

ALARM CHECK VALVE

MODEL-H

TECHNICAL DATA

MODEL	Н
END CONNECTION	Flange X Flange Flange X Groove Groove X Groove
NOMINAL SIZE	200, 150, 100 & 80 NB
MAXIMUM SERVICE PRESSURE	17.5 Bar (250 PSI)*
THREADED OPENING	BSPT
MOUNTING	Vertical
FLANGE CONNECTION	N ANSI B16.42 #150 (Flange drilling matching to ANSI B 16.5 # 150)
TRIM	Galvanised fitting with Brass Valves
FACTORY HYDROSTATIC TEST PRESSURE	35Kg./Sq.Cm. (500PSI)
FRICTIONAL LOSS IN TERMS OF EQUIVALENT LENGTH OF PIPE (C-120)	200 NB - 7.50 Mtrs. 150 NB - 7 Mtrs. 100 NB - 6.1 Mtrs. 80 NB - 4.7 Mtrs.
FINISH	Red RAL 3000
APPROVAL	UL/FM Approved
ORDERING INFORMATION	Specify Size of valve, Trim details, End Connectior & PIPE OD
REFERENCE	NFPA 13 and NFPA 25

WEIGHT IN KG

Valve Size	Flange X Flange	Flange X Groove	Groove X Groove
200	65	54.0	44.0
150	42	35.8	28.0
100	27	22.1	17.30
80	18	15.0	12.10

GROOVE PIPE SIZE

N ORM AL SIZE	Pipe OD in MM
3" (80 NB)	89
4" (100 NB)	114.3
6" (150 NB)	165.1
6" (150 NB)	168.3
8" (200 NB)	219.1

NOTE: FOR 6" (150 NB) STANDARD SUPPLY IS 168.3 MM OD PIPE GROOVE. FOR 165.1MM SPECIFY IN ORDER

FIREGUARD GLOBAL LTD.

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DESCRIPTION

Alarm Valve is a double seated clapper check valve with grooved seat design, which ensures positive water flow for alarm operation and is designed for installation in wet pipe sprinkler system. External bypass prevents false alarm under all supply pressure condition. In the event of variable pressure condition, false alarm is prevented with the provision of retard chamber, thus the design allows for installation under both variable and constant supply pressure condition.

Operation of one or more automatic fire sprinklers causes the water to flow into the sprinkler system causing the alarm valve to open, allowing continuous flow of water into the system and transmittal of alarm, both electrical and mechanical.

OPERATION

The fire protection system initially when being pressurized, will allow water to flow into the system until the water supply and system pressure is equalized and the clapper closes the waterway. Once the pressure is stabilized, the fire protection system is ready to be placed in service and then the alarm control valve must be opened. Under normal condition, the water pressure gauge connected to the system side of the alarm valve would show a higher or equal pressure reading than the water pressure gauge connected to the supply side of the valve. This occurs because of the bypass line connecting downstream and upstream side of the alarm valve, which allows water pressure surge to pass without lifting the valve clapper off its seat, thereby causing excessive high pressure surge entrapped in the system side due to presence of a check valve, which generally prevents false alarm.

Sudden high pressure surge, as might be encountered by the start-up of a large fire pump may lead the valve clapper to lift momentarily, allowing water to















flow through grooves in the valve seat to the retard chamber. The water in the alarm line is automatically drained out, which helps to prevent false alarm due to successive transient surge in supply pressure. Restriction assembly located beneath the retard chamber consists of inlet and drain restriction orifices, which are established by considering the volume of the retard chamber to meet the listing and approval requirement with regard to time-toalarm. These requirements represent a balancing of the need to reduce the possible false alarm due to a transient surge in supply pressure and to achieve desired minimum time-to-alarm following a sprinkler operation.

In constant pressure installation, the retard chamber is not required and the water passing through the groove in the alarm valve seat flows directly through restriction nozzle assembly to activate the mechanical and electrical alarm.

INSTALLATION

- 1. FIREGUARD Sprinkler alarm valve. Model-H must be installed vertically.
- 2. The alarm valve must be installed in a readily visible and accessible location and provision to be made in such a way that alarm line drain is visible and accessible.
- 3. Where water pressure fluctuates, the variable pressure trim with retard chamber must be used Under non-fluctuating water pressure condition, the constant pressure trim, which does not include retard chamber, may be used.
- 4. The valve must be installed with trim in accordance with the trim data, Failure to follow the appropriate trim connection guidelines may prevent the device from functioning properly as well as void listing, approval and the manufacturer's warranty.
- 5. Care must be exercised while installing the check valve in the trim to ascertain that they are located with the arrow mark on the check valve body and pointed in proper direction.
- 6. The contraction and expansion associated with an excessive volume of trapped air could cause the waterway clapper to cycle open and shut. This may result in false alarm or an intermittent alarm. To avoid these, it is recommended to have breather valve in the system piping network and a vent valve at the extreme end of the system to bleed-off the air.
- 7. The ball valve provided on the alarm line must be kept open and strapped in set position 8. Pipe connecting the retard chamber and Sprinkler alarm bell must be supported properly to avoid loading on the retard chamber.

9. All the newly installed system pipes must be flushed properly before alarm valve is put into service.

INSPECTION AND MAINTENANCE

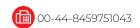
A qualified and trained person must commission the system. After few initial successful tests an authorised person must be trained to perform inspection and testing of the system.

It is recommended to carry out physical inspection of the system at least twice a week. The inspection should verify that all the control valves are in proper position as per the requirement of the system and no damage has taken place to any component.

- It is recommended that the alarm valve and its accessories should be examined and performed for following at least quarterly or as demanded by local authorities to ensure reliable and trouble free operation and service.
- 1. Inspection and testing is to be carried out only by an authorized person. DO NOT TURN OFF the water supply valve to undertake repair work or to test the valve, without placing a roving fire patrol in the area covered by the system. The patrol should continue until the system is back into service. Also do inform the local security personnel and alarm control station, so that a false alarm is not signaled.
- 2. Open the alarm test valve. Verify that the sprinkler alarm bell and/or the pressure alarm switch electric alarm properly actuate. Close the alarm test valve and verify that water has ceased to flow from the alarm line drain.
- 3. Clean the 20 NB (3/4") strainer provided on the Sprinkler alarm bell line.
- 4. Clean the strainer of restriction assembly.
- 5. Inspect the check valve clapper located on the bypass line.

FALSE ALARM

- 1. Inspect the valve rubber clapper face. If worn or damaged, replace it. Be certain that dirt, stone or any other foreign object have not accumulated under the clapper face and lodged in the groove or holes. Clean the clapper face thoroughly. If the seat ring surface is nicked or scoured, it might be possible to repair the same using lapping compound. If not, replace the complete valve or return it to the manufacturer's works for repair.
- 2. If sprinkler alarm bell is not functioning or the impeller is jammed, please follow the maintenance guideline provided in the catalogue for sprinkler alarm bell.







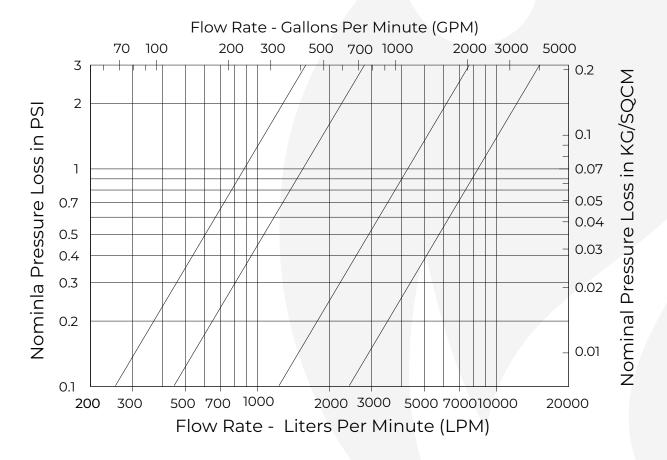
3. If pressure alarm switch gives a steady signal, but sprinkler alarm generates an intermittent alarm, check sprinkler alarm bell shaft. If both the sprinkler alarm bell and pressure alarm switch are generating intermittent alarm then check for the possible air which is trapped within the sprinkler system. Trapped air is to be bled off. Also the intermittent alarm may occur due to sudden pressure drop and increase in the system. These problems can be corrected by maintaining a steady supply.

CAUTION A

- 1. The FM approval, and manufacturer's warranty are valid only when the alarm valve is installed with FIREGUARD trim set and installed as per installation guidelines.
- 2. Pressure relief valve is required with wet pipe system, when a rise in ambient temperature can cause system pressure to exceed 17.5 Bar (250 PSD. A 17.7 Bar relief valve setting should be used.
- 3. For proper operation of the wet system and to minimize unwanted false alarm, it is important to remove trapped air from the system. The air trapped in the system may also cause intermittent operation of the Water Motor Alarm during sustained flow of water.

Nominal Pressure Loss vs Flow - Alarm Valve (Model H)

Nominal Pressure Loss vs Flow - Alarm Valve AV-H

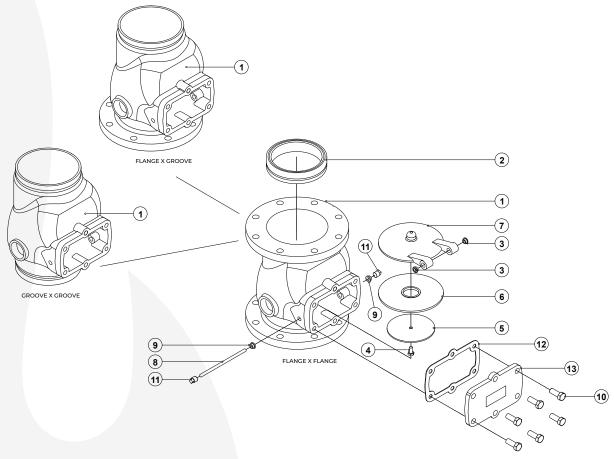








ALARM VALVE, MODEL - H SIZE 200 / 150 / 100 / 80 NB



PART LIST

										M ATERIAL
ITEM	200 NB	150 NB	100 NB	80 NB	DESCRIPTION		150 NB	100 NB	80 NB	SPECIFICATION
1	NA	NA	NA	NA	HOUSING (FLANGE X FLANGE)	1	1	1	1	DUCTILE IRON
1	2478	24712	4692	468	HOUSING (FLANGE X GROOVE)	1	1	1	1	DUCTILE IRON
1	24852	4822	4802	479	HOUSING (GROOVE X GROOVE)	1	1	1	1	DUCTILE IRON
2	NA	NA	NA	NA	SEAT	1	1	1	1	BRONZE
3	2600	2600	2600	2600	CLAPPER BUSH	2	2	2	2	BRASS
4	9102	9101	9101	9101	HEX. HEAD BOLT	4	1	1	1	STAINLESS STEEL
5	2636	2628	2619	2656	RUBBER CLAMP	1	1	1	1	STAINLESS STEEL
6	2635	2606	2618	2655	RUBBER SEAT	1	1	1	1	NEOPRENE RUBBER
7	2634	2603	2617	2654	CLAPPER	1	1	1	1	DUCTILE IRON
8	2638	2608	2258	2658	HINGE PIN	1	1	1	1	STAINLESS STEEL
9	2599	2599	2599	2599	BODY BUSH	2	2	2	2	BRASS
10	9004	9004	9004	8373	HEX. HEAD BOLT	6	6	4	4	STEEL
11	9430	9430	9430	9430	SQ. HEAD PLUG	2	2	2	2	FORGED STEEL
12	2637	2611	2620	2657	COVER GASKET	1	1	1	1	NEOPRENE RUBBER
13	2631	2604	2615	2651	COVER	1	1	1	1	DUCTILE IRON

NA: PARTS REPLACEMENT NOT AVAILABLE



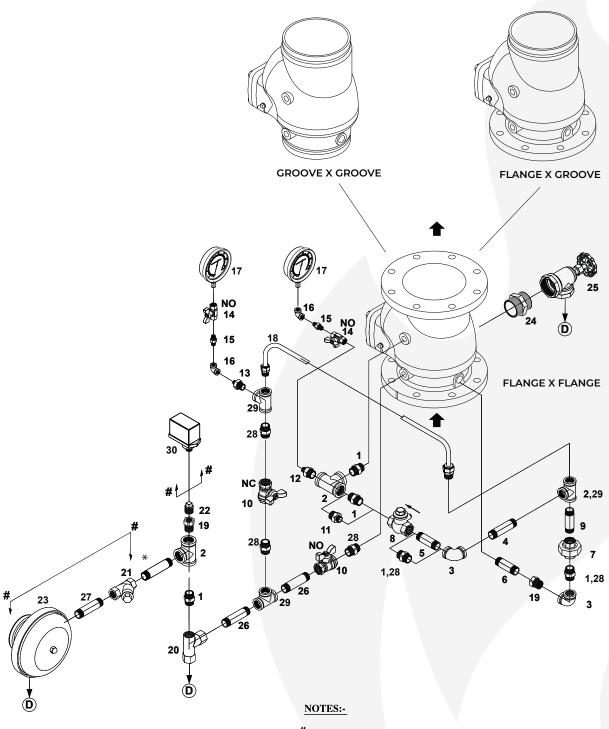








CONSTANT PRESSURE TRIM FOR ALARM VALVE MODEL - H 200 / 150 / 100 / 80 NB



OPTIONAL TRIM ORDERED SEPERATELY

D DRAII

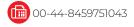
* TO SUIT AT SITE BY INSTALLER

NO - NORMALLY OPEN

NC - NORMALLY CLOSED

WHEN PRESSURE SWITCH IS SUPPLIED THEN SL.NO.22 PLUG NOT REQUIRED.



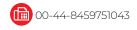






CONSTANT PRESSURE TRIM FOR ALARM VALVE MODEL - H 200 / 150 / 100 / 80 NB

1 86 2 86 3 86 4 89 4 94 4 92 4 93 5 94 6 93 6 94 7 86	NO. 8625 8620 8617 8616 8951 9407 9406 9441 397 9480 8628 8627	DESCRIPTION HEX NIPPLE TEE ELBOW ELBOW PIPE NIPPLE UNION	3/4" 3/4" 3/4" 1/2" 3/4" X 150 MM LONG 3/4" X 130 MM LONG 3/4" X 100 MM LONG 1/2" X 100 MM LONG 3/4" X 100 MM LONG 1/2" X 100 MM LONG	200NB 4 3 2 - 1 - 1 - 1 -	150NB 4 3 2 1 1 1 1	100NB 5 3 2 1 - 1 1 -	80NB 2 2 - 2 1 - 1
2 86 3 86 4 89 4 94 4 93 5 94 6 93 6 94 7 86	8620 8617 8616 8951 9407 9406 9397 9406 9441 397 9480 8628 8627	TEE ELBOW ELBOW PIPE NIPPLE UNION	3/4" 3/4" 1/2" 3/4" X 150 MM LONG 3/4" X 130 MM LONG 3/4" X 100 MM LONG 1/2" X 100 MM LONG 3/4" X 100 MM LONG 3/4" X 100 MM LONG 1/2" X 100 MM LONG 1/2" X 100 MM LONG	4 3 2 - 1 - - - 1	4 3 2 - - 1 - - 1	5 3 2 - - - 1 - -	2 2 - 2 - - - 1
2 86 3 86 4 89 4 94 4 93 5 94 6 93 6 94 7 86	8620 8617 8616 8951 9407 9406 9397 9406 9441 397 9480 8628 8627	TEE ELBOW ELBOW PIPE NIPPLE UNION	3/4" 3/4" 1/2" 3/4" X 150 MM LONG 3/4" X 130 MM LONG 3/4" X 100 MM LONG 1/2" X 100 MM LONG 3/4" X 100 MM LONG 3/4" X 100 MM LONG 1/2" X 100 MM LONG 1/2" X 100 MM LONG	3 2 - 1 - - - 1	3 2 - - 1 - - - 1	3 2 1 1	2 - 2 - - - 1
3 86 3 86 4 89 4 94 4 93 5 94 5 94 6 93 6 94 7 86	8617 8616 8951 9407 9406 9397 9406 9441 3397 9480 8628 8627	ELBOW ELBOW PIPE NIPPLE UNION	3/4" 1/2" 3/4" X 150 MM LONG 3/4" X 130 MM LONG 3/4" X 100 MM LONG 1/2" X 100 MM LONG 3/4" X 100 MM LONG 3/4" X 100 MM LONG 1/2" X 100 MM LONG 1/2" X 100 MM LONG	2 - 1 - - - 1	2 - 1 - - 1	2 1	- 2 - - - 1
3 86 4 89 4 94 4 93 5 94 5 94 6 93 6 94 7 86	3951 3951 3407 3406 3397 3406 3441 3397 3480 3628 3627	ELBOW PIPE NIPPLE UNION	1/2" 3/4" X 150 MM LONG 3/4" X 130 MM LONG 3/4" X 100 MM LONG 1/2" X 100 MM LONG 3/4" X 100 MM LONG 3/4" X 80 MM LONG 1/2" X 100 MM LONG	- 1 - - 1	- 1 - - -	- - - 1 - -	- - - 1 -
4 89 4 94 4 93 5 94 5 94 6 93 6 94 7 86	3951 3407 3406 3397 3406 3441 3397 3480 3628 3627	PIPE NIPPLE UNION	3/4" X 150 MM LONG 3/4" X 130 MM LONG 3/4" X 100 MM LONG 1/2" X 100 MM LONG 3/4" X 100 MM LONG 3/4" X 80 MM LONG 1/2" X 100 MM LONG	- - - 1	1 - - - 1	- 1 - -	- - - 1 -
4 94 4 94 4 93 5 94 5 94 6 93 6 94 7 86	9407 9406 9397 9406 9441 397 9480 8628	PIPE NIPPLE UNION	3/4" X 130 MM LONG 3/4" X 100 MM LONG 1/2" X 100 MM LONG 3/4" X 100 MM LONG 3/4" X 80 MM LONG 1/2" X 100 MM LONG	- - - 1	1 - - - 1	- 1 - -	- 1 -
4 94 4 93 5 94 5 94 6 93 6 94 7 86	9406 9397 9406 9441 397 9480 8628 8627	PIPE NIPPLE PIPE NIPPLE PIPE NIPPLE PIPE NIPPLE PIPE NIPPLE PIPE NIPPLE UNION	3/4" X 100 MM LONG 1/2" X 100 MM LONG 3/4" X 100 MM LONG 3/4" X 80 MM LONG 1/2" X 100 MM LONG	- 1 -	- - - 1	- -	- 1 -
4 93 5 94 5 94 6 93 6 94 7 86	9397 9406 9441 397 9480 8628	PIPE NIPPLE PIPE NIPPLE PIPE NIPPLE PIPE NIPPLE PIPE NIPPLE UNION	1/2" X 100 MM LONG 3/4" X 100 MM LONG 3/4" X 80 MM LONG 1/2" X 100 MM LONG	- 1 - 1	- - 1	- -	1 -
5 94 5 94 6 93 6 94 7 86 7 86	9406 9441 397 9480 8628 8627	PIPE NIPPLE PIPE NIPPLE PIPE NIPPLE PIPE NIPPLE UNION	3/4" X 100 MM LONG 3/4" X 80 MM LONG 1/2" X 100 MM LONG	1 - 1	- 1 -	-	-
5 94 6 93 6 94 7 86 7 86	9441 397 9480 8628 8627	PIPE NIPPLE PIPE NIPPLE PIPE NIPPLE UNION	3/4" X 80 MM LONG 1/2" X 100 MM LONG	-	-	+	-
6 93 6 94 7 86 7 86	397 9480 8628 8627	PIPE NIPPLE PIPE NIPPLE UNION	1/2" X 100 MM LONG	1	-	+	-
6 94 7 86 7 86	9480 8628 8627	PIPE NIPPLE UNION	· ·		-	-	
7 86 7 86	3628 3627	UNION	1/2" X 80 MM LONG	_		1	1
7 86	3627		T ,		1	1	-
			3/4"	1	1	1	-
8 94	9421	UNION	1/2"	-	-	-	1
		SWING CHECK VALVE	3/4"	1	1	1	
	9455	SWING CHECK VALVE	1/2"	-	-	-	1
9 86	3663	PIPE NIPPLE	3/4" X 70MM LONG	1	1	-	-
9 94	9426	PIPE NIPPLE	3/4" X 60MM LONG	-	-	1	-
9 98	9893	PIPE NIPPLE	1/2" X 70MM LONG	-	-	-	1
10 94	9423	BALL VALVE	1/2"	2	2	2	2
11 86	3633	REDUCING HEX NIPPLE	3/4" X 1/2"	-	-	-	1
12 86	3632	REDUCING HEX NIPPLE	3/4" X 1/4"	1	1	1	1
13 86	3631	REDUCING HEX NIPPLE	1/2" X 1/4"	1	1	1	1
14 94	477	BALL VALVE	1/4"	2	2	2	2
15 86	3698	HEX NIPPLE	1/4"	2	2	2	2
16 83	3357	ELBOW	1/4"	2	2	2	2
17 95	9526	PRESSURE GUAGE	1/4"	2	2	2	2
18 23	2301	ALARM TEST LINE ASSEMBLY	1/2"	-	-	-	1
18 23	2302	ALARM TEST LINE ASSEMBLY	1/2"	-	-	1	-
18 23	303	ALARM TEST LINE ASSEMBLY	1/2"	-	1	-	-
18 23	304	ALARM TEST LINE ASSEMBLY	1/2"	1	-	-	-
19 83	355	REDUCING BUSH	3/4" X 1/2"	2	2	2	1
20 102	027	RESTRICTION NOZZLE ASSEMBLY	'FG MAKE	1	1	1	1
21 93	382	'Y' TYPE STRAINER	3/4"	1	1	1	1
22 86	629	PLUG	1/2"	1	1	1	1
23 14	1416	SPRINKLER ALARM	'FG' MAKE TYPE 'A'	1	1	1	1
	1417	SPRINKLER ALARM	'FG' MAKE TYPE 'B'	1	1	1	1
	3359	HEX NIPPLE	2"	1	1	1	-
	3360	HEX NIPPLE	1-1/4"	-	-	-	1
L	394	ANGLE VALVE	2"	1	1	1	<u> </u>
	392	ANGLE VALVE	1-1/4"	-	-	-	1
	9561	PIPE NIPPLE	1/2" X 60MM LONG	2	2	2	2
	9441	PIPE NIPPLE	3/4" X 80MM LONG	1	1	1	1
	3624	HEX NIPPLE	1/2"	3	3	3	5
-	3619	TEE	1/2"	2	2	2	3
		PRESSURE SWITCH (OPTIONAL)	1/2" END CONNECTION	1	1	1	1

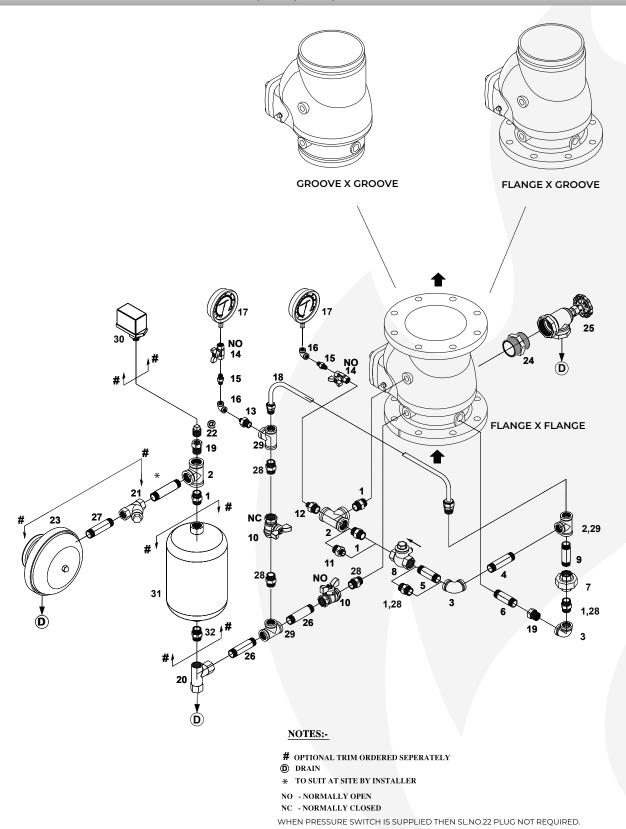








VARIABLE PRESSURE TRIM FOR ALARM VALVE MODEL - H 200 / 150 / 100 / 80 NB











VARIABLE PRESSURE TRIM FOR ALARM VALVE MODEL - H 200 / 150 / 100 / 80 NB

ITEM	CODE	DESCRIPTION	SIZE	QUANTITY PER ALARM VALVE SIZ		7F	
NO.	NO.	DESCRIPTION	JIZL	200NB	150NB	100NB	80NB
1	8625	HEX NIPPLE	3/4"	4	4	5	2
2	8620		3/4"	3	3	3	2
3	8617		3/4"	2	2	2	_
3	8616		1/2"	-		-	2
4	8951		3/4" X 150 MM LONG	1	_	_	_
4	9407		3/4" X 130 MM LONG	-	1	_	_
4	9406		3/4" X 100 MM LONG	_	-	1	_
4	9397		1/2" X 100 MM LONG	_	_	-	1
5	9406		3/4" X 100 MM LONG	1	_	_	_
5	9441		3/4" X 80 MM LONG	_	1	_	_
6	9397		1/2" X 100 MM LONG	1	_	_	1
6	9480		1/2" X 80 MM LONG	_	1	1	-
	8628		3/4"	1	1	1	_
7	8627		1/2"	-	-	-	1
8	9421		3/4"	1	1	1	
8	9455		1/2"	-	-	-	1
9	8663		3/4" X 70MM LONG	1	1	_	-
9	9426		3/4" X 60MM LONG	-	-	1	_
	9893		1/2" X 70MM LONG	_	_	-	1
	9423		1/2"	2	2	2	2
	8633		3/4" X 1/2"	_		_	1
	8632		3/4" X 1/4"	1	1	1	1
	8631		1/2" X 1/4"	1	1	1	1
H	9477		1/4"	2	2	2	2
-	8698		1/4"	2	2	2	2
	8357		1/4"	2	2	2	2
-	9526		1/4"	2	2	2	2
	2301		1/2"	-	-	_	1
	2302		1/2"	-	_	1	-
_	2303		1/2"	-	1	-	-
	2304		1/2"	1	-	_	_
-	8355		3/4" X 1/2"	2	2	2	1
	1027		'FG' MAKE	1	1	1	1
	9382		3/4"	1	1	1	1
-	8629		1/2"	1	1	1	1
	1416		'HD' MAKE TYPE 'A'	1	1	1	1
_	1417		'FG' MAKE TYPE 'B'	1	1	1	1
	8359		2"	1	1	1	_
_	8360		1-1/4"	-	-	-	1
-	9394		2"	1	1	1	-
	9392		1-1/4"	-	-	-	1
-	9561		1/2" X 60MM LONG	2	2	2	2
	9441		3/4" X 80MM LONG	1	1	1	1
28	8624		1/2"	3	3	3	5
-	8619		1/2"	2	2	2	3
30	-		1/2" END CONNECTION	1	1	1	1
	2300		'FG' MAKE	1	1	1	1
	8625	·	3/4"	1	1	1	1

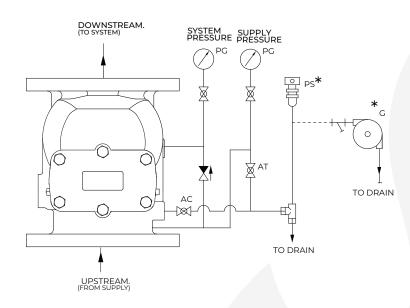




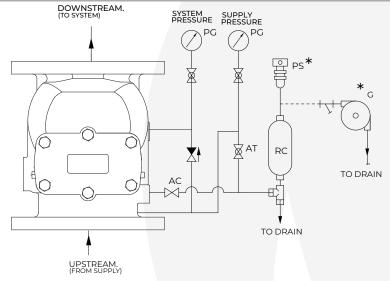




CONSTANT PRESSURE TRIM - SCHEMATIC ALARM VALVE MODEL - H FLANGE X FLANGE 200 / 150 / 100 / 80 NB



VARIABLE PRESSURE TRIM - SCHEMATIC ALARM VALVE MODEL - H FLANGE X FLANGE 200 / 150 / 100 / 80 NB



ABBREVIATION & SYMBOLS

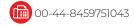
$\triangleright \triangleleft$	NON RETURN VALVE	띠	RESTRICTION NOZZLE ASS	SEMBLY AV	ALARM VALVE
\bowtie	VALVE	*	OPTIONAL	G	SPRINKLER ALARM
	ANGLE VALVE	NO	NORMALLY OPEN	PS	PRESSURE SWITCH
\vdash	STRAINER	OD	OPEN DRAIN	RC	RETARD CHAMBER
NC	NORMALLY CLOSED	PG	PRESSURE GUAGE	AT	SPRINKLER ALARM TEST VALVE
AC	SPRINKLER ALARM CONT	ROL VA	LVE BY USER (NO	T IN 'HD' SCOP	PE OF SUPPLY)

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/ELECTRIC ALARM.

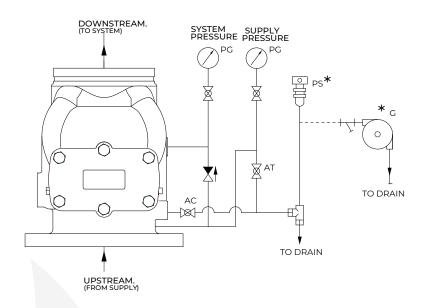




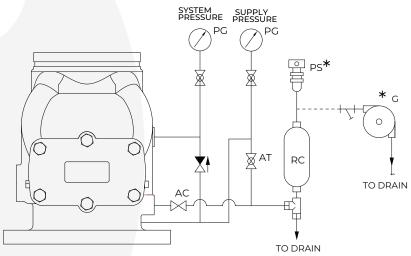




CONSTANT PRESSURE TRIM - SCHEMATIC ALARM VALVE MODEL - H FLANGE X GROOVE 200 / 150 / 100 / 80 NB



VARIABLE PRESSURE TRIM - SCHEMATIC ALARM VALVE MODEL - H FLANGE X GROOVE 200 / 150 / 100 / 80 NB



ABBREVIATION & SYMBOLS

$\triangleright \triangleleft$	NON RETURN VALVE	띱	RESTRICTION NOZZLE ASSEMBLY	Y AV	ALARM VALVE
\bowtie	VALVE	*	OPTIONAL	G	SPRINKLER ALARM
	ANGLE VALVE	NO	NORMALLY OPEN	PS	PRESSURE SWITCH
\vdash	STRAINER	OD	OPEN DRAIN	RC	RETARD CHAMBER
NC	NORMALLY CLOSED	PG	PRESSURE GUAGE	AT	SPRINKLER ALARM TEST VALVE
AC	SPRINKLER ALARM CONT	ROL VAI	VE BY USER (NOT IN 'H	D' SCOPE	OF SUPPLY)

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/ELECTRIC ALARM.



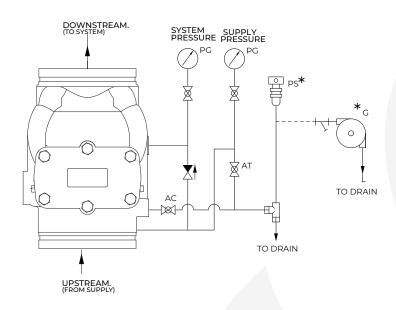




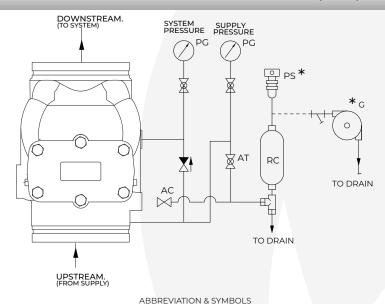




CONSTANT PRESSURE TRIM - SCHEMATIC ALARM VALVE MODEL - H GROOVE X GROOVE 200 / 150 / 100 / 80 NB



VARIABLE PRESSURE TRIM - SCHEMATIC ALARM VALVE MODEL - H GROOVE X GROOVE 200 / 150 / 100 / 80 NB



NON RETURN VALVE □ RESTRICTION NOZZLE ASSEMBLY AV ALARM VALVE VALVE * OPTIONAL G SPRINKLER ALARM

ANGLE VALVE NO NORMALLY OPEN PS PRESSURE SWITCH \vdash STRAINER RC RETARD CHAMBER OD OPEN DRAIN NC NORMALLY CLOSED PG PRESSURE GUAGE ΑT SPRINKLER ALARM TEST VALVE

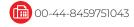
AC SPRINKLER ALARM CONTROL VALVE --- BY USER (NOT IN 'HD' SCOPE OF SUPPLY)

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/ELECTRIC ALARM.



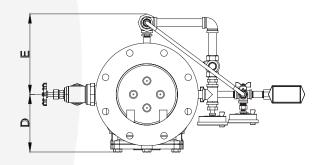






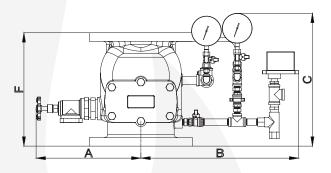
INSTALLATION DIMENSION WITH TRIM ALARM VALVE MODEL - H FLANGE X FLANGE 200 / 150 / 100 / 80 NB

A) CONSTANT PRESSURE TRIM

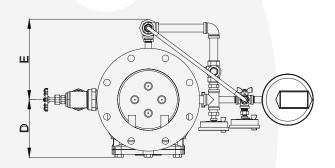


WITH CONSTANT PRESSURE TRIM								
SIZE	80NB	100NB	150NB	200NB				
А	279	312	331	350				
В	457	464	486	527				
С	434	434	434	443				
D	127	140	173	192				
Е	201	219	234	269				
F	262	274	315	378				

DIMENSIONS are approx. and in millimeters

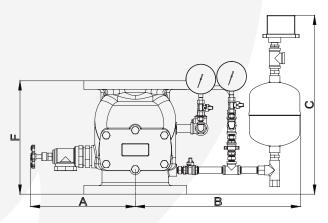


B) VARIABLE PRESSURE TRIM



WITH VARIABLE PRESSURE TRIM								
SIZE	80NB	100NB	150NB	200NB				
А	279	312	331	350				
В	482	488	510	551				
С	588	588	588	597				
D	127	140	173	192				
Е	201	219	234	269				
F	262	274	315	378				

DIMENSIONS are approx. and in millimeters

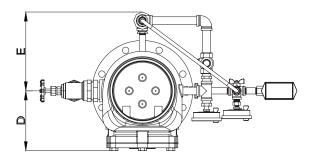


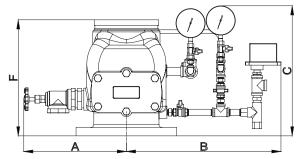




INSTALLATION DIMENSION WITH TRIM ALARM VALVE MODEL - H FLANGE X GROOVE 200 / 150 / 100 / 80 NB

A) CONSTANT PRESSURE TRIM

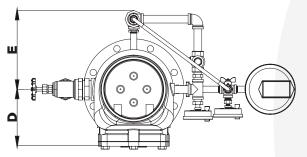


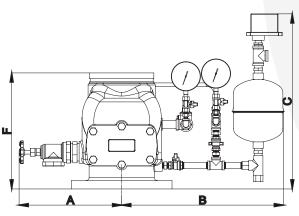


WITH CONSTANT PRESSURE TRIM							
SIZE	80NB	100NB	150NB	200NB			
А	279	312	331	350			
В	457	464	486	527			
С	434	434	434	443			
D	127	140	173	204			
Е	201	219	234	269			
F	275	291.3	316.8	395.2			

DIMENSIONS are approx. and in millimeters

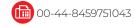
B) VARIABLE PRESSURE TRIM





WITH VARIABLE PRESSURE TRIM								
SIZE	80NB	100NB	150NB	200NB				
А	279	312	331	350				
В	482	488	510	551				
С	588	588	588	597				
D	127	140	173	204				
Е	201	219	234	269				
F	275	291.3	316.8	395.2				

DIMENSIONS are approx. and in millimeters

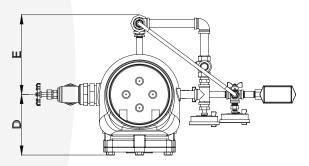


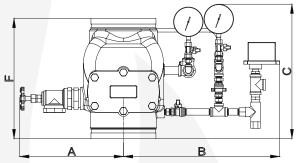




INSTALLATION DIMENSION WITH TRIM ALARM VALVE MODEL - H GROOVE X GROOVE 200 / 150 / 100 / 80 NB

A) CONSTANT PRESSURE TRIM

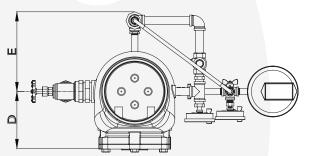


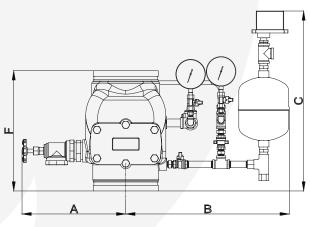


WITH CONSTANT PRESSURE TRIM						
SIZE	80NB	100NB	150NB	200NB		
А	279	312	331	350		
В	457	464	486	527		
С	439	443	442	443		
D	127	140	173	204		
Е	201	219	234	269		
F	280	300	324	405		

DIMENSIONS are approx. and in millimeters

B) VARIABLE PRESSURE TRIM





WITH VARIABLE PRESSURE TRIM						
SIZE	80NB	100NB	150NB	200NB		
А	279	312	331	350		
В	482	488	510	551		
С	593	596	596	607		
D	127	140	173	204		
Е	201	219	234	269		
F	280	300	324	405		

DIMENSIONS are approx. and in millimeters



