

'Apollo' Valves

SUBMITTAL SHEET

LEAD FREE

36HLF Series

Model PRH-LF - High Capacity
Pressure Reducing Valve



Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO Number:	
Representative:	
Wholesale Distributor:	



DESCRIPTION

The Apollo® PRH-LF Lead Free* Pressure Reducing Valve (36HLF Series) is designed for commercial, industrial, and institutional applications to reduce incoming water pressure for protection of plumbing system components and to reduce water consumption. The valve is made with proven ASTM grade Lead Free* bronze and stainless steel materials. The PRH-LF provides high capacity flow with low pressure drop. It is designed with an integral by-pass relief to protect against thermal expansion downstream. The bottom access enables easy in-line cleaning or seat replacement.

FEATURES

- Dezincification resistant Lead Free* Bronze
- Sealed Spring Cage for Vault Installations
- Ultra-high Flow Capacity
- Internal Thermal Expansion By-pass
- Standard Factory Setting: 50 psi
- Three spring ranges cover 10 – 125 psi
- Stainless Steel Bolts and Spring
- 150 lb ANSI B16.24 Flange Connection Option
- In-line strainer option
- **100% MADE IN THE USA**

PERFORMANCE RATING

- Maximum Inlet Supply Pressure: up to 400 psig
- Temperature Range: 33 °F – 180 °F

APPROVALS

- NSF/ANSI 372 Lead Free 3rd party certified
- ASSE 1003
- CSA B356



STANDARD MATERIALS LIST

Part Name	Material
Body/Cap	Bronze, C89836 Lead Free*
Bonnet	Bronze, ASTM B584
Diaphragm	FDA approved EPDM W/ Polyester
Seat disc	FDA approved EPDM
Yoke	Bronze, C89836 Lead Free*
Springs	Stainless Steel
O-Rings	FDA approved Nitrile

PART NUMBER

36HLF - X	X	X	-	OX
END CONNECTIONS	OPTIONS	SIZE		PRESSURE RANGE
2 - FNPT x FNPT (Standard)	0 - Standard	3 - 1/2"	01	-25-75 psig (Standard)
7 - Flanged (2-1/2" - 3" only)	1 - With Y-Strainer	4 - 3/4"	02	-10-35 psig
		5 - 1"	03	-75-125 psig
		6 - 1-1/4"		
		7 - 1-1/2"		
		8 - 2"		
		9 - 2-1/2"		
		0 - 3"		

MODEL NUMBER

PRH - X	X	X	X	LF
END CONNECTIONS	ACCESSORIES	PRESSURE ADJ. RANGE		SIZE
T - Threaded	Y - with Y-Strainer	Standard - 25-75 psig (set at 50)	12	- 1/2"
F - ANSI 150# Flanges (2-1/2" - 3" only)		H - 75-125 psig (set at 100)	34	- 3/4"
		L - 10-35 psig (set at 25)	1	- 1"
			114	- 1-1/4"
			112	- 1-1/2"
			2	- 2"
			212	- 2-1/2"
			3	- 3"

* LEAD FREE: The wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with Federal Public Law 111-380. ANSI 3rd party approved and listed.

This specification is provided for reference only. Conbraco Industries Inc. reserves the right to change any portion of this specification without notice and without incurring obligation to make such changes to Conbraco products previously or subsequently sold. Please visit our website @ www.apollovalves.com for the most current information.

Apollo Valves, Manufactured by **Conbraco Industries, Inc.**
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DIMENSIONS

Model Number	Part Number	Size (in.)	Dimensions (in.)						Wt. (lbs.) w/strainer	Wt. (lbs.) wo/strainer
			A	B	C	D	E	F		
PRH-LF	36HLF-203	1/2	4.12	2.25	9.25	1.87	8.37	4.00	7.00	6.0
PRH-LF	36HLF-204	3/4	4.12	2.25	9.25	2.44	9.00	4.00	8.00	6.0
PRH-LF	36HLF-205	1	4.82	2.31	9.81	4.00	10.25	4.70	12.00	8.0
PRH-LF	36HLF-206	1-1/4	6.19	3.19	13.20	3.37	12.50	6.50	29.00	24.0
PRH-LF	36HLF-207	1-1/2	6.75	3.19	13.20	3.87	13.13	6.50	29.00	23.0
PRH-LF	36HLF-208	2	8.12	3.50	16.00	4.63	16.00	7.63	47.00	38.0
PRH-LF	36HLF-209	2-1/2	8.12	3.50	16.00	6.00	17.70	7.63	49.00	37.0
PRH-LF	36HLF-200	3	10.37	4.00	19.12	7.00	20.50	9.75	87.00	70.0
Flanged										
PRH-LF	36HLF-709	2-1/2	10.37	3.50	16.00	7.12	21.70	7.63	105.00	55.0
PRH-LF	36HLF-700	3	12.50	4.00	19.12	8.12	24.50	9.75	132.00	104.0

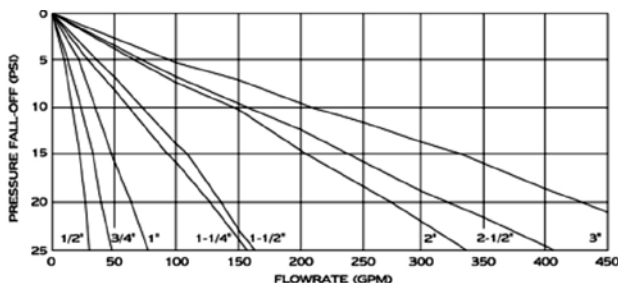
* Nominal dimensions are shown. Allowances must be made for manufacturers' tolerances.

FLOW CAPACITY (GPM)

Pipe Size	Fall-Off* (PSI)	Pressure Differential (PSI)			Pipe Size	Fall-Off* (PSI)	Pressure Differential (PSI)		
		25	50	75			25	50	75
1/2"	5	8.5	10	11.5	1-1/2"	5	29.8	35.0	40.3
	10	13.6	16	18.4		10	61.5	72.3	83.1
	15	17.9	21	24.2		15	90.1	106.0	121.9
	20	21.3	25	28.8		20	113.1	133.0	153.0
3/4"	5	10.6	12.5	14.4	2"	5	55.3	65.0	74.8
	10	20.4	24.0	27.6		10	126.7	149.0	171.4
	15	28.1	33.0	38.0		15	174.3	205.0	235.8
	20	34.0	40.0	46.0		20	231.2	272.0	312.8
1"	5	17.0	20.0	23.0	2-1/2"	5	58.7	69.0	79.4
	10	29.8	35.0	40.3		10	132.6	156.0	179.4
	15	40.8	48.0	55.2		15	200.6	236.0	271.4
	20	51.0	60.0	69.0		20	271.2	319.0	366.9
1-1/4"	5	21.3	25.0	28.8	3"	5	80.8	95.0	109.3
	10	51.9	61.0	70.2		10	176.0	207.0	238.1
	15	80.8	95.0	109.3		15	282.5	332.4	382.3
	20	106.3	125.0	143.8		20	365.5	430.0	494.5

* Fall Off is the difference between the PRV's set pressure and the flowing pressure at any given demand.

PRH SERIES PRV FLOW RATE VS. PRESSURE FALL-OFF



Note: Flow curves are based on static conditions of 100 psi inlet pressure and 50 psi outlet pressure. Pressure Fall-off is the decrease in downstream regulated pressure when the flow increases.

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