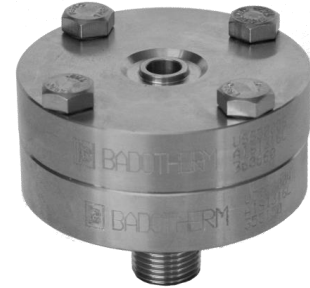


The UST construction is designed for those applications where the existing threaded process connection is too small to use a flush diaphragm seal. The UST consists of an upper and lower housing, the upper is the actual seal part with a diaphragm size that allows for measurement of relatively low ranges (200 mbar 2 seals attached (dP); 800 mbar single seal attached). The lower housing creates the transition from the diaphragm size to the actual small process connection. UST is typically used in combination with (differential) pressure transmitters for applications such as level, flow and pressure measurement; also the UST is often combined with pressure gauges.



STANDARD EXECUTION

DIAPHRAGM	BODY	MOUNTING CONNECTION
AISI 316(L)	AISI 316(L)	top (axial)

GASKET	BOLTS
PTFE	3/8" UNF – A2-70

THREADED PROCESS CONNECTIONS

NPT

size		dD
1/2"	Male or female	50mm
3/4"	Male or female	50mm
1"	Male or female	50mm

BSP

size		dD
1/2"	Male or female	50mm
3/4"	Male or female	50mm
1"	Male or female	50mm

UPPER AND LOWER PART ASSEMBLY

BOLTING

thread	material	mwp	pcs
3/8" UNF	A2-70	125 bar	4
3/8" UNF	A2-70	250 bar	8
3/8" UNF	8.8	150 bar	4
3/8" UNF	8.8	300 bar	8

GASKET

material	Operating temperature
Virgin PTFE	-200 / +260°C
Garfite N	-73 / +343°C
Camprofile ¹	-200 /+ 500°C

¹ for steam applications

Note: mwp (maximum working pressure) at 20 °C with AISI 316(L) body material

WETTED PARTS, BODY MATERIALS, AND THREADS

diaphragm mat.	body material	lowerpart material
AISI 316(L)	AISI 316(L)	AISI 316(L)
AISI 304(L)		
AISI 321		
AISI 316 UG		
Hastelloy C-276		
Hastelloy C-276	AISI 316(L)	Hastelloy C-276
Monel 400	AISI 316(L)	Monel 400
Tantalum	AISI 316(L)	Tantalum*
Nickel 201	AISI 316(L)	Nickel 201
Duplex 2205	AISI 316(L)	Duplex
Inconel 600	AISI 316(L)	Inconel 600
Titanium Gr. 1	Titanium Gr.2	Titanium Gr.2

*Note: material AISI316(L) with tantalum treatment

threads	norms
NPT	ANSI B1.20.1
BSP	ISO 228
BSPT	ISO 7
UNF	ANSI 131.1
METRIC	ISO 965

COATING AND OTHER OPTIONS

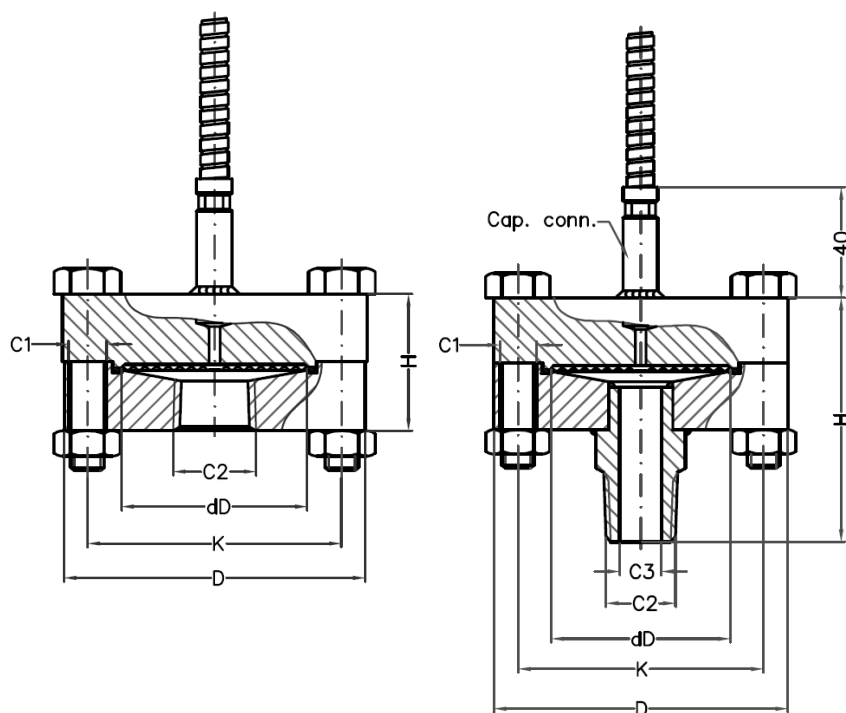
COATINGS

- gold: 25 µm / 40 µm chemical resistance and/or hydrogen permeation protection (facing and/or diaphragm – page 120)
- PTFE / ECTFE for anti stick purpose only (upper part)
- FEP / PFA (upper part)
- Tantaline lower part
- PTFE lining (lower part; BSP male only)

OTHER OPTIONS

- heavy duty capillary tube page 113/123
- TR - temperature reducer page 114
- PTFE sheet for anti-stick purpose only (no vacuum)
- flushing ports in lower part (not in combination with lining)
- degreasing of wetted parts

DRAWING AND DIMENSIONS STANDARD EXECUTIONS



C2		C1	dD	C3	D	K	H
1/2"	female	3/8" UNF/4;8 pcs	51	-	85	70	38
3/4"	female	3/8" UNF/4;8 pcs	51	-	85	70	44
1"	female	3/8" UNF/4;8 pcs	51	-	85	70	44
1/2"	male	3/8" UNF/4;8 pcs	51	12	85	70	69
3/4"	male	3/8" UNF/4;8 pcs	51	12	85	70	72
1"	male	3/8" UNF/4;8 pcs	51	12	85	70	88

All dimensions in mm



Holland – United Kingdom – Romania – India – Thailand – Dubai – USA

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