

# Reinforced Heavy-Duty Threaded Diaphragm Seal

# MDC 110 Series

## Application



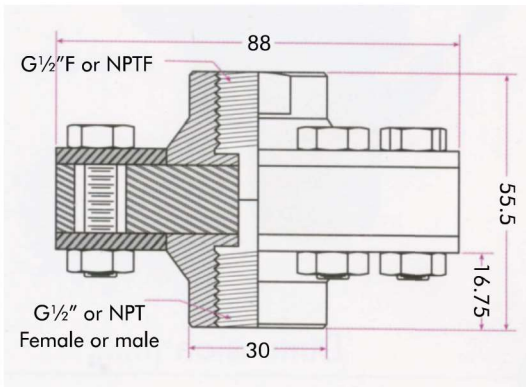
MDC110 is a reinforced heavy-duty diaphragm seal designed for corrosive, friendly-use and protected with stainless steel jacket for stronger diaphragm seal protection. Design with various selection of diaphragm materials or wetted parts, such as Hastelloy, Monel, Tantalum, Titanium etc, suitable for chemical plants, process industries, water treatment and other extreme corrosive environment.



## Features



- Heavy-duty mini design body diaphragm seal
- Additional reinforcement stainless steel jacket protection
- Direct threaded processing type
- Pressure range 0.. 10 bar to 250 bar
- Welded body full stainless steel with integral diaphragm
- Process connection G1/2" or NPT, Male or Female
- Media temperature -10°..+150°C, up to 200°C\*
- Special diaphragm material or wetted parts available
- Applicable on accessories, eg. capillary, siphon, etc



## Technical Specification



- Pressure configuration  
0..10 bar up to 250 bar
- Body diameter size  
Ø 57.6 mm
- Working media temperature  
Process temperature -10°..+150°C,  
\*Up to 200°C depend on filling liquid
- Instrument / Process Connection Size  
G1/2" or 1/2" NPT, Male or Female
- Body material and wetted part  
Stainless steel 316
- Diaphragm material  
SS316L, Option Titanium, tantalum, hastelloy, etc
- Diaphragm filling  
Silicone oil standard



Diaphragm seal  
jacket protection

• Design construction Overview



## Ordering Code

### MDC100 - Diaphragm<sup>①</sup> - Process Connection<sup>②</sup> - Filling<sup>③</sup> \*Option<sup>④</sup>

Model	Diaphragm seal type
DCM110	Heavy-Duty diaphragm seal, PN 250

①	Diaphragm Material
SS	SS 316 L (Standard)
TI	Titanium
TA	Tantalum
HC	Hastelloy (H276C)
MO	Monel (Cu30Ni70)
XX	Other material

②	Process Connection
G2F	G 1/2" Female
N2F	1/2"NPT Female
G2M	G1/2" Male
N2	1/2"NPT Male

③	Diaphragm Filling
A	Standard silicone oil -40°..+130°C
B	Hi-temp. silicone oil -30°..+200°C
X	Other filling, please consult !

④	Option
AC	Capillary (Meter), eg. AC5 - 5 meters
CX	Cooling tower, C1.. C3
DW	PTFE wetted part coating

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