



# 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**

## Standard Version: 50 mm, 63 mm & 100mm

Accuracy : ±1.0% of F.S.

Ambient temperature : 10 to 60°C

Process temperature : 10 to 150°C

Operating procesure range : 75°/ of Seele )

Operating pressure range : 75% of Scale Value
Over pressure limit : 130% 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.

Protection : IP 68 as per IS/IEC 60529:2001

Dial : Aluminum, black graduation on white background

Pointer : Aluminum, black coloured, fixed

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

### Dry but fillable version (option DFG)

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 LGF)

Accuracy : ±1.6% of F. S.

Process Temperature : Maximum 65°C

Ambient Temperature : Maximum 65°C

Window : Toughened 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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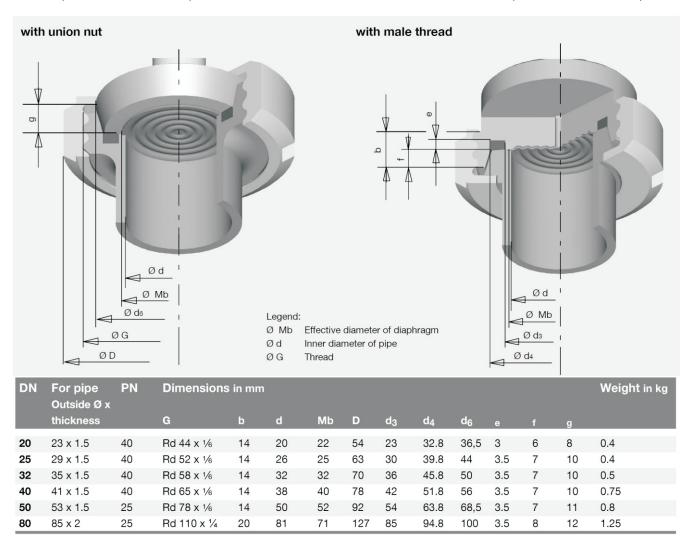
# DS SMS

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

#### **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 wit	th 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/cm <sup>2</sup> & 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 To							Exam
Basic Mo	odel						DSSN
Code	· ·			22	0.5	40	
Nominal				20	25	40	XX
	Mounting			50 mm	63 mm	100 mm	
<b>2</b> D	Direct bottom entry	4	Direct center b	ack entry			X
Connect	tion Type & Size						
SDF20	DN 20 SMS Thread With Union Nut	SDM20	DN 20 SM	S Male Thread	I		XXXX
SDF25	DN 25 SMS Thread With Union Nut	SDM25	DN 25 SM	S Male Thread	I		
SDF32	DN 32 SMS Thread With Union Nut	SDM32	2 DN 32 SM	S Male Thread	I		
SDF40	DN 40 SMS Thread With Union Nut	SDM40	DN 40 SM	S Male Thread	l		
SDF50	DN 50 SMS Thread With Union Nut	SDM50	DN 50 SM	S Male Thread	I		
SDF80	DN 80 SMS Thread With Union Nut	SDM80	DN 80 SM	S Male Thread	I		
							STI
			ייי אצון מפכמוי	STD" in Mo	del Code		311
if any (	dard Options use from below Coding Other option select from below then p se related code form below						
if any (	Other option select from below then page related code form below						
if any ( and us	Other option select from below then page related code form below						xx
if any ( and us SMS Book S6 A	Other option select from below then pose related code form below  dy  JSI 316 SS (Standard)	olease C	OO NOT USE				××
if any ( and us SMS Boo S6 A Diaphrag	Other option select from below then pose related code form below  dy  JSI 316 SS (Standard)	olease C	OO NOT USE				xx xx
if any ( and us SMS Boo S6 A Diaphrag	Other option select from below then page related code form below  Idy  ISI 316 SS (Standard)  Igm  ISI 316L (Standard)	olease C	OO NOT USE				
if any ( and us SMS Boo S6 A Diaphrag SL A Filling fl	Other option select from below then page related code form below  Idy  ISI 316 SS (Standard)  Igm  ISI 316L (Standard)	olease C	OO NOT USE	"STD" in C	ode		
if any ( and us SMS Boo S6 A Diaphrag SL A Filling fl GF G	Other option select from below then page related code form below  ody  USI 316 SS (Standard)  gm  USI 316L (Standard)	please C	AISI 316L SS	"STD" in C	ode		XX
if any ( and us SMS Boo S6 A Diaphrag SL A Filling fl GF G LP Li	Other option select from below then page related code form below  Idy  ISI 316 SS (Standard)  Igm  ISI 316L (Standard)  Iuids  Blycerin [10 to 150 °C / 50 to 302 °F] (Standard)	please C	AISI 316L SS	"STD" in C	ode		XX
if any ( and us SMS Boo S6 A Diaphrag SL A Filling fl GF G LP Li Range	Other option select from below then page related code form below  Idy  ISI 316 SS (Standard)  Igm  ISI 316L (Standard)  Iuids  Ilycerin [10 to 150 °C / 50 to 302 °F] (Standard)  iquid paraffin [10 to 200 °C / 50 to 392 °F]	please C	AISI 316L SS	"STD" in C	ode		XX XX XX 0/10
if any ( and us SMS Boo S6 A Diaphrag SL A Filling fl GF G LP Li Range	Other option select from below then page related code form below  Idy  ISI 316 SS (Standard)  Igm  ISI 316L (Standard)  Iluids  Iluids	please C	AISI 316L SS	"STD" in C	ode		xx
if any ( and us SMS Boo S6 A Diaphrag SL A Filling fl GF G LP Li Range Refer ran Optional	Other option select from below then page related code form below  Idy  ISI 316 SS (Standard)  Igm  ISI 316L (Standard)  Iluids  Iluids	SL FG	AISI 316L SS	"STD" in C	ode		XX XX XX 0/10
if any ( and us SMS Boo S6 A Diaphrag SL A Filling fl GF G LP Li Range Refer ran Optional	Other option select from below then page related code form below  Idy  ISI 316 SS (Standard)  Igm  ISI 316L (Standard)  Iuids  Ilycerin [10 to 150 °C / 50 to 302 °F] (Standard)  iquid paraffin [10 to 200 °C / 50 to 392 °F]  Inge table  I extras	SL FG STG	AISI 316L SS Food grade oil	"STD" in C	ode		XX XX XX 0/10
if any ( and us SMS Boo S6 A Diaphrag SL A Filling fl GF G LP Li Range Refer ran Optional CDD OXC	Other option select from below then page related code form below  Idy  ISI 316 SS (Standard)  Igm  ISI 316L (Standard)  Iuids  Ilycerin [10 to 150 °C / 50 to 302 °F] (Standard)  iquid paraffin [10 to 200 °C / 50 to 392 °F]  Inge table  I extras  Custom designed dial	SL FG STG TOG	AISI 316L SS Food grade oil Shatterproof / s	"STD" in C	ode		XX XX XX 0/10
if any ( and us SMS Boo S6 A Diaphrag SL A Filling fl GF G LP Li Range Refer ran Optional CDD OXC CB6	Other option select from below then page related code form below  Idy  ISI 316 SS (Standard)  Image table  I extras  Custom designed dial Oxygen service (for dry version)	SL  FG  STG  TOG  STP	AISI 316L SS  Food grade oil  Shatterproof / s Toughened gla	"STD" in C	ode		XX XX 0/10 kg/cn
if any ( and us SMS Boo S6 A Diaphrag SL A Filling fl GF G LP Li Range Refer ran Optional CDD OXC CB6 LGF MTC	Other option select from below then page related code form below  Idy  ISI 316 SS (Standard)  Image table  I extras  Custom designed dial  Oxygen service (for dry version)  AISI 316 SS case & bezel	SL STG TOG STP FGF HLT	AISI 316L SS  Food grade oil  Shatterproof / s Toughened gla SS tag plate	"STD" in C	/ -4 to 284 °F]		XX XX 0/10 kg/cn

# Ordering Example: DSSMS - XX - X - XXXXXX - STD - 0/10kg/cm<sup>2</sup> + Options if any required

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.