

Pressure Relief Valve

Angle Type Pressure Relief Valves



Description

The HYFLO 700 pilot operated valve prevents over pressure, maintaining a constant preset system pressure regardless of fluctuating demands. It is UL-Listed (up to 350 psi) and FM-Approved according to NFPA-20. The valve offers reliable performance in: Refineries, petrochemical complexes, tank farms, high-rise buildings, aviation and airports, marine and on-shore installations.

Connection Standard

- Flanged: ANSI B16.42 (Ductile Iron), B16.5 (Steel & Stainless Steel), B16.24 (Bronze), ISO PN16

Water Temperature

- 0.5 - 80°C (33 - 180°F)

Pressure Rating

- Class #150: 30 - 235 psi (2 - 15 bar)
- Class #300: 100 - 350 psi (7 - 24 bar)



VALVE DIMENSIONS:

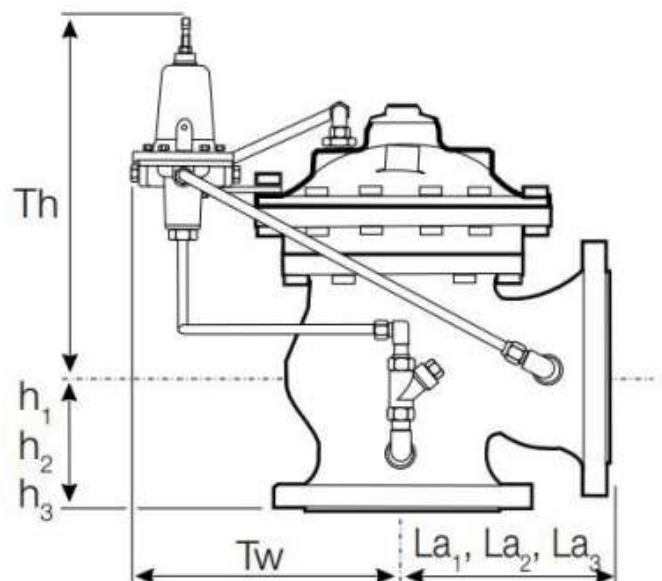
Size		1½"		2"		2½"		3"		4"		6"		8"		10"		12"	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Dimensions	La ₁ ⁽¹⁾	121	4¾	121	4¾	140	5½	152	6	190	7½	225	8⅞	265	10⅞	320	12⅝	396	15⅞
	La ₂ ⁽²⁾	120	4¾	120	4¾	140	5½	159	6¼	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	La ₃ ⁽³⁾	127	5	127	5	149	5⅞	159	6¼	200	7⅞	234	9⅜	277	10⅞	336	13¼	415	16⅝
	h ₁ ⁽¹⁾	82	3¼	82	3¼	102	4	102	4	127	5	152	6	203	8	219	8⅝	275	10⅞
	h ₂ ⁽²⁾	82	3¼	82	3¼	102	4	114	4½	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	h ₃ ⁽³⁾	89	3½	89	3½	109	4⅝	108	4¼	135	5⅝	165	6½	216	8½	235	9¼	294	11½
	Th	312	12⅝	312	12⅝	312	12⅝	364	14½	405	15⅝	505	20	566	22⅝	639	25⅜	449	17⅞

Notes:

1. La₁ & h₁ for Angle body, ANSI#150 and ISO PN16.
2. La₂ & h₂ for threaded female, NPT or BSP.
3. La₃ & h₃ for flanged ANSI #300 and ISO PN25.

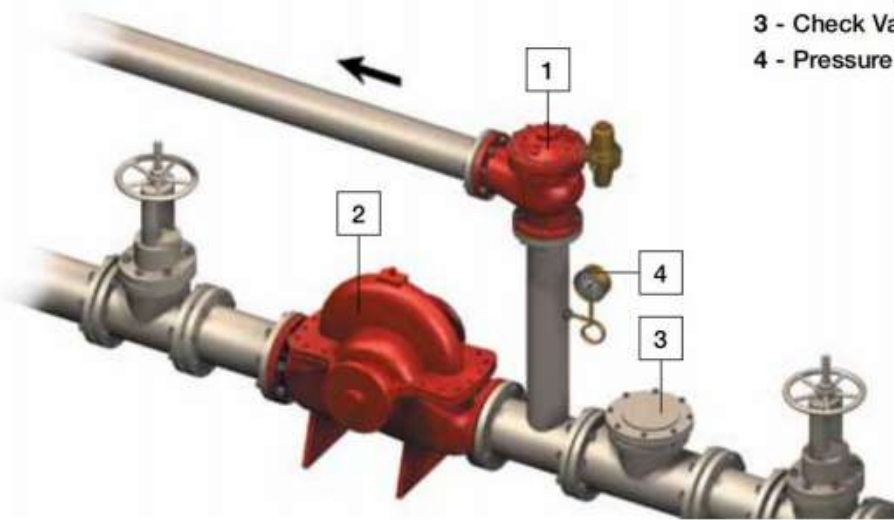
Sizes Angle)

- Available Y: 1½ - 20", Angle: 1½ - 12"
- UL Listed and FM approved: 2, 2½, 3, 4, 6 & 8"



Typical Installations

Installation with
Angle pressure
relief valve



System Components

- 1 - HYFLO Model 700
- 2 - Fire Pump
- 3 - Check Valve
- 4 - Pressure Gauge

Installation Considerations

- Valve size should be no less than NFPA-20 requirements.
 - Provide adequate clearance around valve for maintenance, ensuring that the actuator can be easily removed.
 - Design installation with the valve cover up for best performance.
 - Ensure that before the valve is installed, instructions are given to flush the pipeline at full flow.
- Installation with relief valve** UL Listed The HYFLO Model 700 is UL-Listed and FM-Approved when installed as a unit.

Installation

- 1 Before the valve is installed, flush the pipeline to remove any dirt, scale, debris, etc. Not flushing the line might result in the valve being inoperable.
- 2 In cases where the valve is used for individual pump pressure-relief, locate the relief valve between the pump and the pump discharge check valve. It shall be attached in a way that it can be readily removed for repairs without disturbing the piping.
- 3 Allow enough room around the valve assembly for any adjustments and future maintenance/disassembly work.
- 4 Install the valve in the pipeline with the valve flow arrow on the body casting in the proper direction. Use the lifting eye provided on the main valve cover for lifting and lowering the valve.
- 5 For best performance, install the valve horizontally with the cover up. However, other positions are acceptable. Ensure that the valve is positioned so that the actuator can be easily removed for future maintenance.
- 6 After installation, carefully inspect/correct any damaged accessories, piping, tubing, or fittings. Ensure that there are no leaks.

Discharge Chart

