

36E Series

Pressure Reducing Valve



Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO#:	
Rep:	
Wholesale Dist.:	

DESCRIPTION

The Apollo 36E Series Pressure Reducing Valve is designed to conserve water and protect water distribution systems by automatically reducing elevated supply pressures. Ideal for industrial and irrigation applications. The dezincification resistant bronze body and dielectric polymer cage provide maximum corrosion resistance. Designed for easy in-line servicing with simple cartridge removal.

FEATURES

- Balanced Piston Design
- SS Adjusting Screw & Nut
- Sealed Cage for Vault Installations
- Built-in Thermal Expansion Bypass
- Large Area Integral Stainless Steel Strainer
- Modular Seat Disc and Strainer Cartridge
- Control Pressure Ranges:
15-75 psi and 75-150 psi
- Factory Tested and Preset at 60 psi
- High Flow / High Efficiency Design
- NPT, Solder, PEX, CPVC,
Push & Press Connections
- Single, Double & Less Union
Configurations Available
- 100% Manufactured in USA – ARRA Compliant**

PERFORMANCE RATING

- Maximum Supply Pressure: 400 psig
- Push & Press Max Supply Pressure: 200 psig
- Working Temperature Range: 33°F – 180°F

APPROVALS

- ASSE 1003
- IAPMO/UPC
- CSA B356

OPTIONS

- (-B) - Bronze Cap** **NEW!**
- (-P) - Tapped w/ Plug (LF Models Only)
- (-G) - Tapped w/ Gauge (LF Models Only)
- (-O3) - High Pressure 75-150 psi
- (36ELF) - Certified Lead Free
- Direct Press Connections, See Submittal SS1286
- Direct Push Connections, See Submittal SS1284

STANDARD MATERIALS LIST

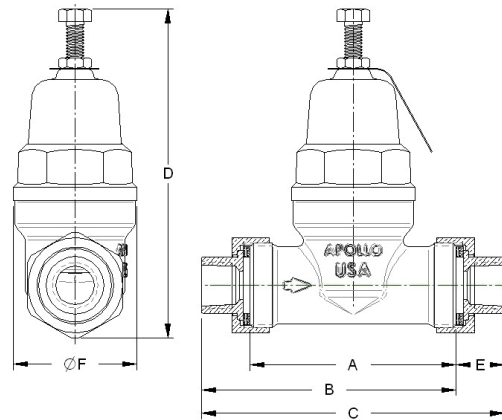
BODY	Bronze, ASTM B584
UNION NUT	Brass, ASTM B16
TAILPIECE	Brass, ASTM B16
SCREEN	Stainless Steel
CAP	Noryl
DIAPHRAGM	NSF Grade EPDM
SEAT DISC	NSF Grade EPDM
ADJUSTING SCREW/NUT	Stainless Steel
SPRING	Spring Steel, ASTM 228
O-RINGS	NSF Grade EPDM

DIMENSIONS

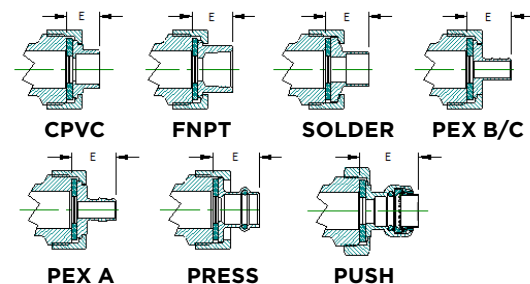
CONNECTION TYPE	SIZE (IN.)	DIMENSIONS (IN.)						WEIGHTS (LB.)	
		A	B	C	D	E	F	SINGLE UNION	DOUBLE UNION
Thread - FNPT	1/2	3.625	4.58	5.53	6	0.95	2.75	2.4	2.75
Solder		3.625	4.56	5.49	6	0.93	2.75	2.4	2.75
CPVC		3.625	4.33	5.03	6	0.70	2.75	2.4	2.75
PEX A		3.625	4.83	6.03	6	1.20	2.75	2.7	3.01
PEX B/C		3.625	4.65	5.67	6	1.02	2.75	2.7	2.99
Push		3.625	4.86	6.09	6	1.23	2.75	2.9	3.02
Push*		3.625	5.10	6.57	6	1.47	2.75	2.8	2.92
Press		3.625	4.62	5.61	6	0.99	2.75	2.9	3.02
Press*		3.625	4.97	6.31	6	1.34	2.75	2.4	2.75
Thread - FNPT	3/4	3.625	4.56	5.49	6	0.93	2.75	2.4	2.75
Solder		3.625	4.56	5.49	6	0.93	2.75	2.4	2.75
CPVC		3.625	4.55	5.47	6	0.92	2.75	2.4	2.75
PEX A		3.625	4.83	6.03	6	1.20	2.75	2.7	3.02
PEX B/C		3.625	4.88	6.13	6	1.25	2.75	2.7	2.98
Push		3.625	5.41	7.19	6	1.78	2.75	2.9	3.02
Push*		3.625	5.23	6.83	6	1.60	2.75	2.8	3.23
Press		3.625	4.77	5.91	6	1.14	2.75	2.9	3.02
Press*		3.625	5.13	6.63	6	1.50	2.75	2.4	2.75
Thread - FNPT	1	3.625	4.69	5.75	6	1.06	3.38	2.4	2.86
Solder		3.625	4.69	5.75	6	1.06	3.38	2.4	2.86
CPVC		3.625	4.79	5.95	6	1.16	3.38	2.4	2.86
PEX A		3.625	4.80	5.97	6	1.17	3.38	3.2	3.65
PEX B/C		3.625	5.18	6.73	6	1.55	3.38	3.1	3.56
Push		3.625	5.59	7.55	6	1.96	3.38	3.2	3.65
Push*		3.625	5.54	7.45	6	1.91	3.38	3.3	3.91
Press		3.625	4.81	5.99	6	1.18	3.38	3.2	3.65
Press*		3.625	5.25	6.87	6	1.62	3.38	2.4	2.86

*Direct Connect

PEX A (ASTM F1960) - Cold Expansion PEX | PEX B/C (ASTM F1807) - Crimp Style PEX



TAILPIECES



36E Series

Pressure Reducing Valve

PART NUMBER MATRIX

36ELF 36E	1	X	X	XX	X	X
SERIES	STYLE	UNION	SIZE	PRESSURE RANGE	CONNECTION	OPTION
36ELF (LEAD FREE)	1	0 - NO UNION NPT	3 - 1/2"	01 - 15-75 PSIG RANGE	T - FNPT THREAD	B - BRONZE CAP
36E		1 - SINGLE UNION	4 - 3/4"	03 - 75-150 PSIG RANGE	S - SOLDER	
		2 - DOUBLE UNION	5 - 1"		C - CPVC	
					X - PEX B/C (F1807)	
					P - PUSH*	
					PR - PRESS**	
					X2 - PEX A (F1960)	

PEX A (ASTM F1960) - Cold Expansion PEX

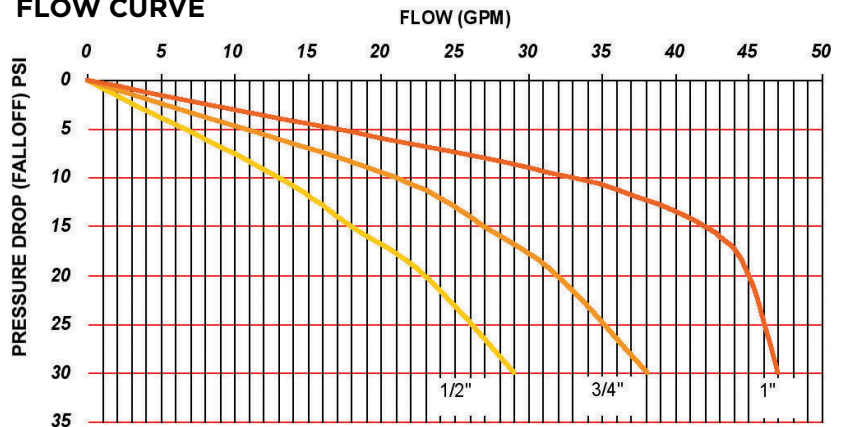
PEX B/C (ASTM F1807) - Crimp Style PEX

* Available in Direct Connection, Single Union x NPT, and Double Union

** Available in Direct Connection, and Double Union

PIPE SIZE	*FALLOFF (PSI)	PRESSURE DIFFERENTIAL (PSI)		
		25	50	75
		WATER CAPACITY (GPM)		
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	25	33	41
	15	30	42	52
	20	34	45	56
	30	35	47	59

FLOW CURVE



*Falloff is the difference between the PRV's set pressure and the flowing pressure at any given demand
 Pressure Differential is the difference between the inlet supply pressure and the adjusted outlet pressure.
 Pressure Falloff is the reduction in downstream pressure from the static (set) pressure as the flow increases through the valve.

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Pressure Reducing Valve



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Job Location:	
Engineer:	
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DESCRIPTION

The new large diameter Apollo 36E Series Pressure Reducing Valve is designed to conserve water and protect water distribution systems by automatically reducing elevated supply pressures. Ideal for industrial and irrigation applications. The dezincification resistant bronze body and dielectric polymer cage provide maximum corrosion resistance. Designed for easy in-line servicing with simple cartridge removal.

FEATURES

- Balanced Piston Design
- SS Adjusting Screw & Nut
- Sealed Cage for Vault Installations
- Built-in Thermal Expansion Bypass
- Large Area Integral Stainless Steel Strainer
- Modular Seat Disc and Strainer Cartridge
- Control Pressure Ranges:
15-75 psi and 75-150 psi
- High Flow / High Efficiency Design
- NPT & Solder Connections
- Factory Tested and Preset at 60 psi
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PERFORMANCE RATING

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- CSA B356

OPTIONS

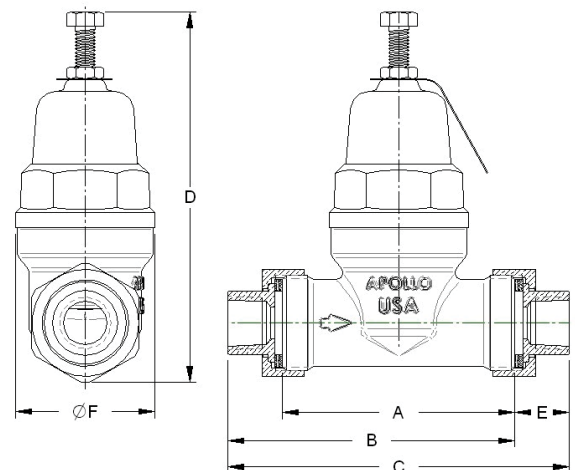
- (-B) - Bronze Cap** **NEW!**
- (-P) - Tapped w/ Plug
- (-G) - Tapped w/ Gauge
- (-03) - High Pressure 75-150 psi
- (36ELF) - Certified Lead Free

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UNION NUT	Brass, ASTM B16
TAILPIECE	Brass, ASTM B16
SCREEN	Stainless Steel
CAP	Noryl
DIAPHRAGM	NSF Grade EPDM
SEAT DISC	NSF Grade EPDM
ADJUSTING SCREW/NUT	Stainless Steel
SPRING	Spring Steel, ASTM 228
O-RINGS	NSF Grade EPDM

DIMENSIONS

SIZE (IN.)	DIMENSIONS (IN.)						SINGLE UNION WT. (LB.)	DOUBLE UNION WT. (LB.)
	A	B	C	D	E	F		
THREADED								
1-1/4"	5.5	6.62	7.74	10	1.12	3.38	7.22	8.34
1-1/2"	5.5	6.8	8.1	10	1.3	3.38	7.61	8.92
2"	5.5	6.93	8.36	10	1.43	3.38	9.2	11.6
SOLDER								
1-1/4"	5.5	6.62	7.74	10	1.12	3.38	7.22	8.34
1-1/2"	5.5	6.8	8.1	10	1.3	3.38	7.61	8.92
2"	5.5	6.93	8.36	10	1.43	3.38	9.2	11.6
PRESS (WITH UNIONS)								
1-1/4"	5.5	6.80	8.10	10	1.30	3.38	N/A	9.4
1-1/2"	5.5	7.22	8.94	10	1.72	3.38	N/A	9.5
2"	5.5	7.44	9.38	10	1.94	3.38	N/A	11.6
PRESS (DIRECT CONNECTORS)								
1-1/4"	5.5	N/A	7.98	10	1.24	3.38	N/A	9.4
1-1/2"	5.5	N/A	8.72	10	1.61	3.38	N/A	9.5
2"	5.5	N/A	9.12	10	1.81	3.38	N/A	11.6

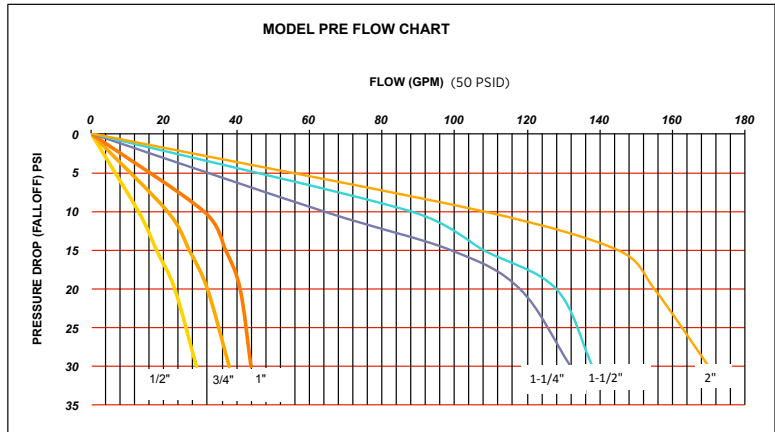


36E Series

Pressure Reducing Valve

FLOW CURVE

PIPE SIZE	FALL-OFF (PSI)	PRESSURE DIFFERENTIAL (PSI)		
		25	50	75
		GPM		
1-1/4"	10	35	47	59
	15	58	77	96
	20	85	113	141
	30	99	132	165
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



Pressure Differential is the difference between the inlet supply pressure and the adjusted outlet pressure.

Pressure Falloff is the reduction in downstream pressure from the static (set) pressure as the flow increases through the valve.

PART NUMBER MATRIX

36ELF 36E	1	X	X	X	X	X	X
SERIES	STYLE	UNION	SIZE	OPTION	PRESSURE RANGE	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 - STANDARD POLYMER CAP
36E		1 - SINGLE UNION	7 - 1-1/2"	P - TAPPED & PLUGGED	3 - 75-150 PSIG	S - SOLDER	B - BRONZE CAP
		2 - DOUBLE UNION	8 - 2"	G - W/ GAUGE			Y - W/ WYE STRAINER