



IPS-DG-06

FLUSH DIAPHRAGM SEAL WITH NUT (SANITARY TYPE)

SPECIAL FEATURES

- ALL 316 STAINLESS STEEL
- LASER WELDED FLUSH DIAPHRAGM
- QUICK CONNECT / DISCONNECT FOR EASY CLEANING
- MATCHING DIN, SMS, RJT ETC. STANDARDS

APPLICATIONS

DIAPHRAGM SEALS ARE PROVIDED IN THE INSTRUMENTS LIKE PRESSURE GAUGES, SWITCHES, TRANSMITTERS IN ORDER TO ISOLATE THE SENSING ELEMENT FROM THE MAIN SERVICE DUE TO ITS CORROSIVE, VISCOUS AND SEDIMENTED NATURE AND TO AVOID CLOGGING AND SOLIDIFICATION. THESE SEALS ARE SPECIALLY DESIGNED FOR APPLICATIONS WHERE HIGH PURITY IN THE PROCESS IS ESSENTIAL.- TYPICALLY IN FOOD, BEVERAGES, DAIRY AND PHARMACEUTICAL INDUSTRIES.

SPECIFICATIONS

PRESSURE GAUGE STANDARD VERSION

Accuracy	: ±2.5% of F.S.
Ambient temperature	: - 25°C to + 65°C
Process temperature	: Max 300°C
Operating Pressure Range:	75% of Scale Value
Over pressure limit	: ≤ 100 bar : 125% of Max. Scale Value
	: > 100 to ≤ 600 bar : 115% of Max. Scale Value
	: > 600 to ≤ 1600 bar : 110% of Max. Scale Value
Case & Bezel	: AISI 304 SS (Bayonet Type)
Bourdon	: AISI 316L SS
Socket	: AISI 316L SS (Directly Welded to Case)
Movement	: AISI 304 SS
Joints	: Tig Argon Arc Welding
Protection	: IP 65
Dial Pointer	: Aluminium, black coloured Micrometer zero adjustable
Window	: Sheet Glass
Blow off Disc	: Neoprene
Gasket & Filling Plug	: Neoprene



DRY BUT FILLABLE VERSION (OPTION FG)

Fillable Dampening Liquid	: Glycerine 99.7% (Option - FG)
Ambient Temperature	: Maximum 65°C
Process Temperature	: Maximum 65°C
Window	: Plexi Glass
Other Features	: Refer Specification of Standard Version

GLYCERINE FILLED VERSION (OPTION PY)

Accuracy	: ± 2.5% of FS
Ambient Temperature	: Maximum 65°C
Process Temperature	: Maximum 65°C
Window	: Plexi Glass
Dampening Liquid	: Glycerin 99.7% (Others available as option)
Other Features	: Refer Specification of Standard Version



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DIAPHRAGM SEAL STANDARD VERSION

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Range	:	Refer range table with Nominal Sizes
Process Temperature	:	10°C to 150°C or as per fill fluid
Instrument Connection	:	½" BSP (F)
Process Connection	:	As per DIN 11851, SMS, RJT, IDF
Mounting	:	Direct (Without capillary)

Diaphragm	:	AISI 316L SS
Unit Nut	:	AISI 316 SS
Body	:	AISI 316 SS
Fill Fluid	:	Glycerin

DIMENSIONS - STANDARD VERSION

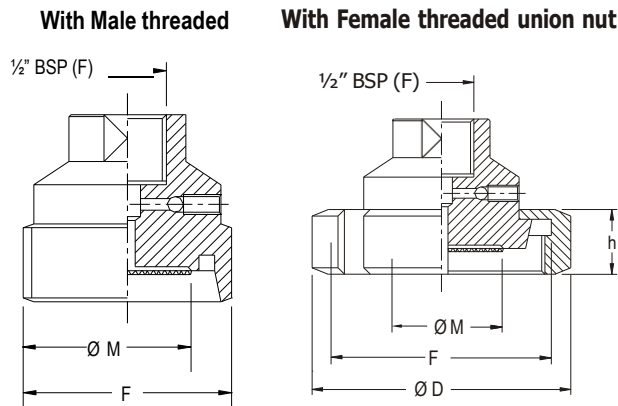
DIN 11851		
DN	M	F(DIN 405)
25*	20	Rd 52 x 1/6
32	30	Rd 58 x 1/6
40	30	Rd 65 x 1/6
50	40	Rd 78 x 1/6

* Connection 1/4" BSP (F)

SMS		
DN	M	F(DIN 405)
1 ½"	30	Rd 60 x 1/6
2"	40	Rd 70 x 1/6

RJT/APV		
DN	M	F (Whitworth)
1 ½"	30	2" 5/16 x 8
2"	40	2" 7/8 x 6

IDF/ISS		
DN	M	F(ACME)
1 ½"	29	2" 1/32 x 8
2"	36	2" 9/16 x 8



DIN 11851				
DN	h	D	M	F(DIN 405)
25*	21	63	30	Rd 52 x 1/6
32	21	70	30	Rd 58 x 1/6
40	21	78	40	Rd 65 x 1/6
50	22	92	50	Rd 78 x 1/6

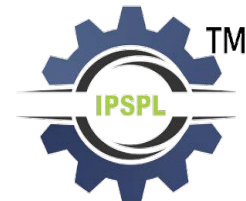
* Connection 1/4" BSP (F)

SMS				
DN	h	D	M	F(DIN 405)
1 ½"	25	74	30	Rd 60 x 1/6
2"	26	84	40	Rd 70 x 1/6

RJT/APV				
DN	h	D	M	F (Whitworth)
1 ½"	22	Hex. 65	30	2" 5/16 x 8
2"	22	Hex. 79	40	2" 7/8 x 6

IDF/ISS				
DN	h	D	M	F(ACME)
1 ½"	30	64	30	2" 1/32 x 8
2"	30	77	40	2" 9/16 x 8

Notes : • Drawings are not to scale. • All Dimensions are in mm.



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RANGE TABLE WITH NOMINAL SIZES

Nominal Size of Gauge	50 & 63 mm	50 & 63 mm	50, 63, 100 & 150 mm	50, 63, 100 & 150 mm
Connection Standard	DIN/ IDF/ ISS	DIN/ IDF/ ISS/ SMS/ RJT	DIN/ IDF/ ISS/ SMS/ RJT	DIN
Connection Size	25 mm (1")	32 mm (1.5")	40 mm (2")	50 mm
Ranges (bar)				
1.6	✓	✓	✓	✓
2	✓	✓	✓	✓
4	✓	✓	✓	✓
7	✓	✓	✓	✓
10	✓	✓	✓	✓
14	✓	✓	✓	✓
16	✓	✓	✓	✓
21	✓	✓	✓	✓
25	x	x	✓	✓
28	x	x	✓	✓
40	x	x	✓	✓
-1 to 4	x	✓	✓	✓
-1 to 7	x	✓	✓	✓
-1 to 10	x	✓	✓	✓
-1 to 14	x	✓	✓	✓
-1 to 21	x	✓	✓	✓

HOW TO ORDER

BASIC MODEL

PRESSURE GAGE CODE

PROCESS CONNECTION TYPE

M WITH MALE THREADED CONNECTION **F** WITH FEMALE THREADED UNION NUT

PROCESS CONNECTION STANDARD & SIZE

KH DIN (25, 32, 40 OR 50 mm) **KJ** RJT/APV (1½" OR 2")

KI SMS (1½" OR 2") **KK** IDF / ISS (1½" OR 2")

(Example - Write KH DIN 25)

INSTRUMENT CONNECTION

VN 1/4" BSP (F) (Standard for DIN 25 & NS 50 & 63 mm) **VO** 1/4" NPT (F)

VL ½" BSP (F)(Standard) **VM** ½" NPT (F)

DIAPHRAGM

UJ AISI 316L SS (Standard)

FILLING FLUIDS

UF GLYCERIN [10 to 150 °C / 50 to 302 °F] (Standard) **UG** LIQUID PARAFFIN [10 to 200 °C / 50 to 392 °F]

UV FOOD GRADE OIL [-20 to 140 °C / -4 to 284 °F]

BODY

CL AISI 316 SS (Standard) **CM** AISI 316L SS

OPTIONS

GASKET (SEALING RING)

FA DIN (25, 32, 40 OR 50 mm) **FC** RJT/APV (1½" OR 2")

FB SMS (1½" OR 2") **FD** IDF / ISS (1½" OR 2")

GASKET (SEALING RING) MATERIAL

VU SILICON (Standard) **VI** PTFE

BOTTOM MATING PART (MALE OR FEMALE)

KLM DIN (25, 32, 40 OR 50mm) **KNM** RJT / APV (1½" OR 2") **KLF** DIN (25, 32, 40 OR 50mm) **KNF** RJT / APV (1½" OR 2")

KMM SMS (1½" OR 2") **KOM** IDF / ISS (1½" OR 2") **KMF** SMS (1½" OR 2") **KOF** IDF / ISS (1½" OR 2")

(Example - To select male part, write KLM DIN 25 & to select female part, write KMF SMS 1½")

REMOTE MOUNTING (With capillary of Max. Up to 2 Mtrs.)

SPECIFY IN METERS (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS)

CAPILLARY

PE AISI 304 SS **PG** AISI 316 SS

CAPILLARY COVERED WITH ARMOUR (Applicable with PE or PG if selected)

PF AISI 304 SS **PH** AISI 316 SS **PI** PVC (Ambient Temp. Max. 60°C)

OTHER OPTIONS

TB HELIUM LEAK TEST **TC** DRY SEAL ONLY WITHOUT INSTRUMENT **GH** MATERIAL TEST CERTIFICATES*

* MATERIAL TEST CERTIFICATES WILL BE PROVIDED FOR WETTED PARTS ONLY WITH CHEMICAL COMPOSITION TESTING. FOR OTHERS, PLEASE CONSULT FACTORY.

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.

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X

XX XXX (1 ½)

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XX

XX

XX

XXX

1Mtr.

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