



TASK FORCE TIPS

Manual: Pressure Relief Valve

INSTRUCTIONS FOR SAFE OPERATION AND MAINTENANCE

This instruction manual is intended to familiarize firefighters and maintenance personnel with the operation, servicing and safety procedures associated with the Pressure Relief Valve.

This manual should be kept available to all operating and maintenance personnel.

⚠ WARNING

Read instruction manual before use. Operation of this device without understanding the manual and receiving proper training is a misuse of this equipment. A person who has not read and understood all operating and safety instructions is not qualified to operate the Pressure Relief Valve.

1.0 MEANING OF SAFETY WORDS

A safety related message is identified by a safety alert symbol and a signal word to indicate the level of risk involved with a particular hazard. Per ANSI standard Z535.4-1998 the definitions of the three signal words are as follows:

⚠ DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

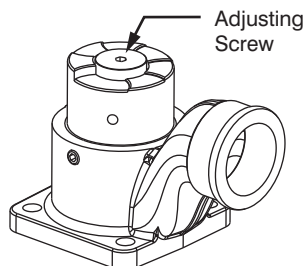
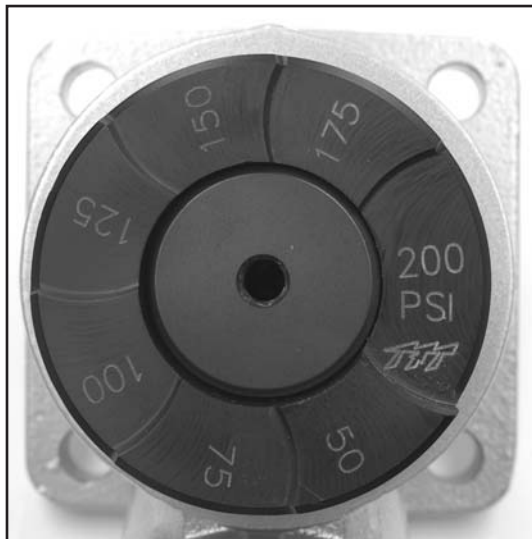
2.0 GENERAL INFORMATION

The Pressure Relief Valve may be set to any pressure between 50 and 200 p.s.i.. Its function is to protect the pump and the supply hose from excess pressure. The relief valve may be mounted with its opening facing the front, back, right or left. A section of tubing or pipe may be mounted on the round spout to route the water in any direction. To install the Pressure Relief Valve;

- 1) Install the O-ring in the groove on the Pressure Relief Valve.
- 2) Install four 7/16" bolts through the Pressure Relief Valve flange. Use a drop of thread locking compound on the threads of the bolts to prevent them from coming loose.

3.0 RELIEF VALVE PRESSURE SETTING

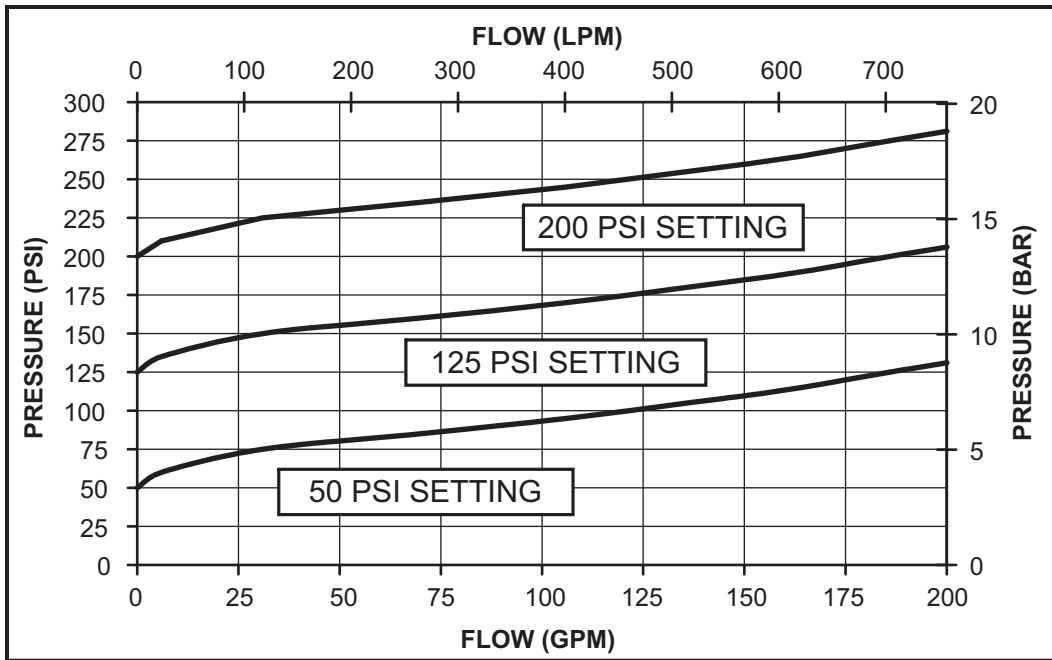
To set the relief valve pressure turn the adjusting screw on the relief valve housing until the surface of the screw is **even with the desired pressure**. Do not cap or plug discharge opening.



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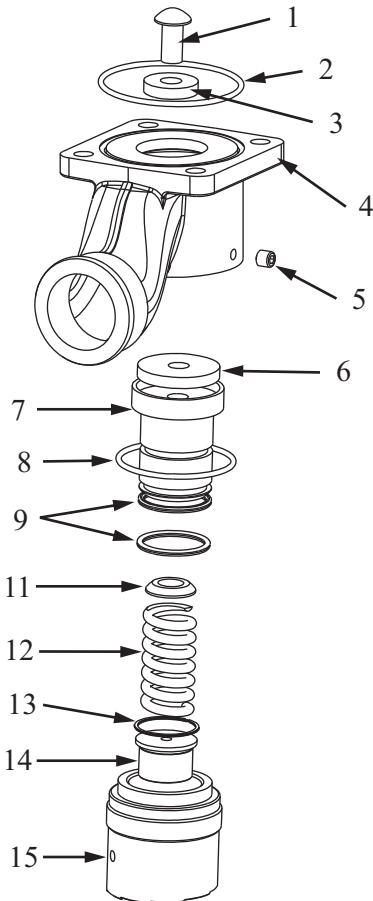
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4.0 RELIEF VALVE FLOW vs. PRESSURE CURVE



PRESSURE RELIEF VALVE PERFORMANCE

5.0 DRAWING AND PARTS LIST



Pressure Relief Valve 50 - 200 psi

Index	Description	QTY	Part #
1	1/2-13 X 1.0 BUTTON HEAD CAP SCREW	1	VT50-13BH1.0
2	O-RING-236 3-1/4 ID 1/8 C/S	1	VO-236
3	DEBRIS WASHER	1	A1169
4	HOUSING W/OUT THDS	1	A1150***
5	5/16-18 X 3/8 SOCKET SET SCREW CUP POINT	1	VT31-18SS375
6	VALVE SEAT	1	A1168
7	PISTON -HARDCOAT	1	A1160
8	O-RING-231 2-5/8 ID 1/8 C/S	1	VO-231
9	QUAD RING 422 1.5 ID X 1/8 C/S	2	VOQ-4222
11	SPRING SEAT	1	A1166
12	RELIEF SPRING	1	A1170
13	SMALLEY RING	1	V4210
14	ADJUSTING SCREW	1	A1167
15	SPRING HOUSING	1	A1164

***Index 4 Housing Choices

A1150	Housing with Waterous / Hale hole pattern. (TFT Standard) Plain discharge.
A1150PH	Housing with Waterous / Hale hole pattern. 2" NPT male discharge.
A1151	Housing with Darley hole pattern. Plain discharge.
A1151PH	Housing with Darley hole pattern. 2" NPT male discharge.

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