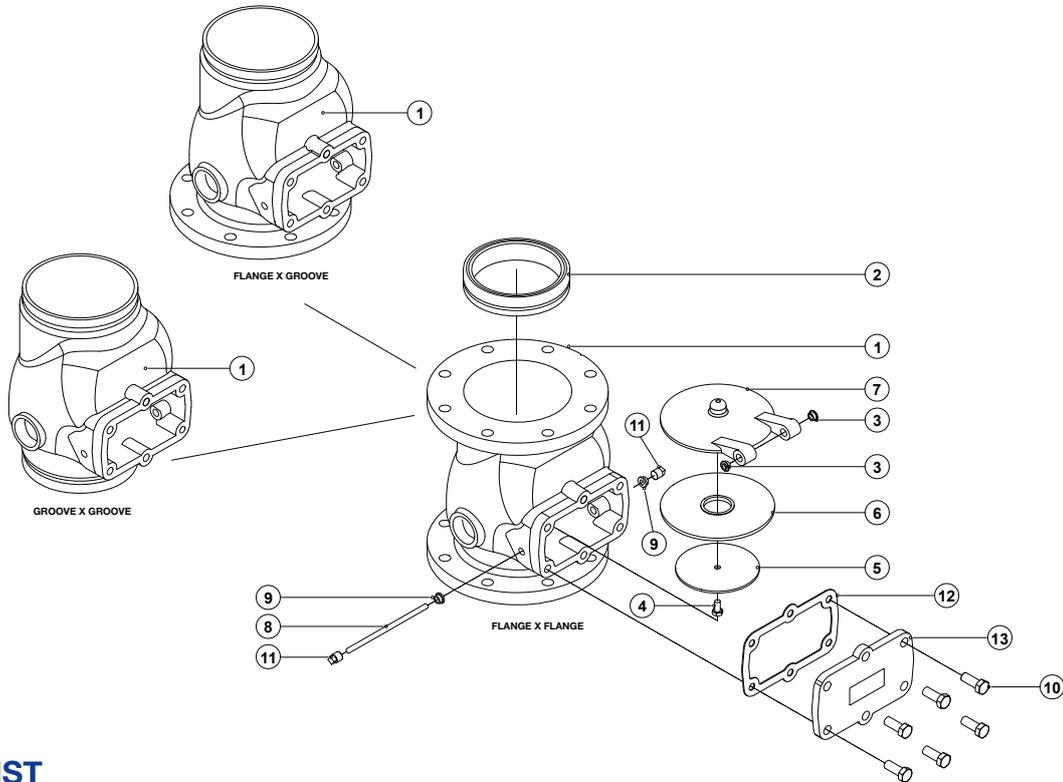


## ALARM VALVE, MODEL – SDH-AVA

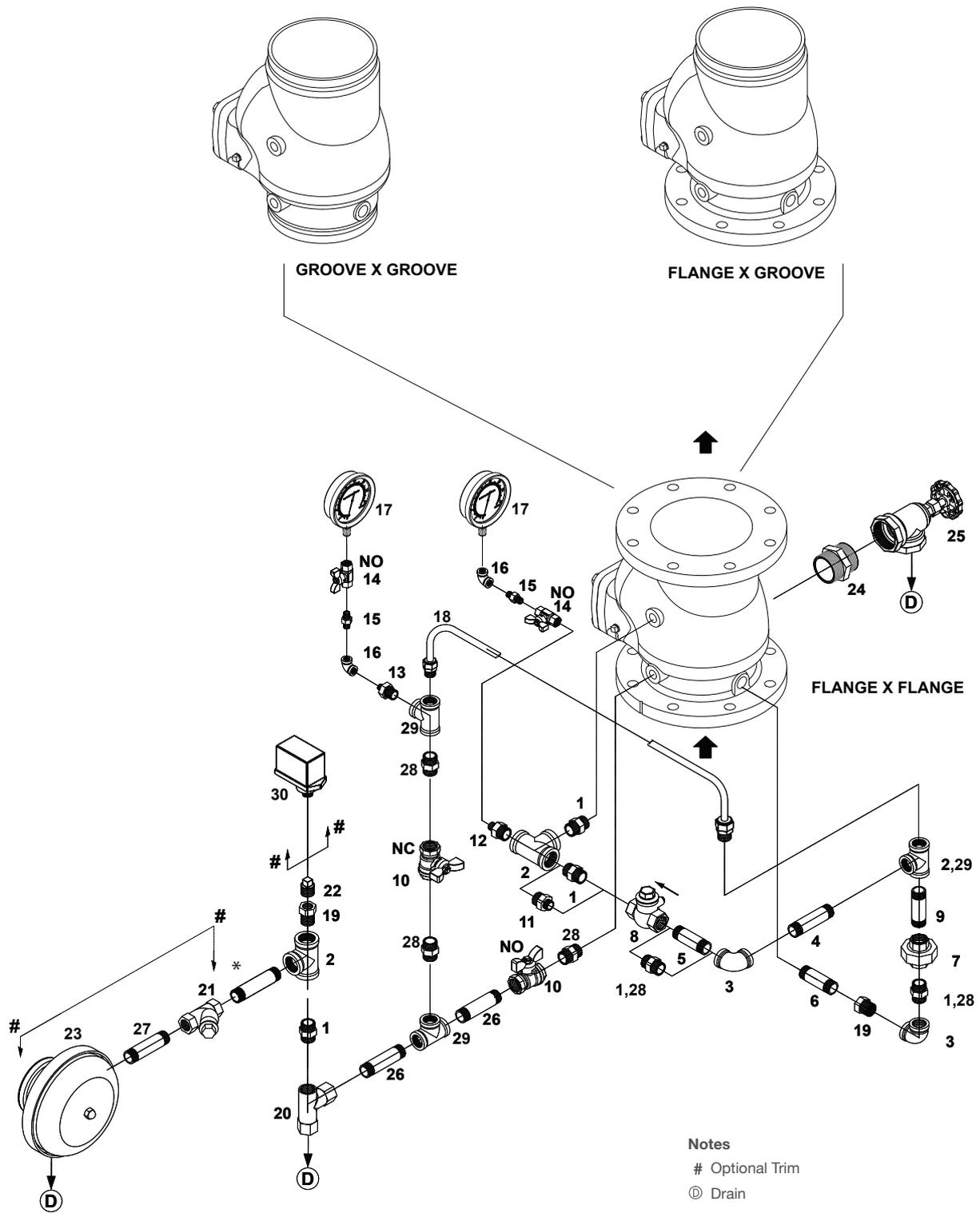


### PART LIST

ITEM	PART NO.				DESCRIPTION	QTY.				MATERIAL SPECIFICATION
	200 NB	150 NB	100 NB	80 NB		200 NB	150 NB	100 NB	80 NB	
1	NA	NA	NA	NA	Housing (Flange x Flange)	1	1	1	1	Ductile Iron
1	AV2014	AV1514	AV1014	AV8014	Housing (Flange x Groove)	1	1	1	1	Ductile Iron
1	AV2014	AV1515	AV1015	AV8015	Housing (Groove x Groove)	1	1	1	1	Ductile Iron
2	NA	NA	NA	NA	Seat	1	1	1	1	Bronze
3	AV2003	AV1503	AV1003	AV8003	Clapper Bush	2	2	2	2	Brass
4	AV2004	AV1504	AV1004	AV8004	Hex. Head Bolt	4	1	1	1	Stainless Steel
5	AV2005	AV1505	AV1005	AV8005	Rubber Clamp	1	1	1	1	Stainless Steel
6	AV2006	AV1506	AV1006	AV8006	Rubber Seat	1	1	1	1	Neoprene Rubber
7	AV2007	AV1507	AV1007	AV8007	Clapper	1	1	1	1	Ductile Iron
8	AV2008	AV1508	AV1008	AV8008	Hinge Pin	1	1	1	1	Stainless Steel
9	AV2009	AV1509	AV1009	AV8009	Body Bush	2	2	2	2	Brass
10	AV2010	AV1510	AV1010	AV8010	Hex. Head Bolt	6	6	4	4	Steel
11	AV2011	AV1511	AV1011	AV8011	Sq. Head Plug	2	2	2	2	Forged Steel
12	AV2012	AV1512	AV1012	AV8012	Cover Gasket	1	1	1	1	Neoprene Rubber
13	AV2013	AV1513	AV1013	AV8013	Cover	1	1	1	1	Ductile Iron

NA: Parts replacement not available

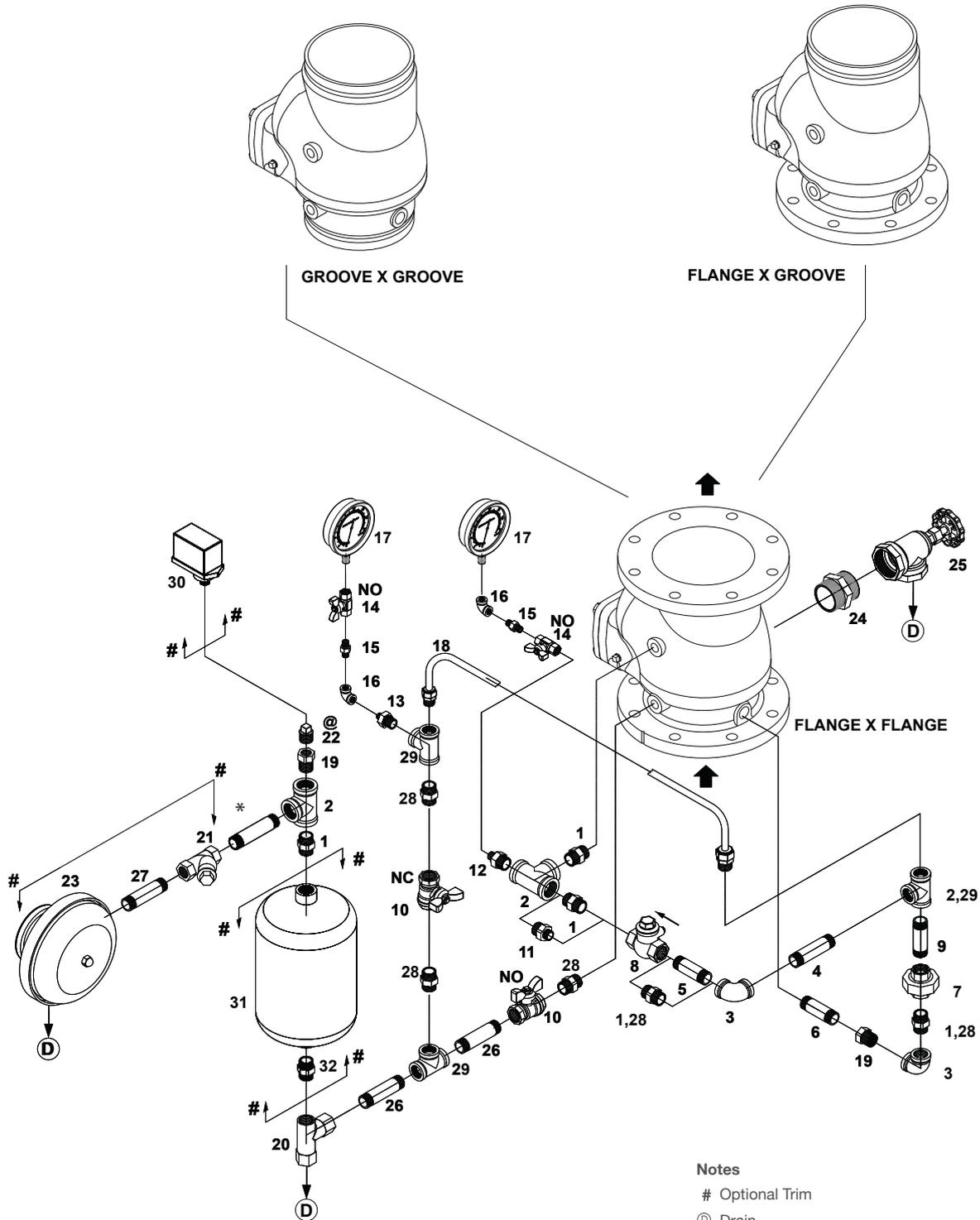
## CONSTANT PRESSURE TRIM FOR ALARM VALVE



## CONSTANT PRESSURE TRIM FOR ALARM VALVE

ITEM NO.	CODE NO.	DESCRIPTION	SIZE	QTY			
				200NB	150 NB	100 NB	80 NB
1	AV01	Hex Nipple	3/4"	4	4	5	2
2	AV02	Tee	3/4"	3	3	3	2
3	AV03/1	Elbow	3/4"	2	2	2	---
3	AV03/2	Elbow	1/2"	---	---	---	2
4	AV04/1	Pipe Nipple	3/4" X 150 mm Long	1	---	---	---
4	AV04/2	Pipe Nipple	3/4" X 130 mm Long	---	1	---	---
4	AV04/3	Pipe Nipple	3/4" X 100 mm Long	---	---	1	---
4	AV04/4	Pipe Nipple	1/2" X 100 mm Long	---	---	---	1
5	AV05/1	Pipe Nipple	3/4" X 100 mm Long	1	---	---	---
5	AV05/2	Pipe Nipple	3/4" X 80 mm Long	---	1	---	---
6	AV06/1	Pipe Nipple	1/2" X 100 mm Long	1	---	---	1
6	AV06/2	Pipe Nipple	1/2" X 80 mm Long	---	1	1	---
7	AV07/1	Union	3/4"	1	1	1	---
7	AV07/2	Union	1/2"	---	---	---	1
8	AV08/1	Swing Check Valve	3/4"	1	1	1	---
8	AV08/2	Swing Check Valve	1/2"	---	---	---	1
9	AV09/1	Pipe Nipple	3/4" X 70 mm Long	1	1	---	---
9	AV09/2	Pipe Nipple	3/4" X 60 mm Long	---	---	1	---
9	AV09/3	Pipe Nipple	1/2" X 70 mm Long	---	---	---	1
10	AV10	Ball Valve	1/2"	2	2	2	2
11	AV11	Reducing Hex Nipple	3/4" X 1/2"	---	---	---	1
12	AV12	Reducing Hex Nipple	3/4" X 1/4"	1	1	1	1
13	AV13	Reducing Hex Nipple	1/2" X 1/4"	1	1	1	1
14	AV14	Ball Valve	1/4"	2	2	2	2
15	AV15	Hex Nipple	1/4"	2	2	2	2
16	AV16	Elbow	1/4"	2	2	2	2
17	AV17	Pressure Gauge	1/4"	2	2	2	2
18	AV18/1	Alarm Test Line Assembly	1/2"	---	---	---	1
18	AV18/2	Alarm Test Line Assembly	1/2"	---	---	1	---
18	AV18/3	Alarm Test Line Assembly	1/2"	---	1	---	---
18	AV18/4	Alarm Test Line Assembly	1/2"	1	---	---	---
19	AV19	Reducing Bush	3/4" X 1/2"	2	2	2	1
20	AV20	Restriction Nozzle Assembly	---	1	1	1	1
21	AV21	Y Type Strainer	3/4"	1	1	1	1
22	AV22	Plug	1/2"	1	1	1	1
23	AV23/1	Sprinkler Alarm	---	1	1	1	1
23	AV23/2	Sprinkler Alarm	---	1	1	1	1
24	AV24/1	Hex Nipple	2"	1	1	1	---
24	AV24/2	Hex Nipple	1 1/4"	---	---	---	1
25	AV25/1	Angle Valve	2"	1	1	1	---
25	AV25/2	Angle Valve	1 1/4"	---	---	---	1
26	AV26	Pipe Nipple	1/2" X 60 mm Long	2	2	2	2
27	AV27	Pipe Nipple	3/4" X 80 mm Long	1	1	1	1
28	AV28	Hex Nipple	1/2"	3	3	3	5
29	AV29	Tee	1/2"	2	2	2	3
30	AV30	Pressure Switch (Optional)	1/2"	1	1	1	1

## VARIABLE PRESSURE TRIM FOR ALARM VALVE



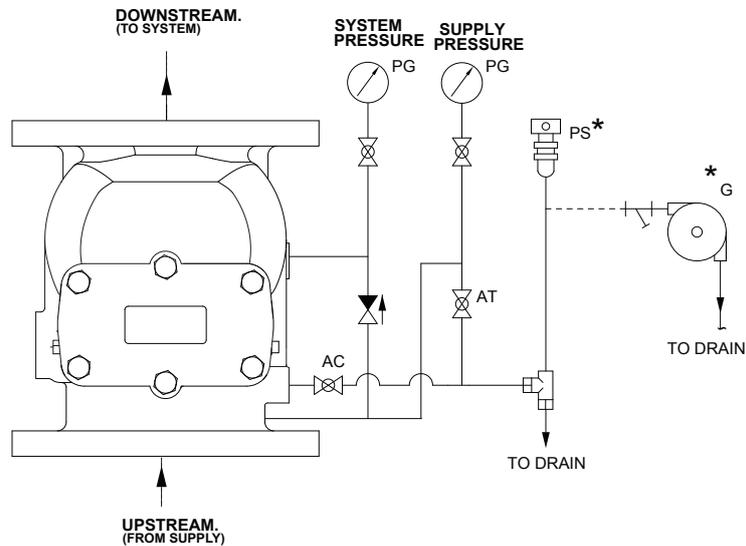
- Notes**
- # Optional Trim
  - Ⓧ Drain
  - \* To suit at site by installer
  - NO Normally Open
  - NC Normally Closed

When pressure switch is supplied then SI.No. 22 plug not required.

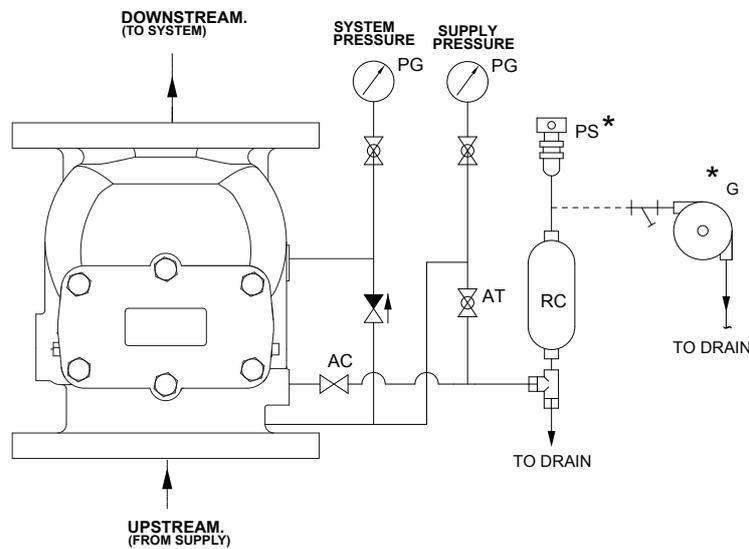
## VARIABLE PRESSURE TRIM FOR ALARM VALVE

ITEM NO.	CODE NO.	DESCRIPTION	SIZE	QTY			
				200NB	150 NB	100 NB	80 NB
1	AV01	Hex Nipple	¾"	4	4	5	2
2	AV02	Tee	¾"	3	3	3	2
3	AV03/1	Elbow	¾"	2	2	2	---
3	AV03/2	Elbow	½"	---	---	---	2
4	AV04/1	Pipe Nipple	¾" X 150 mm Long	1	---	---	---
4	AV04/2	Pipe Nipple	¾" X 130 mm Long	---	1	---	---
4	AV04/3	Pipe Nipple	¾" X 100 mm Long	---	---	1	---
4	AV04/4	Pipe Nipple	½" X 100 mm Long	---	---	---	1
5	AV05/1	Pipe Nipple	¾" X 100 mm Long	1	---	---	---
5	AV05/2	Pipe Nipple	¾" X 80 mm Long	---	1	---	---
6	AV06/1	Pipe Nipple	½" X 100 mm Long	1	---	---	1
6	AV06/2	Pipe Nipple	½" X 80 mm Long	---	1	1	---
7	AV07/1	Union	¾"	1	1	1	---
7	AV07/2	Union	½"	---	---	---	1
8	AV08/1	Swing Check Valve	¾"	1	1	1	---
8	AV08/2	Swing Check Valve	½"	---	---	---	1
9	AV09/1	Pipe Nipple	¾" X 70 mm Long	1	1	---	---
9	AV09/2	Pipe Nipple	¾" X 60 mm Long	---	---	1	---
9	AV09/3	Pipe Nipple	½" X 70 mm Long	---	---	---	1
10	AV10	Ball Valve	½"	2	2	2	2
11	AV11	Reducing Hex Nipple	¾" X ½"	---	---	---	1
12	AV12	Reducing Hex Nipple	¾" X ¼"	1	1	1	1
13	AV13	Reducing Hex Nipple	½" X ¼"	1	1	1	1
14	AV14	Ball Valve	¼"	2	2	2	2
15	AV15	Hex Nipple	¼"	2	2	2	2
16	AV16	Elbow	¼"	2	2	2	2
17	AV17	Pressure Gauge	¼"	2	2	2	2
18	AV18/1	Alarm Test Line Assembly	½"	---	---	---	1
18	AV18/2	Alarm Test Line Assembly	½"	---	---	1	---
18	AV18/3	Alarm Test Line Assembly	½"	---	1	---	---
18	AV18/4	Alarm Test Line Assembly	½"	1	---	---	---
19	AV19	Reducing Bush	¾" X ½"	2	2	2	1
20	AV20	Restriction Nozzle Assembly	---	1	1	1	1
21	AV21	Y Type Strainer	¾"	1	1	1	1
22	AV22	Plug	½"	1	1	1	1
23	AV23/1	Sprinkler Alarm	---	1	1	1	1
23	AV23/2	Sprinkler Alarm	---	1	1	1	1
24	AV24/1	Hex Nipple	2"	1	1	1	---
24	AV24/2	Hex Nipple	1¼"	---	---	---	1
25	AV25/1	Angle Valve	2"	1	1	1	---
25	AV25/2	Angle Valve	1¼"	---	---	---	1
26	AV26	Pipe Nipple	½" X 60 mm Long	2	2	2	2
27	AV27	Pipe Nipple	¾" X 80 mm Long	1	1	1	1
28	AV28	Hex Nipple	½"	3	3	3	5
29	AV29	Tee	½"	2	2	2	3
30	AV30	Pressure Switch (Optional)	½"	1	1	1	1
31	AV31	Retard Chamber, Model - RC9	---	1	1	1	1
32	AV32	Hex Nipple	¾"	1	1	1	1

## CONSTANT PRESSURE TRIM - SCHEMATIC FLANGE X FLANGE



## VARIABLE PRESSURE TRIM - SCHEMATIC FLANGE X FLANGE



### Abbreviation & Symbols

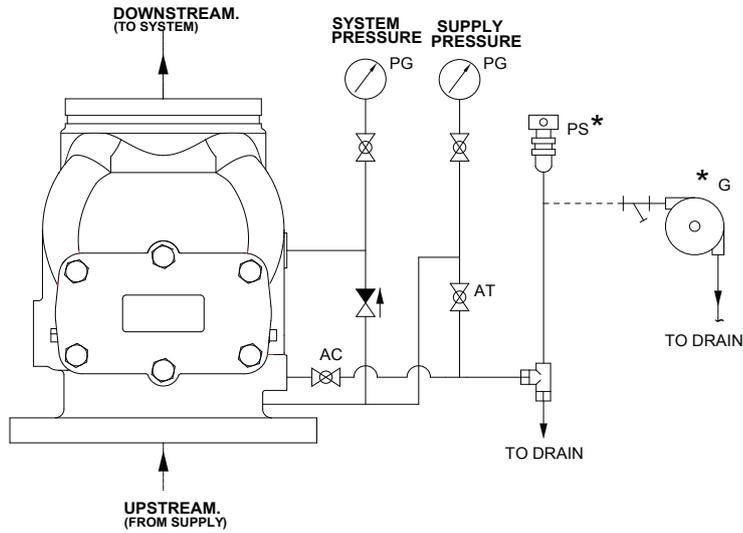
▶◀	Non Return Valve	⌵	Stop Valve	AV	Alarm Valve
⊗	Valve	AC	Sprinkler Alarm Control Valve	G	Sprinkler Alarm
⊗	Angle Valve	★	Optional	PS	Pressure Switch
⌵	Strainer	NO	Normally Open	RC	Retard Chamber
NC	Normally Closed	OD	Open Drain	AT	Sprinkler Alarm Test Valve
⊗	Restriction Nozzle Assembly	PG	Pressure Gauge	---	By User

### NOTE:-

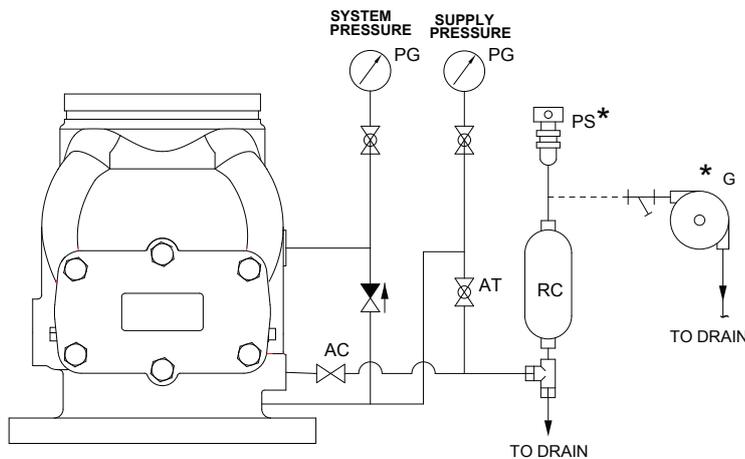
1) Sprinkler alarm control valve must be kept normally open if this valve is kept closed the sprinkler alarm bell/electric alarm will not signal.

2) Sprinkler alarm test valve must be kept normally closed condition. Valve is opened to test the sprinkler alarm bell/electrical alarm.

## CONSTANT PRESSURE TRIM - SCHEMATIC FLANGE X GROOVE



## VARIABLE PRESSURE TRIM - SCHEMATIC FLANGE X GROOVE



### Abbreviation & Symbols

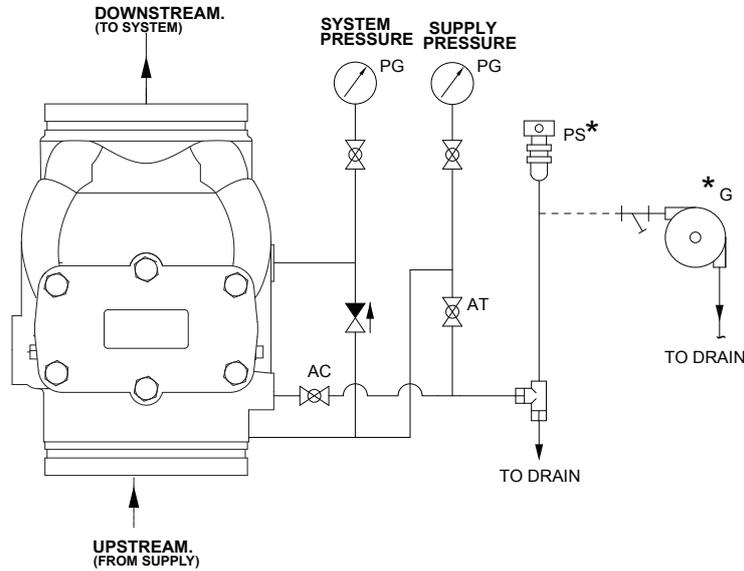
▶	Non Return Valve	⊥	Stop Valve	AV	Alarm Valve
⊗	Valve	AC	Sprinkler Alarm Control Valve	G	Sprinkler Alarm
⊘	Angle Valve	★	Optional	PS	Pressure Switch
⊥	Strainer	NO	Normally Open	RC	Retard Chamber
NC	Normally Closed	OD	Open Drain	AT	Sprinkler Alarm Test Valve
⊥	Restriction Nozzle Assembly	PG	Pressure Gauge	---	By User

### NOTE:-

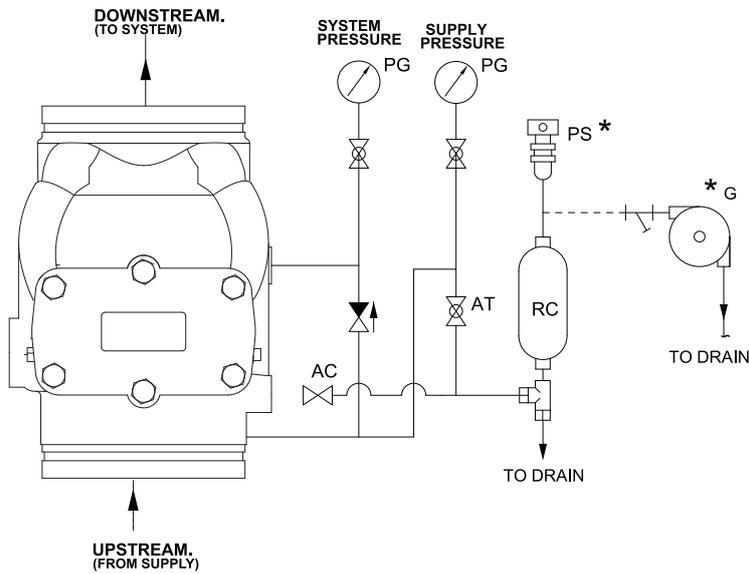
1) Sprinkler alarm control valve must be kept normally open if this valve is kept closed the sprinkler alarm bell/electric alarm will not signal.

2) Sprinkler alarm test valve must be kept normally closed condition. Valve is opened to test the sprinkler alarm bell/electrical alarm.

## CONSTANT PRESSURE TRIM - SCHEMATIC GROOVE X GROOVE



## VARIABLE PRESSURE TRIM - SCHEMATIC GROOVE X GROOVE



### Abbreviation & Symbols

▶◀	Non Return Valve	⌵	Stop Valve	AV	Alarm Valve
⊗	Valve	AC	Sprinkler Alarm Control Valve	G	Sprinkler Alarm
⊘	Angle Valve	★	Optional	PS	Pressure Switch
⌵	Strainer	NO	Normally Open	RC	Retard Chamber
NC	Normally Closed	OD	Open Drain	AT	Sprinkler Alarm Test Valve
⊞	Restriction Nozzle Assembly	PG	Pressure Gauge	---	By User

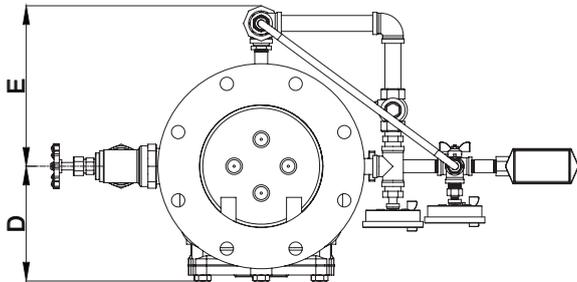
### NOTE:-

1) Sprinkler alarm control valve must be kept normally open if this valve is kept closed the sprinkler alarm bell/electric alarm will not signal.

2) Sprinkler alarm test valve must be kept normally closed condition. Valve is opened to test the sprinkler alarm bell/electrical alarm.

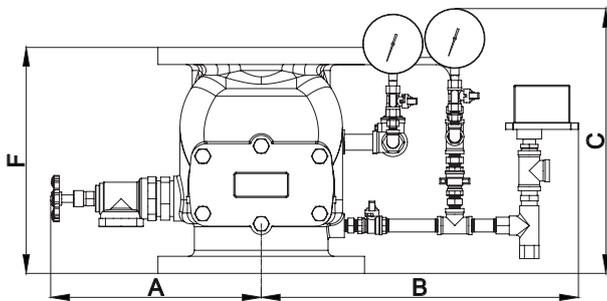
## INSTALLATION DIMENSION WITH TRIM FLANGE X FLANGE

A) Constant Pressure Trim

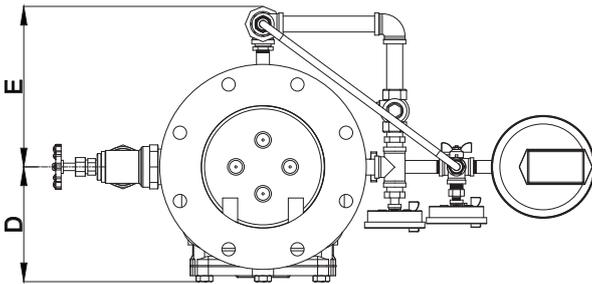


WITH CONSTANT PRESSURE TRIM				
SIZE	80 NB	100 NB	150 NB	200 NB
A	279	312	331	350
B	457	464	486	527
C	434	434	434	443
D	127	140	173	192
E	201	219	234	269
F	262	274	320	378

Unit : mm

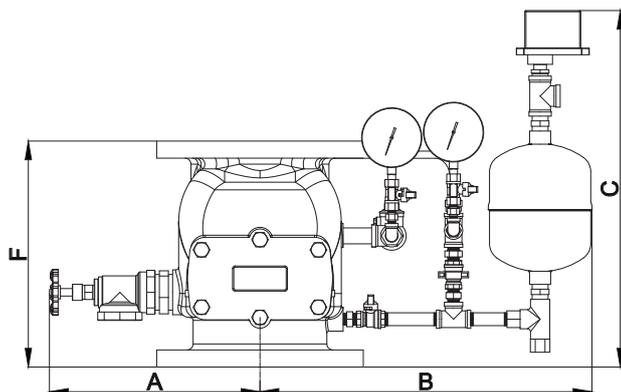


B) Variable Pressure Trim



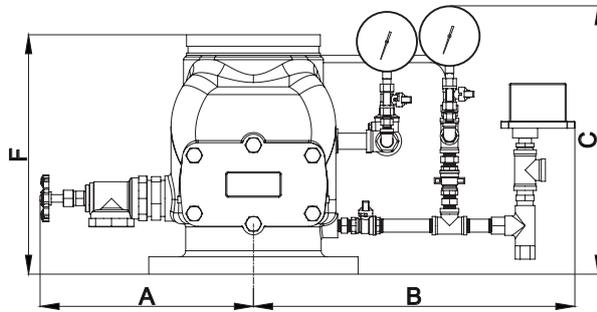
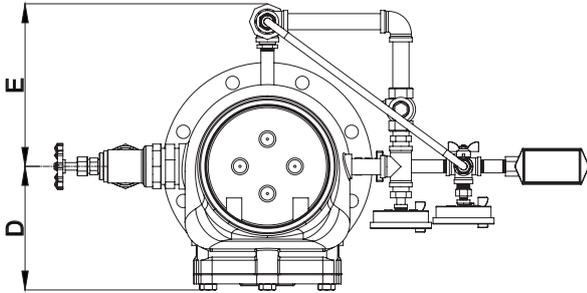
WITH VARIABLE PRESSURE TRIM				
SIZE	80 NB	100 NB	150 NB	200 NB
A	279	312	331	350
B	482	488	510	551
C	588	588	588	597
D	127	140	173	192
E	201	219	234	269
F	262	274	320	378

Unit : mm



## INSTALLATION DIMENSION WITH TRIM FLANGE X GROOVE

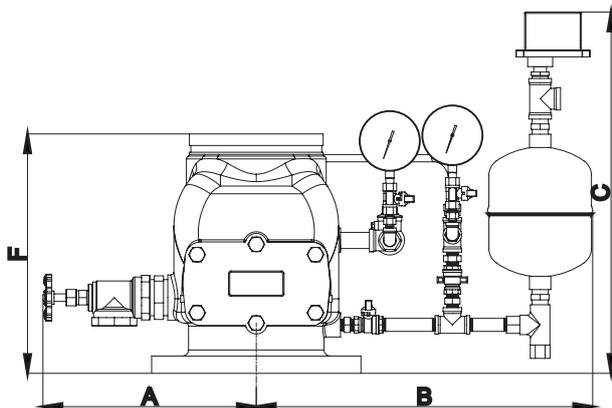
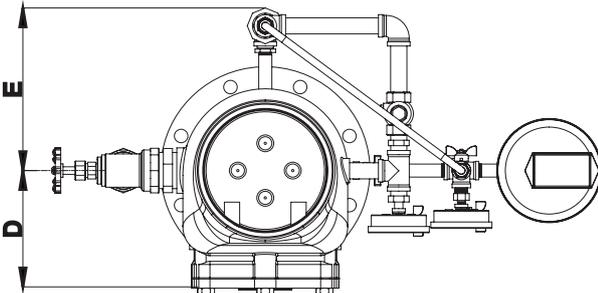
A) Constant Pressure Trim



WITH CONSTANT PRESSURE TRIM				
SIZE	80 NB	100 NB	150 NB	200 NB
A	279	312	331	350
B	457	464	486	527
C	434	434	434	443
D	127	140	173	204
E	201	219	234	269
F	275	291	317	395

Unit : mm

B) Variable Pressure Trim

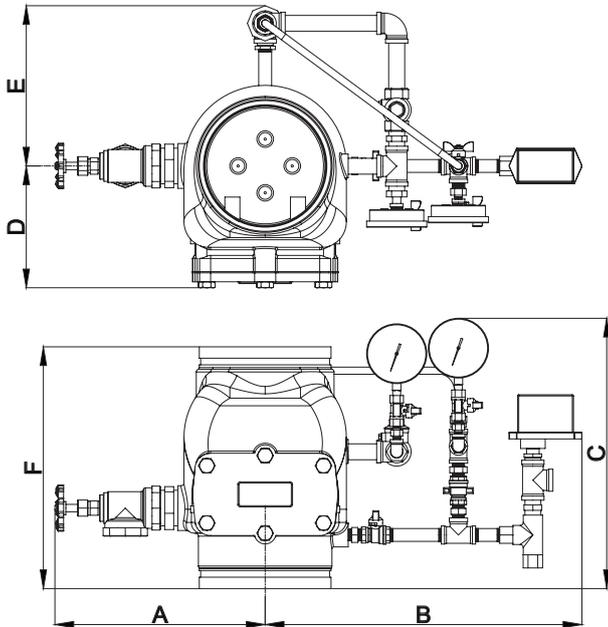


WITH VARIABLE PRESSURE TRIM				
SIZE	80 NB	100 NB	150 NB	200 NB
A	279	312	331	350
B	482	488	510	551
C	588	588	588	597
D	127	140	173	204
E	201	219	234	269
F	275	291	317	395

Unit : mm

## INSTALLATION DIMENSION WITH TRIM GROOVE X GROOVE

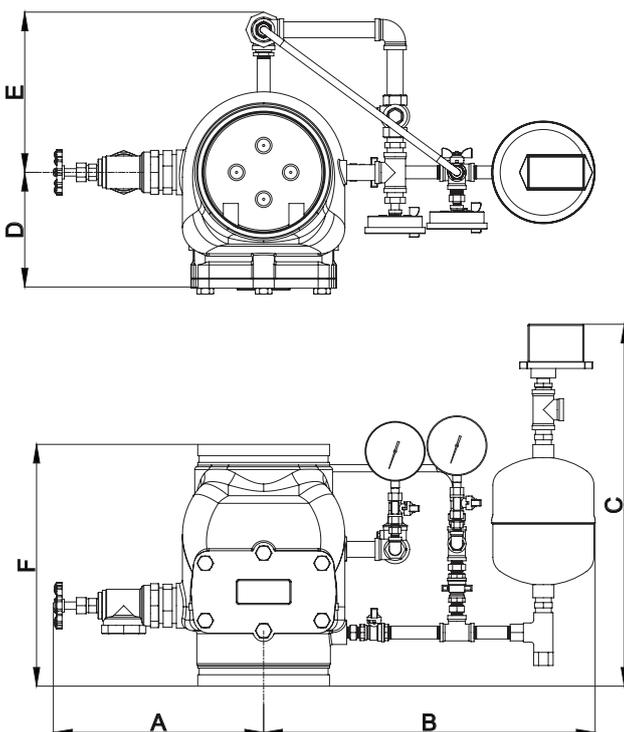
### A) Constant Pressure Trim



WITH CONSTANT PRESSURE TRIM				
SIZE	80 NB	100 NB	150 NB	200 NB
A	279	312	331	350
B	457	464	486	527
C	434	434	434	443
D	127	140	173	204
E	201	219	234	269
F	280	300	324	405

Unit : mm

### B) Variable Pressure Trim



WITH VARIABLE PRESSURE TRIM				
SIZE	80 NB	100 NB	150 NB	200 NB
A	279	312	331	350
B	482	488	510	551
C	588	588	588	597
D	127	140	173	204
E	201	219	234	269
F	280	300	324	405

Unit : mm

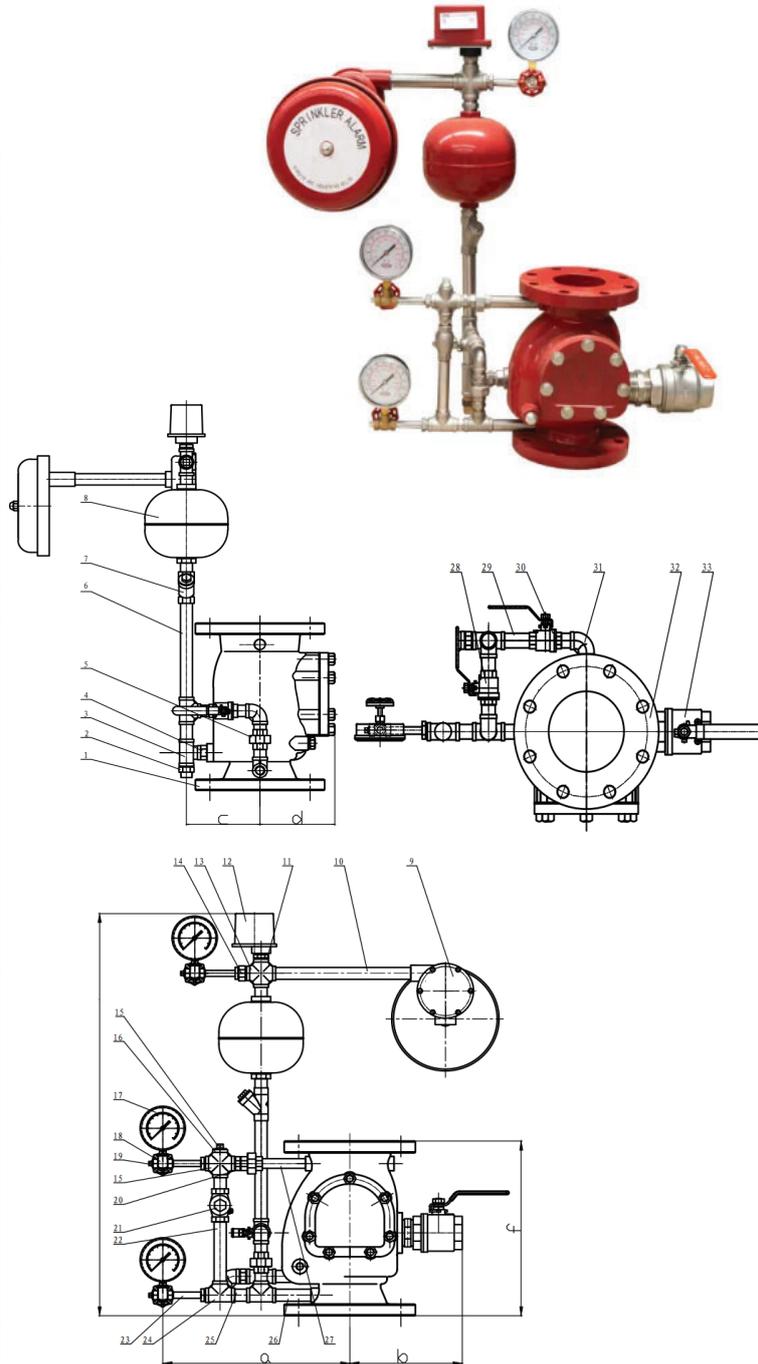
## WET ALARM VALVE

MODEL: SD-AVA-300F, SD-AVA-300G, SD-AVA-300FGA, SD-AVA-300FGB



- Working pressure: 300 psi
- Connection ends: Flange to ASME B16.42 Class 150
- Groove Standard: AWWA C606
- Temperature range: 4°C to 70°C
- Coating: Fusion bonded epoxy coating internally and externally in accordance with ANSI/AWWA C550

PART NO.	PART NAME	MATERIAL
1	Valve Body	Ductile Iron 65-45-12
2	Orifice, Retard	C954/SS316
3	Tee	GI/SS316
4	Nipple	GI/SS316
5	Union	GI/SS316
6	Nipple	GI/SS316
7	Y Strainer	C954/SS316
8	Retard Chamber	SS316
9	Gong Assembly	Aluminium Alloy
10	Nipple	GI/SS316
11	Reducer Bushing	GI/SS316
12	Pressure Switch	Galvanized CS Base
13	Cross	GI/SS316
14	Reducer Bushing	GI/SS316
15	Plug	GI/C954/SS316
16	Cross	GI/SS316
17	Pressure Gauge	AISI 1008
18	3-Way Valve Gauge	C954/SS304
19	Plug	Steel/C954/SS304
20	Orifice, Retard	C954/SS304
21	Check Valve	C954/SS304
22	Nipple	Steel/SS304
23	Nipple	Steel/SS304
24	Tee	Steel/SS304
25	Nipple	Steel/SS304
26	Nipple	Steel/SS304
27	Nipple	Steel/SS304
28	Ball Valve	C954/SS304
29	Nipple	Steel/SS304
30	Ball Valve	C954/SS304
31	Elbow	Steel/SS304
32	Nipple	Steel/SS304
33	Ball Valve	C954/SS304

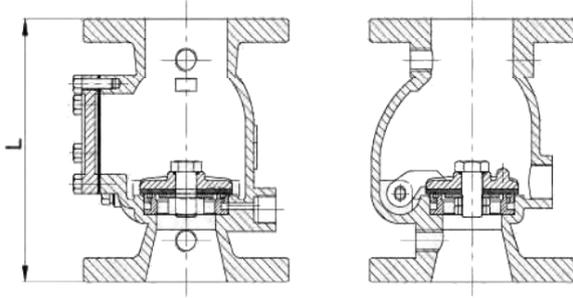


Size	a	b	c	d
2"	340	205	145	110
2.5"	340	205	145	110
3"	340	205	145	110
4"	342	250	160	136
5"	349	274	180	162
6"	349	274	180	162
8"	415	290	205	195
10"	475	340	240	235
12"	495	368	270	270

Unit : mm

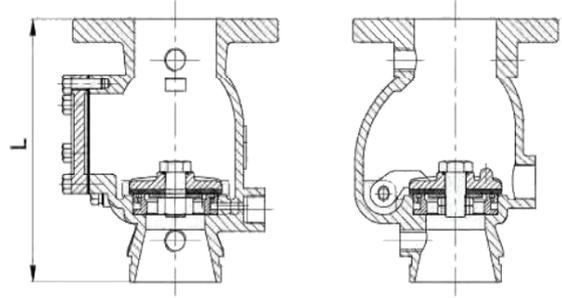
## General Technical Information

Flange x Flange, SD-AVA-300F



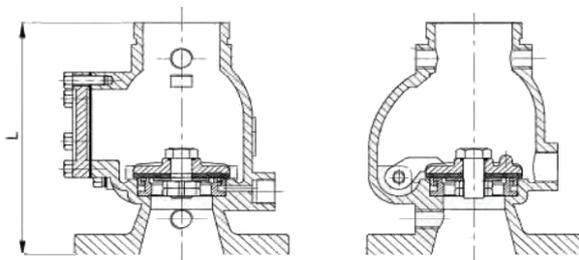
Dimension	
Size	L (mm)
2"	233
2.5"	236
3"	245
4"	316
5"	386
6"	390
8"	438
10"	535
12"	622

Flange x Groove, SD-AVA-300FGA



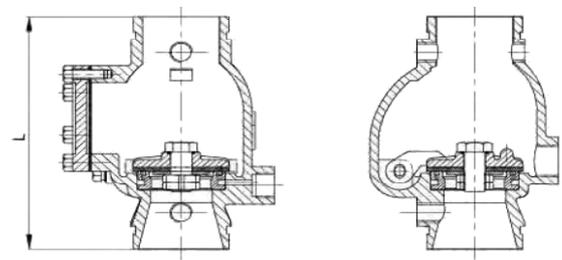
Dimension	
Size	L (mm)
2"	239
2.5"	240
3"	245
4"	316
5"	386
6"	390
8"	438
10"	535
12"	622

Groove x Flange, SD-AVA-300FGB



Dimension	
Size	L (mm)
2"	239
2.5"	240
3"	245
4"	316
5"	386
6"	390
8"	438
10"	535
12"	622

Groove x Groove, SD-AVA-300G



Dimension	
Size	L (mm)
2"	245
2.5"	245
3"	245
4"	316
5"	386
6"	390
8"	438
10"	535
12"	622