

SUMMARY

NP-302 Series are composed of the internal and external stainless steel material.

It is suitable for pressure measurement in a place requiring the anti corrosion, wear resistance and durability.

Because it has a higher durability than the NP-302 Series can be guarantee the performance and life of the pressure gauge at the maximum.

Used in various field such as petrochemical plant.

It is a pressure gauge suitable for use in high dust, corrosion resistance, steam outdoors.



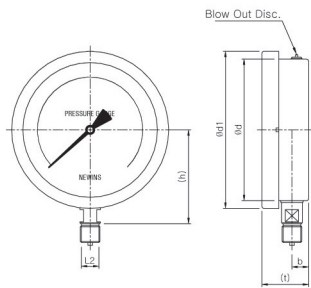
Model. NP-302-1(A)

SPECIFICATIONS

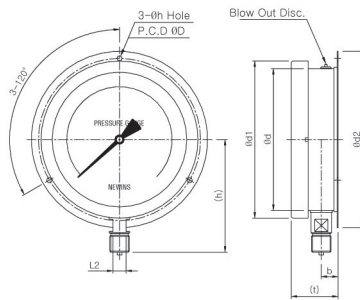
- ▶ **Diameter** : 40, 50, 60, 75, 100, 150, and 200mm
- ▶ **Accuracy**
 - 40mm : $\pm 3.0\%$ of Full Scale
 - 50,60,75mm : $\pm 1.5\%$ of Full Scale
 - 100,150,200mm : $\pm 1.0\%$ of Full Scale
- ▶ **Scale Range** :
 - 40,50mm : 0.2~25 MPa
 - 60,75mm : -0.1~2 MPa -0.1~0 MPa 0~35 MPa
 - 100,150mm : -0.1~2 MPa -0.1~0 MPa 0~200 MPa
 - 200mm : -0.1~2 MPa -0.1~0 MPa 0~100 MPa
- ▶ **Working Pressure** :
 - Static Pressure : 75% of Full Scale
 - Fluctuating Pressure : 60% of Full Scale
- ▶ **Working Temperature**
 - Ambient : $-20 \sim 65^{\circ}\text{C}$
 - Fluid : $-20 \sim 80^{\circ}\text{C}$
- ▶ **Pressure connection**
 - STS 316
- ▶ **Element**
 - STS 304, STS 316
 - C Type Bourdon Tube or Helical Tube
- ▶ **Case**
 - STS 304
- ▶ **Cover**
 - STS 304
 - Slip-on-Fit

- ▶ **Window**
 - Safety Glass
- ▶ **Movement**
 - STS 304
- ▶ **Dial**
 - Aluminum
 - White Coating
- ▶ **Pointer**
 - Aluminum
 - Black Coating
- ▶ **Type** :
 - NP-302-1 (A:Rimless Type)
 - NP-302-2 (B:Surface Type)
 - NP-302-3 (D:Flush Mounting Type)
 - NP-302-4 (BD:Panel attachment Type)
- ▶ **Process connection** :
 - 40mm : 1/8" PT & NPT, PF
 - 50mm : 1/8", 1/4" PT & NPT, PF
 - 60mm : UNF 7/16, 1/8", 1/4" PT & NPT, PF
 - 75mm : UNF 7/16, 1/4", 3/8", PT & NPT, PF
 - 100mm : UNF 7/16, 1/4", 3/8", 1/2" PT & NPT, PF
 - 150mm : UNF 7/16, 1/4", 3/8", 1/2" PT & NPT, PF
 - 200mm : 1/4", 3/8", 1/2" PT & NPT, PF
- ▶ **Option** :
 - Blow out protection on the Top Rubber Disc
 - Bracket, Throttles, Accessories

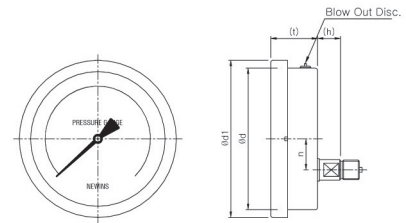
DIMENSION



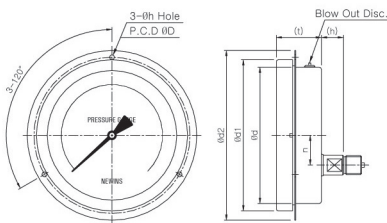
Model. NP-302-1(A)



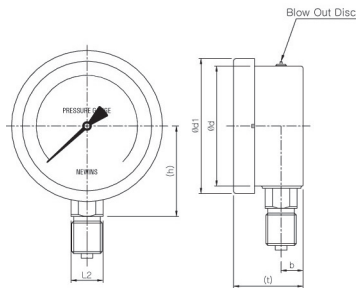
Model. NP-302-2(B)



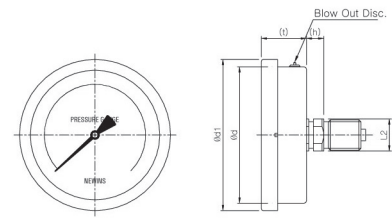
Model. NP-302-3(D)



Model. NP-302-4(BD)



Model. NP-302-1(AS)



Model. NP-302-3(DS)

STANDARD SPECIFICATIONS

Dimensions(mm)										
Dial	Model No.	ϕd	$\phi d1$	$\phi d2$	b	n	t	L2	h	ϕh
40	NP-302-1(AS)	41	46.2	-	7.5	-	(26.5)	12	(26.5)	-
	NP-302-3(DS)			-	-	-	-		(7.5)	
50	NP-302-1(AS)	51.7	58.2	-	9.5	-	(30)	14	(35.5)	-
	NP-302-3(DS)			-	-	-	-		(7.5)	
60	NP-302-1(A)/2(B)	64	72	84	12	-	(39)	12	(48)	4.5
	NP-302-3(D)/4(BD)			90	-	17	-		(20)	
75	NP-302-1(A)/2(B)	77	87	100	14	-	(40)	14	(54)	4.5
	NP-302-3(D)/4(BD)			107	-	22	-		(17)	
100	NP-302-1(A)/2(B)	100	114	128	17	-	(46)	17	(76)	5.5
	NP-302-3(D)/4(BD)			135	-	33	-		(26)	
150	NP-302-1(A)/2(B)	152	168	188	17	-	(50)	17	(100)	5.5
	NP-302-3(D)/4(BD)			-	-	33	-		(26)	
200	NP-302-2(B)	208	220	250	20	-	(58)	17	(130)	5.5
	NP-302-4(BD)				-	33	-		(126)	

SUMMARY

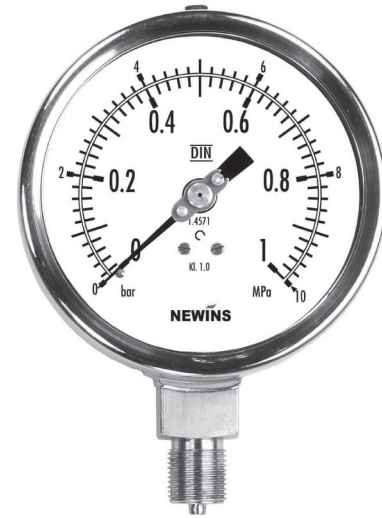
NP-302D Series are pretty, high precision pressure gauge.

This is because the cover and the connections were made with stainless steel.

It is suitable for pressure measurement in a place requiring the anti corrosion, wear resistance and durability.

Used in various field such as food industry, power station plant.

It is a pressure gauge suitable for use in corrosive environments.

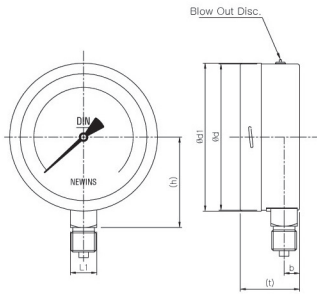


Model. NP-302D-1(A)

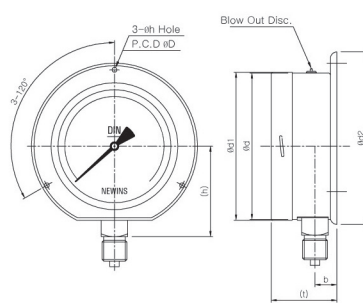
SPECIFICATIONS

- ▶ **Diameter** : 63, 80, 100, 160mm
- ▶ **Accuracy**
 - 63,80mm : $\pm 1.6\%$ of Full Scale
 - 100,160mm : $\pm 1.0\%$ of Full Scale
- ▶ **Scale Range** :
 - 63,80mm : -0.1~0 MPa, 0~25 MPa
 - 100,160mm : -0.1~0 MPa, 0~200 MPa
- ▶ **Working Pressure** :
 - Static Pressure : 75% of Full Scale
 - Fluctuating Pressure : 60% of Full Scale
- ▶ **Working Temperature**
 - Ambient : -20~65°C
 - Fluid : -20~80°C
- ▶ **Pressure connection**
 - STS 316
- ▶ **Element**
 - STS 304, STS 316
 - C Type Bourdon Tube or Helical Tube
- ▶ **Case**
 - STS 304
- ▶ **Cover**
 - STS 304
 - Bayonet Type

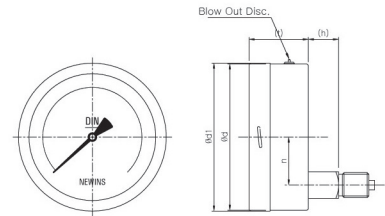
- ▶ **Window**
 - Safety Glass
- ▶ **Movement**
 - STS 304
- ▶ **Dial**
 - Aluminum
 - White Coating
- ▶ **Pointer**
 - Aluminum
 - Black Coating
- ▶ **Type** :
 - NP-302D-1 (Rimless Type)
 - NP-302D-2 (Surface Type)
 - NP-302D-3 (Flush Mounting Type)
 - NP-302D-4 (Panel attachment Type)
- ▶ **Process connection** :
 - 63mm : UNF 7/16, 1/8", 1/4" PT & NPT, PF
 - 80mm : UNF 7/16, 1/4", 3/8", PT & NPT, PF
 - 100mm : UNF 7/16, 1/4", 3/8", 1/2" PT & NPT, PF
 - 160mm : UNF 7/16, 1/4", 3/8", 1/2" PT & NPT, PF
- ▶ **Option** :
 - Blow out protection on the Top Rubber Disc
 - Bracket
 - Throttles
 - Accessories

DIMENSION


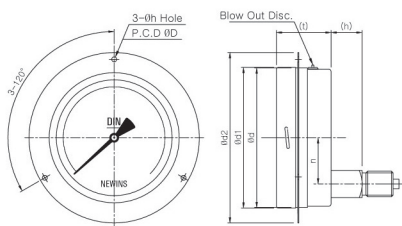
Model. NP-302D-1(A)



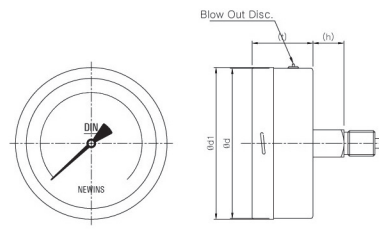
Model. NP-302D-2(B)



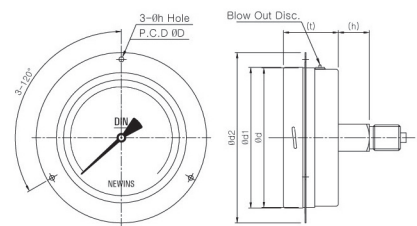
Model. NP-302D-3(D)



Model. NP-302D-4(BD)



Model. NP-302D-3(DC)



Model. NP-302D-4(BDC)

STANDARD SPECIFICATIONS

Dimensions (mm)											
Dial	Model No.	Ø d	Ø d1	Ø d2	b	n	t	L1	h	Ø h(OB)	Ø D
63	NP-302D-1(A)/2(B)	61.5	63.6	85	9	-	(33)	14	(40.5)	4.5x6.5	75
	NP-302D-3(DC)/4(BDC)			92	-	-			(12.5)		78
80	NP-302D-1(A)/2(B)	77.5	79.5	112	13	-	(40)	17	(53)	4.5x6.5	95
	NP-302D-3(D)/4(BD)			-	-	22			(16)		
100	NP-302D-1(A)/2(B)	98.7	100.5	132	15	-	(48.5)	22	(66.5)	5.5x8	118
	NP-302D-3(D)/4(BD)			-	-	32			(20.5)		
160	NP-302D-1(A)/2(B)	157.5	160	192	17	-	(51)	22	(102)	5.5x8	178
	NP-302D-3(D)/4(BD)			-	-	48			(20)		

SUMMARY

NP-307 is precipitated on the internal silicone liquid.

It is suitable as a vibration-suppression using the viscous resistance of the pressure measurements in the mechanical vibration and pulsation heavy place.

It can be guarantee the performance and life of the pressure gauge at the maximum because using the lubricity of the liquid to prevent internal wear.

Used in the severe temperature change, vibration, pulsation severe place, various plant site.



Model. NP-307-1

SPECIFICATIONS

▶ **Diameter** : 60,75,100 and 150mm

▶ **Accuracy**

60,75mm : ± 1.5 of Full Scale

100mm : ± 1.0 of Full Scale

▶ **Scale Range** :

60,75mm : 0.2 ~ 25 MPa

100,150mm : -0.1 ~ 2MPa, -0.1 ~ 0 MPa, 0~35 MPa

▶ **Working Pressure** :

Static Pressure : 75% of Full Scale

Fluctuating Pressure : 60% of Full Scale

▶ **Working Temperature**

Ambient : -20~65°C

Fluid : -20~80°C

▶ **Pressure connection** :

STS 316

▶ **Element**

STS 304, STS 316

C Type Bourdon Tube or Helical Tube

▶ **Case**

STS 304

▶ **Cover**

STS 304

Slip-on-Fit

▶ **Window**

Safety Glass

▶ **Movement**

STS 304

▶ **Dial**

Aluminum

White Coating

▶ **Pointer**

Aluminum

Black Coating

▶ **Type** :

NP-307-1 (Rimless Type)

NP-307-2 (Surface Type)

NP-307-3 (Flush Mounting Type)

NP-307-4 (Panel attachment Type)

▶ **Process connection** :

60mm : UNF 7/16, 1/8", 1/4 PT & NPT, PF

75mm : UNF 7/16, 1/4", 3/8 PT & NPT, PF

100mm : UNF 7/16, 1/4", 3/8", 1/2" PT & NPT, PF

150mm : UNF 7/16, 1/4", 3/8", 1/2" PT & NPT, PF

▶ **Filling Liquid** :

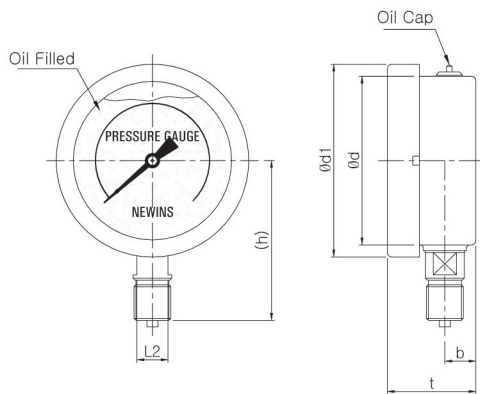
Silicon Oil

Glycerine Oil

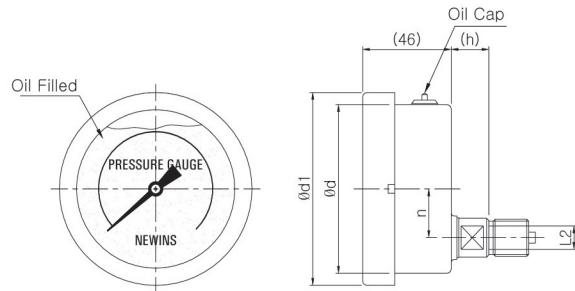
▶ **Option**

Bracket, Throttles, Accessories

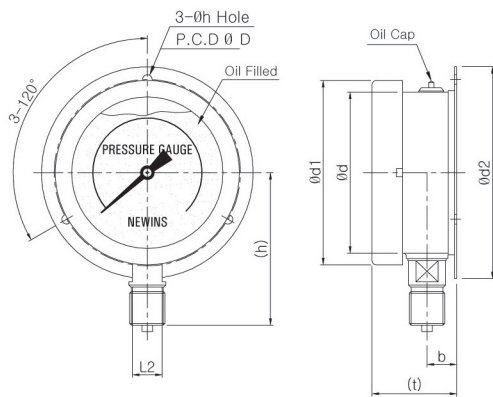
DIMENSION



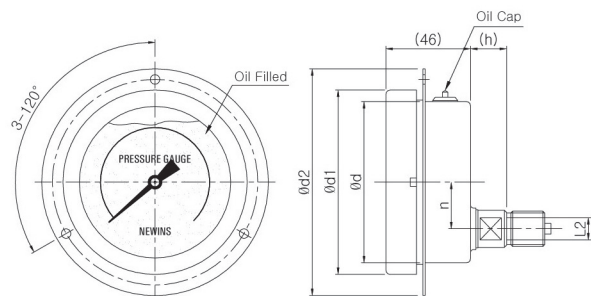
Model. NP-307-1(A)



Model. NP-307-3(D)



Model. NP-307-2(B)



Model. NP-307-4(BD)

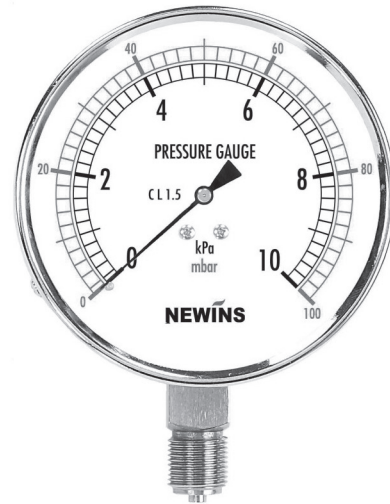
STANDARD SPECIFICATIONS

Dimensions (mm)											
Dial	Model No.	Ø d	Ø d1	Ø d2	b	n	t	L2	h	Ø h	Ø D
60	NP-307-1(A)/2(B)	64	72	84	12	-	(39)	12	(48)	4.5	72
	NP-307-3(D)/4(BD)			90	-	17	(39)		(20)		81
75	NP-307-1(A)/2(B)	77	87	100	14	-	(40)	14	(54)	4.5	88
	NP-307-3(D)/4(BD)			107	-	22	(40)		(17)		97
100	NP-307-1(A)/2(B)	100	114	128	17	-	(46)	17	(76)	5.5	115
	NP-307-3(D)/4(BD)			135	-	33	(46)		(26)		120
150	NP-307-1(A)/2(B)	152	168	188	17	-	(50)	17	(100)	5.5	174
	NP-307-3(D)/4(BD)			-	-	33	(50)		(26)		174

SUMMARY

NP-305 Series is an instrument specially designed for measuring the low pressure that can't be measured with a bourdon pressure gauge, element uses chamber.

Using the various gas pipe pressure measured or mainly used for the low pressure measurements of the various applications.



Model. NP-305-1

SPECIFICATIONS

- ▶ **Diameter** : 75,100mm
- ▶ **Accuracy**
75,100mm : $\pm 1.5\%$ of Full Scale
- ▶ **Scale Range** :
75,100mm : -5 ~ -50 kPa, ± 5 kPa ~ ± 50 kPa
5 kPa ~ 50 kPa
- ▶ **Working Pressure** :
Static Pressure : 75% of Full Scale
Fluctuating Pressure : 60% of Full Scale
- ▶ **Working Temperature**
Ambient : -20~65°C
Fluid : -20~80°C
- ▶ **Process connection** :
Brass(C3604be), STS 304
- ▶ **Element**
Phosphor Bronze
- ▶ **Case, Cover**
DS-1051,1052 Steel(SPCD)
Cr-Plating
DS-1054,1054 STS 304
- ▶ **Window**
General Glass
- ▶ **Movement**
STS 304
- ▶ **Dial**
Aluminum
White Coating
- ▶ **Pointer**
Aluminum
Black Coating
- ▶ **Type** :
NP-305-1 (Rimless Type)
NP-305-2 (Surface Type)
NP-305-3 (Flush Mounting Type)
NP-305-4 (Panel attachment Type)
- ▶ **Process connection** :
75mm : 1/4", 3/8"PT & NPT, PF
100mm : 1/4", 3/8"PT & NPT, PF
- ▶ **Option** :
Accessories

A

B

C

D

E

F

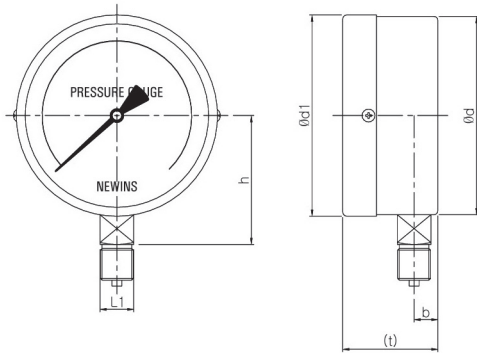
G

H

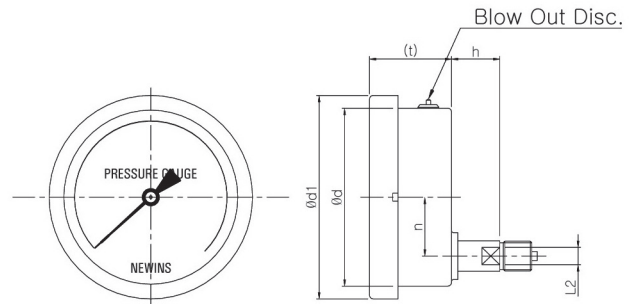
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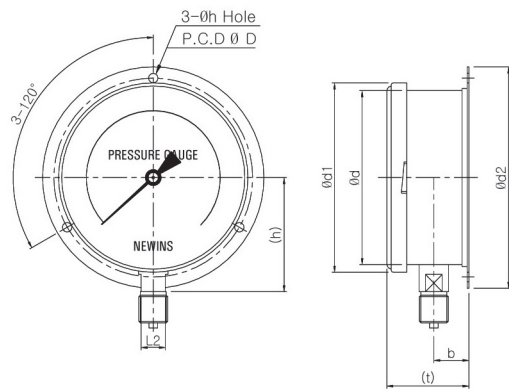
DIMENSION



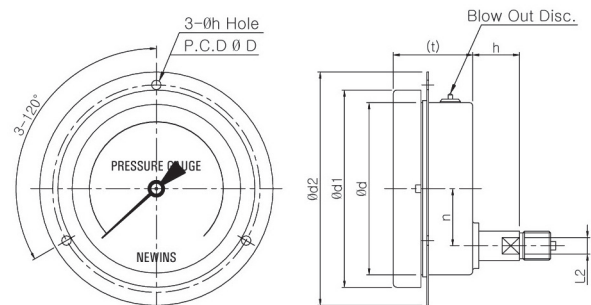
Model. NP-305-1(A)



Model. NP-305-3(D)



Model. NP-305-2(B)



Model. NP-305-4(BD)

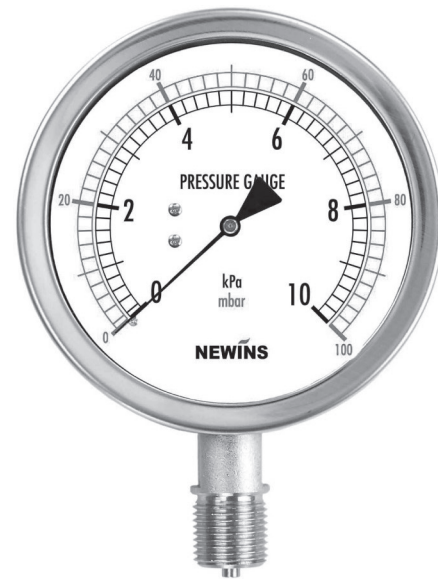
STANDARD SPECIFICATIONS

Dimensions (mm)											
Dial	Model No.	ϕd	$\phi d1$	$\phi d2$	b	n	t	L1	L2	h	ϕh
75	NP-305-1(A)/2(B)	76.5	78	100	13	-	(50)	17	-	(50)	4.5
	NP-305-3(D)/4(BD)			107	-	22	(40)	-	14	(19)	
100	NP-305-1(A)	100	101.5	-	12	-	(48)	17	-	(65)	-
	NP-305-2(B)	101	110	128	20	-	(47)	-	14	(66)	5.5
	NP-305-3(D)/4(BD)	100	114	135	-	33	(40)	-	17	(27)	

SUMMARY

NP-305S Series is an instrument specially designed for measuring the low pressure that can't be measured with a bourdon pressure gauge, element uses chamber.

Using the various gas pipe pressure measured or mainly used for the low pressure measurements of the various applications.

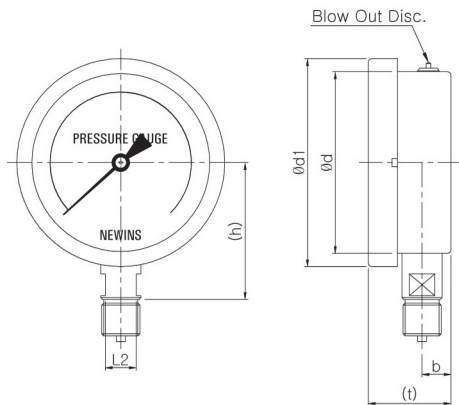


Model. NP-305S-1

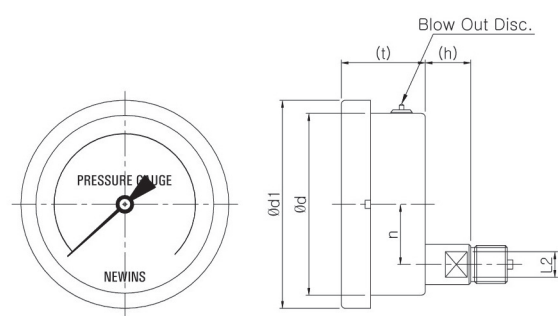
SPECIFICATIONS

- ▶ **Diameter** : 75,100,150mm
- ▶ **Accuracy**
75,100,150mm : $\pm 1.5\%$ of Full Scale
- ▶ **Scale Range** :
75,100mm : -1 ~ -100 kPa, $\pm 1 \sim \pm 50$ kPa,
- ▶ **Working Pressure** :
Static Pressure : 75% of Full Scale
Fluctuating Pressure : 60% of Full Scale
- ▶ **Working Temperature**
Ambient : $-20 \sim 65^{\circ}\text{C}$
Fluid : $-20 \sim 80^{\circ}\text{C}$
- ▶ **Process connection** :
STS 316
- ▶ **Element**
STS 304, STS 316
- ▶ **Case, Cover**
STS 304
- ▶ **Window**
General Glass
- ▶ **Movement**
Brass
- ▶ **Dial**
Aluminum
White Coating
- ▶ **Pointer**
Aluminum
Black Coating
- ▶ **Type** :
NP-305S-1 (Rimless Type)
NP-305S-2 (Surface Type)
NP-305S-3 (Flush Mounting Type)
NP-305S-4 (Panel attachment Type)
- ▶ **Process connection** :
75mm : 1/4", 3/8"PT & NPT, PF
100mm : 1/4", 3/8", 1/2"PT & NPT, PF
150mm : 1/4", 3/8", 1/2"PT & NPT, PF
- ▶ **Option** :
Accessories

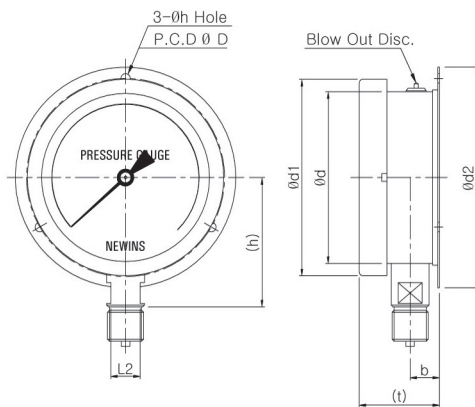
DIMENSION



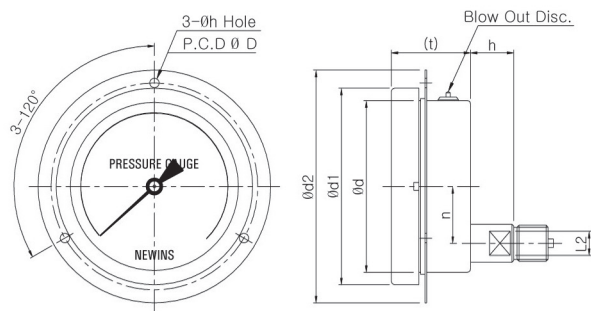
Model. NP-305S-1(A)



Model. NP-305S-3(D)



Model. NP-305S-2(B)



Model. NP-305S-4(BD)

STANDARD SPECIFICATIONS

Dimensions (mm)												
Dial	Model No.	Ød	Ød1	Ød2	b	n	t	L1	L2	h	Øh	ØD
75	NP-305S-1(A)	76.5	78	100	13	-	(50)	17	-	(50)	-	-
	NP-305S-3(D)/4(BD)	77	88	107	-	22	(40)	-	14	(20)	4.5	97
100	NP-305S-1(A)/2(B)	100	114	128	13	-	(46)	-	17	(75)	5.5	115
	NP-305S-3(D)/4(BD)			135	-	33	(46)	-		(25)		120
150	NP-305S-1(A)/2(B)	152	168	188	17	-	(50)	-	17	(100)	5.5	173
	NP-305S-3(D)/4(BD)				-	33	(50)	-		(33)		

SUMMARY

NP-303-1/4 Series is the pressure gauge is designed to ensures enough performance and the life of the instrument in fluid is mixed with coagulation powder, high corrosive.

Such as petrochemical, corrosive fluid, cement, paper factory, ect. used in the dust, fluid mixed with solid, high temperature, High viscosity fluid, industrial special fluids line.

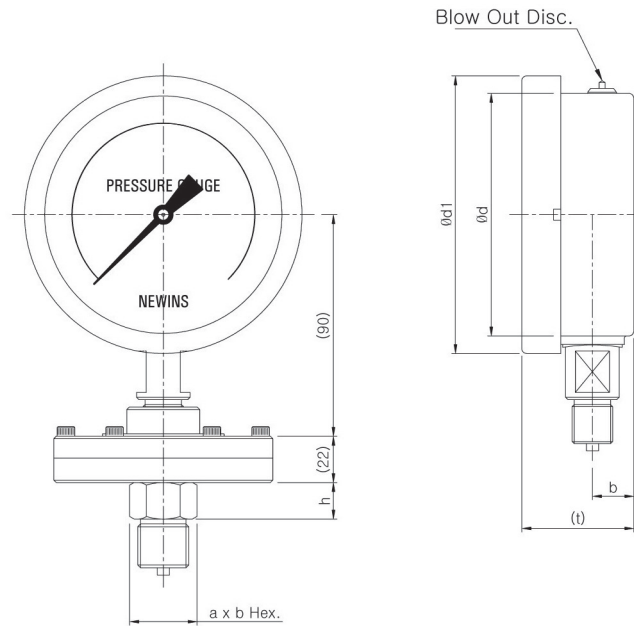


Model.NP-303-1

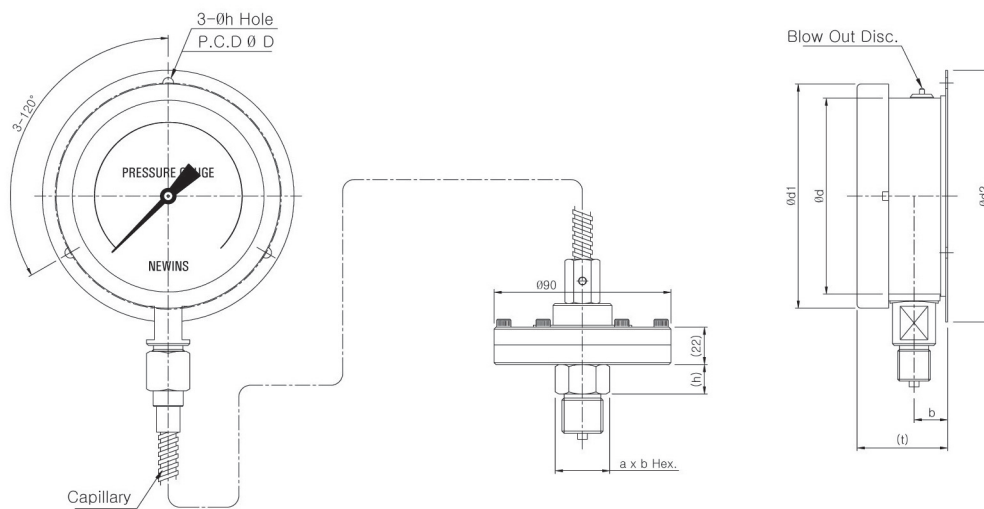
SPECIFICATIONS

- ▷ **Diameter** : 100mm
- ▷ **Accuracy**
100mm : $\pm 1.0\%$ of Full Scale
- ▷ **Scale Range** :
100mm : -0.1~0 MPa, -0.1~2 MPa, 0~35 MPa
- ▷ **Working Pressure** :
Static Pressure : 75% of Full Scale
Fluctuating Pressure : 60% of Full Scale
- ▷ **Working Temperature**
Ambient : -20~65°C
Fluid : -20~80°C
- ▷ **Pressure connection**
STS 316
- ▷ **Element**
STS 304, STS 316
C Type Bourdon Tube
- ▷ **Case, Cover**
STS 304
- ▷ **Upper Flange**
STS 304, STS 316
- ▷ **Under Flange**
STS 304, STS 316
- ▷ **Movement**
STS 304
- ▷ **Dial**
Aluminum
White Coating
- ▷ **Pointer**
Aluminum
Black Coating
- ▷ **Type** :
NP-303-1 (Direct Screw Type)
NP-303-4 (Flexible Screw Type)
- ▷ **Window** :
Safety Glass
- ▷ **Process connection** :
100mm : 3/8", 1/2" PT & NPT, PF
- ▷ **Diaphragm** :
STS 304, STS 316, Hastelloy-C,
Titanium, Tantalum, Nickel, Alloy20
- ▷ **Optional extras** :
Diaphragm and lower Flange are available
in PTFE Coating or PTFE Lining

DIMENSION



Model. NP-303-1



Model. NP-303-4

STANDARD SPECIFICATIONS

Dimensions (mm)										
Dial	Model No.	Ø d	Ø d1	b	t	h	a x b	Ø h	Ø D	Capillary Length
100	NP-303-1	100	114	17	(46)	(20)	24 x 27.7	5.5	115	—
	NP-303-4									2,3,5m

SUMMARY

NP-303-2/5 Series is the pressure gauge is designed to ensures enough performance and the life of the instrument in fluid is mixed with coagulation powder, high corrosive.

Such as petrochemical, corrosive fluid, cement, paper factory, ect. used in the dust, fluid mixed with solid, high temperature, High viscosity fluid, industrial special fluids line.

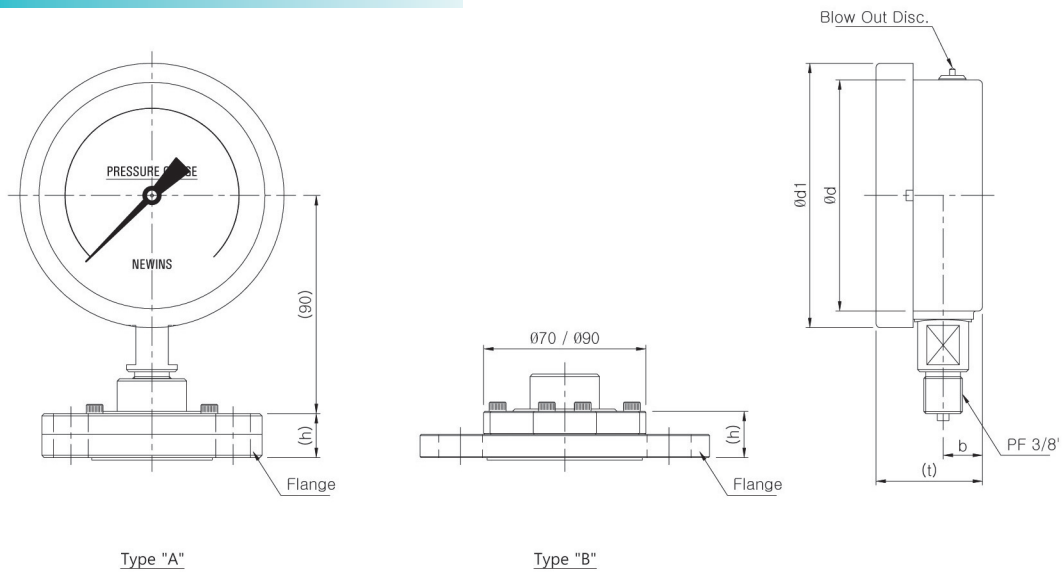


Model. NP-303-2

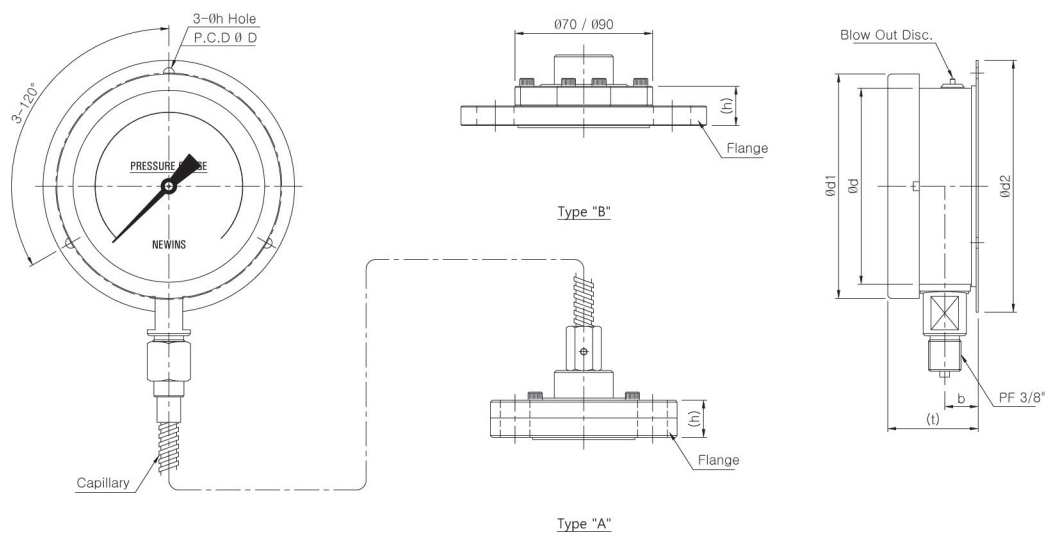
SPECIFICATIONS

- ▷ **Diameter** : 100mm
- ▷ **Accuracy**
100mm : $\pm 1.0\%$ of Full Scale
- ▷ **Scale Range** :
100mm : -0.1~0 MPa, -0.1~2 MPa, 0~10 MPa
- ▷ **Working Pressure** :
Static Pressure : 75% of Full Scale
Fluctuating Pressure : 60% of Full Scale
- ▷ **Working Temperature**
Ambient : -20~65°C
Fluid : -20~80°C
- ▷ **Pressure connection**
STS 304, STS 316
- ▷ **Element**
STS 304, STS 316
C Type Bourdon Tube
- ▷ **Case, Cover**
STS 304
- ▷ **Upper Flange**
STS 304, STS 316
- ▷ **Under Flange**
STS 304, STS 316
- ▷ **Movement**
STS 304
- ▷ **Dial**
Aluminum
White Coating
- ▷ **Pointer**
Aluminum
Black Coating
- ▷ **Type** :
NP-303-2 (Direct Flange Type)
NP-303-5 (Flexible Flange Type)
- ▷ **Window** :
Safety Glass
- ▷ **Process connection** :
Flange to ANSI, JIS or other Standard
- ▷ **Diaphragm** :
STS 304, STS 316, Hastelloy-C,
Titanium, Tantalum, Nickel, Alloy20
- ▷ **Optional extras** :
Diaphragm and lower Flange are available
in PTFE Coating or PTFE Lining

DIMENSION



Model. NP-303-2



Model. NP-303-5

STANDARD SPECIFICATIONS

Dimensions (mm)												
Dial	Model No.	ø d	ø d1	b	t	ø h	Ø D	JIS 10kgf/cm ² (Type)	h	ANSI CLASS #150 (Type)	h	Capillary Length
100	NP-303-2	100	114	17	(46)	5.5	115	15A(Type "A")	22	1/2B (Type "A")	21.5	-
								20A(Type "B")	24	3/4B (Type "A")	23	
								25A(Type "B")	24	1B (Type "B")	24.5	
	NP-303-5							32A(Type "B")	26	1 1/4B (Type "B")	26	2,3,5m
								40A(Type "B")	26	1 1/2B (Type "B")	27.5	
								50A(Type "B")	26	2B (Type "B")	29	

SUMMARY

NP-303-3/6 Series is the pressure gauge is designed to ensures enough performance and the life of the instrument in fluid is mixed with coagulation powder, high corrosive.

Such as petrochemical, corrosive fluid, cement, paper factory, ect. used in the dust, fluid mixed with solid, high temperature, High viscosity fluid, industrial special fluids line.



Model. NP-303-3

SPECIFICATIONS

- ▷ **Diameter** : 100mm
- ▷ **Accuracy**
100mm : $\pm 1.0\%$ of Full Scale
- ▷ **Scale Range** :
100mm : -0.1~0 MPa, -0.1~2 MPa, 0~10 MPa
- ▷ **Working Pressure** :
Static Pressure : 75% of Full Scale
Fluctuating Pressure : 60% of Full Scale
- ▷ **Working Temperature**
Ambient : -20~65°C
Fluid : -20~80°C
- ▷ **Pressure connection**
STS 304, STS 316
- ▷ **Element**
STS 304, STS 316
C Type Bourdon Tube
- ▷ **Case, Cover**
STS 304
- ▷ **Upper Flange**
STS 304, STS 316
- ▷ **Under Flange**
STS 304, STS 316
See Flange Standard Table

- ▷ **Movement**
STS 304
- ▷ **Dial**
Aluminum
White Coating
- ▷ **Pointer**
Aluminum
Black Coating
- ▷ **Type** :
NP-303-3 (Direct Flange Type)
NP-303-6 (Flexible Flange Type)
- ▷ **Window** :
Safety Glass
- ▷ **Process connection** :
Flange to ANSI, JIS or other Standard
- ▷ **Diaphragm** :
STS 304, STS 316, Hastelloy-C,
Titanium, Tantalum, Nickel, Alloy20
- ▷ **Optional extras** :
Diaphragm and lower Flange are available
in PTFE Coating or PTFE Lining

A

B

C

D

E

F

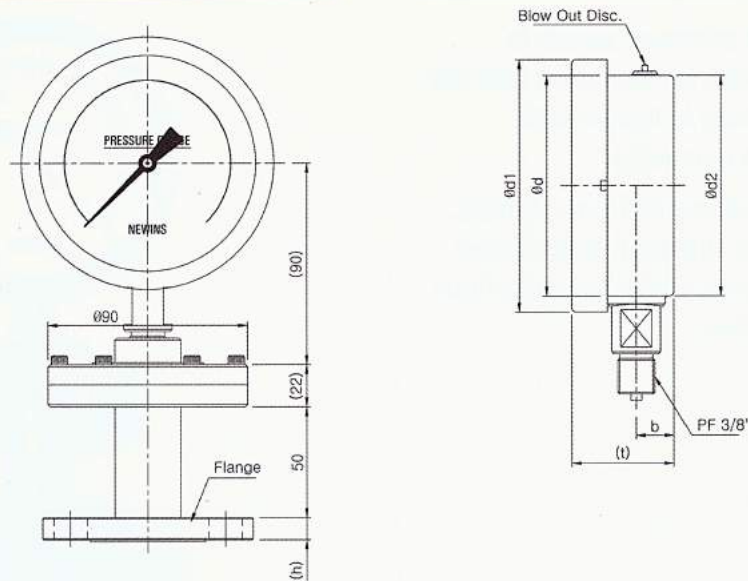
G

H

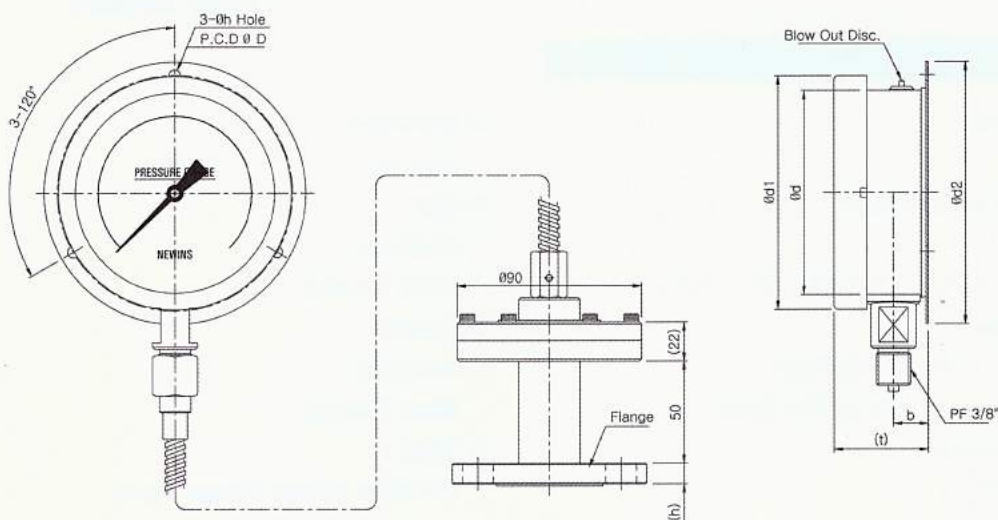
I

J

DIMENSION



Model. NP-303-3



Model. NP-303-6

STANDARD SPECIFICATIONS

Dimensions(mm)												
Dial	Model No.	ø d	ø d1	b	t	ø h	Ø D	JIS 10kgf/cm ² (Type)	h	ANSI CLASS #150 (Type)	h	Capillary Length
100	NP-303-3	100	114	17	(46)	5.5	115	15A(Type "A")	12	1/2B (Type "A")	11.5	-
								20A(Type "B")	14	3/4B (Type "A")	13	
								25A(Type "B")	14	1B (Type "B")	14.5	
	NP-303-6							32A(Type "B")	16	1 1/4B (Type "B")	16	2,3,5m
								40A(Type "B")	16	1 1/2B (Type "B")	17.5	
								50A(Type "B")	16	2B (Type "B")	19.5	

SUMMARY

NP-303-7 Series have anti corrosion, heat resistance.

The pressure gauge is designed to measure the effective pressure of various fluids inside a pipe.

To compensate the disadvantage of the imported products doesn't affect the installation direction, direction change is possible even after installation.

It is used in oil pressure line, chemical industry, various power station, plant site.

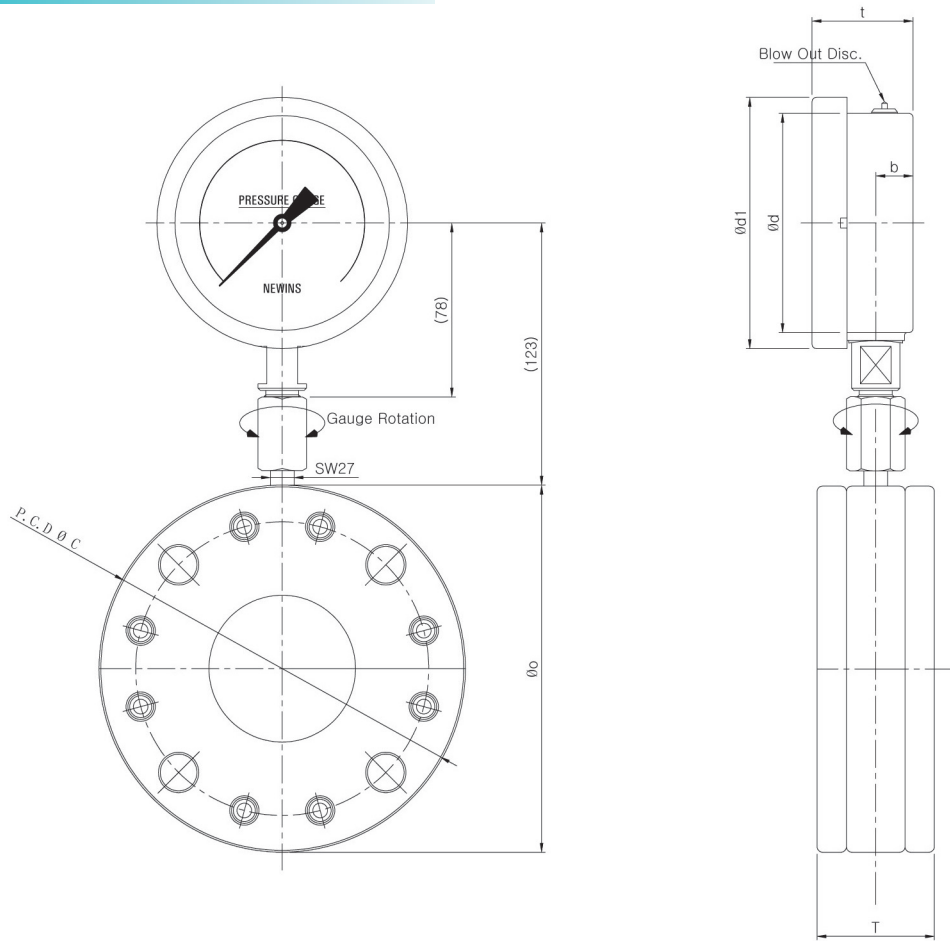


Model. NP-303-7

SPECIFICATIONS

- ▶ **Diameter** : 100,150mm
- ▶ **Accuracy**
 - 100,150mm : $\pm 1.0\%$ of Full Scale
- ▶ **Scale Range** :
 - 100,150mm : -0.1~0 MPa, -0.1~2 MPa, 0~10 MPa
- ▶ **Working Pressure** :
 - Static Pressure : 75% of Full Scale
 - Fluctuating Pressure : 60% of Full Scale
- ▶ **Working Temperature**
 - Ambient : -5~40°C
 - Fluid : -10~60°C
- ▶ **Element**
 - STS 304
 - C Type Bourdon Tube
- ▶ **Case, Cover**
 - STS 304
- ▶ **Body Flange**
 - STS 304, STS 316
- ▶ **Side Flange**
 - STS 304, STS 316, C-PVC
- ▶ **Window**
 - Safety Glass
- ▶ **Movement**
 - STS 304
- ▶ **Dial**
 - Aluminum
 - White Coating
- ▶ **Pointer**
 - Aluminum
 - Black Coating
- ▶ **Type** :
 - NP-303-7 (Rimless Type)
- ▶ **Process connection** :
 - ANSI CLASS #150
 - 1B, 1 1/2B, 2B, 2 1/2B, 3B, 4B, 5B, 6B, 8B
- ▶ **Diaphragm** :
 - Viton

DIMENSION



Model. NP-303-7

STANDARD SPECIFICATIONS

Dimensions (mm)										
Dial	Model No.	Ød	Ød1	b	t	ANSI CLASS #150	ØO	P.C.D ØC	T (STS 304, STS 316)	T (CPVC)
100	NP-303-7	100	114	17	46	1B	108	79.4	49	54
						1 1/2B	127	98.4		
						2B	152	120.6		
						2 1/2B	178	139.7		
						3B	191	152.4		
						4B	229	190.5		
						5B	254	215.9		
						6B	279	241.3		
						8B	343	298		

다이아프램 실 압력계

DIAPHRAGM SEAL PRESSURE GAUGE(FOR HIGH TEMP.)

SUMMARY

NP-304 Series is the pressure gauge is designed to pressure measurement of material in the high temperature molten state, high

viscosity fluid pressure measured at room temperature.

It is used high temperature(0 ~ 300℃), anti corrosion material used in a high viscosity, high temperature, high pressure line or various chemical industry.



Model. NP-304-1

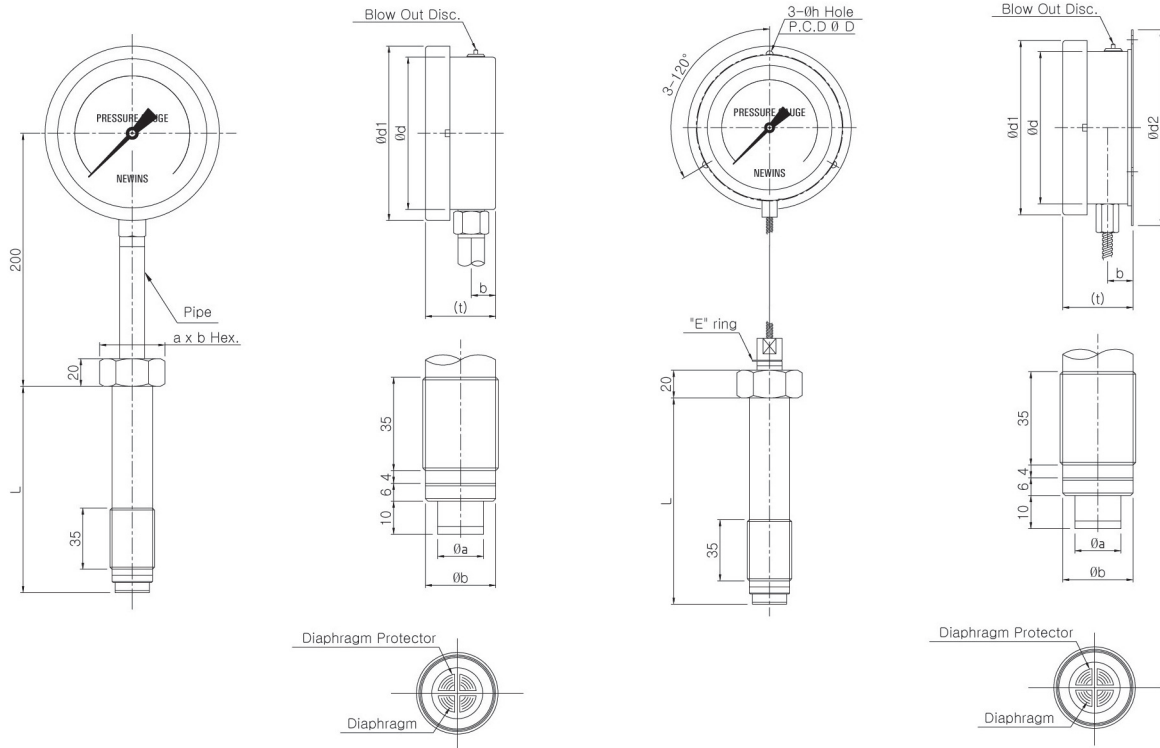
SPECIFICATIONS

- ▶ **Diameter** : 100mm
- ▶ **Accuracy**
100mm : $\pm 1.0\%$ of Full Scale
- ▶ **Scale Range** :
100mm : 5~70 MPa
- ▶ **Working Pressure** :
Static Pressure : 75% of Full Scale
Fluctuating Pressure : 60% of Full Scale
- ▶ **Working Temperature**
Ambient : -20~330℃
Fluid : -20~330℃
- ▶ **Case, Cover**
STS 304
- ▶ **Window**
Safety Glass
- ▶ **Dial**
Aluminum
White Coating
- ▶ **Pointer**
Aluminum
Black Coating
- ▶ **Movement**
STS 304
- ▶ **Type** :
NP-304-1 (Direct Type)
NP-304-2 (Flexible Type)
- ▶ **Mounting Bolt** :
SM45C(Heat Treatment)
80,150 and 300mm
- ▶ **Process connection** :
PF3/4" and PF1" Male screw
- ▶ **Diaphragm** :
STS 316

다이아프램 실 압력계

DIAPHRAGM SEAL PRESSURE GAUGE(FOR HIGH TEMP.)

DIMENSION



Model. NP-304-1

Model. NP-304-2

STANDARD SPECIFICATIONS

Dimensions (mm)																
Model No.	Thread Size	ø d	ø d1	ø d2	b	t	ø h	ø D	ø A	ø B	L	Capillary Length				
NP-304-1	PF 3/4"	100	114	—	17	(46)	—	—	18	24	80, 150, 300	—				
	PF 1"							23.6	30							
NP-304-2	PF 3/4"			128					5.5	115		18	24	1m~5m		
	PF 1"														23.6	30

SUMMARY

NP-305-5 Series is the pressure gauge is designed to ensures enough performance and the life of the instrument in fluid is mixed with coagulation powder, high corrosive.

Such as petrochemical, corrosive fluid, cement, paper factory, ect. used in the dust, fluid mixed with solid, high temperature, High viscosity fluid, industrial special fluids line.

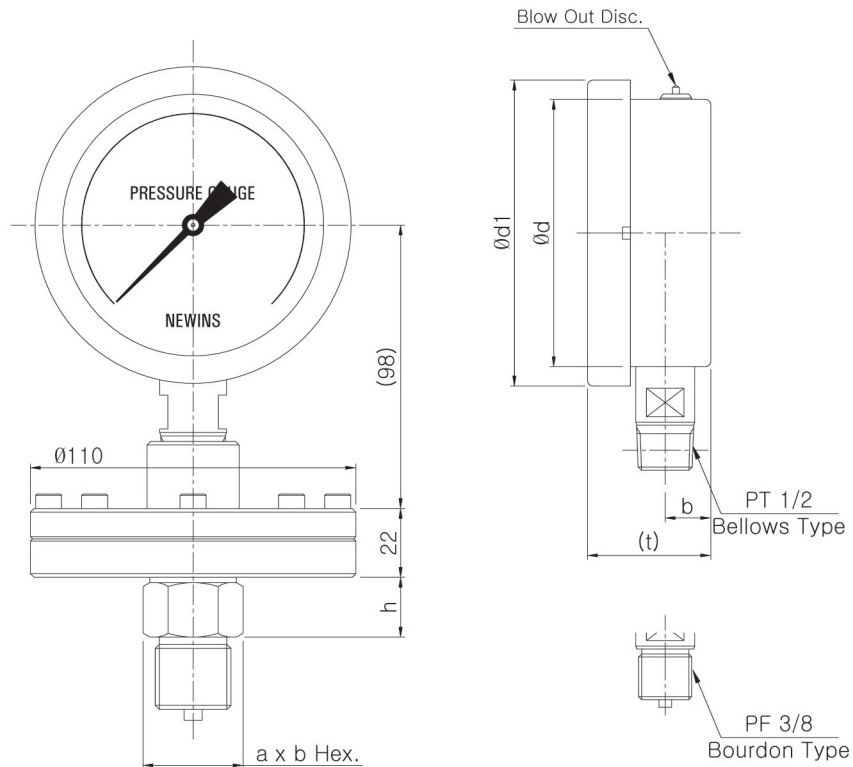


Model. NP-305-5

SPECIFICATIONS

- ▶ **Diameter** : 100mm
- ▶ **Accuracy**
100mm : $\pm 1.5\%$ of Full Scale
- ▶ **Scale Range** :
100mm : -2 kPa ~ 0, ± 1 kPa ~ ± 20 kPa,
0 ~ 35 kPa
- ▶ **Working Pressure** :
Static Pressure : 75% of Full Scale
Fluctuating Pressure : 60% of Full Scale
- ▶ **Working Temperature**
Ambient : -20~65°C
Fluid : -20~80°C
- ▶ **Process connection** :
STS 316
- ▶ **Element**
STS 304, STS 316
- ▶ **Case, Cover**
STS 304
- ▶ **Upper Flange**
STS 304, STS 316
- ▶ **Under Flange**
STS 304, STS 316
- ▶ **Movement**
Brass
- ▶ **Dial**
Aluminum
White Coating
- ▶ **Pointer**
Aluminum
Black Coating
- ▶ **Type** :
NP-305-5 (Direct Screw Type)
- ▶ **Window**
Safety Glass
- ▶ **Process connection** :
100mm : 3/8", 1/2"PT & NPT, PF
- ▶ **Diaphragm** :
STS 304, STS 316, Hastelloy-C
Titanium, Tantalum, Nickel, Alloy20
- ▶ **Optional extras** :
Diaphragm and lower Flange are available in PTFE Coating or PTFE Lining.

DIMENSION



Model. NP-305-5

STANDARD SPECIFICATIONS

Dimensions (mm)							
Dial	Model No.	Ød	Ød1	b	t	a x b	h
100	NP-305-5	100	114	17	(46)	22 x 25.4	(20)

SUMMARY

NP-305-6 Series is the pressure gauge is designed to ensures enough performance and the life of the instrument in fluid is mixed with coagulation powder, high corrosive.

Such as petrochemical, corrosive fluid, cement, paper factory, ect. used in the dust, fluid mixed with solid, high temperature, High viscosity fluid, industrial special fluids line.

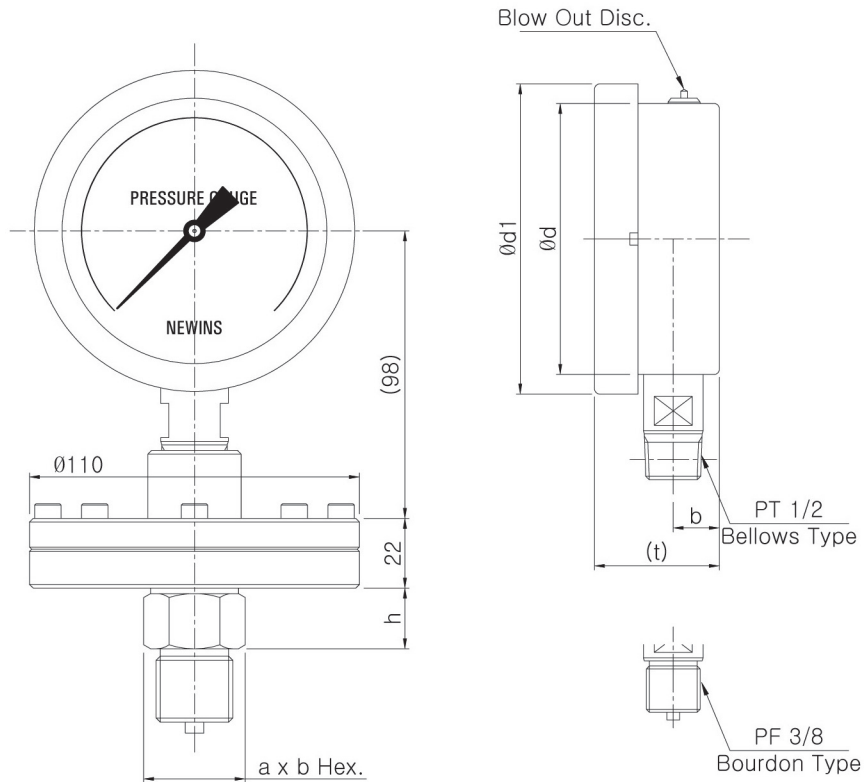


Model. NP-305-6

SPECIFICATIONS

- ▶ **Diameter** : 100mm
- ▶ **Accuracy**
100mm : $\pm 1.5\%$ of Full Scale
- ▶ **Scale Range** :
100mm : -2 kPa ~ 0, ± 1 kPa ~ ± 20 kPa,
0 ~ 35 kPa
- ▶ **Working Pressure** :
Static Pressure : 75% of Full Scale
Fluctuating Pressure : 60% of Full Scale
- ▶ **Working Temperature**
Ambient : $-20 \sim 80^{\circ}\text{C}$
Fluid : $-20 \sim 80^{\circ}\text{C}$
- ▶ **Process connection** :
STS 316
- ▶ **Element**
STS 304, STS 316
- ▶ **Case, Cover**
STS 304
- ▶ **Upper Flange**
STS 304, STS 316
- ▶ **Under Flange**
STS 304, STS 316
- ▶ **Movement**
Brass
- ▶ **Dial**
Aluminum
White Coating
- ▶ **Pointer**
Aluminum
Black Coating
- ▶ **Type** :
NP-305-6 (Direct Flange Type)
- ▶ **Window**
Safety Glass
- ▶ **Process connection** :
See Flange Standard Table
- ▶ **Diaphragm** :
STS 304, STS 316, Hastelloy-C
Titanium, Tantalum, Nickel, Alloy20
- ▶ **Optional extras** :
Diaphragm and lower Flange are available in PTFE Coating or PTFE Lining.

DIMENSION



Model. NP-305-6

STANDARD SPECIFICATIONS

Dial	Model No.	$\varnothing d$	$\varnothing d1$	b	t	Dimensions (mm)			
						JIS 10kgf/cm ² (Type)	h	ANSI CLASS #150 (Type)	h
100	NP-305-6	100	114	17	(46)	15A (Type "A")	12	1/2B (Type "A")	11.5
						20A (Type "B")	14	3/4B (Type "A")	13
						25A (Type "B")	14	1B (Type "B")	14.5
						32A (Type "B")	16	1 1/4B (Type "B")	16
						40A (Type "B")	16	1 1/2B (Type "B")	17.5
						50A (Type "B")	16	2B (Type "B")	19.5

SUMMARY

NP-306 Series is assembled into the contact mechanism in the indicator.

It was designed to be a pressure indication, sending information and control the electric signal from the set pressure.

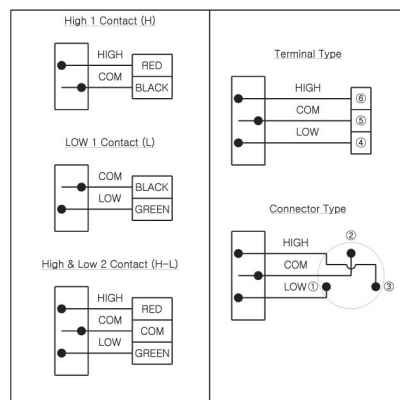


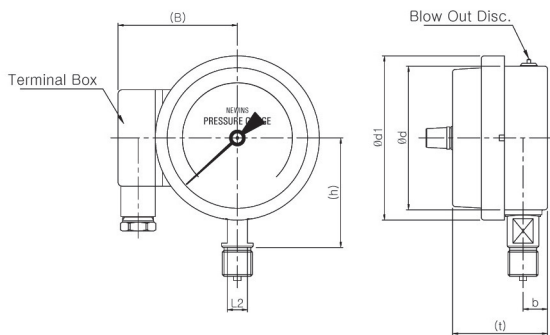
Model. NP-306-1

SPECIFICATIONS

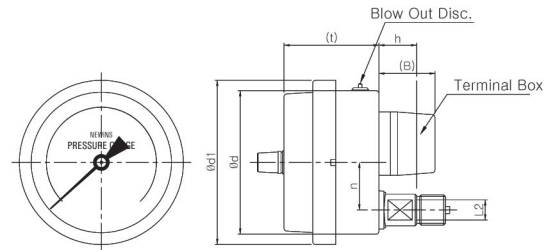
- ▶ **Diameter** : 100,150mm
- ▶ **Accuracy**
100,150mm : $\pm 1.0\%$ of Full Scale
- ▶ **Scale Range** :
100,150mm : -0.1 ~ 0 MPa, -0.1~2 MPa, 0~100MPa
- ▶ **Working Pressure** :
Static Pressure : 75% of Full Scale
Fluctuating Pressure : 60% of Full Scale
- ▶ **Working Temperature**
Ambient : -20~65°C
Fluid : -20~80°C
- ▶ **Pressure connection** :
STS 316
- ▶ **Element**
STS 304, STS 316
C Type Bourdon Tube or Helical Tube
- ▶ **Case, Cover**
STS 304
- ▶ **Window**
Poly Carbonate
- ▶ **Movement**
STS 304
- ▶ **Dial**
Aluminum
White Coating
- ▶ **Pointer**
Phosphor Bronze
Black Coating

- ▶ **Type** :
NP-306-1 (Rimless Type)
NP-306-2 (Surface Type)
NP-306-3 (Flush Mounting Type)
NP-306-4 (Panel attachment Type)
- ▶ **Process connection** :
100mm : 1/4", 3/8", 1/2" PT & NPT, PF
150mm : 1/4", 3/8", 1/2" PT & NPT, PF
- ▶ **Contact Rating** :
AC 125V 0.5A / 250V 0.25A
- ▶ **Contact Type** :
High and Low 2 Contact
(High or Low, High & High, High & Low, Low & Low)
- ▶ **Option**
Blow out protection on The top Rubber Disc
Bracket, Throttles, Accessories
- ▶ **Connection Diagram**

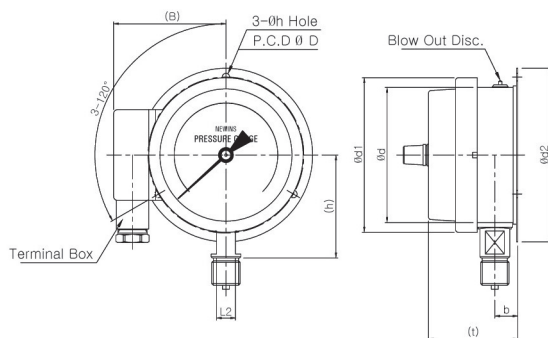


DIMENSION


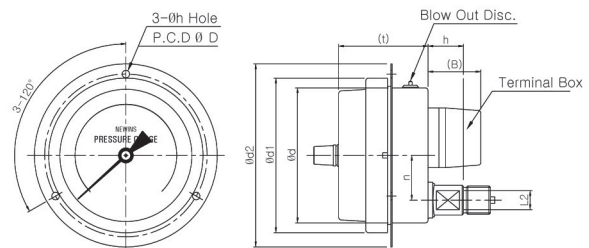
Model. NP-306-1(A)



Model. NP-306-3(D)



Model. NP-306-2(B)



Model. NP-306-4(BD)

STANDARD SPECIFICATIONS

Dimensions (mm)												
Dial	Model No.	Ød	Ød1	Ød2	b	n	B	t	L2	h	Øh	ØD
100	NP-306-1(A)/2(B)	100	114	128	17	-	83	(66)	17	(76)	5.5	11.5
	NP-306-3(D)/4(BD)			135	-	33	39			(26)		120
150	NP-306-1(A)/2(B)	152	168	188	17	-	116	(66)	17	(100)	5.5	173
	NP-306-3(D)/4(BD)				-	33	39			(26)		

SUMMARY

NP-306D Series is assembled into the contact mechanism in the indicator.

It was designed to be a pressure indication, sending information and control the electric signal from the set pressure.

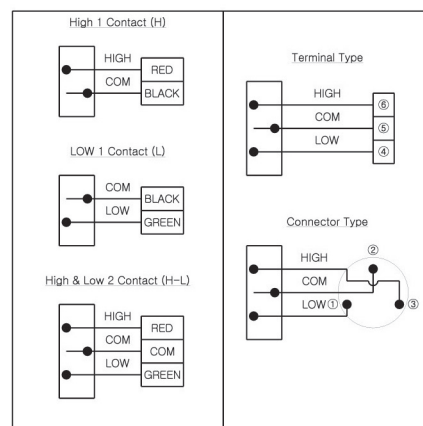


Model. NP-306D-0

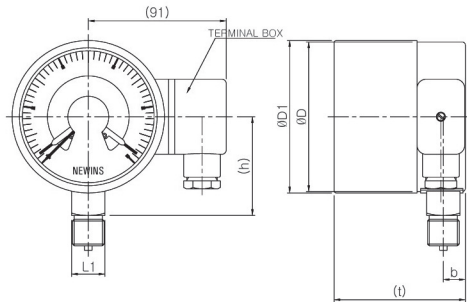
SPECIFICATIONS

- ▶ **Diameter** : 100mm
- ▶ **Accuracy**
100mm : $\pm 1.0\%$ of Full Scale
- ▶ **Scale Range** :
100,150mm : -0.1 ~ 0 MPa, -0.1~2 MPa, 0~100MPa
- ▶ **Working Pressure** :
Static Pressure : 75% of Full Scale
Fluctuating Pressure : 60% of Full Scale
- ▶ **Working Temperature**
Ambient : -20~65°C
Fluid : -20~80°C
- ▶ **Pressure connection** :
STS 316
- ▶ **Element**
STS 304, STS 316
C Type Bourdon Tube or Helical Tube
- ▶ **Case, Cover**
STS 304
- ▶ **Window**
Poly Carbonate
- ▶ **Movement**
STS 304
- ▶ **Dial**
Aluminum
White Coating
- ▶ **Pointer**
Phosphor Bronze
Black Coating

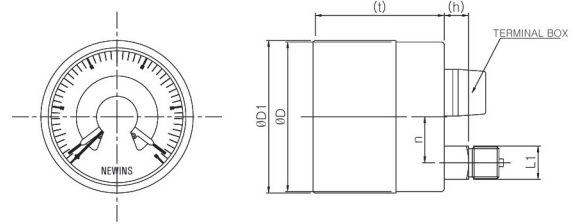
- ▶ **Type** :
NP-306D-1 (Rimless Type)
NP-306D-2 (Surface Type)
NP-306D-3 (Flush Mounting Type)
NP-306D-4 (Panel attachment Type)
- ▶ **Process connection** :
100mm : 1/4", 3/8", 1/2" PT & NPT, PF
- ▶ **Contact Rating** :
AC 220V 0.7A /1.0A
- ▶ **Contact Type** :
High and Low 2 Contact
(High or Low, High & High,
High & Low, Low & Low)
- ▶ **Option**
Bracket, Throttles, Accessories
- ▶ **Connection Diagram**



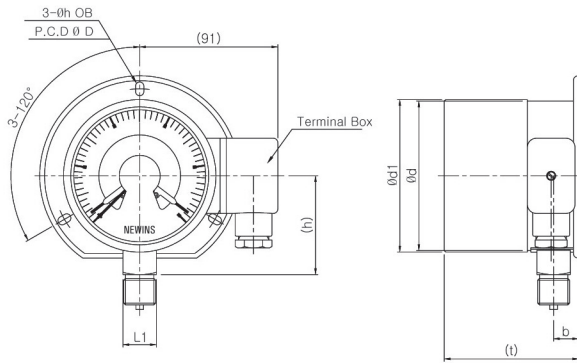
DIMENSION



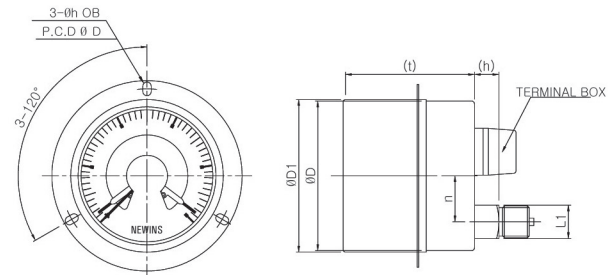
Model. NP-306D-1(A)



Model. NP-306D-3(D)



Model. NP-306D-2(B)



Model. NP-306D-4(BD)

STANDARD SPECIFICATIONS

Dimensions (mm)											
Dial	Model No.	Ø d	Ø d1	Ø d2	b	n	t	L1	h	Øh(OB)	ØD
100	NP-306D-1(A)/2(B)	98.7	100.5	132	17	-	(86.5)	22	(66.5)	5.5 x 8	118
	NP-306D-3(D)/4(BD)				-	32			(20.5)		

접점식 압력계

PRESSURE GAUGE WITH ELECTRIC MICRO CONTACT

SUMMARY

NP-306M Series is a contact pressure gauge, put the Micro Switch on the pressure gauge. operating the switch, a structure for generating an on, off electrical signal. It represents the alarm by sending such buzzer, bell, Pilot Lamp, ect.

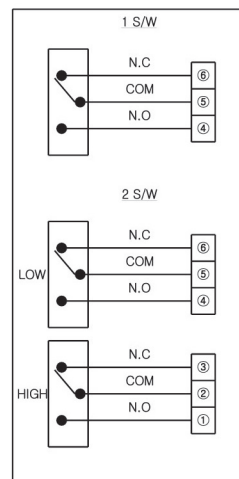


Model. NP-306M-2

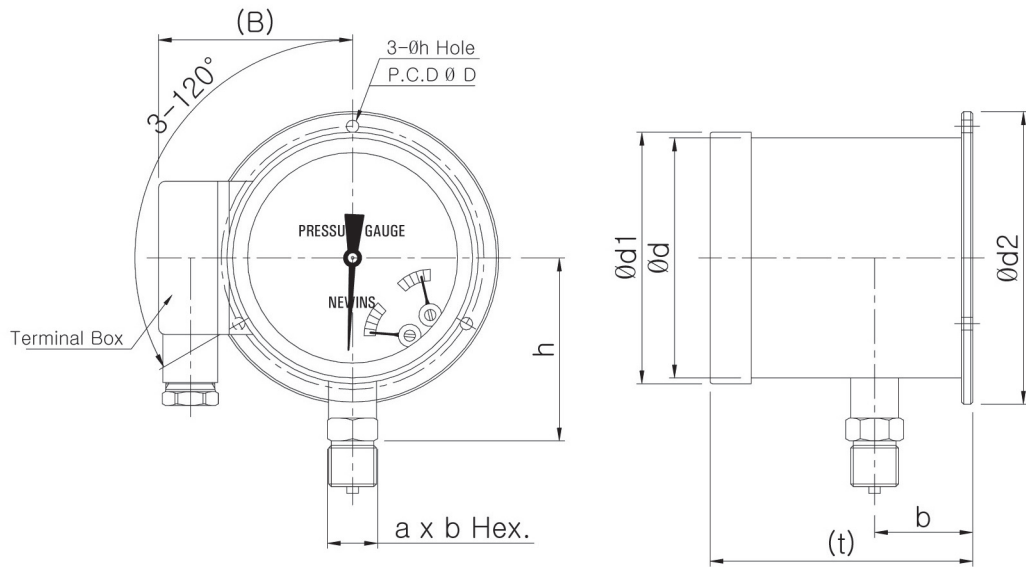
SPECIFICATIONS

- ▶ **Diameter** : 100,150mm
- ▶ **Accuracy**
100,150mm : ± 1.5 of Full Scale
- ▶ **Scale Range** :
100,150mm : -0.1 ~ 0 MPa, -0.1~2 MPa, 0~100MPa
- ▶ **Working Pressure** :
Static Pressure : 75% of Full Scale
Fluctuating Pressure : 60% of Full Scale
- ▶ **Working Temperature**
Ambient : -20~65°C
Fluid : -20~80°C
- ▶ **Pressure connection** :
STS 316
- ▶ **Element**
STS 304, STS 316
C Type Bourdon Tube
- ▶ **Case, Cover**
Aluminum (Hammer Tone Coating)
- ▶ **Window**
General Glass
Safety Glass
- ▶ **Movement**
STS 304
- ▶ **Dial**
Aluminum
White Coating
- ▶ **Pointer**
Aluminum
Black Coating

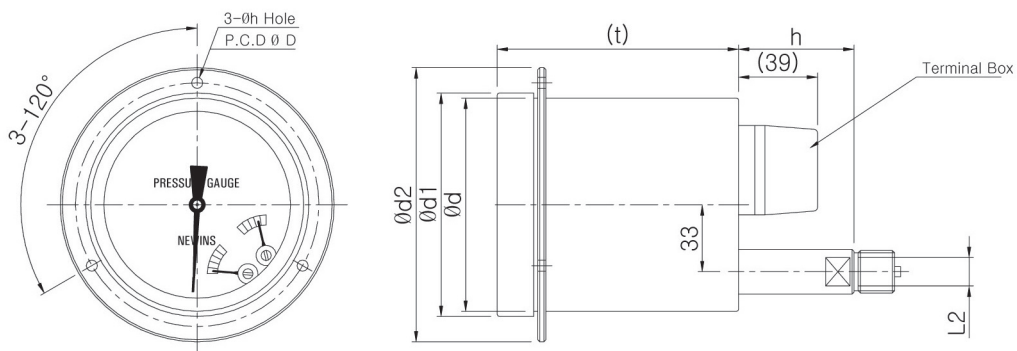
- ▶ **Type** :
NP-306M-2 (Surface Type)
NP-306M-4 (Panel attachment Type)
- ▶ **Process connection** :
100mm : 3/8", 1/2" PT & NPT, PF
150mm : 3/8", 1/2" PT & NPT, PF
- ▶ **Contact Rating** :
AC 125V 5A / 250V 3A
- ▶ **Contact Type** :
High and Low 2 Contact
(High or Low, High & High,
High & Low, Low & Low)
- ▶ **Option**
Bracket, Accessories
- ▶ **Connection Diagram**



DIMENSION



Model. NP-306M-2(B)



Model. NP-306M-4(BD)

STANDARD SPECIFICATIONS

Dimensions (mm)													
Dial	Model No.	Ø d	Ø d1	Ø d2	b	n	B	t	L2	a x b	h	Ø h	Ø D
100	NP-306M-2(B)	105	110	128	43	—	85	(115)	22	—	(80)	5.5	115
	NP-306M-4(BD)			135	—	33	39		—	22x25.4	(58)		120
150	NP-306M-2(B)	156	170	190	43	—	116	(115)	17	—	(128)	5.5	174
	NP-306M-4(BD)			200	—	33	39		—	22x25.4	(58)		185

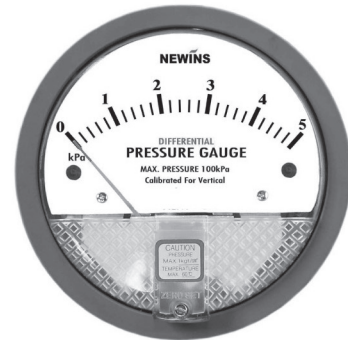
SUMMARY

NDP-2000 Series is a instrument for measuring the differential pressure of the air. The pressure connection port L(low pressure) and H(high pressure), and indicates the two pressure difference.

This differential pressure measurement is possible.

It is possible to measure the flow rate using the measured differential pressure. The differential pressure between the air filter at both ends can be determined performance of the filter.

The measurement differential pressure between the orifice at both ends can be determined flow measurement.

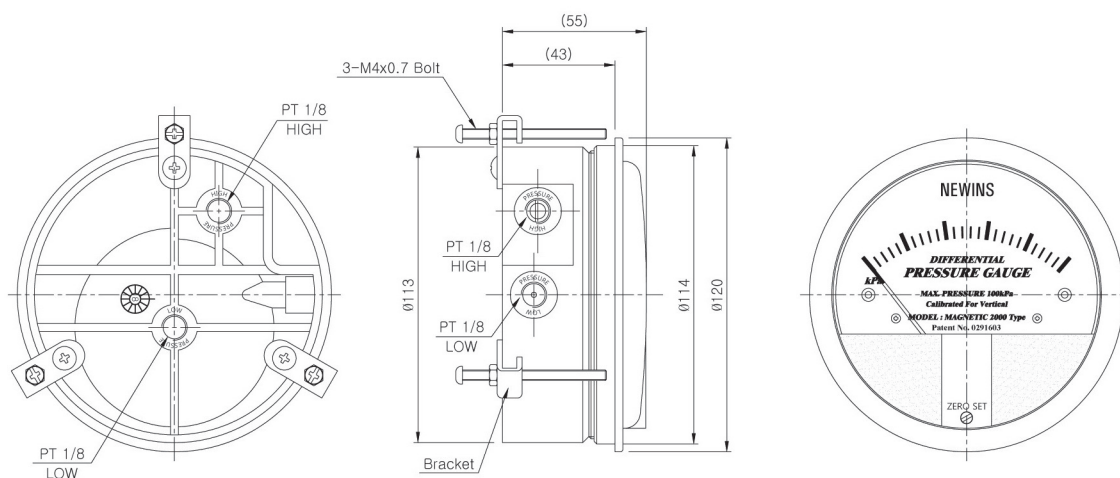


Model. NDP-2000

SPECIFICATIONS

- ▶ **Diameter** : 100mm
- ▶ **Accuracy**
100mm : ± 2.0 of Full Scale
- ▶ **Scale Range** :
100mm : Refer To Range Table
- ▶ **Working Pressure** :
Static Pressure : 75% of Full Scale
Fluctuating Pressure : 60% of Full Scale
- ▶ **Working Temperature**
Ambient : $-10 \sim 60^{\circ}\text{C}$
- ▶ **Pressure connection** :
Brass
- ▶ **Element**
Silicon Rubber
NBR
- ▶ **Case**
Aluminum(Hammer Tone Coating)
- ▶ **Cover**
Aluminum(Hammer Tone Coating)
- ▶ **Window**
Poly Carbonate
- ▶ **Dial**
Aluminum
White Coating
- ▶ **Pointer**
Aluminum
Point : Red color
- ▶ **Process connection** :
PT 1/8 (Female)
- ▶ **Base Pressure**:
0.1 Mpa
- ▶ **Type**
Panel Attachment Type - Bracket

DIMENSION



Model. NDP-2000

STANDARD SPECIFICATIONS

Unit: : mmH₂O

0~50	0~100	0~300	0~500	0~1000	0~2000	0~3000	0~5000
±50	±150	±250	±500	±1000	±1500	±2500	±3000