



DS SMS

All SS Diaphragm Sealed Pressure Gauge Sanitary Process Connection (SMS THREADED)

Special Features

- Stainless steel case & measuring system
- Laser welded diaphragm
- Dry or liquid filled
- Diaphragm seal integrally built with gauge.
- Reduces the effect of vibration / pulsation
- Polished diaphragm provides best hygiene factor
- Standard followed en 837-3

Application

- Especially designed for sanitary application
- Pharmaceutical
- Paint industry
- Bacterial & fungal accumulates which contaminate the process are eliminated
- The mirror finishing of the components assures the best hygiene.



Specifications

Over pressure limit

Standard Version: 50 mm, 63 mm & 100mm

Accuracy : ±1.6% of F.S.

Ambient temperature : 10 to 60°C

Process temperature : 10 to 150°C

Operating pressure range : 75% of Scale Value

Case & Bezel : AISI 304 SS (Polished Bayonet Type)

 Socket
 :
 AISI 316 SS

 Bourdon
 :
 AISI 316L SS

 Movement
 :
 AISI 304 SS

 Body
 :
 AISI 316 SS

Joints : Tig Argon Arc Welding

Diaphragm : AISI 316L SS (Polished) Laser Welded

Sanitary Seal : SMS Thread (Type SDF & SDM) Types Shown on Page No 2.

130% of Scale Value

Protection : IP 65

Dial : Aluminum, black graduation on white background

Pointer : Aluminum, black coloured, fixed

Window : Plexi Glass
Gasket : Silicon rubber
Filling Plug : Neoprene
Sealing Fluid : Glycerin

Dry but fillable version (option FG)

Fillable Dampening Liquid : Glycerine 99.7% Ambient Temperature : Maximum 65°C Process Temperature : Maximum 65°C

Other Features : Refer Specification of Standard Version

Glycerine filled version (option PY)

Accuracy : ±1.6% of F. S.

Process Temperature : Maximum 65°C

Ambient Temperature : Maximum 65°C

Window : Plexi Glass

Dampening Liquids : Glycerine 99.7%

Other Features : Refer Specification of Standard Version

Temperature effect :

The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :- Formula: ± 0.08 x (t2 - t1) % of F. S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C.



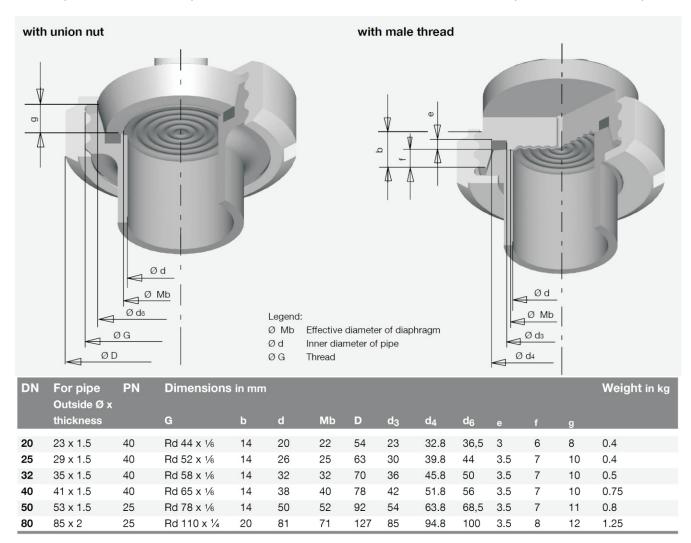
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Dimensions - Standard Version

TYPE: SDF (SMS Thread DIN 11851)

TYPE: SDM (SMS Thread DIN 11851)



Notes: • Drawings are not to scale. • All Dimensions are in mm. • NS = Nominal Size. • For Gauge Dimensions, Please Refer Catalogue of WP4

Range Table

Note: We offer National / International Scales like kPa, MPa, bar, psi, kg/cm²& Dual Scale like kPa with psi, kPa with bar, bar with psi or Equivalent scales as per the requirement can be provided on request. Following are the example tables for kg/cm²with psi scales.

Pressure range

Range (psi with kg/cm²)							
psi	kg/cm²	psi	kg/cm²	psi	kg/cm²		
0/30	0/2	0/150	0/10	0/400	0/28		
0/60	0/4	0/220	0/16	0/500	0/35		
0/100	0/7	0/300	0/20	0/600	0/40		

Compound range

Range (mmHg with kg/cm² & inHg with psi)							
mmHg with kg/cm²	inHg with psi	mmHg with kg/cm²	inHg with psi				
-760/2	-30/ 30	-760/10	-30/ 150				
-760/4	-30/60	-760/14	-30/200				
-760/7	-30/100	-760/20	-30/300				



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How T	o Order						Exampl
Basic N	Model						DSSMS
Code							DOGIVIC
Nominal Size				20	25	40	XX
Type of	f Mounting			50 mm	63 mm	100 mm	
2	Direct bottom entry	4	Direct center b	ack entry			X
Connec	ction Type & Size						
SDF2	0 DN 20 SMS Thread With Union Nut	SDM20	DN 20 SM	S Male Thread			XXXXX
SDF2	5 DN 25 SMS Thread With Union Nut	SDM25	DN 25 SM	S Male Thread	l		
SDF3	2 DN 32 SMS Thread With Union Nut	SDM32	DN 32 SM	S Male Thread	l		
SDF4	0 DN 40 SMS Thread With Union Nut	SDM40	DN 40 SM	S Male Thread	l		
SDF5	0 DN 50 SMS Thread With Union Nut	SDM50	DN 50 SM	S Male Thread	I		
SDF8	0 DN 80 SMS Thread With Union Nut	SDM80	DN 80 SM	S Male Thread	1		
Body							
S 6	AISI 316 SS (Standard)	SL	AISI 316L SS				XX
Diaphra	agm						
SL	AISI 316L (Standard)						XX
Filling	fluids						
	Glycerin [10 to 150 °C / 50 to 302 °F] (Standard) Liquid paraffin [10 to 200 °C / 50 to 392 °F]	FG Food grade oil [-20 to 140 °C / -4 to 284 °F]				XX	
Range							
Refer ra	ange table						0/10
Optiona	al extras						kg/cm²
CDD	Custom designed dial	STG	Shatterproof / s	safety glass			
OXC	Oxygen service (for dry version)		Toughened gla	ss			
Cb6	AISI 316 SS case & bezel		SS tag plate				XX
			Fillable liquid g				
LGF MTC	Dampening liquid glycerine filled		Helium leak tes		1		
CRB	Material test certificates* Case with rolling type bezel#	EPC	Electro polishe	u case & deze	ļ		
CRB	Case with rolling type bezel#						

[#] For mounting type 4 only

For other optional items, please contact factory for delivery and minimum quantity of order.

Note: Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

^{*} Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory.