

**WATER PRESSURE
REDUCING VALVES**



WATER PRESSURE REDUCING VALVES

PR (36LF) SERIES

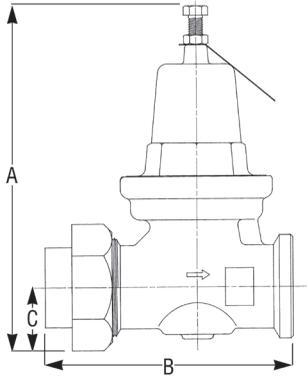


GENERAL PURPOSE RESIDENTIAL AND COMMERCIAL APPLICATIONS

The Apollo® 36LF pressure reducing valves reduce wasteful high supply pressures to lower manageable pressures. Factory set at 50 psig.

FEATURES

- Nitrile diaphragm (FDA grade) rated to 180°F Max.
- Corrosion resistant bronze body and cover construction
- No cage screws to rust
- Meets ASSE and CSA standards
- Listed with IAPMO
- Internal high-capacity SS strainer
- Maximum supply pressure 300 psi
- City of Los Angeles approved
- Replaceable cartridge
- Available in sizes from 1/2" to 2"
- Integral thermal expansion by-pass
- NSF/ANSI 372 Lead Free
- Standard materials remain available for irrigation, industrial, & international applications. May be ordered as 36-xxx-xx.
- **Made in USA**



Pipe Thread Union x FNPT	Solder Joint Union x FNPT	CPVC Union x FNPT	Size (in.)	Dimensions (in.)			Wt./100 (lbs.)
				A	B	C	
36LF-103-01	36LF-303-01		1/2	5.88	4.88	1.00	350
36LF-104-01	36LF-304-01	36LF-3C4-01	3/4	5.88	4.88	1.00	340
36LF-105-01	36LF-305-01	36LF-3C5-01	1	6.88	5.50	1.12	450
36LF-106-01	36LF-306-01		1-1/4	8.88	6.50/6.63	1.37	1020
36LF-107-01	36LF-307-01		1-1/2	8.88	6.63/6.75	1.37	1045
36LF-108-01	36LF-308-01		2	11.50	8.50/8.88	1.81	2250

FNPT x FNPT (no union)							
Pipe Thread Union x FNPT	Solder Joint Union x FNPT	CPVC Union x FNPT	Size (in.)	Dimensions (in.)			Wt./100 (lbs.)
				A	B	C	
36LF-203-01			1/2	5.88	4.00	1.00	311
36LF-204-01			3/4	5.88	3.88	1.00	305
36LF-205-01			1	6.88	4.38	1.12	415
36LF-206-01			1-1/4	8.88	5.38	1.37	910
36LF-207-01			1-1/2	8.88	5.38	1.37	909
36LF-208-01			2	11.50	7.12	1.81	1880

Double Union FNPT x FNPT	Double Union Solder x Solder	Double Union CPVC x CPVC	Size (in.)	Dimensions (in.)			Wt./100 (lbs.)
				A	B	C	
36LF-403-01	36LF-503-01		1/2	5.88	5.63	1.00	389
36LF-404-01	36LF-504-01	36LF-5C4-01	3/4	5.88	5.63	1.00	372
36LF-405-01	36LF-505-01		1	6.88	6.38	1.12	495
36LF-406-01	36LF-506-01		1-1/4	8.88	7.50/7.75	1.37	1090
36LF-407-01	36LF-507-01		1-1/2	8.88	7.88/8.00	1.37	1183
36LF-408-01	36LF-508-01		2	11.50	9.88/10.50	1.81	2472
36LF-904-01	Pex x Pex		3/4	6.12	5.81	1.00	372
36LF-9C4-01	Union CPVC	Pex Union	3/4	6.12	5.81	1.00	372

PART NUMBER MATRIX

36LF							
SERIES	CONNECTION	OPTIONS	SIZE	GAUGE	PRESSURE (ADJUSTABLE)	OPTION	
36LF	1 - Single Union NPT	0 - No Option	03 - 1/2"	0 - No Gauge	1 - 25-75 psig	PR - Press	
36 (non potable)	2 - No Union NPT	C - CPVC Tailpiece	04 - 3/4"	P - With Gauge Port	2 - 10-35 psig	(applies to models 36-20x and 36LF20x only)	
	3 - Single Union Solder x NPT	S - Sealed Cage*	05 - 1"	G - With Gauge	3 - 75-125 psig		
	4 - Double Union NPT	X - Pex Tailpiece	06 - 1-1/4"				
	5 - Double Union Solder		07 - 1-1/2"				
	8 - Double Union CPVC		08 - 2"				
	9 - Double Union Pex						

*S option = Sealed cage with stainless steel adjusting screw for vault installation.

WATER PRESSURE REDUCING VALVES



PRC (36CLF) SERIES

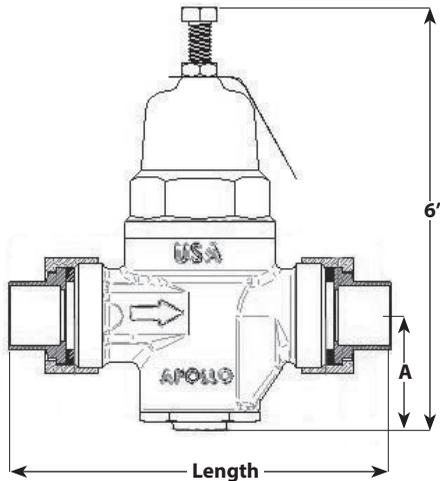


COMPACT RESIDENTIAL AND COMMERCIAL APPLICATIONS

The Apollo® 36CLF reduces wasteful high supply pressures to lower manageable pressures. All-bronze body, dielectric polymer cage, stainless steel strainer and trim. In line repairable with bottom access without disturbing pressure setting.

FEATURES

- EPDM FDA grade diaphragm
- Standard factory setting: 50 psi
- Adjusts from 25 to 75 psi (standard)
- Sealed cage with stainless steel adjusting screw
- Balanced piston design
- Built-in thermal expansion by-pass
- Integral SS strainer
- 400 psi max. supply pressure
- Single or double union, female NPT, PEX, CPVC, Press, or solder-joint connections
- ASSE 1003 & CSA B356
- IAPMO listed
- City of Los Angeles approved
- NSF 372 Lead Free
- Standard materials available as 36C option
- **Made in USA**



Series Number	LF Series Number	Size (in.)	Dimensions (in.)		Wt./100 (lbs.)
			Length	A	
FNPT Inlet x Outlet (no union)					
36C-203	36CLF-203	1/2	3.63	1.62	200
36C-204	36CLF-204	3/4	3.63	1.62	200
36C-205	36CLF-205	1	3.75	1.50	225
FNPT Union Inlet x FNPT Outlet					
36C-103	36CLF-103	1/2	4.50	1.62	240
36C-104	36CLF-104	3/4	4.50	1.62	240
36C-105	36CLF-105	1	4.63	1.50	270
Sweat Union Inlet x FNPT Outlet					
36C-303	36CLF-303	1/2	4.50	1.62	240
36C-304	36CLF-304	3/4	4.50	1.62	240
36C-305	36CLF-305	1	4.63	1.50	270
CPVC Union Inlet x FNPT Outlet					
36C-304-01C	36CLF-304-01C	3/4	4.75	1.62	240
36C-305-01C	36CLF-305-01C	1	4.41	1.50	270
Double Union/Threaded Inlet x Threaded Outlet					
36C-403	36CLF-403	1/2	5.50	1.62	280
36C-404	36CLF-404	3/4	5.50	1.62	280
36C-405	36CLF-405	1	5.75	1.50	310
Double Union/Sweat Inlet x Sweat Outlet					
36C-503	36CLF-503	1/2	5.50	1.62	280
36C-504	36CLF-504	3/4	5.50	1.62	280
36C-505	36CLF-505	1	5.75	1.50	310
Double Union CPVC Inlet x CPVC Outlet					
36C-504-01C	36CLF-504-01C	3/4	5.37	1.62	280
36C-505-01C	36CLF-505-01C	1	5.87	1.50	310
Double Union/Pex Inlet x Pex Outlet					
36C-903	36CLF-903	1/2	5.625	1.62	280
36C-904	36CLF-904	3/4	5.625	1.62	280
36C-905	36CLF-905	1	6.125	1.62	285

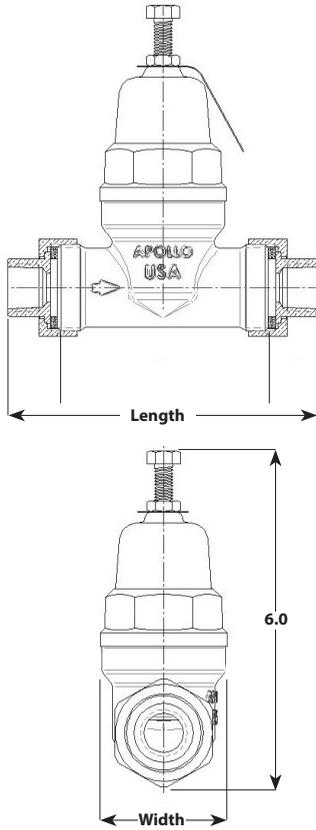
PART NUMBER MATRIX

36CLF	36C	X	X	X	X	X	X
SERIES	CONNECTION	SIZE	GAUGE	PRESSURE (ADJUSTABLE)	OPTION		
36CLF	1 - Single Union NPT	03 - 1/2"	0 - No Gauge	1 - 25-75 psig	C - CPVC Tailpiece		
36C (non potable)	2 - No Union NPT	04 - 3/4"	P - With Gauge Port Plugged	2 - 10-35 psig	X - Extended Union		
	3 - Single Union Solder x NPT	05 - 1"	G - With Gauge	3 - 75-125 psig	PR - Press		
	4 - Double Union NPT						
	5 - Double Union Solder						
	9 - Double Union PEX						



WATER PRESSURE REDUCING VALVES

PRE (36ELF) SERIES



HIGH EFFICIENCY FOR RESIDENTIAL AND COMMERCIAL APPLICATIONS

The Apollo® 36ELF is designed to protect residential and commercial water supplies by automatically reducing elevated supply pressures. The streamlined dezincification resistant bronze body and dielectric polymer cage provide maximum corrosion resistance. Designed for easy in-line servicing with simple cartridge removal.

FEATURES

- High efficiency flow
- Balanced piston design
- Sealed cage for vault installations
- Built-in thermal expansion by-pass
- Integral stainless steel strainer
- SS adjusting screw and nut
- Control pressure ranges: 15-75 psi and 75-150 psi
- Maximum supply pressure: 400 psig
- Working temperature range: 33°F - 180°F
- NSF 61 Water Quality & NSF 372 Lead Free
- Standard materials available for irrigation, industrial & international applications. May be ordered as 36E-xxx-xxx.
- 100% manufactured in USA

Pipe Size	Fall-Off (PSI)	Pressure Differential (PSI)		
		25	50	75
1/2"	10	10	13	16
	15	13	18	22
	20	17	23	29
	30	22	29	36
3/4"	10	16	21	26
	15	20	27	32
	20	24	32	40
	30	29	38	48
1"	10	14	31	37
	15	22	37	42
	20	28	41	46
	30	36	43	50

Size	Connection	No Union Length (in.)	Single Union Length (in.)	Double Union Length (in.)	Width (in.)	WT. (Union) (lbs)
1/2	Thread	3.62	4.50	5.50	2.75	2.4
	Solder	3.62	4.50	5.50	2.75	2.4
	PEX	3.63	4.50	5.50	2.75	2.4
	CPVC	3.63	4.25	5.00	2.75	2.4
	XPress	5.6	4.6	5.48	2.75	2.4
	Push	5.7	N/A	N/A	2.75	2.4
3/4	Thread	3.62	4.50	5.50	2.75	2.4
	Solder	3.62	4.50	5.50	2.75	2.4
	PEX	3.63	4.63	5.63	2.75	2.4
	CPVC	3.63	4.50	5.50	2.75	2.4
	XPress	5.6	4.6	5.79	2.75	2.4
	Push	5.7	N/A	N/A	2.75	2.4
1	Thread	3.62	4.63	5.75	3.38	2.7
	Solder	3.62	4.63	5.75	3.38	2.7
	PEX	3.63	4.75	6.00	3.38	2.7
	CPVC	3.63	4.75	6.00	3.38	2.7
	XPress	5.8	4.6	5.91	3.38	2.7
	Push	5.8	N/A	N/A	3.38	2.7

PART NUMBER MATRIX

36ELF						
36E	1	X	X	X	X	X
SERIES	STYLE	UNION	SIZE	PRESSURE	CONNECTION	OPTION
36ELF - Lead Free	1	0 - No Union (NPT)	3 - 1/2"	01 - 15-75 psig	T - FNPT Thread	B - Bronze Cap
36E -		1 - Single Union	4 - 3/4"	03 - 75-150 psig	S - Solder	
Non-Lead Free		2 - Double Union	5 - 1"		C - CPVC	
					P - Push	
					X - PEX	
					PR - Press	

EXAMPLES:

36ELF-114-01T = 3/4" Single Union with NPT Connections, Lead Free, 15-75 psig.

36ELF-124-01S = 3/4" Double Union with Solder Connections, Lead Free, 15-75 psig.

WATER PRESSURE REDUCING VALVES



PRE (36ELF) SERIES



Now Available! **New!**



SUPER EFFICIENT RESIDENTIAL AND COMMERCIAL APPLICATIONS

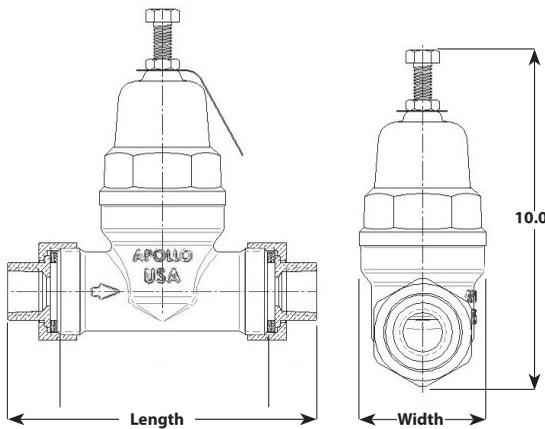
The new Apollo® Lead Free Pressure Reducing Valve Model PRE (36ELF Series) is designed to protect residential and commercial water distribution systems by automatically reducing excessive supply pressures. The dezincification resistant bronze body, stainless steel adjusting screw and dielectric polymer cage provide maximum corrosion resistance. Designed for easy in-line servicing with simple cartridge removal.

FEATURES

- NSF/ANSI 372 LeadFree
- Balanced Piston Design
- Sealed Cage for vault installations
- Built-in Thermal Expansion By-Pass
- Large Area Integral Stainless Steel Strainer
- Modular Seat Disc and Strainer Cartridge
- Polymer cage is standard
Bronze cage is optional (-B)
- Maximum Supply Pressure: 400psi
- Working Temp. Range: 33°F – 180°F
- High flow / high efficiency design
- NPT and Solder connections
- Factory tested and preset at 60 psi
- NSF 61 Water Quality & NSF 372 Lead Free
- ASSE 1003, CSA 356
- Standard materials remain available for irrigation, industrial & international applications. May be ordered as 36E-xxx-xxx.
- **100% Manufactured in USA – ARRA Compliant**

OPTIONS

- 36E with standard material for non-potable applications
- -P Tapped 1/4" NPT & plugged
- -G With pressure gauge
- -B Bronze cage option **New!**



Pipe Size (in.)	Fall Off* (PSI)	Pressure Differential (PSI)		
		25	50	75
1-1/4"	10	35	47	59
	15	58	77	96
	20	85	113	141
	30	99	132	165
	Water Capacity (GPM)			
1-1/2"	10	66	88	110
	15	81	108	135
	20	96	128	160
	30	104	138	172
2"	10	81	108	135
	15	109	145	181
	20	116	155	194
	30	128	170	212

Size	Connection	No Union Length (in.)	Single Union Length (in.)	Double Union Length (in.)	Width (in.)	Polymer - WT. (Union) (lbs)
1-1/4"	Thread	5.50	6.62	7.74	3.38	4.5
	Solder	5.50	6.62	7.74	3.38	4.4
1-1/2"	Thread	5.50	6.80	8.10	3.38	4.3
	Solder	5.50	6.80	8.10	3.38	4.0
2"	Thread	5.50	6.93	8.36	3.38	4.5
	Solder	5.50	6.93	8.36	3.38	4.4

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

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

PART NUMBER MATRIX

36ELF - 36E -	1	X	X	X	X	X	X
	STYLE	UNION	SIZE	GAUGE	PRESSURE	CONNECTION	OPTION
36ELF -Lead Free	1	0 - No Union (NPT)	6 - 1-1/4"	0- No gauge	1 - 15-75 psig	T - FNPT Thread	Blank -
36E -Standard		1 - Single Union	7 - 1-1/2"	P- Tapped & Plugged	3 - 75-150 psig	S - Solder	Polymer Cap
		2 - Double Union	8 - 2"	G - With gauge			B - Bronze Cap Y - Strainer

EXAMPLE:

36ELF-116-01T = Lead Free 1-1/4" Single Union with NPT Connections, Pressure Range 15-75 psig.



WATER PRESSURE REDUCING VALVES

PRH (36HLF) SERIES

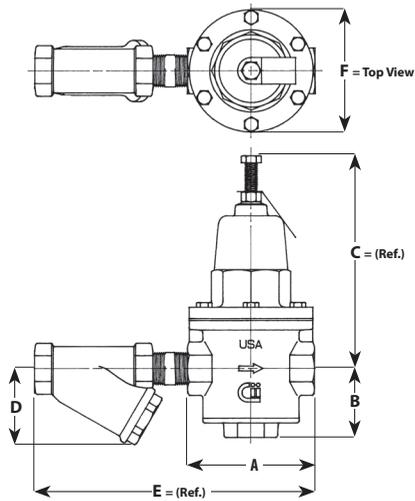


HIGH FLOW DESIGN FOR LARGE COMMERCIAL APPLICATIONS

The Apollo® 36HLF reduces wasteful elevated supply pressures to a lower manageable pressure. Available with threaded or flange connections and optional rugged Y strainer.

FEATURES

- Approved to ASSE and CSA standards; listed with IAPMO
- Large yoke-type design aids flow and reduces pressure loss
- Initial pressure up to 400 psig
- Maximum temperature 180°F
- Integral by-pass relief protects against thermal expansion
- Bronze body & cage, stainless steel replaceable seat
- Sizes: 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", & 3" NPT - threads (inlet and outlet); 2-1/2" & 3" also offered in 150 lb. flange
- Bottom access for easy inline repair
- Sealed cage is standard
- Stainless steel bolts, adjustment screws and spring
- NSF/ANSI 372 Lead Free
- Standard materials remain available for irrigation, industrial & international applications. May be ordered as 36H-xxx-xxx.
- **Made in USA**



Size (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	Wt. w Strainer (lbs.)	Wt. w/o Strainer (lbs.)
NPT								
1/2"	4.12	2.25	7.00	1.88	8.38	4.00	7.0	6.00
3/4"	4.12	2.25	7.00	2.44	9.00	4.00	8.0	6.00
1"	4.82	2.31	7.50	4.00	10.25	4.69	12.0	8.00
1-1/4"	6.19	3.19	10.00	3.38	12.50	6.50	29.0	24.00
1-1/2"	6.75	3.19	10.00	3.88	13.13	6.50	29.0	23.00
2"	8.12	3.50	12.50	4.63	16.00	7.63	47.0	38.00
2-1/2"	8.12	3.50	12.50	5.94	16.69	7.63	49.0	37.00
3"	10.37	3.94	15.13	6.94	20.50	9.75	87.0	70.00
Flanged								
2-1/2"	10.37	3.50	12.50	7.13	21.69	7.63	105.0	55.00
3"	12.50	3.94	15.13	8.13	24.50	9.75	136.0	92.00

PART NUMBER MATRIX

36HLF	X	X	X	X	-	OX
SERIES	END CONNECTIONS	OPTIONS	SIZE	SIZE	SIZE	PRESSURE RANGE
36HLF (Lead Free)	2 - FNPT x FNPT (Standard)	0 - Standard	3 - 1/2"	01	-	25-75 psig (Standard)
36H (non potable)	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"			

WATER PRESSURE REDUCING VALVES



A127 SERIES



LARGE COMMERCIAL AND INDUSTRIAL APPLICATIONS

Apollo pilot control valves are ideal for a wide range of commercial and industrial applications, wherever the supply pressure needs to be reduced to a lower constant pressure.

Hydraulically operated diaphragm main valve automatically controls non-corrosive, non-abrasive fluids by means of a wide range of pilots.

FEATURES

- Ductile Iron Body & Bonnet, ASTM A536 Grade 65-45-12
- NSF Epoxy coated
- Bronze / stainless steel internals
- EPDM elastomers 40°F - 180°F
- Lead Free components used throughout
- Lead Free wye strainer protects pilot system from debris
- Isolation ball valves simplify maintenance and trouble shooting
- Each valve is 100% factory tested and can be pre-set to your requirements
- Wide range of control pilots and functions
- Opening speed control is standard
- Automatically reduces a higher up stream pressure to a constant lower downstream pressure
- Constant outlet pressure regardless of variations in upstream pressure or flow
- NSF/ANSI 372 Lead Free
- Pilot operated main valve is not subject to pressure fall-off
- Outlet pressure is adjustable with a single screw
- Optional low-flow bypass, Model A127-LF when wide extremes in flow demand are anticipated

MATERIAL OPTIONS

- Stainless steel pilots and tubing
- Stainless steel internals
- Stainless Steel
- Bronze
- Aluminum
- Nickel aluminum bronze
- Viton and Buna-N elastomers
- Carbon Steel

OTHER CONTROL FUNCTIONS

A94	Diaphragm Check Valve
A108-2	Pressure Relief/Pressure Sustaining
A110	Differential Control
A115-2	Solenoid Control
A115-4	Solenoid Control/high capacity pilot
A120	Rate of Flow Control
A127LF/727LF	Low flow bypass
A800	Float Controlled On/Off Service
A810	Float Controlled, Modulating
A22 / A88	Digital Electronic Control, regulates pressure, flow or level

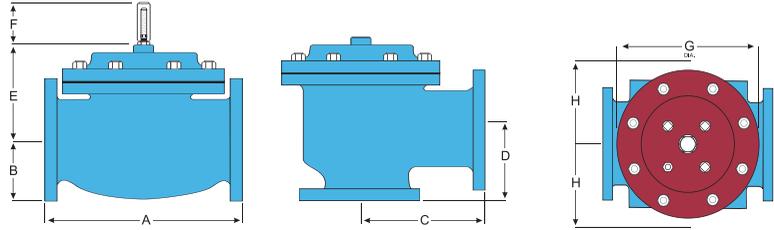
*Contact customer service for assistance with sizing, selection and model numbers

Valve Sizes	
Globe Flanged	1 1/4" - 24"
Angle Flanged	1 1/4" - 16"
Globe / Angle Threaded	1 1/4" - 3"
Globe / Angle Grooved	1 1/2" - 4"
Service Ratings - Ductile Iron	
150# Flanged	250 psi MAWP
300# Flanged	640 psi MAWP
Threaded	640 psi MAWP
Grooved	300 psi MAWP



WATER PRESSURE REDUCING VALVES

A127 SERIES (CONT.)



Size (in.)	End Connections A				End Connections C				End Connections D				E		H	
	Screwed	Grooved	150# FLGD	300# FLGD	Screwed	Grooved	150# FLGD	300# FLGD	Screwed	Grooved	150# FLGD	300# FLGD	All	All		
1-1/4 - 1-1/2	8-3/4	8-3/4	8-1/2	8-3/4	4-3/8	4-3/8*	4-1/4	4-3/8	3-1/8	3-1/8*	3	3-1/8	6	10		
2	9-7/8	9-7/8	9-3/8	9-7/8	4-3/4	4-3/4	4-3/4	5	3-7/8	3-7/8	3-7/8	4-1/8	6	11		
2-1/2	10-1/2	10-1/2	10-1/2	11-1/8	6	6	6	6-3/8	4	4	4	4-3/8	7	11		
3	13	13	12	12-3/4	6-1/2	6-1/2	6	6-3/8	4-1/2	4-1/2	4	4-3/8	6 1/2	11		
4	—	15 1/4	15	15-5/8	—	7-5/8	7-1/2	7-13/16	—	5-5/8	5-1/2	5-13/16	8	12		
6	—	—	17-3/4	18-5/8	—	—	10	10-1/2	—	—	6	6-1/2	10	13		
8	—	—	25-3/8	26-3/8	—	—	12-11/16	13-3/16	—	—	8	8-1/2	11 7/8	14		
10	—	—	29-3/4	31-1/8	—	—	14-7/8	15-9/16	—	—	11-3/8	12-1/16	15 3/8	17		
12	—	—	34	35-1/2	—	—	17	17-3/4	—	—	11	11-3/4	17	18		
14	—	—	39	40-1/2	—	—	—	—	—	—	—	—	18	20		
16	—	—	40-3/8	42	—	—	20-13/16	21-5/8	—	—	15-11/16	16-1/2	19	20		
24	—	—	62	63-3/4	—	—	—	—	—	—	—	—	27	28-1/2		

*Grooved End Not Available in 1-1/4"

For further information request catalog ACVBR9000

Water Pressure Reducing Valves Accessories

W-8078-00 SERIES



W-8078-00

PRESSURE GAUGES

These pressure gauges are used for testing water pressure. Temp. Range: 50°-130° F - P/N W807800. Includes a high-pressure indicator.

Model Number	LF Model Number	Connection	Pressure Range	Net Wt. (lbs.)
W-8078-00	—	3/4" hose thread	0-300 psig	.46
	W-2799-00	1/4" NPT	0-160 psig	.70



W-2799-00