

Union

Model : A010

Spec. sheet no. [AD00-01](#)

Service intended

It is used for adapting size of the pressure tap which is different from the size of the pressure instrument thread.

Standard features

Max. working pressure

Brass : Up to 25 MPa at 20 °C, G½"

Stainless steel : Up to 40 MPa at 20 °C, G½"

ASME B1.1 Appendix B

Max. working temperature : -10 to 120 °C



※ This product's Max. working temperature could be varied depending on its working pressure and temperature.

Main order

Ordering information

1. Base model

A010 Union

2. Unused character

A None

3. Material

A Brass
C 304SS
D 316SS
F 316L SS
G 304L SS
V PVC
Z Other

4. Gauge connection size

0 ¼"
1 ⅜"
2 ½"
3 ⅝"
4 ¾"
5 ⅞"
9 Other

5. Gauge connection type

A PF (F) **D** UNF
B PT (F) **E** NPT (M)
C NPT (F) **Z** Other

6. Process connection size

A ⅛"
B ¼"
C ⅜"
D ½"
E ¾"
F 1"
G ⅞"
Z Other

7. Process connection type

G PF (M) **N** S.W
H PT (M) **C** NPT (F)
J NPT (M) **Z** Other
K UNF

8. Unused character

A0000 With vent cock plug

1	2	3	4	5	6	7	8	
A010	A	A	0	A	A	G	A0000	Sample ordering code

WISE®

| 553

A010 : Type of mounting

	d1	d2	d1 x d2	L	C	D	AXB HEX.	Ordering code (7th and 10th characters)
	PF1/4	PF1/4	PF1/4 X PF1/4	40	16	16	19X21.9	0ABG
	PF1/4	PF3/8	PF1/4 X PF3/8	41	16	18	19X21.9	0ACG
	PF1/4	PF1/2	PF1/4 X PF1/2	43	20	20	22X25.4	0ADG
	PF3/8	PF1/4	PF3/8 X PF1/4	41	16	16	19X21.9	1ABG
	PF3/8	PF3/8	PF3/8 X PF3/8	43	18	18	22X25.4	1ACG
	PF3/8	PF1/2	PF3/8 X PF1/2	45	20	20	22X25.4	1ADG
	PF1/2	PF1/4	PF1/2 X PF1/4	43	16	16	19X21.9	2ABG
	PF1/2	PF3/8	PF1/2 X PF3/8	45	20	18	27X31.2	2ACG
	PF1/2	PF1/2	PF1/2 X PF1/2	48	20	20	27X31.2	2ADG

	d1	d2	d1 x d2	L	C	D	AXB HEX.	Ordering code (7th and 10th characters)	
								NPT TYPE	PT TYPE
	PF1/4	(N)PT1/4	PF1/4 X (N)PT1/4	34	14	14	19X21.9	0ABJ	0ABH
	PF1/4	(N)PT3/8	PF1/4 X (N)PT3/8	36	16	16	19X21.9	0ACJ	0ACH
	PF1/4	(N)PT1/2	PF1/4 X (N)PT1/2	38	18	18	22X25.4	0ADJ	0ADH
	PF3/8	(N)PT1/4	PF3/8 X (N)PT1/4	36	14	14	19X21.9	1ABJ	1ABH
	PF3/8	(N)PT3/8	PF3/8 X (N)PT3/8	38	16	16	22X25.4	1ACJ	1ACH
	PF3/8	(N)PT1/2	PF3/8 X (N)PT1/2	40	18	18	22X25.4	1ADJ	1ADH
	PF1/2	(N)PT1/4	PF1/2 X (N)PT1/4	38	14	14	19X21.9	2ABJ	2ABH
	PF1/2	(N)PT3/8	PF1/2 X (N)PT3/8	40	16	16	27X31.2	2ACJ	2ACH
	PF1/2	(N)PT1/2	PF1/2 X (N)PT1/2	42	18	18	27X31.2	2ADJ	2ADH

	d1	d2	d1 x d2	L	C	D	AXB HEX.	Ordering code (7th and 10th characters)	
								NPT TYPE	PT TYPE
	(N)PT1/4	PF1/4	(N)PT1/4 X PF1/4	37	16	16	19X21.9	0CBG	0BBG
	(N)PT1/4	PF3/8	(N)PT1/4 X PF3/8	39	14	14	19X21.9	0CCG	0BCG
	(N)PT1/4	PF1/2	(N)PT1/4 X PF1/2	41	20	20	22X25.4	0CDG	0BDG
	(N)PT3/8	PF1/4	(N)PT3/8 X PF1/4	39	16	16	19X21.9	1CBG	1BBG
	(N)PT3/8	PF3/8	(N)PT3/8 X PF3/8	41	18	18	22X25.4	1CCG	1BCG
	(N)PT3/8	PF1/2	(N)PT3/8 X PF1/2	43	20	20	22X25.4	1CDG	1BDG
	(N)PT1/2	PF1/4	(N)PT1/2 X PF1/4	43	16	16	19X21.9	2CBG	2BBG
	(N)PT1/2	PF3/8	(N)PT1/2 X PF3/8	45	18	18	27X31.2	2CCG	2BCG
	(N)PT1/2	PF1/2	(N)PT1/2 X PF1/2	45	20	20	27X31.2	2CDG	2BDG

	d1	d2	d1 x d2	L	C	D	AXB HEX.	Ordering code (7th and 10th characters)	
								NPT TYPE	PT TYPE
	(N)PT1/4	(N)PT1/4	(N)PT1/4 X (N)PT1/4	34	14	14	19X21.9	0CBJ	0BBH
	(N)PT1/4	(N)PT3/8	(N)PT1/4 X (N)PT3/8	36	16	16	19X21.9	0CCJ	0BCH
	(N)PT1/4	(N)PT1/2	(N)PT1/4 X (N)PT1/2	38	18	18	22X25.4	0CDJ	0BDH
	(N)PT3/8	(N)PT1/4	(N)PT3/8 X (N)PT1/4	36	14	14	19X21.9	1CBJ	1BBH
	(N)PT3/8	(N)PT3/8	(N)PT3/8 X (N)PT3/8	38	16	16	22X25.4	1CCJ	1BCH
	(N)PT3/8	(N)PT1/2	(N)PT3/8 X (N)PT1/2	40	18	18	22X25.4	1CDJ	1BDH
	(N)PT1/2	(N)PT1/4	(N)PT1/2 X (N)PT1/4	38	14	14	19X21.9	2CBJ	2BBH
	(N)PT1/2	(N)PT3/8	(N)PT1/2 X (N)PT3/8	40	16	16	27X31.2	2CCJ	2BCH
	(N)PT1/2	(N)PT1/2	(N)PT1/2 X (N)PT1/2	42	18	18	27X31.2	2CDJ	2BDH

Gauge union

Model : A020

Spec. sheet no. AD00-02

Service intended

It is used for positive sealing while the pressure gauge may be directed into any directions.

Standard features

Max. working pressure

Stainless steel : Up to 42 MPa, at 20 °C, G $\frac{1}{2}$ "

ASME B1.1 Appendix B

Max. working temperature : -10 to 120 °C

※ This product's Max. working temperature could be varied depending on its working pressure and temperature.



Main order

1. Base model

A020 Gauge union

2. Union type

N	Pipe welding	R	S.W (F)
P	PF (M)	S	S.W (M)
Q	PT (M)	T	Flange

3. Material

C	304SS	G	Monel
D	316SS	H	Hastelloy-C
F	316L SS	Z	Other

4. Gauge connection size

0	$\frac{1}{4}$ "
1	$\frac{3}{8}$ "
2	$\frac{1}{2}$ "
3	$\frac{1}{8}$ "
Z	Other

5. Gauge connection type

A	PF (F)
B	PT (F)
C	NPT (F)
Z	Other

6. Process connection size

A	$\frac{1}{8}$ " (10.5 mm)	E	$\frac{3}{4}$ "
B	$\frac{1}{4}$ "	Q	Flange
C	$\frac{3}{8}$ "	Z	Other
D	$\frac{1}{2}$ "		

Ordering information

7. Process connection type

C	NPT (F)	N	S.W (M)
G	PF (M)	P	Pipe welding
H	PT (M)	Q	Flange
J	NPT (M)	Z	Other
M	S.W (F)		

8. Flange size

A	N/A	G	1 $\frac{1}{4}$ " (32A)
D	$\frac{1}{2}$ " (15A)	H	1 $\frac{1}{2}$ " (40A)
E	$\frac{3}{4}$ " (20A)	J	2" (50A)
F	1" (25A)	Z	Other

9. Flange rating

KA	N/A	KL	JIS 10K RF
AC	B16.5 Class 150 RF	KN	JIS 10K FF
AE	B16.5 Class 150 FF	KM	JIS 10K RFSF
AD	B16.5 Class 150 RFSF	KP	JIS 20K RF
AF	B16.5 Class 300 RF	KR	JIS 20K FF
AH	B16.5 Class 300 FF	KQ	JIS 20K RFSF
AG	B16.5 Class 300 RFSF	KC	JIS 30K RF
AJ	B16.5 Class 600 RF	KU	JIS 30K FF
AL	B16.5 Class 600 FF	KJ	JIS 30K RFSF
AK	B16.5 Class 600 RFSF	ZZ	Other

10. Pipe length

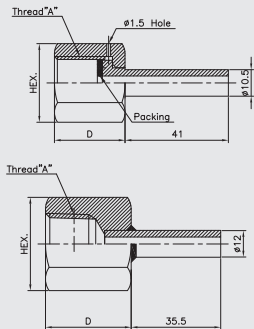
000	$\frac{3}{8}$ " SCH 40 (17.3Ø X 2.3t), 100 mm (Only available with flange type)
010	$\frac{3}{8}$ " SCH 80 (17.3Ø X 3.2t), 100 mm (Only available with flange type)
020	$\frac{1}{2}$ " SCH 40 (21.7Ø X 2.8t), 100 mm (Only available with flange type)
030	$\frac{1}{2}$ " SCH 80 (21.7Ø X 3.7t), 100 mm (Only available with flange type)
800	None

1	2	3	4	5	6	7	8	9	10
A020	N	C	0	A	A	C	A	KA	000

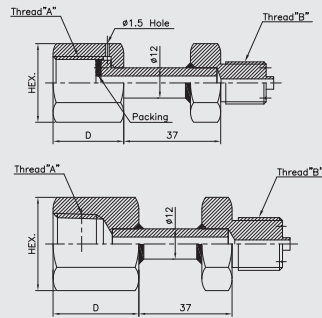
Sample
ordering code
WISE[®]

A020 : Type of mounting

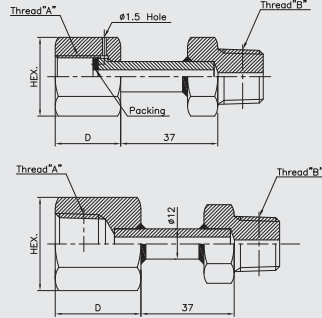
Code N



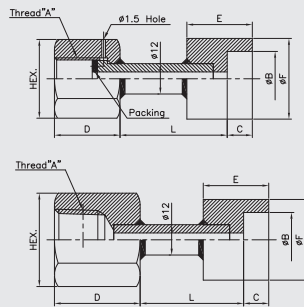
Code P



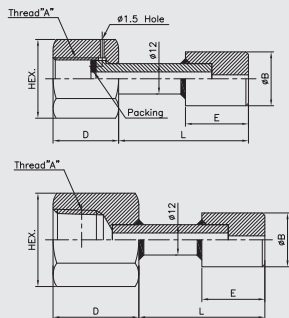
Code Q



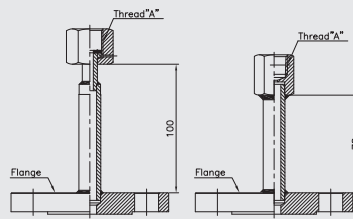
Code R



Code S



Code T



Dimensions (mm)															
Code	A		B	D	Code	A		B	C	D	E	F	L		
N	PF	3/8"		26	R	PF	3/8"	3/8"	10	26	26	26	41		
	(N)PT	1/2"		28				1/2"			32				
		1/2"		34				3/4"			29	40			
P	PF	3/8"	PF 3/8"	26			1/2"	3/8"	3/8"	10	28	26	29	40	41
			PF 1/2"						1/2"				32		
			PF 3/4"						3/4"				29	40	
		1/2"	PF 1/2"	28		(N)PT		3/8"	3/8"	10	30(32)	26	26		
			PF 3/4"						1/2"				32		
			PF 3/4"						3/4"				29	40	
	(N)PT	3/8"	PF 3/8"	30(32)			1/2"	3/8"	3/8"	10	34	26	29	40	41
			PF 1/2"						1/2"				32		
			PF 3/4"						3/4"				29	40	
		1/2"	PF 3/8"	34		S		1/2"	3/4"		28	25		50	
			PF 1/2"						1/2"				26		
			PF 3/4"						3/4"						
Q	PF	3/8"	(N)PT 3/8"	26			(N)PT	1/2"	3/8"		34	25		50	
			(N)PT 1/2"						1/2"						
			(N)PT 3/4"						3/4"						
		1/2"	(N)PT 3/8"	28		1/2"		3/8"		34	26		51		
			(N)PT 1/2"					1/2"							
			(N)PT 3/4"					3/4"							
	(N)PT	3/8"	(N)PT 3/8"	30(32)		T	3/8"	3/8"	JIS	10, 16, 20, 30, 40K	15, 20, 25, 32, 40, 50A	FF RF			
			(N)PT 1/2"					1/2"							
			(N)PT 3/4"					3/4"							
		1/2"	(N)PT 3/8"	34			3/8"	3/8"	ANSI	150, 300, 600lb	1 1/4, 3/4, 1, 1 1/4, 1 1/2, 2B	FF RF			
			(N)PT 1/2"					1/2"							
			(N)PT 3/4"					3/4"							

Syphon tube

Model : A030

Spec. sheet no. AD00-03

Service intended

It is used for protecting the pressure gauge from the effect of hot process media like steam, and it also can reduce the effect of rapid pressure surge.

Standard features

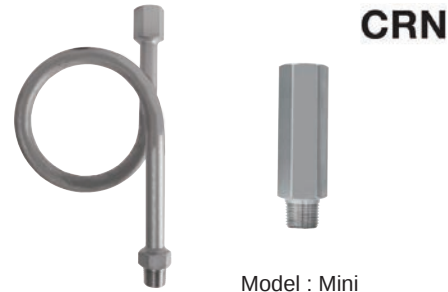
Max. working pressure

Stainless steel

• Code B, C : Up to 25 MPa at 20 °C, G $\frac{1}{4}$ "
(Not available with flange type)

• Code M : Up to 60 MPa at 20 °C, G $\frac{1}{4}$ "

※ This product's Max. working temperature could be varied depending on its working pressure and temperature.



Model : Mini

Main order

Ordering information

1. Base model

A030 Syphon tube

2. Type

B Winding
C Pig tail
M Mini

3. Material

C 304SS **H** Hastelloy-C
D 316SS **I** Incoloy
F 316L SS **Z** Other
E 321SS

4. Gauge connection size

0 $\frac{1}{4}$ " **3** $\frac{3}{4}$ "
1 $\frac{3}{8}$ " **6** 1"
2 $\frac{1}{2}$ " **Z** Other

5. Gauge connection type

A PF (F)
B PT (F)
C NPT (F)
H NPS (F)
Z Other

6. Process connection size

B $\frac{1}{4}$ " **F** 1"
C $\frac{3}{8}$ " **Q** Flange
D $\frac{1}{2}$ " **Z** Other
E $\frac{3}{4}$ "

7. Process connection type

C NPT (F) **N** S.W (M)
G PF (M) **P** Pipe welding
H PT (M) **Q** Flange
J NPT (M) **Z** Other
M S.W (F)

8. Flange size

A N/A **G** $1\frac{1}{4}$ " (32A)
D $\frac{1}{2}$ " (15A) **H** $1\frac{1}{2}$ " (40A)
E $\frac{3}{4}$ " (20A) **J** 2" (50A)
F 1" (25A) **Z** Other

9. Flange rating

KA N/A **KM** JIS 10K RFSF
AC B16.5 Class 150 RF **KP** JIS 20K RF
AE B16.5 Class 150 FF **KR** JIS 20K FF
AD B16.5 Class 150 RFSF **KQ** JIS 20K RFSF
AF B16.5 Class 300 RF **KC** JIS 30K RF
AH B16.5 Class 300 FF **KU** JIS 30K FF
AG B16.5 Class 300 RFSF **KJ** JIS 30K RFSF
AJ B16.5 Class 600 RF **KD** JIS 40K RF
AL B16.5 Class 600 FF **KV** JIS 40K FF
AK B16.5 Class 600 RFSF **KK** JIS 30K RFSF
KL JIS 10K RF **ZZ** Other
KN JIS 10K FF

10. Pipe length

000 $\frac{3}{8}$ " SCH 40 (17.3Ø X 2.3t) **500** $\frac{3}{4}$ " SCH 80 (27.2Ø X 3.9t)
100 $\frac{3}{8}$ " SCH 80 (17.3Ø X 3.2t) **600** $\frac{1}{2}$ " SCH 160 (21.7Ø X 4.7t)
200 $\frac{1}{2}$ " SCH 40 (21.7Ø X 2.8t) **700** $\frac{1}{8}$ " SCH 80 (10.5Ø X 2.4t),
300 $\frac{1}{2}$ " SCH 80 (21.7Ø X 3.7t) (Only available with pig tail type)
400 $\frac{3}{4}$ " SCH 40 (27.2Ø X 2.9t) **800** None

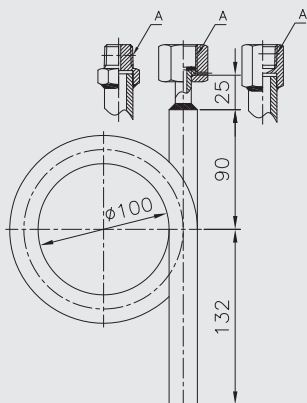
1	2	3	4	5	6	7	8	9	10
A030	B	C	0	A	B	C	A	KA	000

Sample
ordering code

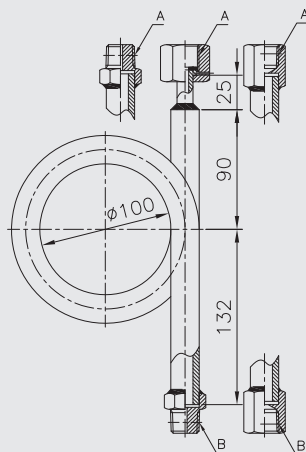
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A030 : Type of mounting (1/3)

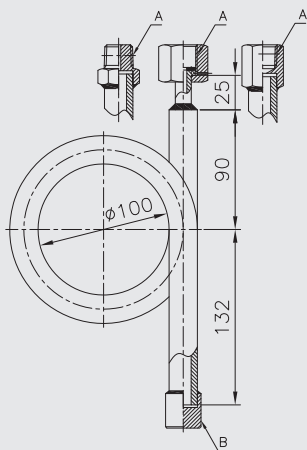
Code B



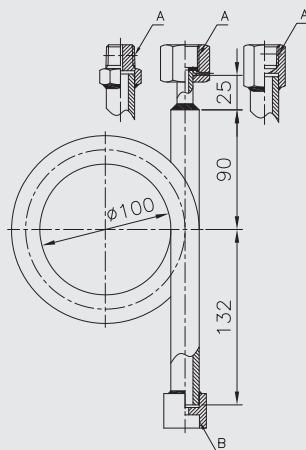
(Pipe Welding)



(Thread)

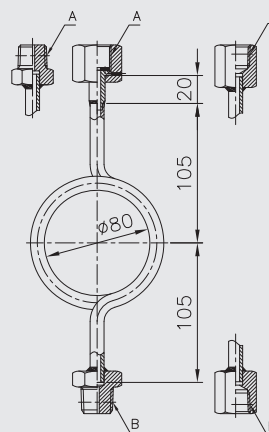


(S.W <M>)



(S.W <F>)

Code C



Dimensions (mm)

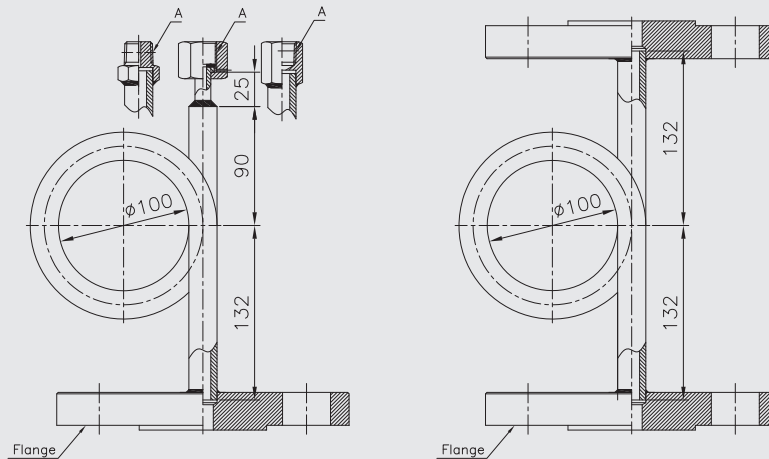
Type	Pipe		A	B
B	Standard	Size(O.D, thickness)		P.E (M)
	3/8"(8A)	ø17.14(ø17.3)	PF 3/8	P.E (F)
	SCH.40, SCH.80	2.31t(2.3t), 3.2t(3.2t)	PF 1/2	PF 3/8
			PT 3/8	PF 1/2
	1/2"(15A)	ø21.33(ø21.7)	PT 1/2	PT 3/8
	SCH.40, SCH.80	2.76t(2.9t), 3.73t(3.9t)	NPT 3/8	PT 1/2
C	ø10.5 X 2.4t		NPT 1/2	NPT 3/8
				NPT 1/2

* NOTE

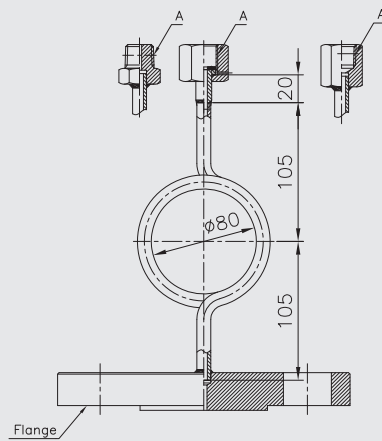
1. The shown in dimensions when the screw is " PF " type

A030 : Type of mounting (2/3)

Code B



Code C



Dimensions (mm)

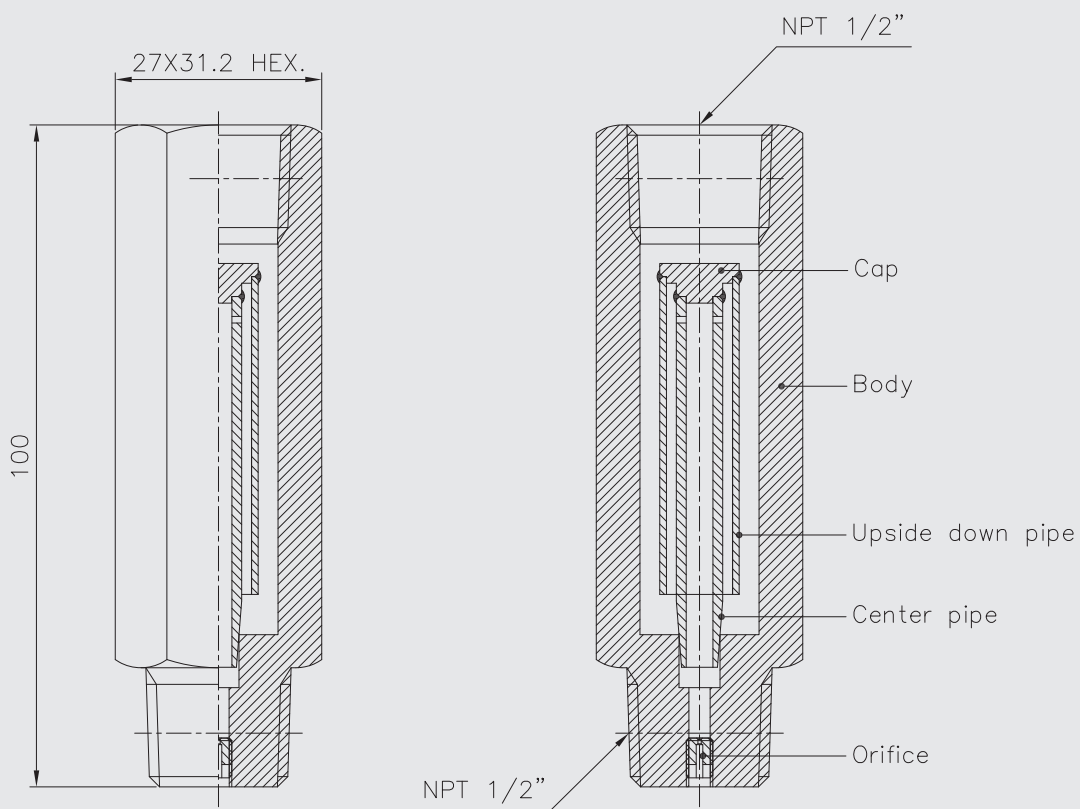
Type	Pipe		A	Flange rating			
	Standard	Size(O.D, thickness)					
B	3/8"(8A)	Ø17.14(Ø17.3)	PF 3/8	JIS	10,16,20, 30,40K	15,20,25, 32,40,50A	FF
	SCH.40, SCH.80	2.31t(2.3t), 3.2t(3.2t)	PF 1/2				RF
	1/2"(15A)	Ø21.33(Ø21.7)	PT 3/8	B16.5 Class 150, 300 (JPI)	1/2,3/4,1, 1 1/4,1 1/2,2B		FF
	SCH.40, SCH.80	2.76t(2.9t), 3.73t(3.9t)	PT 1/2				RF
C	Ø10.5 X 2.4t		NPT 3/8 NPT 1/2				

* NOTE

1. The shown in dimensions when the screw is " PF " type

A030 : Type of mounting (3/3)

Code M



Pulsation dampener

Model : A040

Spec. sheet no. AD00-04

Service intended

It is used for reducing the pressure pulsation flowing from pump or air compressor in order to facilitate pressure gauge reading.

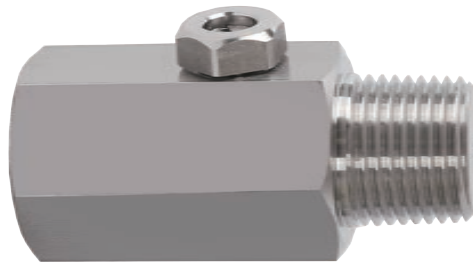
CE CRN

Standard features

Max. working temperature : 232 °C

Packing : PTFE (-54 ~ 232 °C)

Max. static pressure up to 35 MPa



※ This product's Max. working temperature could be varied depending on its working pressure and temperature.

Main order

Ordering information

1. Base model

A040 Pulsation dampener

2. Unused type

A None

3. Material

D 316SS
F 316L SS
G Monel
Z Other

4. Gauge connection size

0 1/4"
1 3/8"
2 1/2"
9 Other

5. Gauge connection type

A PF (F)
B PT (F)
C NPT (F)
Z Other

6. Process connection size

B 1/4"
C 3/8"
D 1/2"
Z Other

7. Process connection type

G PF (M)
H PT (M)
J NPT (M)
Z Other

8. Unused character

A0000 None

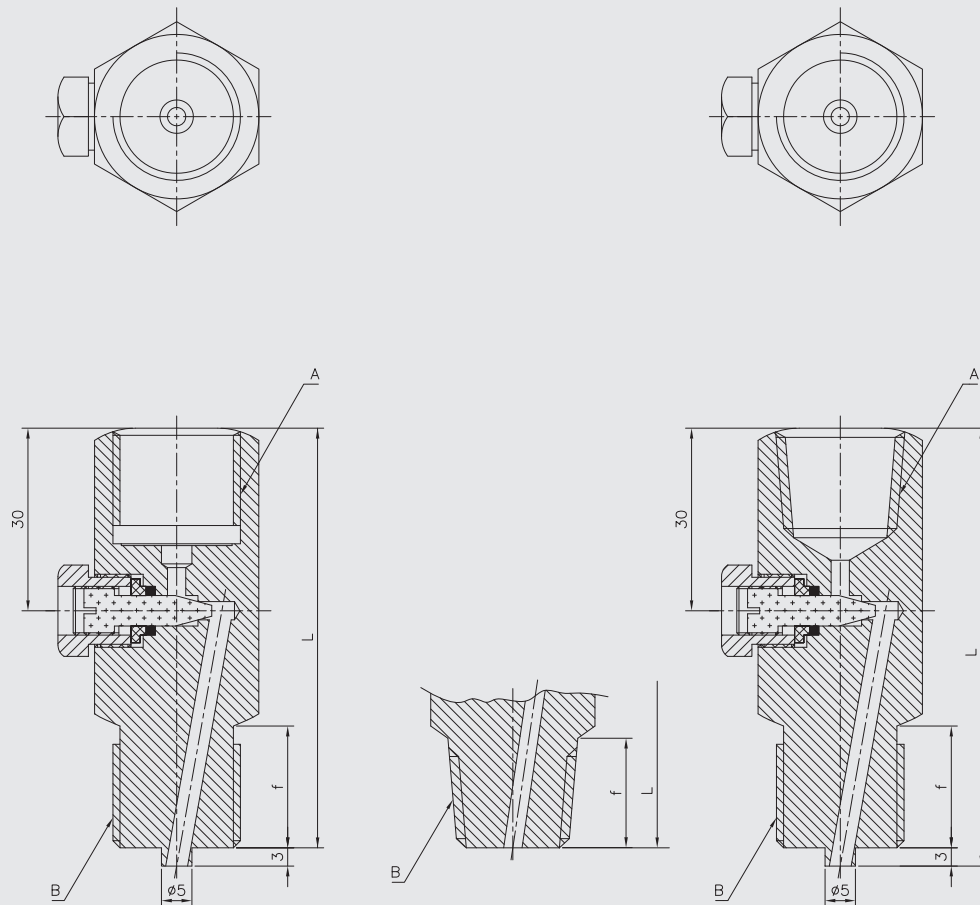
1	2	3	4	5	6	7	8
A040	A	D	0	A	B	G	A0000

Sample
ordering code

WISE®

| 561

A040 : Type of mounting



Dimensions (mm)

A	B	f	L
PF3/8	PF3/8	18	63
	PF1/2	20	63
PF1/2	NPT3/8	16	63
	NPT1/2	18	63
NPT3/8	PF3/8	18	63
	PF1/2	20	63
NPT1/2	NPT3/8	16	63
	NPT1/2	18	63

Snubber

Model : A050

Spec. sheet no. **AD00-05**

Service intended

It is used for suppressing the effect of pressure pulse and pressure spike. It features the adjustable needle valve to restrict the flow as operating conditions may demand.

CRN

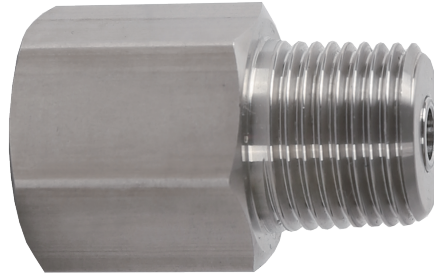
Standard features

Max. working pressure

Stainless steel : Up to 160 MPa, at 20 °C, G½"

ASME B1.1 Appendix B

Max. working temperature : -10 to 120 °C



※ This product's Max. working temperature could be varied depending on its working pressure and temperature.

Main order

Ordering information

1. Base model

A050 Snubber

2. Unused type

A None

3. Material

D 316SS
F 316L SS
Z Other

4. Gauge connection size

0 ¼"
1 ⅜"
2 ½"
9 Other

5. Gauge connection type

A PF (F)
B PT (F)
C NPT (F)
Z Other

6. Process connection size

B ¼"
C ⅜"
D ½"
Z Other

7. Process connection type

G PF (M)
H PT (M)
J NPT (M)
Z Other

8. Unused character

A0000 None

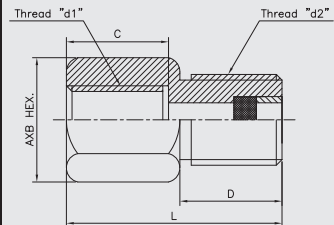
1	2	3	4	5	6	7	8
A050	A	D	0	A	C	G	A0000

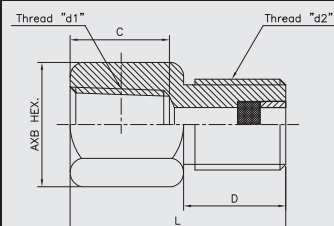
Sample
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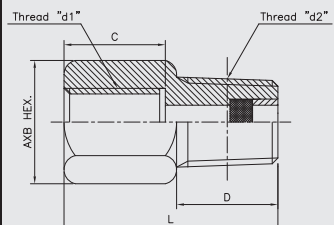
WISE®

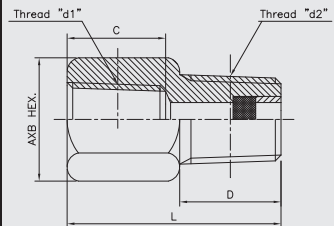
| 557

A050 : Type of mounting

	d1	d2	d1 x d2	L	C	D	AXB HEX.	Ordering code (7 th and 10 th characters)	
	PF1/4	PF1/4	PF1/4 X PF1/4	36		16	19X21.9	0ABG	
	PF1/4	PF3/8	PF1/4 X PF3/8	40	16	18		0ACG	
	PF1/4	PF1/2	PF1/4 X PF1/2	42		20	27X31.2	0ADG	
	PF3/8	PF1/4	PF3/8 X PF1/4	39		16	27X31.2	1ABG	
	PF3/8	PF3/8	PF3/8 X PF3/8	41	18	18		1ACG	
	PF3/8	PF1/2	PF3/8 X PF1/2	43		20		1ADG	
	PF1/2	PF1/4	PF1/2 X PF1/4	40		16	27X31.2	2ABG	
	PF1/2	PF3/8	PF1/2 X PF3/8	42	20	18		2ACG	
	PF1/2	PF1/2	PF1/2 X PF1/2	44		20		2ADG	

	d1	d2	d1 x d2	L	C	D	AXB HEX.	Ordering code (7 th and 10 th characters)	
	PF1/4	(N)PT1/4	PF1/4 X (N)PT1/4	36		14	19X21.9	NPT TYPE	PT TYPE
	PF1/4	(N)PT3/8	PF1/4 X (N)PT3/8	38	16	16		0ABJ	0ABH
	PF1/4	(N)PT1/2	PF1/4 X (N)PT1/2	40		18	27X31.2	0ACJ	0ACH
	PF3/8	(N)PT1/4	PF3/8 X (N)PT1/4	38		14	27X31.2	0ADJ	0ADH
	PF3/8	(N)PT3/8	PF3/8 X (N)PT3/8	40	18	16		1ABJ	1ABH
	PF3/8	(N)PT1/2	PF3/8 X (N)PT1/2	42		18		1ACJ	1ACH
	PF1/2	(N)PT1/4	PF1/2 X (N)PT1/4	38		14	27X31.2	1ADJ	1ADH
	PF1/2	(N)PT3/8	PF1/2 X (N)PT3/8	40	20	16		2ABJ	2ABH
	PF1/2	(N)PT1/2	PF1/2 X (N)PT1/2	42		18		2ACJ	2ACH

	d1	d2	d1 x d2	L	C	D	AXB HEX.	Ordering code (7 th and 10 th characters)	
	(N)PT1/4	PF1/4	(N)PT1/4 X PF1/4	37		16	19X21.9	NPT TYPE	PT TYPE
	(N)PT1/4	PF3/8	(N)PT1/4 X PF3/8	39	14	18		0CBG	0BBG
	(N)PT1/4	PF1/2	(N)PT1/4 X PF1/2	41		20	27X31.2	0CCG	0BCG
	(N)PT3/8	PF1/4	(N)PT3/8 X PF1/4	39		16	27X31.2	0CDG	0BDG
	(N)PT3/8	PF3/8	(N)PT3/8 X PF3/8	41	16	18		1CBG	1BBG
	(N)PT3/8	PF1/2	(N)PT3/8 X PF1/2	43		20		1CCG	1BCG
	(N)PT1/2	PF1/4	(N)PT1/2 X PF1/4	41		16	27X31.2	1CDG	1BDG
	(N)PT1/2	PF3/8	(N)PT1/2 X PF3/8	43	18	18		2CBG	2BBG
	(N)PT1/2	PF1/2	(N)PT1/2 X PF1/2	45		20		2CCG	2BCG

	d1	d2	d1 x d2	L	C	D	AXB HEX.	Ordering code (7 th and 10 th characters)	
	(N)PT1/4	(N)PT1/4	(N)PT1/4 X (N)PT1/4	34		14	19X21.9	NPT TYPE	PT TYPE
	(N)PT1/4	(N)PT3/8	(N)PT1/4 X (N)PT3/8	36	14	16		0CBJ	0BBH
	(N)PT1/4	(N)PT1/2	(N)PT1/4 X (N)PT1/2	38		18	27X31.2	0CCJ	0BCH
	(N)PT3/8	(N)PT1/4	(N)PT3/8 X (N)PT1/4	36		14	27X31.2	0CDJ	0BDH
	(N)PT3/8	(N)PT3/8	(N)PT3/8 X (N)PT3/8	38	16	16		1CBJ	1BBH
	(N)PT3/8	(N)PT1/2	(N)PT3/8 X (N)PT1/2	40		18		1CCJ	1BCH
	(N)PT1/2	(N)PT1/4	(N)PT1/2 X (N)PT1/4	40		14	27X31.2	1CDJ	1BDH
	(N)PT1/2	(N)PT3/8	(N)PT1/2 X (N)PT3/8	42	18	16		2CBJ	2BBH
	(N)PT1/2	(N)PT1/2	(N)PT1/2 X (N)PT1/2	44		18		2CCJ	2BCH

Condensing pot

Model : A060

Spec. sheet no. AD00-06

Service intended

It is used for protecting the pressure instruments from the effect of hot process media like steam. It is used for the same purpose as Syphon tube, and mainly, it can be used with pressure transmitter or differential pressure transmitter.

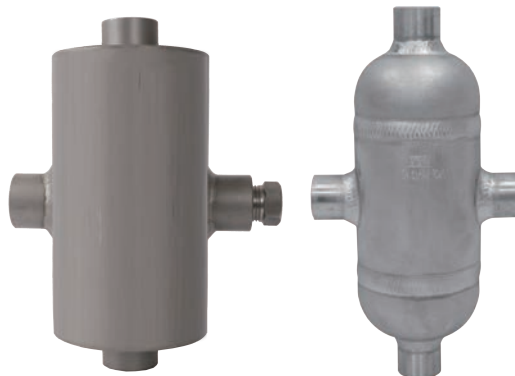
Standard features

Max. working pressure

Stainless steel : Up to 10 MPa at 20 °C

(Only available with globe type)

※ This product's Max. working temperature could be varied depending on its working pressure and temperature.



Flat type

Globe type

Main order

1. Base model

A060 Condensing pot

2. Pot type

- A Flat type
- B Globe A
- C Globe B

3. Material

- B Carbon steel
- C 304SS
- D 316SS
- F 316L SS
- Z Other

4. Gauge connection size

- 2 1/2"
- 3 3/4"
- 9 Other

5. Gauge connection type

- B PT (F)
- C NPT (F)
- M S.W (F)
- Z Other

6. Process connection size

- D 1/2"
- E 3/4"
- Z Other

7. Process connection type

- B PT (F)
- C NPT (F)
- M S.W (F)
- Z Other

8. Shapes designator type

- X Refer to connection type

9. Pipe schedule

- 1 3" Sch 40
- 2 3" Sch 80
- 3 3" Sch 160
- Z Other

10. Unused character

- A00 None

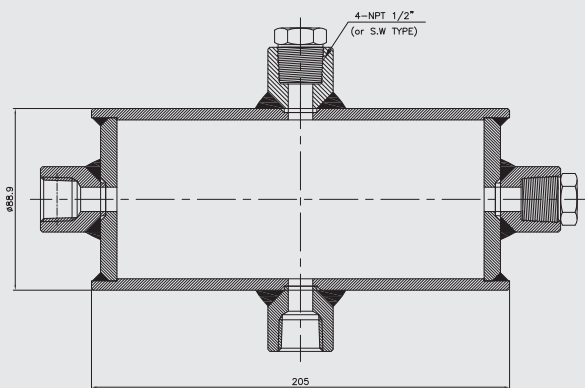
1	2	3	4	5	6	7	8	9	10
A060	A	B	2	B	D	B	X	2	A00

Sample
ordering code

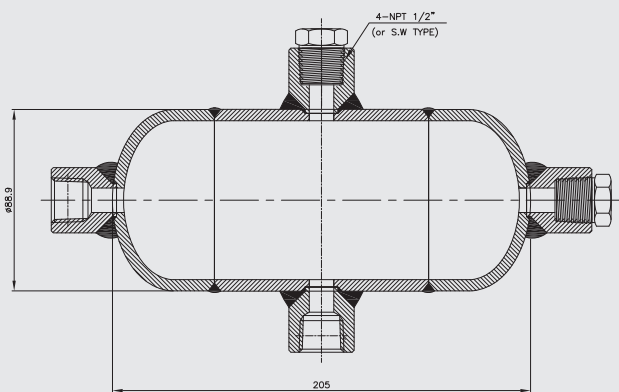
WISE[®]

| 565

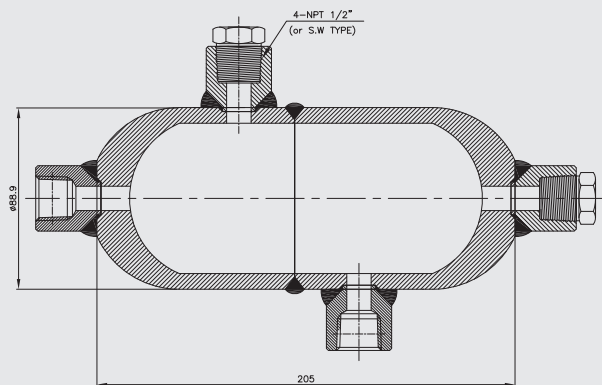
A060 : Type of mounting



A. Flat type



B. Globe type A



C. Globe type B

Shapes designator type

	TYPE - A
	TYPE - B
	TYPE - C
	TYPE - D
	TYPE - E
	TYPE - F

Size	MATERIAL					
3" SCH.40	304SS	316SS	316LSS	C.S	A182 F91	A182 F11
3" SCH.80						
3" SCH.160						

Gauge protector

Model : A070

Spec. sheet no. AD00-07

Service intended

It is used for protecting the gauges from over pressure.
The gauge protector closes at the adjusted set-point pressure.

CE CRN

Accuracy

±10% of setting pressure

Standard features

Max. working pressure

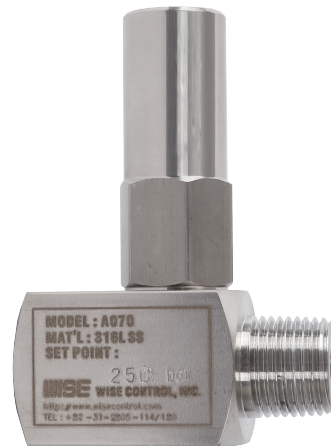
Stainless steel

- Code M, N, H, U : Up to 25 MPa, at 20 °C, G½"
- Code B, P, L : Up to 10 bar, at 20 °C, G½"

Max. working temperature

80 °C

※ This product's Max. working temperature could be varied depending on its working pressure and temperature.



Main order

Ordering information

1. Base model

A070 Gauge protector

2. Pressure

- B** 1 ~ 3 kPa
- P** 3 ~ 15 kPa
- L** 15 ~ 50 kPa
- M** 40 ~ 60 kPa
- N** 60 kPa ~ 0.3 MPa
- H** 0.3 ~ 4 MPa
- U** 4 ~ 25 MPa

3. Material

- D** 316SS
- F** 316L SS
- G** Monel
- H** Hastelloy-C
- Z** Other

4. Gauge connection size

- 1** 3/8"
- 2** 1/2"
- 9** Other

5. Gauge connection type

- A** PF
- B** PT
- C** NPT
- G** BSP (G)
- Z** Other

6. Process connection size

- C** 3/8"
- D** 1/2"
- Z** Other

7. Process connection type

- G** PF
- H** PT
- I** BSP (G)
- J** NPT
- Z** Other

8. Unused character

A0000 None

1	2	3	4	5	6	7	8
A070	P	D	1	A	C	G	A0000

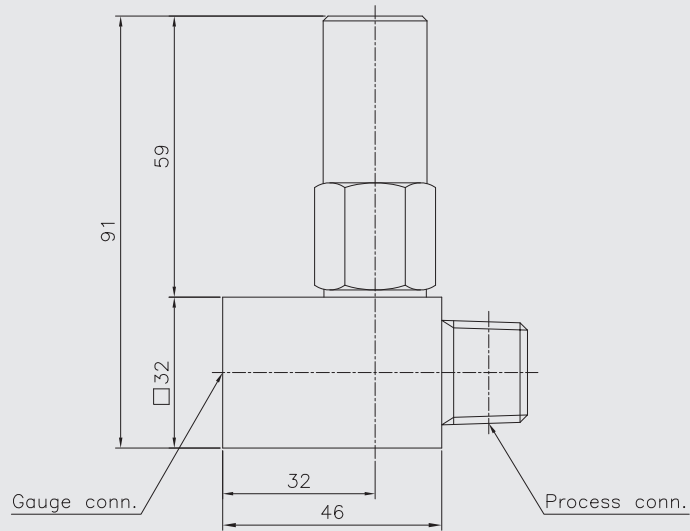
Sample
ordering code

WISE®

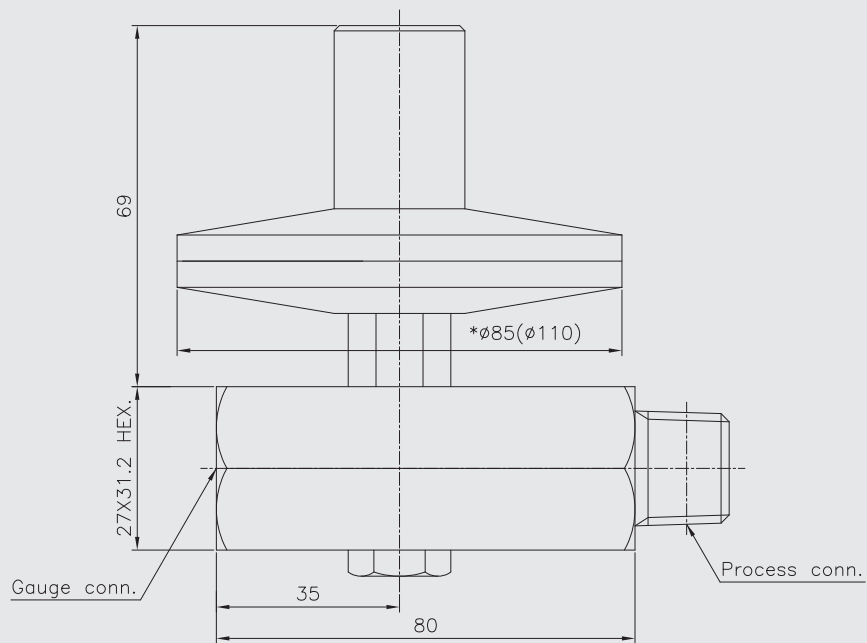
| 561

A070 : Type of mounting

Code M, N, H, U



Code B, P, L



*NOTE. Pressure 1~3kPa (ø110), 3~50kPa (ø85)

Instrument valve

Model : A080

Spec. sheet no. AD00-08

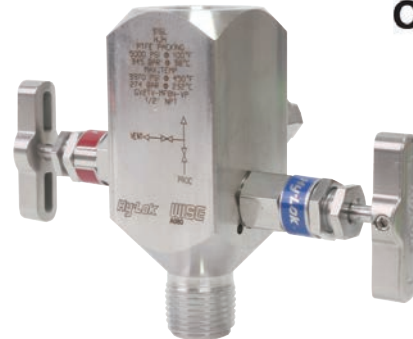
Service intended

It is used for switching flow between one common connection and the other two connections.
It can be used with pressure gauge and pressure transmitter.

Standard features

Max. static pressure up to 41 MPa
Max. working temperature : 232 °C
Packing : PTFE (-54 ~ 232 °C)
Graphite : -54 ~ 648 °C

※ This product's Max. working temperature could be varied depending on its working pressure and temperature.



CRN

Main order

1. Base model

A080 Instrument valve

2. Valve type

- S** Isolation valve
- V** 2-way manifold valve mount type
- W** 2 way manifold valve

3. Gauge connection type

- W** NPT (F)
- M** NPT (M)
- Z** Other

4. Gauge connection size

- 2** 1/4"
- 4** 1/2"
- 5** 3/4"
- 9** Other

5. Process connection type

- W** NPT (F)
- M** NPT (M)
- Z** Other

6. Process connection size

- 2** 1/4"
- 4** 1/2"
- 5** 3/4"
- 9** Other

7. Packing material

- T** PTFE
- G** Graphite
- Z** Other

8. Bleed and plug

- A** None
- B** Bleed
- C** Bleed with plug
- 9** Other

9. Bleed and plug size

- 1** 1/4" NPT (F)
- 2** 1/2" NPT (F)
- 3** No bleed
- Z** Other

10. Material

- B** Hastelloy-C
- H** 316SS
- L** 316L SS
- J** Monel
- Z** Inconel
- T** Other

11. Unused character

- X** All T bar

12. Unused character

- 1** None

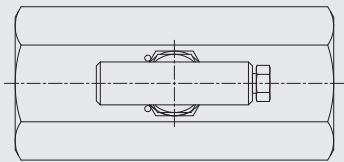
Sample ordering code

1	2	3	4	5	6	7	8	9	10	11	12
A080	S	W	2	W	2	T	A	1	B	X	1

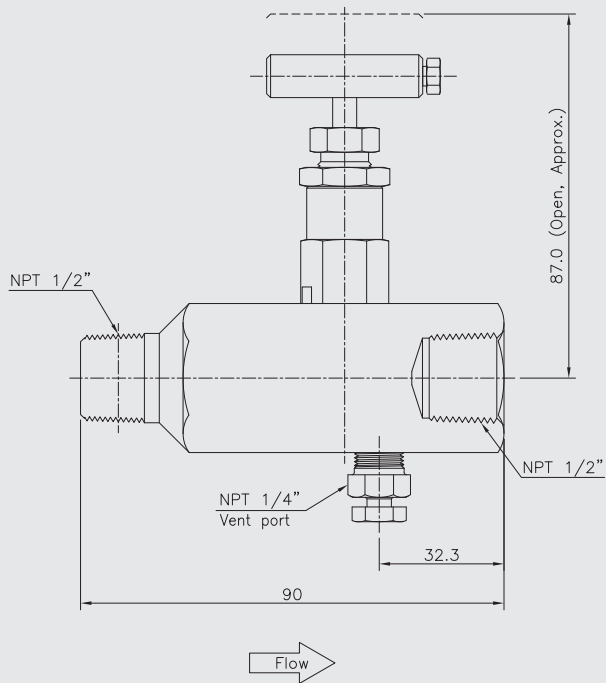
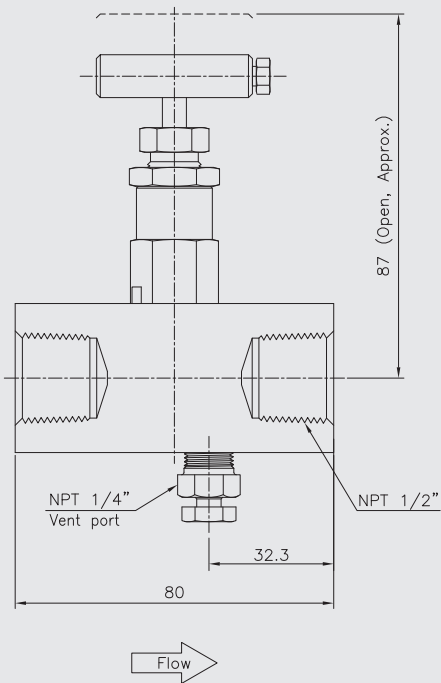
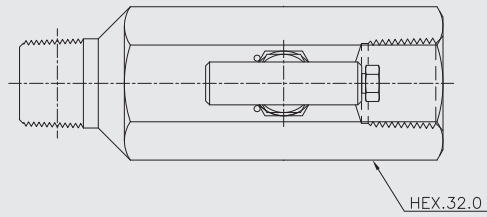
WISE®

A080 : Type of mounting (1/2)

Code S

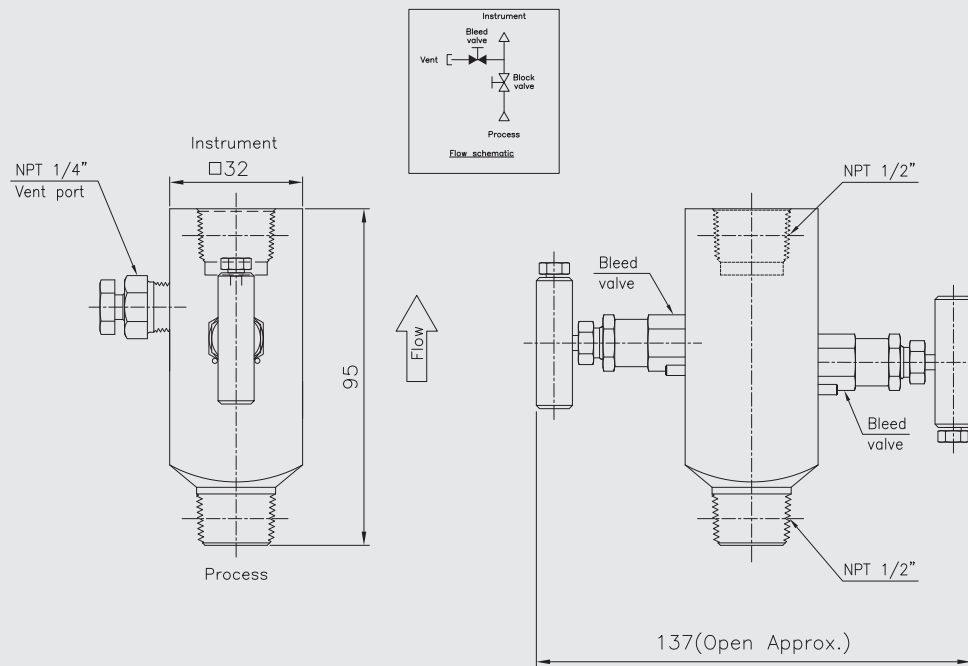


Code S

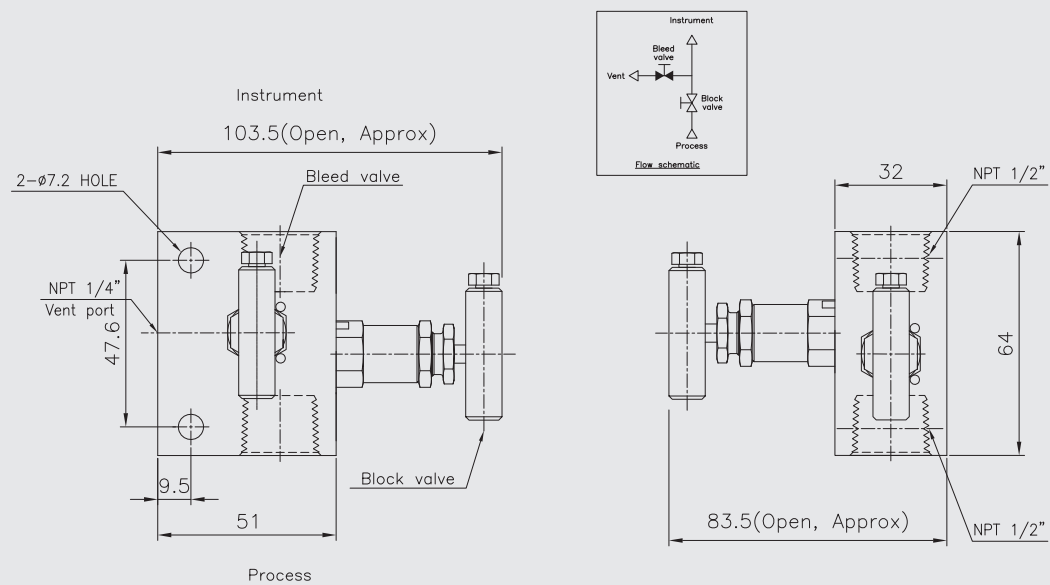


A080 : Type of mounting (2/2)

Code W



Code V



Memo

Instrument manifold valve

Model : A080

Spec. sheet no. AD00-09

Service intended

It is used for switching flow between one common connection and the other two connections.
The instrument manifold valve is applied to a differential pressure gauge and a differential pressure transmitter.

CRN

Standard features

Max. static pressure up to 41 MPa
Max. working temperature : 240 °C
Packing : PTFE (-54 ~ 232 °C)
Graphite : -54 ~ 648 °C



※ This product's Max. working temperature could be varied depending on its working pressure and temperature.

Main order

1. Base model

A080 Instrument manifold valve

2. Manifold type

T 3 way
F 5 way

3. Mounting type

- 1** 3 or 5 way remote mounting pipe to pipe
- 2** 3 or 5 way remote mounting pipe to pipe w/vent port
- 3** 3 or 5 way direct mounting pipe to flange
- 4** 3 or 5 way direct mounting pipe to flange w/vent port
- 5** 3 way direct mounting pipe to flange, tee section
- 6** 3 or 5 way direct mounting flange to flange
- 7** 3 or 5 way direct mounting flange to flange
(Only available with Transmitter)
- Z** Other

4. Material

- B** 316SS
- C** 316L SS (Not available with Transmitter)
- D** Monel (Not available with Transmitter)
- E** Inconel (Not available with Transmitter)
- Z** Other

5. Packing material

- 2** PTFE
- 4** Graphite

6. Connection

- 1** 1/4" NPT (Not available with Transmitter)
- 2** 1/2" NPT
- Z** Other

7. Handle

- 1** T bar
- 9** Other

8. Unused character

A0000 None

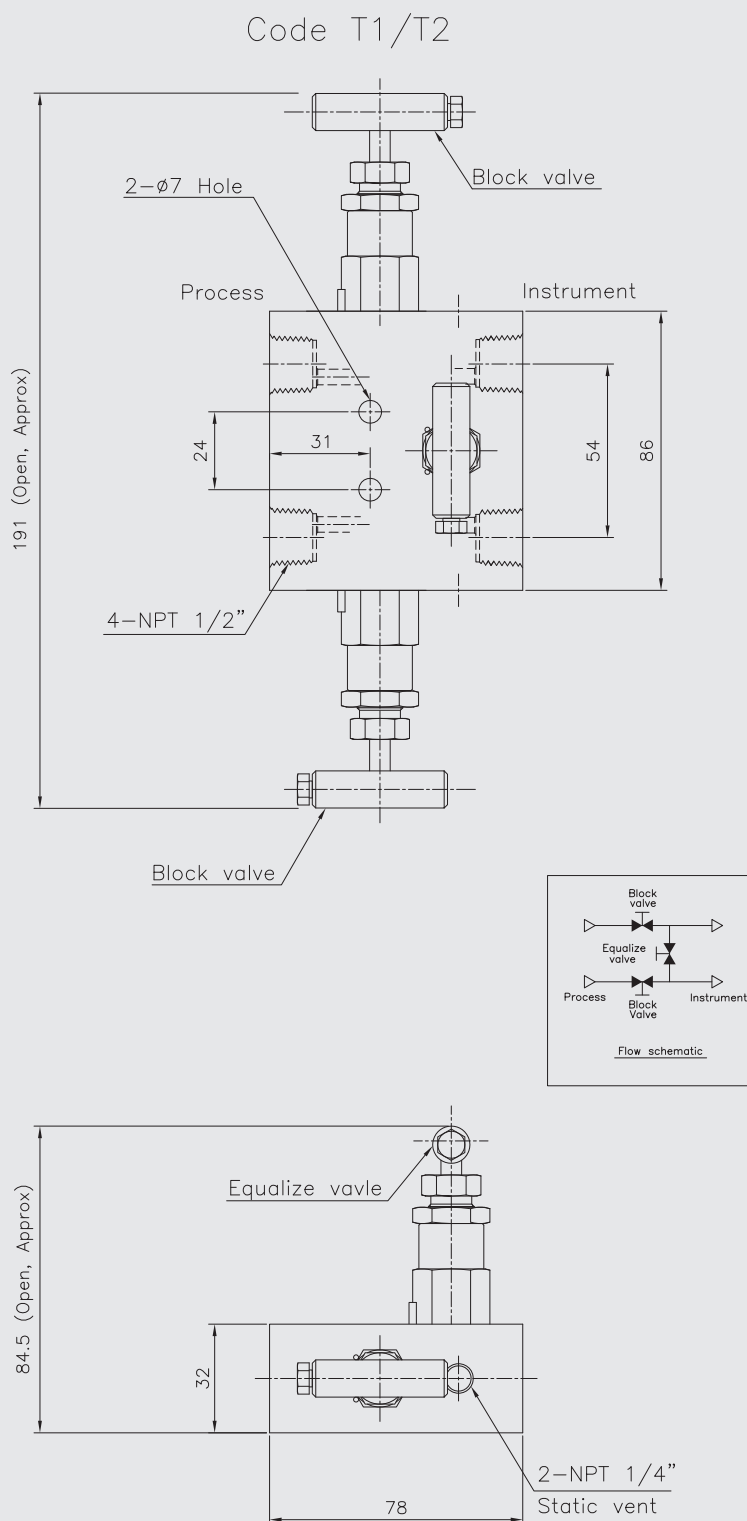
1	2	3	4	5	6	7	8
A080	T	1	B	2	1	1	A0000

Sample
ordering code

WISE®

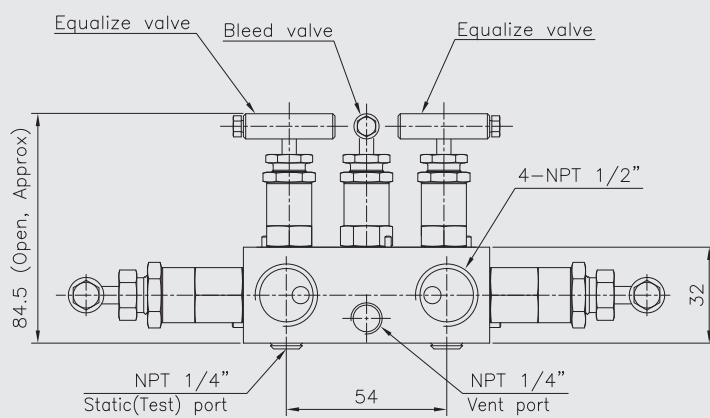
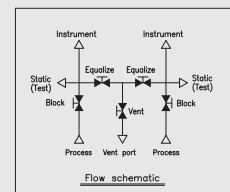
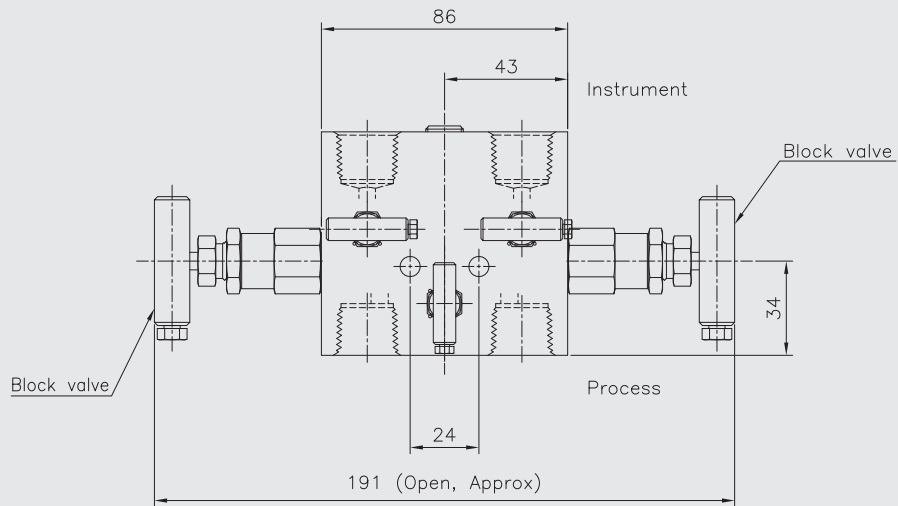
| A080TF_01

A080 : Type of mounting (1/2)

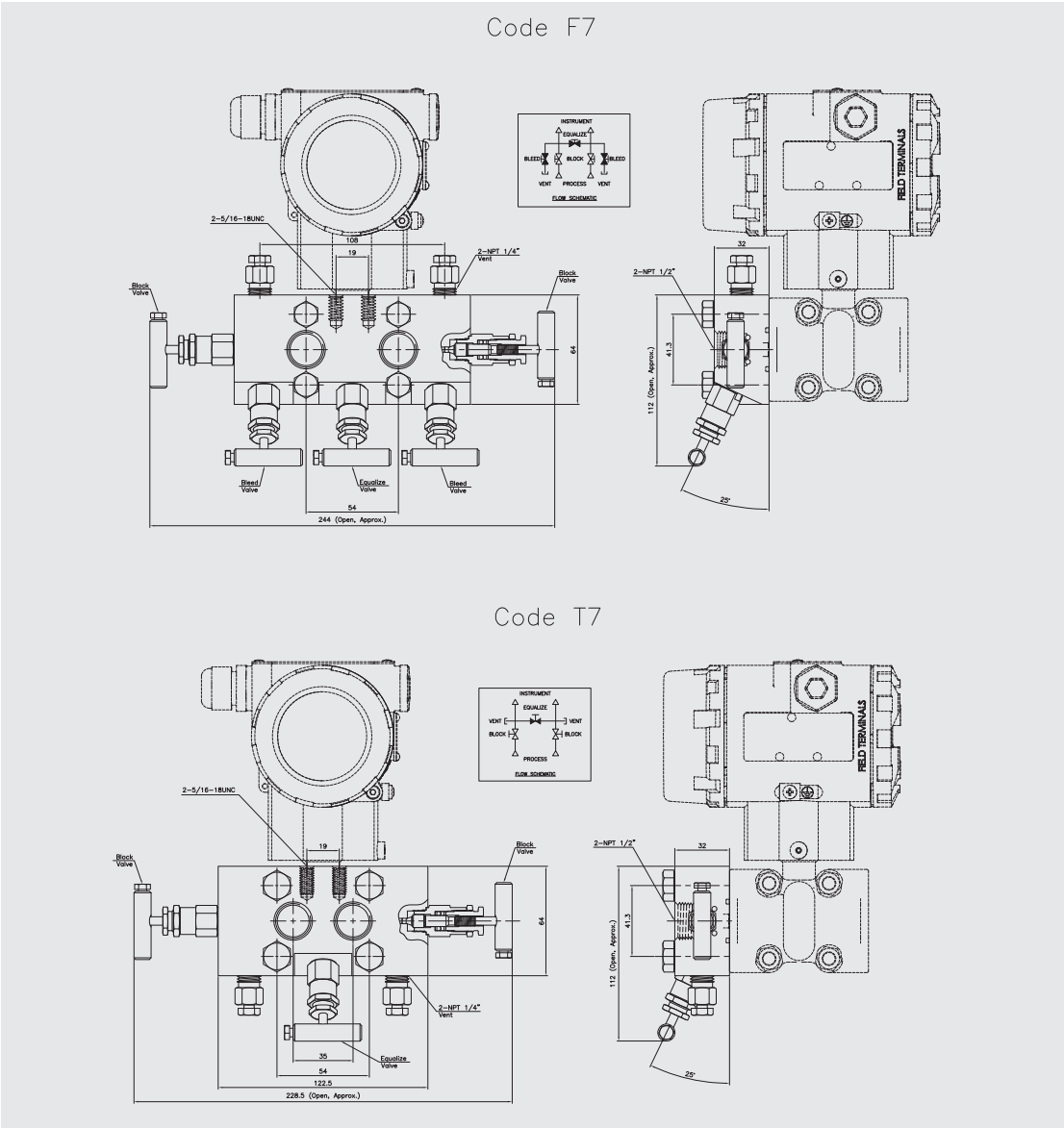


A080 : Type of mounting (2/2)

Code F2



A080 : Type of mounting (3/3)



Conversion table

Pressure conversion chart

psi	atm	kgf/cm ²	inH ₂ O	mmHg	inHg	kPa	bar	mmH ₂ O
1	0.068046	0.070307	27.7276	51.715	2.03602	6.835	0.06895	704.28104
14.696	1	1.0332	407.484	760	29.921	101.325	1.01325	10350.0936
14.2233	0.96784	1	394.38	735.559	28.959	98.096	0.98067	10,000
0.036092	0.002454	0.00253	1	1.8651	0.07343	0.249	0.00249	25.4
0.019336	0.001315	0.001359	0.53616	1	0.03937	0.1333	0.001333	13.618464
0.491154	0.0033421	0.03453	13.6185	25.4	1	3.3864	0.033864	345.9099
0.145	0.00987	0.010197	4.0186	7.5006	0.2953	1	0.01	102.07244
14.5038	0.98692	1.01972	402.156	750.062	29.53	100	1	10214.7624
0.00142	0.000097	0.0001	0.03937	0.0734	0.0029	0.0098	0.000098	1



Sunshade

Model : A090

Spec. sheet no. AD00-10

Service intended

Sunshade provides the protection for instruments. It prevents the instrument calibration drift due to temperature changes caused by solar radiation. It can be mounted on a typical 2 inch stanchion pipe and it can be removed easily for full instrument access.

Application

Simple shielding of enclosures, instruments and fittings providing protection against

- Sun light
- Dirt accumulation
- Exposure to atmospheric conditions

Features

- Reduces the surface temperature of instruments or enclosure
- Minimizes instrument drift
- Operating temperature: -15~100 °C
- UV coating



Standard features

Type of sunshade (W x D x H)mm

SS230 (230 x 370 x 125)
SS280 (280 x 350 x 125)
SS300 (300 x 350 x 170)
SS400 (400 x 400 x 170)
SS410 (410 x 350 x 170)

Main material

- Sunshade
GRP (Glass reinforced plastic), 3.5 t
304SS, 1.5 t
316SS, 1.5 t
Carbon steel, 1.5 t
ABS, Roof and side (3 t)
Rear wall (5 t)
- Bracket
304SS, 316SS and 316L SS

Mounting accessories

Gauge bracket
2" U bolt
Pipe band
Stanchion pipe
Special support plate

Bracket mounting position

Back mounting
Top mounting
2" U bolt mounting
Pipe band mounting
L-type mounting
Special mounting

Option

Anti electrostatic

WISE®

| A090_01

Main order

Ordering information

1. Base model

A090 Sunshade

2. Sunshade type (W x D x H) mm

SS230 230 x 370 x 125

SS280 280 x 350 x 125

SS300 300 x 350 x 170

SS400 400 x 400 x 170

SS410 410 x 350 x 170

SS000 Other

3. Sunshade material

1 GRP

3 304SS

4 316SS

5 Carbon steel

6 ABS, only available with SS280

Z Other

4. Gauge bracket size (mmØ)

0 None

1 90

2 93

3 103

4 130

5 Other

5. Gauge bracket material

0 None

1 304SS

2 316SS

3 316L SS

Z Other

6. Bracket mounting position

0 None

1 Back

2 Top

3 2" U bolt

4 Pipe band

5 L-type

6 Special

7 Special 2" U bolt

Z Other

7. Stanchion pipe

0 None

1 Carbon steel

2 304SS

3 316SS

4 Other

8. Unused character

0 None

1 Anti electrostatic

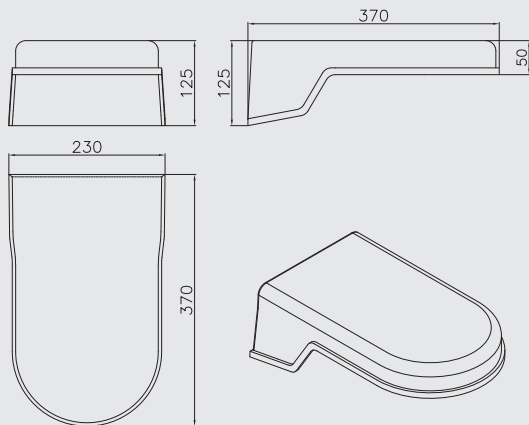
1	2	3	4	5	6	7	8
A090	SS230	1	1	3	1	1	0

Sample
ordering code**WISE**[®]

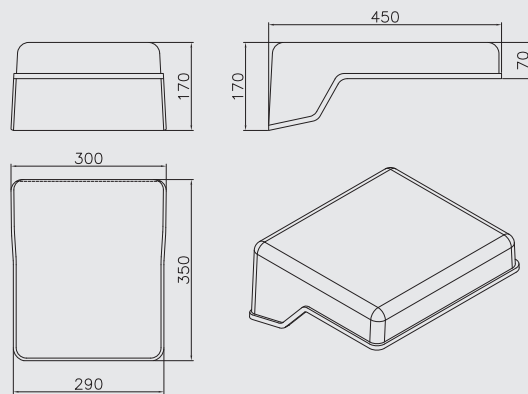
A090_02 |

A090 : Sunshade type and typical size

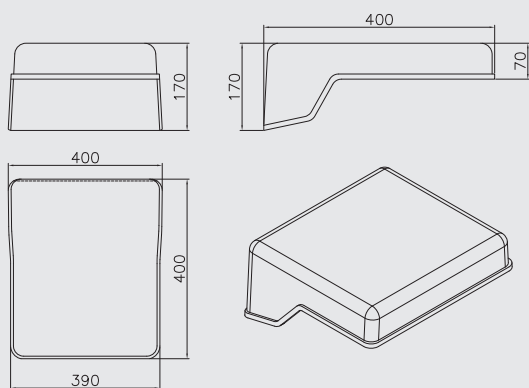
SS230



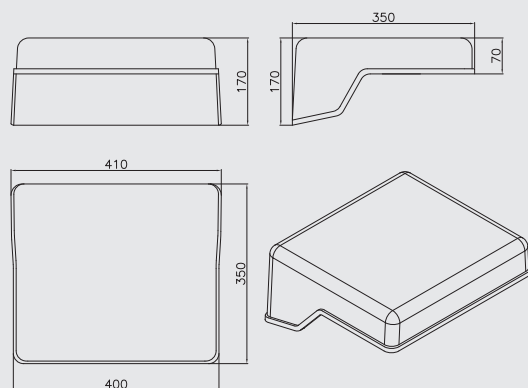
SS300



SS400

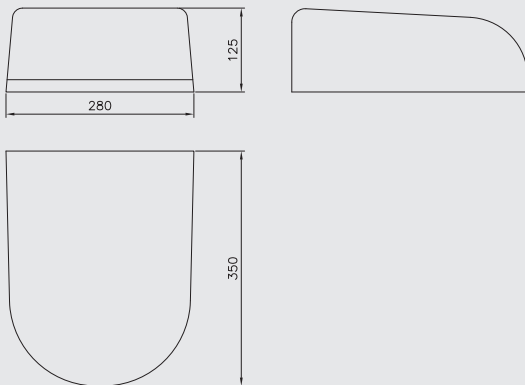


SS410

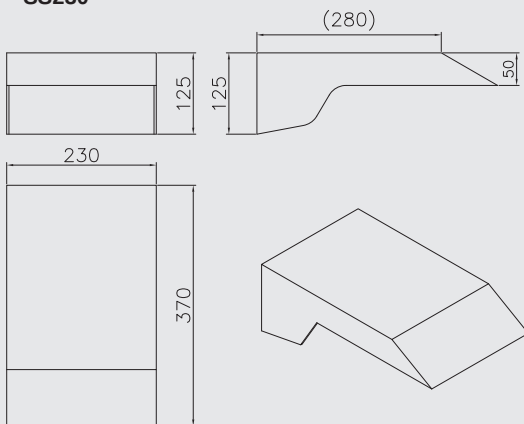


A090 : Sunshade type and typical size

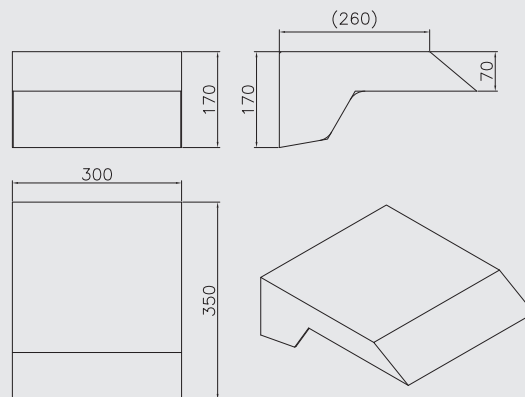
SS280, ABS only



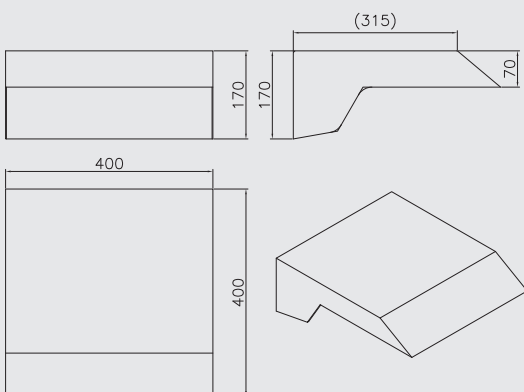
SS230



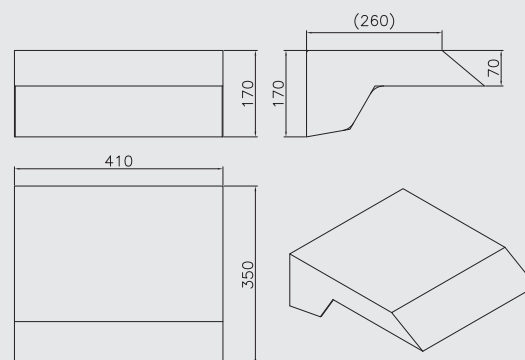
SS300



SS400



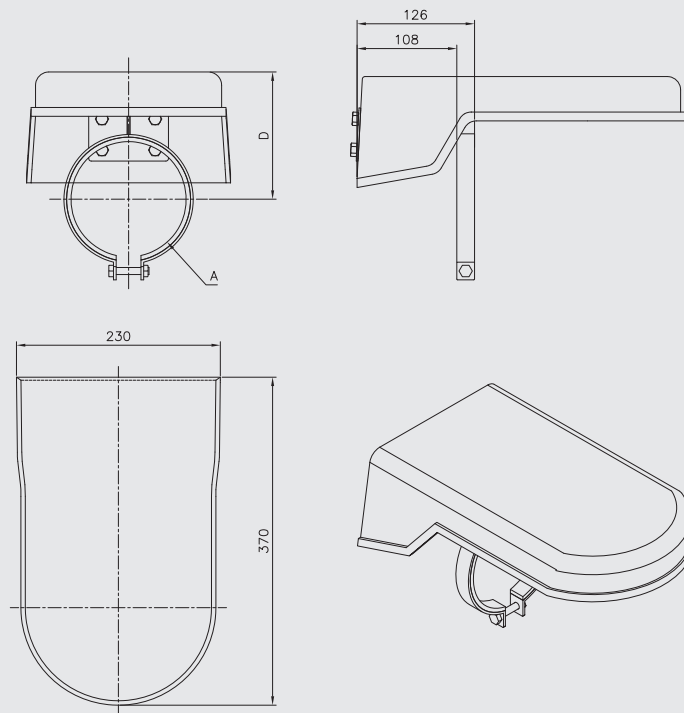
SS410



A090 : Bracket mounting position

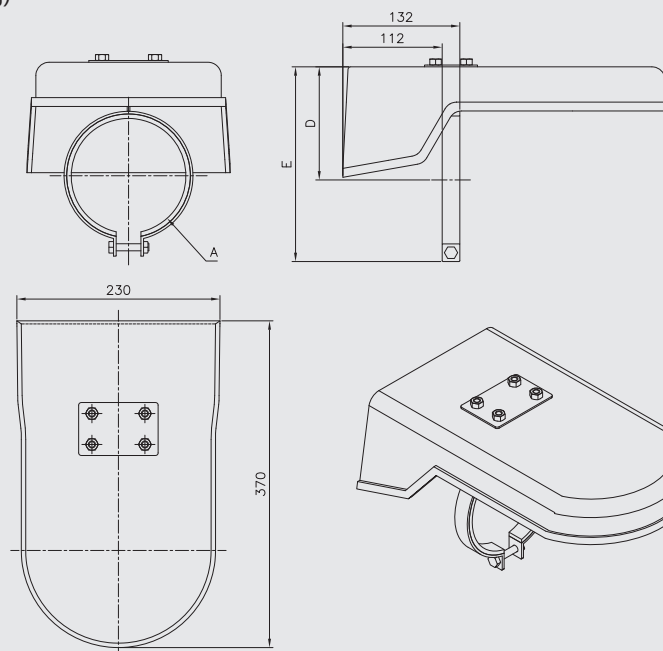
Back mounting

(Total weight $\approx$ 1.5 kg)



Top mounting

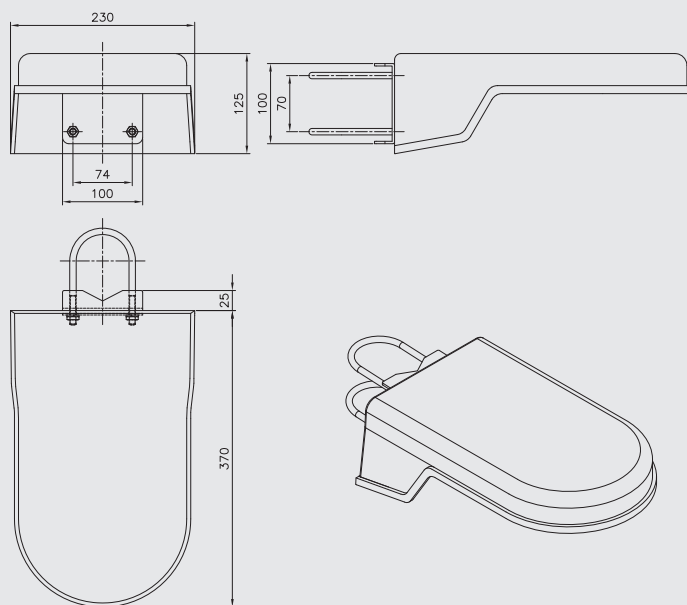
(Total weight $\approx$ 1.55 kg)



A090 : Bracket mounting position

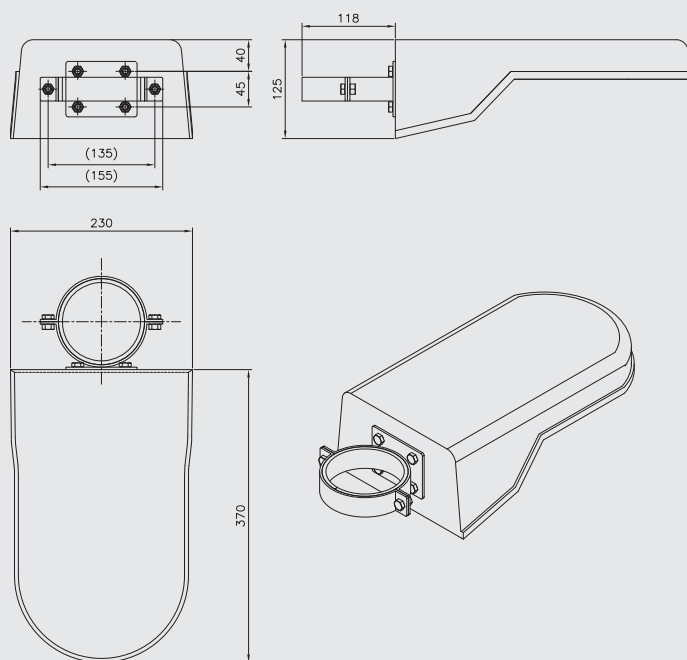
2" U bolt mounting

(Total weight $\approx$ 1.57 kg)



Pipe band mounting

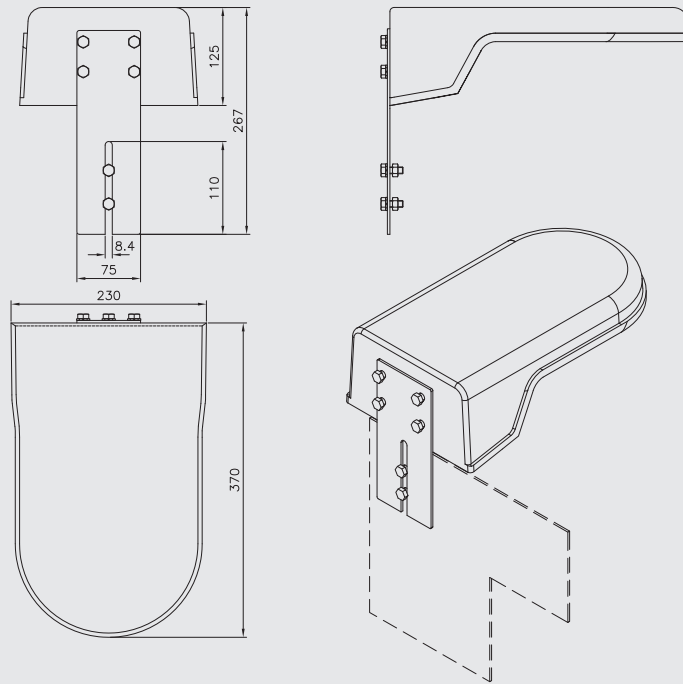
(Total weight $\approx$ 1.5 kg)



A090 : Bracket mounting position

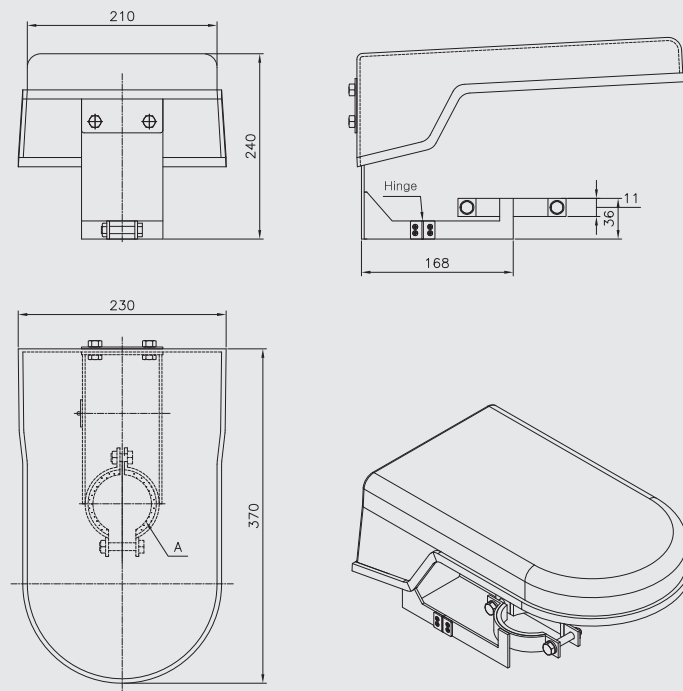
L-type fixed mounting

(Total weight $\approx$ 1.5 kg)



Special mounting

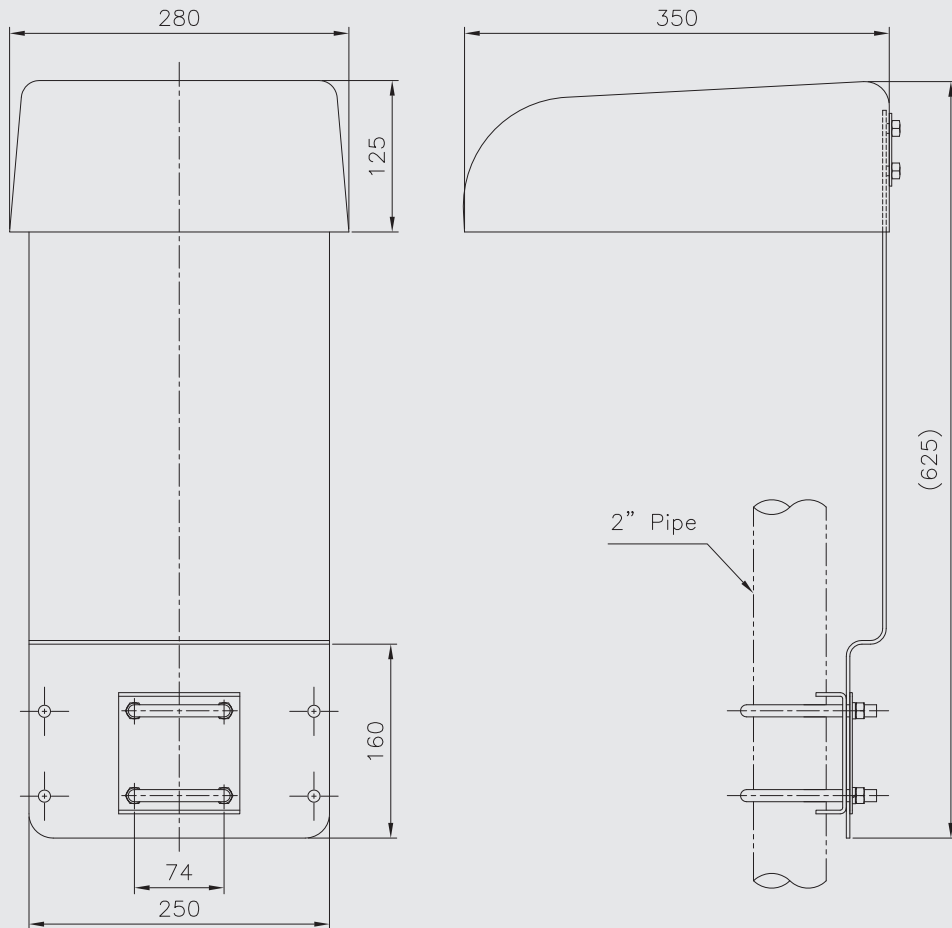
(Total weight $\approx$ 2.2 kg)



A090 : Bracket mounting position

Special 2" U bolt mounting

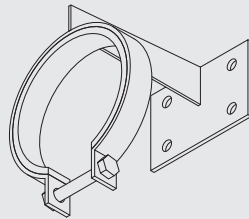
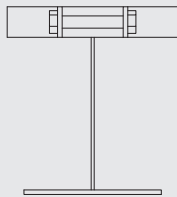
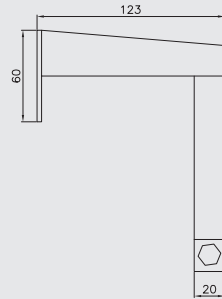
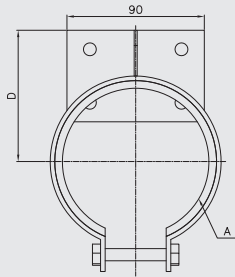
(Total weight $\approx$ 3.8 kg)



A090 : Mounting accessories

1. Gauge bracket

Back mounting

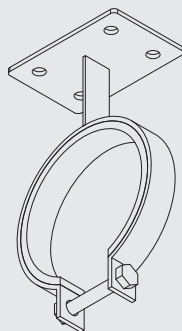
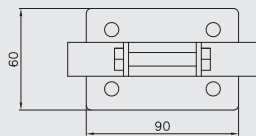
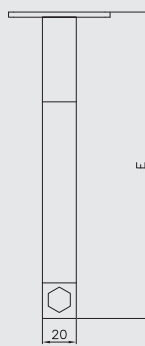
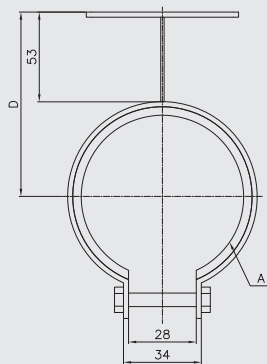


Unit : mm

No.	A	D ±2
1	Ø90	83
2	Ø93	84.5
3	Ø103	88
4	Ø130	103
5	Other	

A : Gauge bracket size

Top mounting



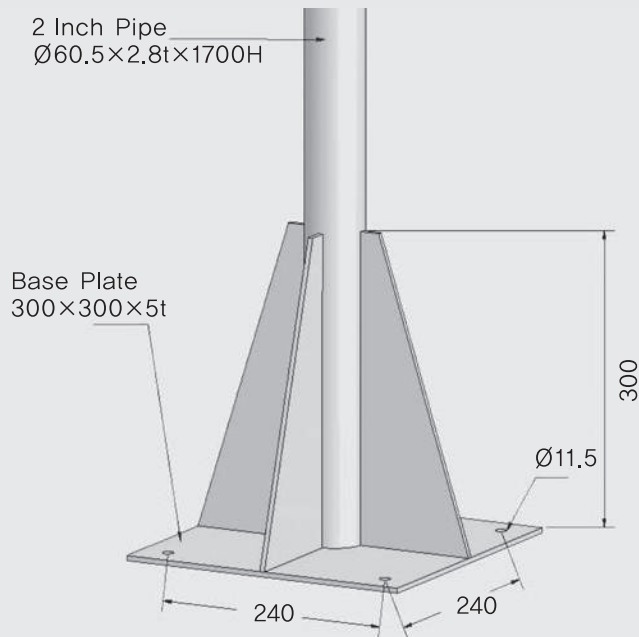
Unit : mm

No.	A	D ±2	E ±2
1	Ø90	106	177
2	Ø93	107	180
3	Ø103	111	187
4	Ø130	126	217
5	Other		

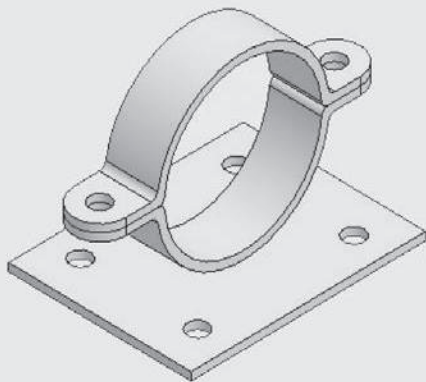
A : Gauge bracket size

A090 : Mounting accessories

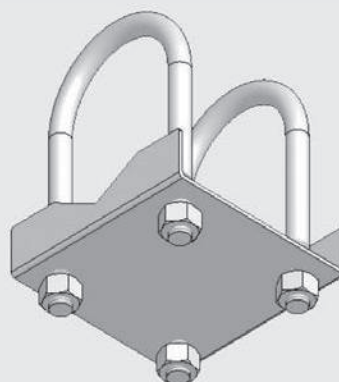
2. Pipe station



3. Pipe mounting bracket



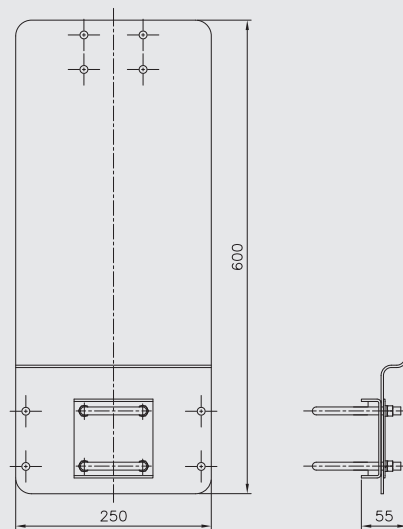
2" pipe band for mounting (PB)



2" U-bolt type shackle for mounting (UB)

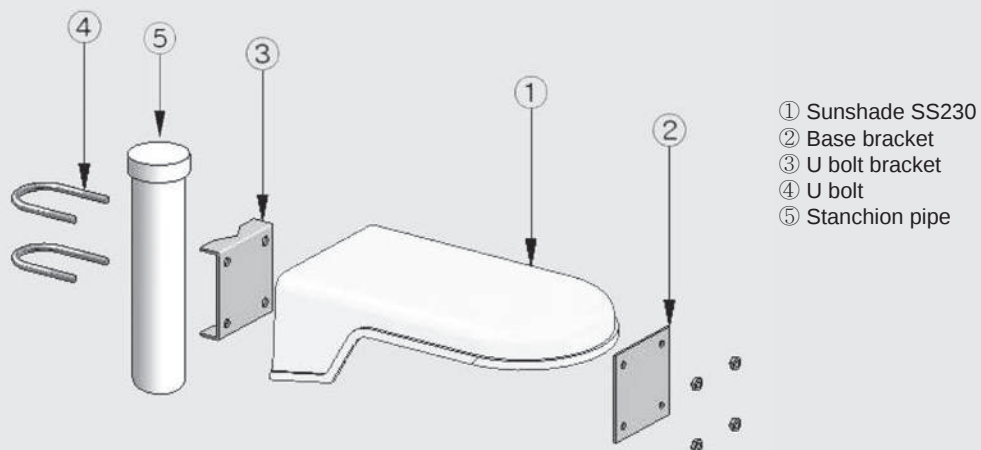
A090 : Mounting accessories

Special 2" U bolt bracket (Fe-Hot dip galvanized)

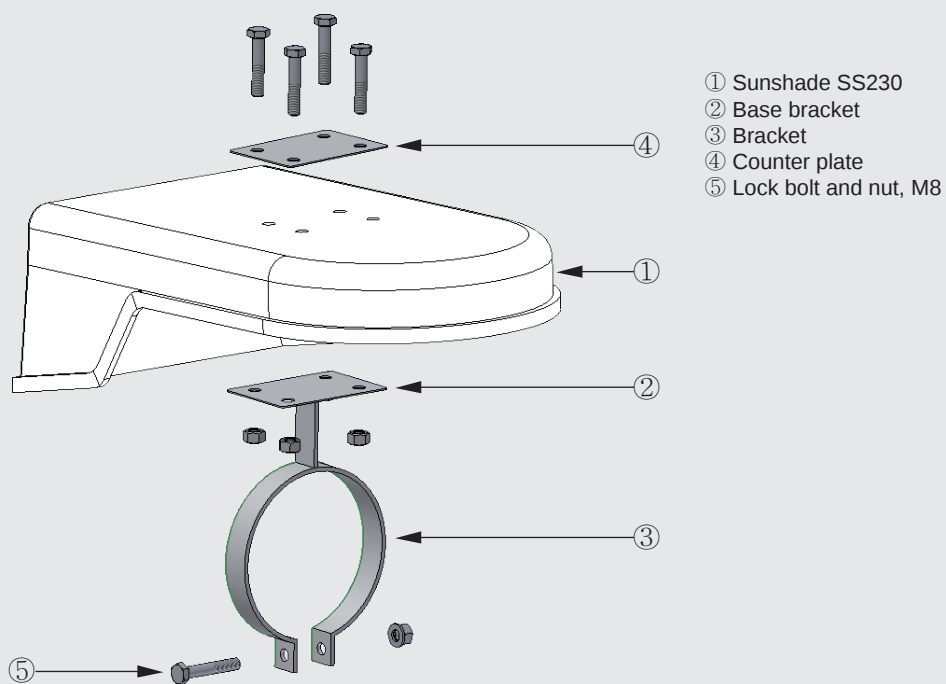


A090 : Mounting example

1. 2" U bolt mounting



2. Top mounting



Flushing ring

Model : A100

Spec. sheet no. AD01-01

Service intended

Flushing Ring is designed to be used with a flange, pancake, or inline diaphragm seals. The flushing ring have two lateral NPT ports to flush out the collected process medium adjacent to the diaphragm seal. A flushing ring is great for use with diaphragm seal model numbers A100, when there is a potential of the deposits from the process medium blocking access to the diaphragm seals. The flushing ring is designed to be sandwiched between the process flange and the diaphragm seal. Material gathered in front of the diaphragm could be flushed out through the flushing bore holes. The flushing ring also can be used to vent the process. Several standard widths and sizes are available to fit different process conditions and applications.



Service intended

Process connection
ANSI ½" to 4" per ASME

Main order

1. Base model

A100 Flusing ring

2. Flushing ring material

BX 304SS
DX 304L SS
CX 316SS
EX 316L SS, ¼" NPT(M)
LX Monel, ⅜" NPT(M)
KX Hastelloy-C, ½" NPT(M)
RX 304SS with PTFE coating
SX 316SS with PTFE coating
51 316L SS with PTFE coating
53 Teflon
54 PVC
ZZ Other

3. Process connection type

XXX Refer to process connection type table

4. Plug connection size

0	One - ¼" NPT(F)	4	Two - ⅜" NPT(F)
1	One - ⅜" NPT(F)	5	Two - ½" NPT(F)
2	One - ½" NPT(F)	9	Other
3	Two - ¼" NPT(F)		

5. Nipple and plug connection type

A	One - With plug	D	Two - With nipple
B	Two - With plug	Z	Other
C	With plug and nipple		

6. Isolation valve material

A None
B 316SS and 316L SS
C Monel
D Hastelloy-C
E Teflon
Z Other

7. Valve gasket material

1 Teflon
2 Graphite

8. Flange gasket material

00 None
10 Teflon
20 Spiral wound
30 Oval gasket (Only RTJ)

1	2	3	4	5	6	7	8	Sample ordering code
A100	BX	XXX	0	A	A	1	00	

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Process connection type table - 7th, 8th and 9th characters

7 th character		8 th , 9 th character	
Code	Connection size		Flange size
E	½" (15A)	AC	B16.5 Class 150 RF
F	¾" (20A)	AE	B16.5 Class 150 FF
G	1" (25A)	AF	B16.5 Class 300 RF
H	1¼" (32A)	AH	B16.5 Class 300 FF
J	1½" (40A)	AJ	B16.5 Class 600 RF
K	2" (50A)	AL	B16.5 Class 600 FF
L	2½" (65A)	KL	JIS 10K RF
M	3" (80A)	KN	JIS 10K FF
N	4" (100A)	KP	JIS 20K RF
Z	Other	KR	JIS 20K FF
		KC	JIS 30K RF
		KU	JIS 30K FF
		AS	B16.5 Class 900 RF
		KD	JIS 40K RF
		KV	JIS 40K FF
		A8	B16.5 Class 150 RTJ
		A9	B16.5 Class 300 RTJ
		AV	B16.5 Class 600 RTJ
		AT	B16.5 Class 1,500 RF
		AN	B16.5 Class 1,500 FF
		AX	B16.5 Class 1,500 RTJ
		AY	B16.5 Class 2,500 RTJ
		ZZ	Other