





The Model 127-32 controls the filling of downstream piping in systems where lines have been drained. Once lines are filled, it reduces a higher inlet pressure to a constant, lower outlet pressure. Typical examples include:

Irrigation systems

- Industrial spray systems
 - Dust control
 - · Wash / cleaning

SERIES FEATURES

- Prevents hydraulic shock by providing a two-stage / low-flow filling of downstream piping system
- Reduces a higher inlet pressure to a lower outlet pressure
- Constant outlet pressure over wide flow range
- Pilot-operated main valve not subject to pressure fall off
- Outlet pressure is adjustable with single screw
- Can be maintained without removal from the line
- Adjustable opening/response speed
- Factory tested and can be pre-set to your requirements

OPERATION

Two-stage Opening

On initial startup, the main valve opening is controlled by a pressure sensing pilot and an adjustable, variable orifice pilot. These pilots route inlet pressure into the main valve bonnet, which maintains pressure on the diaphragm to limit the amount of opening of the main valve until downstream piping is filled; pressure reaches a preset amount.

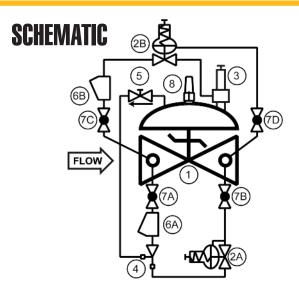
Pressure Reducing

The normally open, spring loaded pilot, sensing downstream pressure, responds to changes in pressure and causes the main valve to do the same. The net result is a constant modulating action of the pilot and main valve to hold the downstream pressure constant. The pilot system is equipped with an opening speed control that fine tunes the valve's response to the system variables.

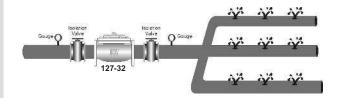
COMPONENTS

The Model 127-32 consists of the following components, arranged as shown on the schematic diagram:

- 1.) Model 65 Basic Control Valve
- 2.) Model 1340 Pressure Reducing Pilots
- 3.) Model 2100 Variable Orifice Pilot
- 4.) Model 126 Ejector- Fixed orifice pilot system supply restrictor
- 5.) Model 141-3* Flow Control Valve-Adjustable opening speed control
- 6.) Model 159 Y-Strainers- Protects pilot system from dirt/debris
- 7.) Model 141- 4 Isolation Ball Valves
- 8.) Model 155 Visual Indicator



RECOMMENDED INSTALLAT



SIZING

Sizing is a critical issue in the selection of pressure reducing valves. Definitive sizing information can be found in the OCV Catalog, Series 127 section and Engineering section Performance Charts. Consult the factory for assistance and a copy of the OCV ValveMaster Sizing program.

MAX. PRESSURE

The pressures listed below are maximum pressures at

END CONNECTIONS	DUCTILE IRON	STEEL/STN STL	LOW-LEAD 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

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SIZES GLOBE/ANGLE Screwed Ends - 1 1/4" - 3"

Grooved Ends - 1 1/2" - 6" (globe); 1-1/2"-4" (angle) Flanged Ends - 1 1/4" - 16" (globe; consult

factory for larger sizes); 1 1/4" - 16" (angle)

SPRING RANGES (outlet setting)
5-30 psi, 20-80 psi, 20-200 psi, 100-300 psi
FLUID OPERATING TEMPERATURE RANGE

(Valve Elastomers)

EPDM 32°F - 230°F*

MATERIALS- Consult factory for others **Body/Bonnet:** Ductile Iron (epoxy coated), Carbon steel (epoxy coated), Stainless steel, low-lead Bronze -Others available (consult

factory)
Seat Ring: low-lead Bronze, Stainless steel

Stem: Stainless Steel, Monel Spring: Stainless Steel Diaphragm: EPDM* Seat Disc: EPDM*

Pilot: low-lead Bronze, Stainless steel Other pilot system components: low-lead Bronze/Brass -All stainless steel Tubing & Fittings: Copper/brass,

Stainless steel

*Others available upon request.

**Valves 1-1/4" through 24" are certified to NSF/ANSI 372. Valves 4" through 24" are also cer-

tified to NSF/ANSI 61-G.

SPECIFICATIONS (Typical Commercial Plumbing Application)

The two-stage / low-flow start pressure reducing valve shall function to hydraulically limit valve opening until downstream piping has reached a preset, adjustable level. It shall then reduce a higher upstream pressure to a constant, lower downstream pressure regardless of fluctuations in supply or demand.

DESIGN

The two-stage / low-flow start pressure reducing valve shall be a single-seated, line pressure operated, diaphragm actuated, pilot controlled globe valve. The valve shall seal by means of a corrosion-resistant seat and a resilient, rectangular seat disc. These, and other parts, shall be replaceable without removing the valve from the line. The stem of the main valve shall be guided top and bottom by integral bushings. Alignment of the body, bonnet and diaphragm assembly shall be by precision dowel pins. The diaphragm shall not be used as a seating surface, nor shall the pistons be used as an operating means. The pilot system shall be furnished complete and installed on the main valve. It shall include an opening speed control, y-strainer, isolation ball valves, normally open low-flow pilot, variable orifice pilot and a pressure reducing pilot. The pressure reducing valve shall be operationally and hydrostatically tested prior to shipment.

MATERIALS OF CONSTRUCTION

The main valve body and bonnet shall be ductile iron per ASTM A536, Grade 65-45-12. All ferrous surfaces shall be coated with 4 mils of epoxy. The main valve seat ring shall be low-lead Bronze. Elastomers (diaphragms, resilient seats and O-rings) shall be EPDM. The control pilot shall be low-lead Bronze. The opening speed control and isolation ball valves shall be brass and control line tubing shall be copper.

OPERATING CONDITIONS

The two-stage / low-flow start pressure reducing valve shall be suitable for reducing inlet pressures of < X to X > psi to a constant outlet pressure of < X > psi at flow rates ranging from < X

ACCEPTABLE PRODUCTS

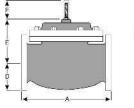
The two-stage / low-flow start pressure reducing valve shall be a <size> Model 127-32, <globe pattern, angle pattern>, with <150# flanged, 300# flanged, threaded, grooved> end connections, as manufactured by OCV Control Valves, Tulsa, Oklahoma, USA.

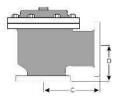
DIM	END CONN.	1 1/4-1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	24
	SCREWED	8 3/4	9 7/8	10 1/2	13		S 44 6	122	(22)	-	940	522	-
А	GROOVED	8 3/4	9 7/8	10 1/2	13	15 1/4	20	1227			(22)	V22	227
	150# FLGD	8 1/2	9 3/8	10 1/2	12	15	17 3/4	25 3/8	29 3/4	34	39	40 3/8	62
	300# FLGD	8 3/4	9 7/8	11 1/8	12 3/4	15 5/8	18 5/8	26 3/8	31 1/8	35 1/2	40 1/2	42	63 3/4
	SCREWED	4 3/8	4 3/4	6	6 1/2	(44)			H=			1447	44
С	GROOVED	4 3/8*	4 3/4	6	6 1/2	7 5/8		223	H-	44	- 12		241
ANGLE	150# FLGD	4 1/4	4 3/4	6	6	7 1/2	10	12 11/16	14 7/8	17		20 13/16	
	300# FLGD	4 3/8	5	6 3/8	6 3/8	7 13/16	10 1/2	13 3/16	15 9/16	17 3/4		21 5/8	
	SCREWED	3 1/8	3 7/8	4	4 1/2			(44)					
D	GROOVED	3 1/8*	3 7/8	4	4 1/2	5 5/8					1220	220	-
ANGLE	150# FLGD	3	3 7/8	4	4	5 1/2	6	8	11 3/8	11	220	15 11/16	220
	300# FLGD	3 1/8	4 1/8	4 3/8	4 3/8	5 13/16	6 1/2	8 1/2	12 1/16	11 3/4		16 1/2	77
Е	ALL	6	6	7	6 1/2	8	10	11 7/8	15 3/8	17	18	19	27
Н	ALL	10	11	11	11	12	13	14	17	18	20	20	28 1/2

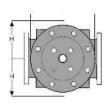
For maximum efficiency, the OCV control valve should be mounted in a piping system so that the valve bonnet (cover) is in the top position. Other positions are acceptable but may not allow the valve to function to its fullest and safest potential In particular, please consult the factory before installing 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. Consult our factory @ 1-888-628-8258 for parts and service.

How to order your Model 127-32 valve When Ordering please provide:
Fluid to be controlled • Model Number • Size •
Globe or Angle • End Connection • Body Material • Trim Material • Pilot Options • Downstream Pressure Setting or Spring Range • Special Requirements / Installation Requirements









Represented by:

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