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# PRESSURE RESTRICTING ANGLE VALVE

WITH HYDROLATOR; FEMALE NPT INLET X FEMALE NPT OUTLET

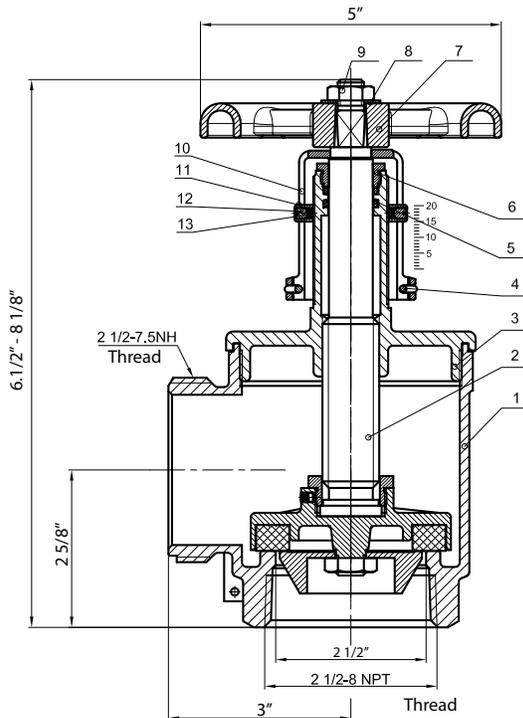
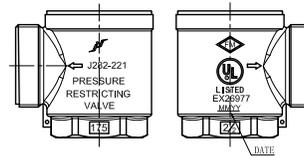
MODEL LVPRVA



## FEATURES:

300 lb (2070 KPa) pressure tested approved valve. Heavy Duty 1-1/2" (38 mm) pressure restricting angle hose and hydrolator valve. Automatically drains and vents, safeguarding against hose deterioration. O-ring packing and red cast handle. Forgeline Bonnet and Seat Assembly. Water pressure is controlled by adjustable flow restriction. If full flow is required, the restriction may be overridden. Furnished with field setting chart. Contains lead. Not for use in water systems intended for human consumption.

- SIZE : 1 1/2" F x FNST  
2 1/2" M x FNST  
2 1/2" M x FYFD



PRESSURE RESTRICTING ANGLE HOSE VALVE			
ITEM	PART	QTY	MATERIAL
1	Body	1	C37700
2	Spool Assembly	1	
3	Bonnet	1	C37700
4	Wire	1	304
5	O-Ring	2	EPDMA (A70)
6	Gland Nut	1	C37700
7	Wheel	1	ZL102
8	Washer	1	304
9	Wheel Nut	1	C37700
10	Set Numbers	1	C37700
11	Collar	1	C37700
12	Set Screw	2	304
13	Washer	1	PA6

\*Contact Lansdale for UL/FM listings

PROJECT	APPROVAL STAMP
PROJECT:	<input type="checkbox"/> APPROVED
ADDRESS:	<input type="checkbox"/> APPROVED AS NOTED
ENGINEER:	<input type="checkbox"/> NOT APPROVED
SUBMITTAL DATA:	REMARKS:
NOTES 1:	
NOTES 2:	

# Model LVPRVA

Pressure Restricting Fire Hose Valve  
(1 1/2" & 2 1/2")

## ❑ Installation ❑ Testing ❑ Maintenance Instructions

### INSTALLATION INSTRUCTIONS

#### Application

Lansdale Valve and Manufacturing Model LVPRVA valves are flow-adjustable to provide a range of the outlet pressures. The valves are designed and listed to operate at a maximum pressure of 175 PSIG.

#### VALVE ADJUSTMENT SETS DOWNSTREAM WATER PRESSURE UNDER (RESIDUAL) FLOWING CONDITIONS ONLY.

#### Installation

1. Pipe unions or rubber-gasketed fittings are to be installed immediately upstream and downstream of the valve to permit easy replacement.
2. Connect the valve to the piping.
3. Close the valve hand-tight.
4. Select setting number from proper Valve Pressure Adjustment Setting Curve.
5. Loosen set screw in collar.
6. Rotate indicator cap until top collar reaches selected setting number. See Figure 1.
7. Tighten set screw in collar. Valve is now set.



Figure 1. Pressure Adjustment

#### Determining Proper Outlet Pressure

Consult authorities having jurisdiction to confirm that the outlet pressures and flow rates meet requirements. NFPA 14 provides standards to ensure installation of fire hose valves will deliver adequate and reliable water supplies in a fire emergency.

#### In accordance with NFPA 14:

- Valves must provide minimum pressures for minimum flows based on valve sizes.
- Standpipe systems shall be designed to provide a required minimum water flow rate for a minimum residual pressure at the outlet of the hydraulically most remote hose station.

#### NFPA 14 Minimum Flow and Pressure Requirements

Size	Minimum Pressure Flow Rate (GPM)	Remote Hose Station Minimum Pressure (PSI)
1 1/2"	100	65
2 1/2"	250	100

#### Note:

There will be a pressure drop due to friction between the outlet and the nozzle. As a result, some fire hose nozzles may not operate properly when valve outlet pressure is set at the 100 PSI minimum authorized by NFPA14. Consult fire authorities concerning pressure needed by their equipment. The amount of the drop must be calculated by qualified personnel to ensure that the nozzle receives water pressure sufficient to its design. To determine the pressures at the hose nozzle, follow hydraulic calculations provided in the NFPA Fire Protection Handbook.

**WARRANTY:** Lansdale Valve and Manufacturing Valves are guaranteed against defects of material or workmanship when used for the services recommended. If in any recommended service, a defect develops due to material or workmanship, and the device is returned, freight prepaid, to Lansdale Valve and Manufacturing within 12 months from date of purchase, it will be repaired or replaced free of charge. Lansdale Valves Manufacturing' liability shall be limited to our agreement to repair or replace the valve only.

**WARNING:** This product is NOT Lead Free in accordance with U.S. Federal Law and is illegal in the U.S. for use in potable services or to install in water systems anticipated for human consumption.

⚠ **WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
⚠ **ADVERTENCIA:** Cáncer y daño reproductivo - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
⚠ **AVERTISSEMENT:** Cancer et néfastes sur la reproduction - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

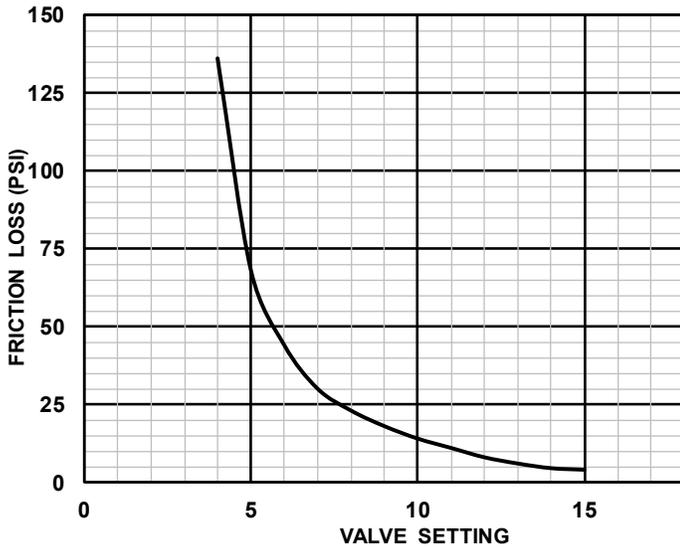
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Pressure Restricting Fire Hose Valve  
(1 1/2" & 2 1/2")

**Valve Pressure Adjustment Settings Curves** Curves indicate pressure at the outlet of the valve

## Pressure Restricting Fire Hose Valve

**FRICION LOSS AT 100 GPM  
MODEL F105 1 1/2"**



**FRICION LOSS AT 250 GPM  
MODEL F105 2 1/2"**

