

Truncated type flanged diaphragm seal model DT ASME

according to ASME B16.5



FEATURES

- *All-welded design*
- *Variety of wetted parts materials, special materials cover the sealing surface too*
- *Filling port in the instrument connection*
- *Suitable for pressure gauges, switches and transmitters*
- *Continuous duty design*
- *Minimized fill volume*

APPLICATIONS

- *Corrosive processes*
- *Controlling fugitive emissions*
- *Elevated process temperatures*
- *Suspended solids in the process*
- *Isolated pipes and vessels*
- *Tank level measurement*

CONSTRUCTION

The DT Type allows a flush installation on thick isolated pipe, tank or vessel applications. All of the combinations afford instrument protection from corrosives, heat and clogging issues associated with viscous media or solids.

SPECIFICATIONS

Maximum Pressure Rating

150 lbs, 300 lbs, others on request

Flange Material

Stainless Steel 1.4404 (316L), others on request

Extension tube and diaphragm Materials

Stainless Steel 1.4435 (316L), Hastelloy C-276, Tantalum (diaphragm only), Monel 400, optional PTFE (Teflon) or ECTFA (Halar) coating or Gold plating, others on request

Instrument Connection Material

Stainless Steel 1.4404 (316L)

Instrument Connection Sizes

G ¼, G ½ female, ¼ NPT, ½ NPT female, Port for direct welded capillary line

Process Connections

2", 3", 4" according to ASME B16.5 Form RF, others on request

Accuracy (typical)

Seal will add 0,5 % to the stated full scale accuracy of the instrument attached.

Standard Fill Medias

Silicone
Halocarbon
Syltherm
FDA approved white oil, silicone free
*Others available upon request

ATEX

Conformity according to 2014/34/EU appendix X for mechanical equipment in potential hazardous areas:

Optional, marking

CE 0044 Ex II 2 GD c II TX

File no. 35101282 at notified body 0044, TÜV NORD CERT

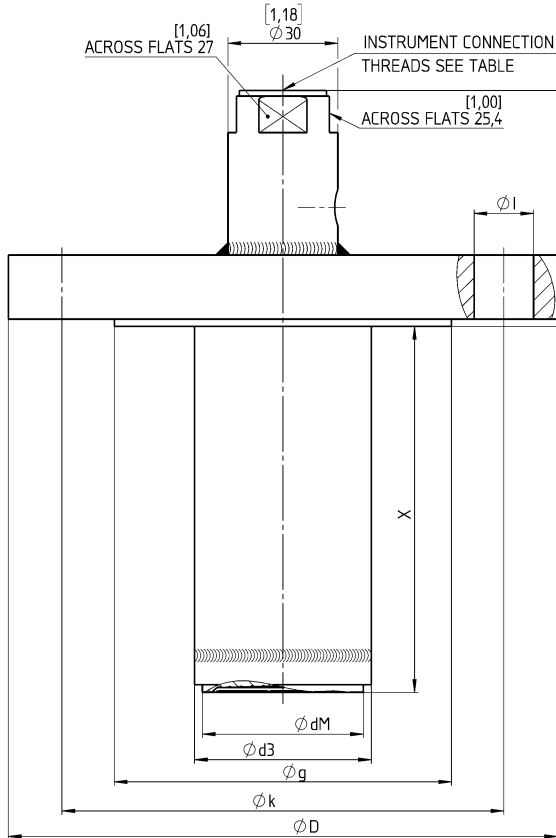
The temperature class will be determined by the used measuring device.

OPTIONS

- DU - Welded instrument connection
- MQ - PMI-test
- 6B - Cleaned for Oxygen service
- C3 - Material certificate EN 10204 3.1
- CD5 - NACE certificate

ACCESSORIES

Capillary line, cooling tower

General dimensions [mm]


Size DN	PRESSURE CLASSES	∅ D	b	∅ g	∅ dM	∅ d3	∅ k	∅ l	WEIGHT kg
2"	150	[5,91] 150	[0,69] 17,5	[3,63] 92,1	[1,73] 44	[1,90] 48,3	[4,75] 120,7	[0,75] 19,1 x 4	3,0 - 3,5
	300	[6,50] 165	[0,81] 20,7				[5,00] 127,0	[0,75] 19,1 x 8	3,5 - 4,5
3"	150	[7,48] 190	[0,88] 22,3	[5,00] 127,0	[2,24] 57	[2,99] 76,0	[6,00] 152,4	[0,75] 19,1 x 4	6,0 - 7,5
	300	[8,27] 210	[1,06] 27,0				[6,63] 168,3	[0,87] 22,2 x 8	7,5 - 9,0
4"	150	[9,06] 230	[0,88] 22,3	[6,19] 157,2	[3,46] 88	[3,70] 94,0	[7,50] 190,5	[0,75] 19,1 x 8	8,5 - 10,0
	300	[10,04] 255	[1,19] 30,2				[7,87] 200,0	[0,87] 22,2 x 8	13,0 - 14,5

X
[1,97] 50
[3,94] 100
[5,91] 150
[7,87] 200

INSTRUMENT CONN. THREADS	CODE
1/4-18 NPT FEMALE	02T
1/2-14 NPT FEMALE	04T
G 1/2 FEMALE; DIN EN 837	51T
G 1/4 FEMALE; DIN EN 837	26T
WELDING PORT	00T

Rev. A

Order information

Process connection	Extension tube and diaphragm material	Flange material	Instrument connection	Rating	Flange form	Extension	Filling fluid	Options
Nominal Diameter	(S-S) 316L (1.4435)	(S) 316L (1.4404)	(00T) Welding port	Nominal pressure in lbs.	(RF) Raised face	Length in mm	(CK) Silicone (direct mounted or with capillary ≤ 10' (3 m), -40/600 °F, -40/315 °C)	(6B) Cleaned for Oxygen service (Halocarbon filling required)
(20) 2"	(S-H) 316L (1.4435) and Hastelloy C 276	(P) Monel 400	(02T) 1/4 NPT female	(150 LBS)	(FF) Flat face	(50)	(DJ) Silicone (with capillary > 10' (3 m), -40/600 °F, -40/315 °C)	(ATEX) ATEX approval
(30) 3"	(S-U) 316L (1.4435) and Tantalum ¹⁾	(H) Hastelloy C 276	(04T) 1/2 NPT female	(300 LBS)		(100)	(CF) Halocarbon (direct mounted or with capillary, -70/300 °F, -56/149 °C)	(DU) Welded instrument connection
(40) 4"	(P-P) Monel 400		(51T) G 1/2 female			(150)	(HA) Syltherm 800 (direct mounted or with capillary, -40/750 °F, -40/400 °C)	(NH) Tagging wired
	(H-H) Hastelloy C276		(26T) G 1/4 female			(200)	(GQ) FDA approved white oil, silicone free (direct mounted or with capillary ≤ 10' (3 m), 15/480 °F, -10/250 °C)	Material certificates according EN 10 204
	(H-U) Hastelloy C276 and Tantalum ¹⁾							(C3) 3.1 traceability
	(S-S-H) 316L (1.4435) Halar coated (ECTFE) ²⁾							(CD5) NACE certificate MR 01-75/ ISO 15156
	(S-S-TC) 316L (1.4435) Teflon coated							(MQ) PMI test
	(W) Gold plated							(1115A) Stainless steel armored capillary ¹⁾
others on request	¹⁾ max. temp. 480 °F, 250 °C ²⁾ max. temp. 300 °F, 150 °C	others on request	others on request	others on request	others on request	others on request	others on request	(1115P) Stainless steel armored capillary with PVC sheathing ¹⁾
								¹⁾ see data sheet G3.1115

Order example

Process connection	Type	Ext. tube and diaphragm	Flange material	Instrument connection	Rating	Flange form	Extension	Filling fluid	Option
30	DT ASME	S-H	S	04T	150 LBS	RF	100	CK	C3

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