitable for waste water application
- Contaminated instrument protection
- Connection size G $\frac{1}{2}$ " or $\frac{1}{2}$ "NPT Female
- VITON diaphragm seal
- Process temperature -20°..+60°C
- Pressure range 0..2.5 bar to 0..7 bar



IR080 - Isolation Ring

- Various materials to meet clients' requirement
- Isolation for gauges or switches from solids in process flow
- To ensure accurate pressure readings
- Special swivel ring for easy instruments installation or calibration
- Compliance to ASME B40.100
- Designed for water treatment, oil&gas, paper&pulp and industrial
- Pipe Inner diameter size 1" up to 48" (25.. 1220 mm)
- Construction material SS316 and Carbon steel
- Various End plates materials
 - SS 316
 - Hastelloy C
 - Titanium
 - Acetal
 - PTFE
- Elastomer (Sleeve) designed materials
 - Nitrile/Buna N (-30° to 80°C)
 - Neoprene (-30° to 100°C)
 - EPDM (-30° to 150°C)
 - PTFE (-40° to 200°C)
 - FKM (-20° to 200°C)
 - Natural Rubber (-45° to 100°C)
- Filling Fluids
 - Silicone -40° to 260°C (-40° to 500°F)
 - Glycerine -18° to 204°C (0° to 400°F)
 - Glycerine-Water (80:20) -9° to 107°C (15° to 225°F)



Various Exotic materials design :
SS316, Hastelloy C, Titanium,
PTFE, Acetal, UHMW ..



Pipe ID 1"..48" (25.. 1220 mm)
For other Sizing, available on
Special custom or request !