



DK - 2501,2502,2503

Threaded diaphragm Seal

Introduction

- Wide Range of threaded process connections.
- Linternal welded diaphragm
- Lower part exchangedable
- Option : with cleaning ring

Applications

- Oil & Gas / Chemical
- Water & Waste water
- Energy
- Machinery



Technical Data

This universal chemical seals with threaded process connection are used to protect pressure gauges from high temperature, aggressive, crystalizing or corrosive fluids.

Chemical seals can be mounted to mechanical pressure gauges, switches or transmitters directly or with a flexible capillary.

The filling fluid of the measuring system has to be chosen compatible to the application.

A wide choice of materials for the wetted parts allow the user to adapt the seal to many different applications and process fluids.

This allows the user to adapt the system to different process connections.

Upper parts alone are supplied with screws and gasket.

Pressure ranges 0 ... 160 mbar to 0... 500 bar
(see ordering table)

Wetted parts 316L

Option : exotic material or coatings
(see ordering table)

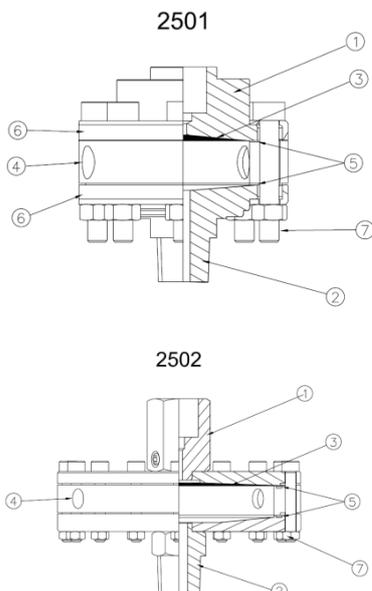
Cleaning ring With 1 flushing port 1/8 NPT female
(option) (only 2501, 2502)

Gaskets 2501, 2502 : PTFE (max.200 °C)

2503 : 316L (max.. 200 °C)

2503 : graphite (max.. 400 °C)

Materials



	NO.	2501	2502	2503
Upper part	①	316L		
Lower part	②	316L		
Diaphragm	③	316L		
Cleaning ring	④	316L		-
Gaskets	⑤	PTFE		graphite
Fixing flanges	⑥	304 SS		316L
screws / nuts		304 SS		316L

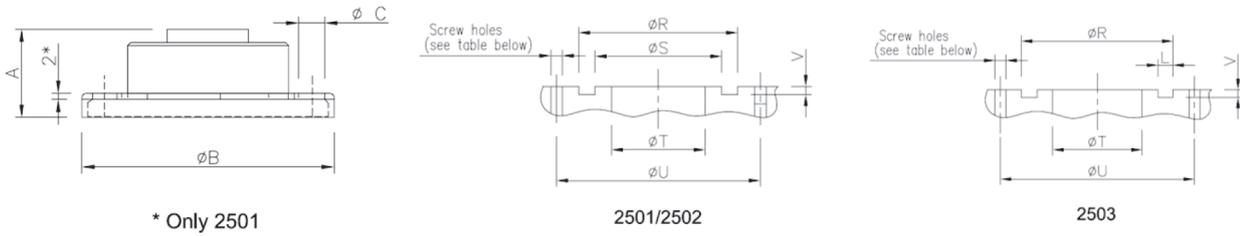


DK - 2501,2502,2503

Threaded diaphragm Seal

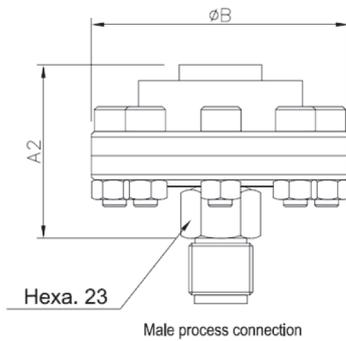
Dimension (mm)

Upper part

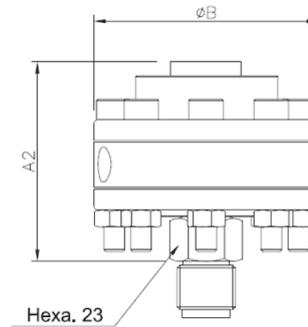


	ϕB	A	ϕC	Weight (kg)	ϕR	$\phi S/0..-0.1$	L	V	$\phi T/0..-0.2$	$\phi U / \pm 0.1$	Screws	Gaskets
2501	85	30	8.5	0.5	59.1..-0.05/+0	55	-	0.6..-0/+0.1	54	70	8 × M8	58.8×58.8×1(PTFE)
2502	120	43	5.5	0.66	101.1..-0/+0.2	96	-	0.6..-0/+0.1	94	110	16 × M5	101×97×1(PTFE)
2503	85	43	10.5	0.79	50.5..-0/+0.05	-	2.25 -0/+0	2.5..-0.1 /+0	45	65	8 × M10	50.5×46×3.3(graphite)

Upper part + lower part



Upper part + lower part



	A1	A2	ϕB	Weight(kg)
2501	59	58	85	1.1
2502	73	64	120	1.4
2503	72	73	85	1.7

	A1	A2	ϕB	Weight(kg)
2501	77	76	85	1.6
2502	88	78	120	1.9
2503	-	-	-	-



DK - 2500

Threaded diaphragm Seal

Ordering details

	DK		-						-		
Model											
Medium high pressure ...160 bar(max.)	2501										
Normal pressure 40 bar (max.)	2502										
High pressure ...500 bar(max.)	2503										
Upper part material											
316 SS			1								
304 SS			2								
Instrument connection											
1/2" PF				A							
3/8" PF				B							
Diaphragm material											
316L					1						
Tantalum					2						
Hastelloy C					3						
Monel 400					4						
OTHER					5						
Diaphragm coating											
no coating						0					
PTFE (Thin anti-sticking coating. Limited corrosion resistance)						1					
Cleaning ring material											
Without cleaning ring							0				
316L							1				
Hastelloy C							2				
Monel 400							3				
Lower part material											
316L										1	
Hastelloy C										2	
Monel 400										3	
PVC max.10 bar / 40 °C										4	
PTFE max.10 bar / 80 °C										5	
Process connection											
Male thread PF 3/8											1
Male thread PF 1/2											2
Male thread NPT 1/2											3
Lower part coating											
no coating											0
PTFE (Thin anti-sticking coating. Limited corrosion resistance)											1