

### FEATURES

- " I " section extension type
- For flanges below 1½"
- Optional exotic materials

### APPLICATIONS

- Separation systems
- Isolation applications
- Viscous & corrosive media
- High-pressure applications
- High vibration application

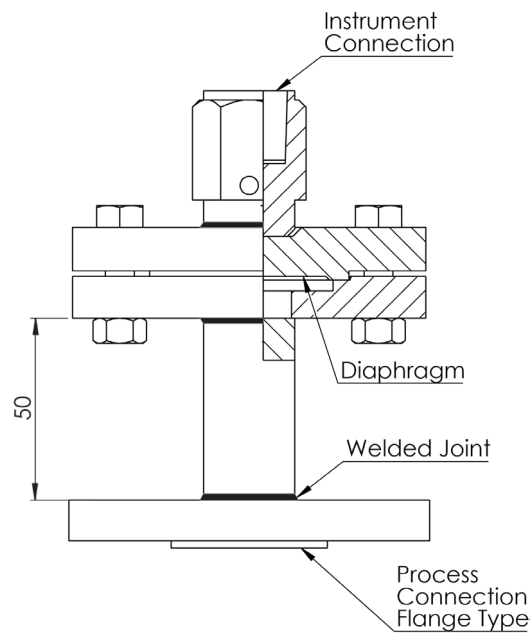
### " I " section type



### STANDARD SPECIFICATIONS

Range type	: -1...400 bar
Top chamber material	: AISI 316 SS
Diaphragm	: AISI 316L SS
Gaskets	: PTFE
Bottom chamber material	: AISI 316 SS
Instrument connection	: ½" NPT (F) / ½" BSP (F)
Sealing fluid	: Silicon
Process connection	: Flange as per ANSI B16.5 / EN1092-1 / JIS B 2210
Flange facing type	: Raised face
Assembly	: Direct

### DIMENSIONAL DRAWING



All dimensions are in mm.

## ORDERING CODES

### 1. RANGE TYPE

S01	-1...400 bar	S01
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### 2. TOP CHAMBER MATERIAL

LB	ASTM A105	
LC	AISI 304SS	LC
LF	AISI 316 SS	
LG	AISI 316L SS	

### 3. DIAPHRAGM MATERIAL

DG	AISI 316L SS	DM	Monel	DG
DB	AISI 316 SS	DQ	Inconel 600	
DO	Hastelloy C-276	DW	Tantalum	
DV	Titanium	D9	Gold Coated	
D8	Silver coated			

### 4. GASKETS

RP	PTFE	RM	Metal	RP
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### 5. BOTTOM CHAMBER MATERIAL (I-Section)

NB	ASTM A105	NC	AISI 304SS	
NF	AISI 316 SS	NG	AISI 316L SS	NF
NM	Monel	NO	Hastelloy C-276	
NV	Titanium	NW	Tantalum	
N1	PVC <sup>1</sup>	N3	PVDF <sup>1</sup>	
N4	Polypropylene <sup>1</sup>	N2	PTFE <sup>1</sup>	

### 6. INSTRUMENT CONNECTION

03B	3/8" BSP (F)	04B	1/2" BSP (F)	
02B	1/4" BSP (F)	04N	1/2" NPT (F)	04N
02N	1/4" NPT (F)			

### 7. SEALING FLUID

OA	Silicon	OA
OG	Glycerine	

### 8. PROCESS CONNECTION

XXX	Refer Flange Table for the codes	A13
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### 9. FLANGE FACING

F	Flat Face	
J	Ring-Type Joint	
R	Raised Face	R
T	Tongue and Groove (T&G)	

### 10. COUPLING FLANGES & HARDWARES

LA	ASTM A105 / CS with Black powder coated	LA
LD	AISI 304SS	
LH	AISI 316 SS	

### 11. PROTECTION ON WETTED PARTS

PA	PTFE lining on bottom chamber	PA
PB	PTFE protection for diaphragm	
PC	PTFE coating on diaphragm or wetted parts	

### 12. ASSEMBLY

B8	Direct	B8
B9	Remote (capillary)	

### 13. CAPILLARY

OU	AISI 304SS	OV	AISI 316 SS	OV
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### 14. ARMOUR

OX	AISI 304SS	OY	AISI 316 SS	OY
OZ	PVC (Ambient max. 60°C)			

### 15. REMOTE MOUNTING LENGTH

XXXX	1000 mm up to 6000 mm	XXXX
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### 16. OTHER OPTIONS

TC	Material test certificate	TC
TN	NACE standards	

**Ordering Example : USFH-S01-LC-DG-RP-NF-04N-OA-A13-R-LA-PA-B8-OV-OY-TC**

## NOTES

1. Pressure rating up to 10 bar. Consult factory for details.
2. Other sealing liquids are available, contact factory for further details.
3. Not applicable with option PA & PC.
4. All metal diaphragms are laser welded to the Top Chamber.

02/03

### Flange Table

ANSI B 16.5								
Code	Size	Rating	Code	Size	Rating	Code	Size	Rating
A01	½"	150#	A02	½"	300#	A03	½"	600#
A04	½"	900#	A05	½"	1500#	A06	½"	2500#
A07	¾"	150#	A08	¾"	300#	A09	¾"	600#
A10	¾"	900#	A11	¾"	1500#	A12	¾"	2500#
A13	1"	150#	A14	1"	300#	A15	1"	600#
A16	1"	900#	A17	1"	1500#	A18	1"	2500#
A19	1¼"	150#	A20	1¼"	300#	A21	1¼"	600#
A22	1¼"	900#	A23	1¼"	1500#	A24	1¼"	2500#
A25A	1½"	150#	A26	1½"	300#	A27	1½"	600#
A28	1½"	900#	A29	1½"	1500#	A30	1½"	2500#
A31	2"	150#	A32	2"	300#	A33	2"	600#
A34	2"	900#	A35	2"	1500#	A36	2"	2500#
A37	2½"	150#	A38	2½"	300#	A39	2½"	600#
A40	2½"	900#	A41	2½"	1500#	A42	2½"	2500#
A43	3"	150#	A44	3"	300#	A45	3"	600#
A46	3"	900#	A47	3"	1500#	A48	3"	2500#
A49	4"	150#	A50	4"	300#	A51	4"	600#
A52	4"	900#	A53	4"	1500#	A54	4"	2500#