

'Apollo' Valves

SUBMITTAL SHEET

A127LF Series

A727LF Series

Pressure Reducing **Automatic Control Valve**
with Low Flow Bypass

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



A727LF shown



DESCRIPTION

The Models A127LF and A727LF have a wide range of applications: anywhere a pressure must be reduced to a manageable level under a wide range of demand that cannot normally be provided by a single valve.

The bypass regulator, typically set 5-10 psi higher than the main valve pilot, controls the pressure under low flow conditions while the main valve remains closed. When the flow capacity of the regulator is exceeded, the pressure drops to the set point of the main valve pilot, causing the main valve to open and provide the higher flow. Response of the main valve is adjusted by an opening speed control. Proudly made in the USA.

FEATURES

- Reduces a higher inlet pressure to a lower outlet pressure
- Combination of bypass regulator and pilot-operated main valve delivers widest possible flow range
- Constant outlet pressure over wide flow range
- Pilot-operated main valve not subject to pressure fall off
- Can be maintained without removal from the line
- Isolation ball valves to facilitate maintenance and troubleshooting
- Adjustable opening speed
- Factory tested and can be pre-set to your requirements
- Model A127LF uses a "full port" basic valve
- Model A727LF uses a "reduced port" basic valve that enables proper sizing without the use of pipe reducers.

SIZES

- A127LF – GLOBE/ANGLE
- Screwed Ends: 1-1/4" - 3"
 - Grooved Ends: 1-1/4" - 4"
 - Flanged Ends: 1-1/4" - 4" (globe)
1-1/4" - 4" (angle)
- A727LF – GLOBE ONLY
- Flanged Ends: 3", 4", 6"

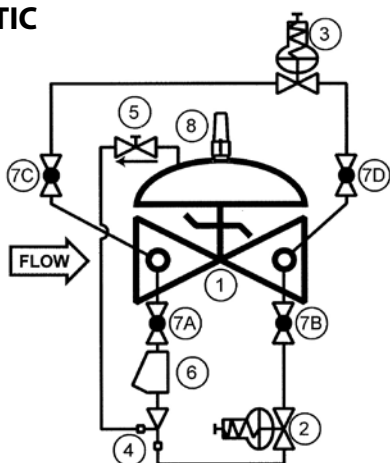
MAXIMUM PRESSURE

End Connections	Ductile Iron	Steel/SS	Bronze
Threaded	640 psi	640 psi	500 psi
Grooved	300 psi	300 psi	300 psi
150# Flanged	250 psi	285 psi	225 psi
300# Flanged	640 psi	740 psi	500 psi

STANDARD MATERIALS LIST

Part Name	Material
Body/Bonnet	Ductile Iron (epoxy coated), Carbon Steel (epoxy coated), Stainless Steel, Bronze <i>-Others available (consult factory)</i>
Seat Ring	Bronze, Stainless Steel
Stem	Stainless Steel, Monel
Spring	Stainless Steel
Diaphragm	Nylon Reinforced Buna-N, Viton, EPDM
Seat Disc	Buna-N, Viton, EPDM
Pilot	Bronze, Stainless Steel Other pilot system components: Bronze/Brass -All Stainless Steel
Tubing & Fittings	Copper/Brass, Stainless Steel

SCHEMATIC



COMPONENTS (as shown on the schematic diagram)

No.	Component
1	Basic 65 Valve Valve Assembly (A127LF) Model 765 Basic Reduced Port Control Valve (A727LF)
2	Model 1340 Pressure Reducing Pilot
3	Model 1340 Bypass Regulator
4	Model 126 Ejector
5	Model 141-3 Flow Control Valve (opening speed control)
6	Model 159 Y-Stainer
7	Model 141-4 Isolation Ball Valve
8	Model 155 Visual Indicator (optional)

Apollo Valves, Manufactured by **Conbraco Industries, Inc.**
701 Matthews Mint-Hill Road, Matthews, NC 28105 USA
www.apollovalves.com | (704) 841-6000

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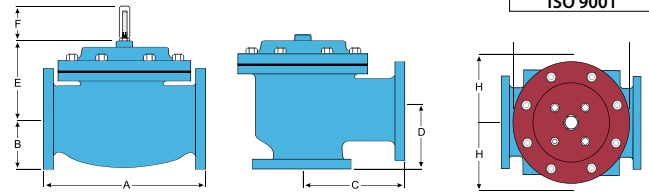
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QUALITY SYSTEM
REGISTERED TO
ISO 9001



DIMENSIONS - INCHES

DIM	END CONN.	Full Port Valves (A127LF)					Reduced Port Valves (A727LF)		
		1-1/4 - 1-1/2	2	2-1/2	3	4	3	4	6
A	SCREWED	8-3/4	9-7/8	10-1/2	13	--	--	--	
	GROOVED	8-3/4	9-7/8	10-1/2	13	15-1/4	--	--	
	150# FLGD	8-1/2	9-3/8	10-1/2	12	15	10-1/2	13-1/2	
	300# FLGD	8-3/4	9-7/8	11-1/8	12-3/4	15-5/8	10-7/8	14-1/8	
B	SCREWED	1-7/16	1-11/16	1-7/8	2-1/4	--	--	--	
	GROOVED	1*	1-3/16	1-7/16	1-3/4	2-1/4	--	--	
	150# FLGD	2-5/16 - 2-1/2	3	3-1/2	3-3/4	4-1/2	3-3/4	4-1/2	
	300# FLGD	2-5/8 - 3-1/16	3-1/4	3-3/4	4-1/8	5	4-1/8	5	
C Angle	SCREWED	4-3/8	4-3/4	6	6-1/2	--	--	--	
	GROOVED	4-3/8*	4-3/4	6	6-1/2	7-5/8	--	--	
	150# FLGD	4-1/4	4-3/4	6	6	7-1/2	--	--	
	300# FLGD	4-3/8	5	6-3/8	6-3/8	7-13/16	--	--	
D Angle	SCREWED	3-1/8	3-7/8	4	4-1/2	--	--	--	
	GROOVED	3-1/8*	3-7/8	4	4-1/2	5-5/8	--	--	
	150# FLGD	3	3-7/8	4	4	5-1/2	--	--	
	300# FLGD	3-1/8	4-1/8	4-3/8	4-3/8	5-13/16	--	--	
E	ALL	6	6	7	6-1/2	8	6-1/2	8	
H	ALL	10	11	11	11	12	11	12	

For maximum efficiency, the OCV control valve should be mounted in a piping system so that the valve bonnet (cover) is in the top position. Other positions are acceptable but may not allow the valve to function to its fullest and safest potential. In particular, please consult the factory before installing 8" and larger valves, or any valves with a limit switch, in positions other than described. Space should be taken into consideration when mounting valves and their pilot systems.

A routine inspection & maintenance program should be established and conducted yearly by a qualified technician.

* Grooved end not available in 1-1/4"

FACTORY CODE

A127	G	3LF	020	1	1	1	3
MODEL NUMBER	VALVE TYPE/ CONNECTION FULL PORT	SERIES EXTENSION	VALVE SIZE - FULL PORT	BODY & BONNET MATERIAL	SEAT RING MATERIAL	PILOT, FITTINGS, TUBE	ELASTOMERS
A127 = Full Port A727 = Standard Port	A = Angle/Flanged ANSI CLS 150 B = Angle/Flanged ANSI CLS 300 C = Angle/Threaded (1-1/4" - 3") E = Angle/Grooved Ends (1-1/2" - 4") F = Angle/Flanged CLS 300 x CLS 150 G = Globe/Flanged ANSI CLS 150 (Full & Reduced Port) H = Globe/Flanged ANSI CLS 300 (Full & Reduced Port) J = Globe/Threaded Ends (1-1/4" - 3") V = Globe/Grooved Ends (1-1/2" - 6")	2LF = Pressure Reducing/ Pressure Sustaining 3LF = Pressure Reducing Valve 4LF = Pressure Reducing and Check Valve 5LF = Pressure Reducing and Surge Control	012 = 1-1/4" 015 = 1-1/2" 020 = 2" 025 = 2-1/2" 030 = 3" 040 = 4" 060 = 6"	1 = Ductile Iron NSF 61-Epoxy Coated 2 = Cast Steel 5 = B61 Bronze 7 = Stainless Steel	1 = Bronze B61 2 = Stainless Steel	Code Pilot Ftgs Tube 1 BZ BRS CU 8 SS SS SS 9 BZ SS SS	3 = EPDM (Standard NSF-61)

HOW TO ORDER YOUR A127LF & A727LF VALVE
When Ordering please provide:
Fluid to be controlled -Model Number -Size
Globe or Angle -End Connection -Body Material
Trim Material -Pilot Options -Pressure Setting or
Spring Range -Special Requirements / Installation requirements.

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