DIAPHRAGM SEALS TYPE PRESSURE GAUGE
SCREWED PROCESS CONN. MODEL : P710 SERIES
" I" TYPE PROCESS CONN. MODEL : P720 SERIES
FLAT TYPE FLANGE PROCESS CONN. MODEL : P730 SERIES

WISE®

SERVICE INTENDED
Where the process medium would corrode the instrument connection and pressure sensing element.
Where the process medium contains suspended solids or is sufficiently viscous to clog the instrument connection and pressure sensing element.
Where the process medium might freeze or solidify in the instrument connection and pressure sensing element due to ambient or process temperature change.
Where the process medium requires flushing from the system to prevent contamination.

DESIGN
Internal Diaphragm

ACCURACY
Refer to Gauge Model

SUITABLE PRESSURE RANGE
-76cmHg ~ 0 to -76cmHg ~ 20kgf/cm²
0 ~ 1 to 0 ~ 250kgf/cm²

FILLING LIQUID
Silicon Oil KF96(-20~200˚C)

WORKING TEMPERATURE
Temperature rating of the diaphragm seals depend on the fill fluid, the diaphragm material and the lower housing material. Standard fill fluids are available for temperature ranges from -20˚C to 200˚C

DIAPHRAGM MATERIAL
Diaphragms are available in many corrosion resistant materials. Compatibility of selected material and process fluid is the responsibility of user.



P710



P720



P730

Standard Features

UPPER FLANGE (GAUGE SIDE)
304SS, 316SS

DIAPHRAGM
316LSS, Monel, Hastelloy-C
Titanium, Tantalum

UNDER FLANGE(PROCESS SIDE)
304SS, 316SS, 316LSS
Monel, Hastelloy-C, Titanium

PROCESS CONNECTION
Model P710 : PT and NPT, Others Feasible
Model P720, P730 : Flanges to ANSI, JIS or other Standard

OPTIONAL EXTRAS
-Diaphragm and lower flange are available in PTFE Coating or PTFE Lining (See Note)
-Lower body (Process side) are available in purging plug or Heater jacket.

NOTE
-PTFE Lining is available up to 70kgf/cm² for P720 and P730 Series.

ORDERING INFORMATION

BASE MODEL

P711 : SCREWED PROCESS CONNECTION DIAPHRAGM SEAL
P712 : SCREWED PROCESS CONNECTION REMOTE DIAPHRAGM SEAL
P721 : "I" TYPE FLANGE PROCESS CONNECTION DIAPHRAGM SEAL
P722 : "I" TYPE FLANGE PROCESS CONNECTION REMOTE DIAPHRAGM SEAL
P731 : FLAT TYPE FLANGE PROCESS CONNECTION DIAPHRAGM SEAL
P732 : FLAT TYPE FLANGE PROCESS CONNECTION REMOTE DIAPHRAGM SEAL

GAUGE MODEL AND MOUNTING TYPE

XX : Refer to Gauge Model and Mounting Type Table

UPPER FLANGE & DIAPHRAGM MATERIAL

B : 304SS & 316LSS
C : 304SS & Monel
D : 304SS & Hastelloy -C
E : 304SS & Titanium
F : 304SS & Tantalum
G : 304SS & 316LSS + Coating
H : 304SS & 316LSS + Lining
J : 316SS & 316LSS
K : 316SS & Monel
L : 316SS & Hastelloy -C
M : 316SS & Titanium
N : 316SS & Tantalum
P : 316SS & 316LSS + Coating
Q : 316SS & 316LSS +Lining

PROCESS CONNECTION TYPE

XX : Refer to Process Connection Type Table

UNIT

B : kgf/cm^2 (Pressure) or cmHg+kgf/cm^2 (Compound)
C : cmHg, Only available with vacuum gauges
Z : Other

RANGE TABLE

XXX : Refer to Pressure Range Table

UNDER FLANGE MATERIAL

B : 304SS
D : 316SS
E : 316LSS
F : Monel
G : Hastelloy -C
H : Titanium
K : Inconel 600
L : 304SS + Coating
M : 304SS + Lining
N : 316SS + Coating
P : 316SS + Lining
Z : Other

OPTIONS

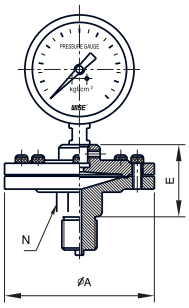
0 : None
1 : Accessories
7 : Capillary Length 2metre,
Only available with Remote Diaph.Seal
8 : Capillary Length 3metre,
Only available with Remote Diaph.Seal
9 : Other

P711	2A	B	ED	B	052	D	0

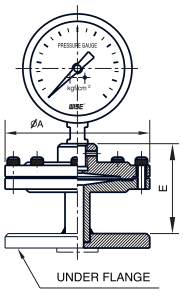
SAMPLE MODEL NUMMBER

P700 : TYPE OF MOUNTING

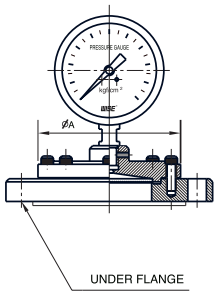
CODE P711



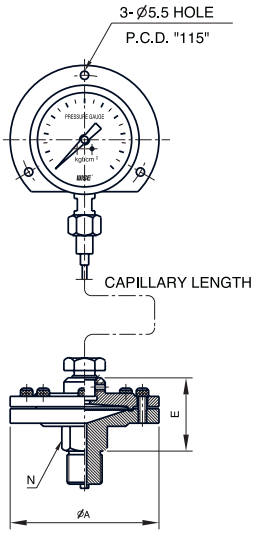
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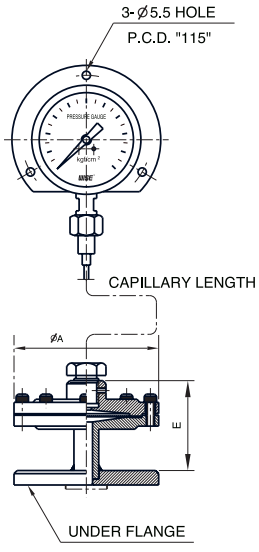
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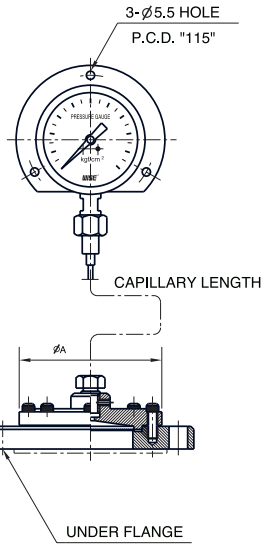
CODE P712



CODE P722



CODE P732



Dimensions (mm)

DIAL SIZE	AVAILABLE CODE	A	E	N	CAPILLARY LENGTH
100	P711,P712	90	59	24	2000,3000 , (SPECIAL)
	P721,P722	90	85		2000,3000 , (SPECIAL)
	P731,P732	90			2000,3000 , (SPECIAL)

Process Connection Type Table-8th and 9th Characters

8th Character		9th Character			
Code	Connection Size	For Model P711, P712		For Model P721, P722, P731, P732	
		Code	Flange Rating	Code	Connection Type
C	1/4"(8A)	B	PF	B	ANSI 150# RF
D	3/8"(10A)	C	PT	C	ANSI 150# FF
E	1/2"(15A)	D	NPT	D	ANSI 150# RFSF
F	3/4"(20A)	E	UNF	E	ANSI 300# RF
G	1"(25A)	F	BSPT	F	ANSI 300# FF
H	$1^{1}/_{4}$"(32A)	G	BSPF	G	ANSI 300# RFSF
J	$1^{1}/_{2}$"(40A)	H	NPS	H	ANSI 600# RF
K	2"(50A)	J	M	J	ANSI 600# FF
L	$2^{1}/_{2}$"(65A)			K	ANSI 600# RFSF
M	3"(80A)			L	JIS 10K RF
N	4"(100A)			M	JIS 10K FF
				N	JIS 10K RFSF
				P	JIS 20K RF
				Q	JIS 20K FF
				R	JIS 20K RFSF
				S	JIS 30K RF
				T	JIS 30K FF
				U	JIS 30K RFSF
Z	Other	Z	Other	Z	Other

Available Gauges Model and Mounting Type Table - 5th and 6th Characters

CODE	Model	Remark	COD	Model	Remark
1A	P220 60A		BM	P330 75M	-Only available Remote Diaphragm Seal
2A	P220 100A		CA	P330 150A	Type
2B	P220 100B	-Only available Remote Diaphragm Seal	CB	P330 150B	
2G	P220 100G	Type	CM	P330 150M	-Only available Remote Diaphragm Seal
2L	P220 100L	-Only available Remote Diaphragm Seal	DB	P339 125B	Type
2M	P220 100M	Type	EB	P359 125B	-Only available Remote Diaphragm Seal
3A	P220 150A	-Only available Remote Diaphragm Seal	FE	P521 100A	Type
3B	P220 150B	Type	HE	P522 100A	
3M	P220 150M	-Only available Remote Diaphragm Seal	KE	P523 100A	
4A	P290 60A	Type	ME	P524 100A	
5A	P290 100A		NE	P525 100A	
5B	P290 100B	-Only available Remote Diaphragm Seal	FF	P521 100B	
5G	P290 100G	Type	HF	P522 100B	
5L	P290 100L	-Only available Remote Diaphragm Seal	KF	P523 100B	
5M	P290 100M	Type	MF	P524 100B	
6A	P290 150A		NF	P525 100B	
6B	P290 150B		FG	P521 100G	
6M	P290 150M	-Only available Remote Diaphragm Seal	HG	P522 100G	
7A	P252 63A	Type	KG	P523 100G	
7B	P252 63B	-Only available Remote Diaphragm Seal	MG	P524 100G	-Only available Remote Diaphragm Seal
7F	P252 63F	Type	NG	P525 100G	Type
7G	P252 63G	-Only available Remote Diaphragm Seal	FA	P531 100A	-Only available Remote Diaphragm Seal
7J	P252 63J	Type	FB	P531 100B	Type
7N	P252 63N	-Only available Remote Diaphragm Seal	FL	P531 100L	-Only available Remote Diaphragm Seal
7U	P252 80A	Type	GA	P531 150A	Type
7V	P252 80G		GL	P531 150M	-Only available Remote Diaphragm Seal
7W	P252 80N	-Only available Remote Diaphragm Seal	HA	P532 100A	Type
8A	P252 100A	Type	HB	P532 100B	-Only available Remote Diaphragm Seal
8B	P252 100B	-Only available Remote Diaphragm Seal	HL	P532 100L	Type
8G	P252 100G	Type	JA	P532 150A	
8N	P252 100N		JL	P532 150M	-Only available Remote Diaphragm Seal
7P	P258 63A	-Only available Remote Diaphragm Seal	KA	P533 100A	Type
7Q	P258 63B	Type	KB	P533 100B	-Only available Remote Diaphragm Seal
7R	P258 63J	-Only available Remote Diaphragm Seal	KL	P533 100L	Type
7S	P258 63N	Type	LA	P533 150A	
7T	P258 63G	-Only available Remote Diaphragm Seal	LL	P533 150M	-Only available Remote Diaphragm Seal
8U	P258 80A	Type	MA	P534 100A	Type
8V	P258 80G	-Only available Remote Diaphragm Seal	MB	P534 100B	
8W	P258 80N	Type	ML	P534 100L	
8P	P258 100A	-Only available Remote Diaphragm Seal	NA	P534 150A	-Only available Remote Diaphragm Seal
8Q	P258 100B	Type	NL	P534 150M	Type
8S	P258 100N		PB	P535 150B	
8T	P258 100G	-Only available Remote Diaphragm Seal	QB	P536 150B	-Only available Remote Diaphragm Seal
9A	P253 63A	Type	RB	P620	Type
9B	P253 63B	-Only available Remote Diaphragm Seal	RC	P621	
9F	P253 63F	Type	RD	P623	
9J	P253 63J		RE	P624	-Only available Remote Diaphragm Seal
9N	P253 63N	-Only available Remote Diaphragm Seal	RF	P625	Type
AA	P253 100A	Type	RG	P626	
AB	P253 100B	-Only available Remote Diaphragm Seal	TZ	P941	-Only available Remote Diaphragm Seal
AN	P253 100N	Type	UZ	P942	Type
AP	P259 100A	-Only available Remote Diaphragm Seal	VZ	P951	
AQ	P259 100B	Type	WZ	P952	
AS	P259 100N		ZZ	Other	-Only available Remote Diaphragm Seal
BA	P330 75A	-Only available Remote Diaphragm Seal	XA	P252 160A	Type
BB	P330 75B	Type	XB	P252 160B	

-Only available Remote Diaphragm Seal

-Only available Remote Diaphragm Seal

PRESSURE RANGE TABLE -11th thru 13th Characters

	SCALE (kgf/cm²)	60mm	100mm	150mm	ORDER CODE
VACUUM GAUGE	-76cmHg~0	○	○	○	026
PRESSURE GAUGE	0~1	○	○	○	041
	0~2	○	○	○	042
	0~3	○	○	○	043
	0~4	○	○	○	044
	0~6	○	○	○	045
	0~10	○	○	○	047
	0~15	○	○	○	050
	0~20	○	○	○	051
	0~25	○	○	○	052
	0~35	○	○	○	054
	0~50	○	○	○	055
	0~70	○	○	○	057
	0~100	○	○	○	058
	0~150	×	○	○	059
	0~250	×	○	○	062
COMPOUND GAUGE	-76cmHg~1	○	○	○	027
	-76cmHg~2	○	○	○	028
	-76cmHg~3	○	○	○	029
	-76cmHg~4	○	○	○	030
	-76cmHg~6	○	○	○	031
	-76cmHg~10	○	○	○	032
	-76cmHg~15	○	○	○	033
	-76cmHg~20	○	○	○	034

○ : AVAILABLE × : NOT AVAILABLE

NOTE : Range of P730 is not available 0~150 & 0~250 kgf/cm²

Note : If required DIN GAUGE, Please refer to the “DIN GAUGE PRESSURE RANGE TABLE”