

The Model 128 can be employed anywhere excessive flow rates must be positively prevented. It is particularly useful as a protective device against downstream line rupture.

## **SERIES FEATURES**

- ▶ Valve trips closed when predetermined flow rate is detected
- ►Built-in orifice plate for sensing flow rate
- Valve must be manually reset to reopen
- Flow rate is adjustable with single screw
- Adjustable response speed
- Can be maintained without removal from the line
- Factory tested and can be pre-set to your requirements

## **OPERATION**

The latched open, spring loaded pilot, sensing the differential across the integral orifice plate, located in the valve inlet flange, remains open as long as the flow rate is below a predetermined trip point. If flow rate rises to the trip point, the pilot closes, causing the main valve to close. The pilot remains closed until manually reset by pushing the reset button on the end of the pilot.

### **COMPONENTS**

The Model 128 consists of the following components, arranged as shown on the schematic diagram:

- 1.) Model 65 Basic Control Valve
- 2.) Orifice Plate
- 3.) Model 1380 Excess Flow Pilot
- 4.) Model 126 Ejector -

Fixed orifice pilot system supply restrictor

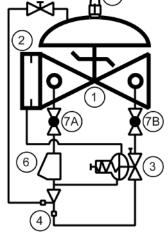
- 5.) Model 141-2 Needle Valve -Adjustable response speed
- 6.) Model 159 Y-strainer -

Protects pilot system from dirt/debris

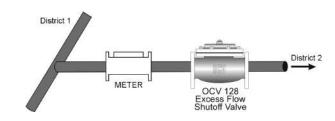
- 7.) Model 141-4 Isolation Ball Valves
- 8.) Model 155 Visual Indicator (Optional)

# **SCHEMATIC**





# **RECOMMENDED INSTALLATION**



## **MAX. PRESSURE**

The pressures listed here are maximum pressures at 100°F.

END CONNECTIONS	DUCTILE IRON	STEEL/STN STL	LOW-LEAD BRONZE
150# Flanged	250 psi	285 psi	225 psi
300# Flanged	640 psi	740 psi	500 psi

## **SIZING**

The following chart states the minimum and maximum flow rate with standard bore orifice plate. This means the valve can be adjusted to control within the ranges shown.

Lower flow ranges are possible through the use of smaller orifice plate bores. All ranges are adjustable within a 4:1 ratio (high to low flow). For assistance, contact the Factory or visit www.controlvalves.com for our sizing program, ValveMaster Premier.

SIZE	1 1/4"-1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"	24"
MIN. FLOW GPM	30	50	70	115	200	450	750	1050	1500	1800	2400	7000
MAX. FLOW GPM	120	200	280	460	800	1800	3000	4200	6000	7200	9600	28000

**TOLL FREE 1.888.628.8258** • phone: (918)627.1942 • fax: (918)622.8916 • 7400 East 42nd Place, Tulsa, Ok 74145 email: sales@controlvalves.com • website: www.controlvalves.com





**SIZES** 

GLOBE/ANGLE

Flanged Ends - 1 1/4" - 24" (globe);

1 1/4" - 16" (angle)

FLUID OPERATING TEMPERATURE

RANGE (Valve Elastomers) EPDM 32°F to 230°F\*

**MATERIALS** 

Body/Bonnet: Ductile Iron (epoxy coated), Carbon Steel (epoxy coated), Stainless Steel, low-lead Bronze, Others available (consult

Seat Ring: low-lead Bronze, Stainless Steel
Steinless Steel Mone 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

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 certified to NSF/ANSI 61-G.

# **SPECIFICATIONS** (Typical Water Application)

The excess flow shutoff valve shall close when the flow rate set point is exceeded. Manual reset shall be required to reopen the valve.

### DESIGN

The excess flow shutoff 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 pistons be used as an operating means. The orifice plate shall be integrally installed in the valve inlet flange. The pilot system shall be furnished complete and installed on the main valve. It shall include a needle valve speed control, a Ystrainer, and isolation ball valves. The excess flow shutoff 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. 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. The orifice plate shall be stainless steel.

### **OPERATING CONDITIONS**

The excess flow shutoff valve shall be suitable for shutting off the flow over a range of <X to X (limited to 4:1) > gpm at pressures ranging from <X to X > psi.

### **ACCEPTABLE PRODUCTS**

The excess flow shutoff valve shall be a <size> Model 128, <globe pattern, angle pattern>, with <150# flanged, 300# flanged> end connections, as manufactured by OCV Control Valves, Tulsa, Oklahoma, UŠA.

#### U.S. DIMENSIONS - INCHES

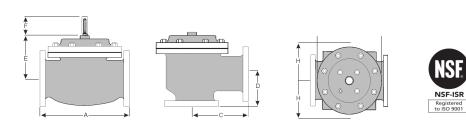
DIM	END CONN.	1 1/4-1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	24
Α	150# FLGD	8 1/2	9 3/8	10 1/2	12	15	17 3/4	25 3/8	29 3/4	34	39	40 3/8	62
	300# FLGD	8 3/4	9 7/8	11 1/8	12 3/4	15 5/8	18 5/8	26 3/8	31 1/8	35 1/2	40 1/2	42	63 3/4
С	150# FLGD	4 1/4	4 3/4	6	6	7 1/2	10	12 11/16	14 7/8	17		20 13/16	-
ANGLE	300# FLGD	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	
D	150# FLGD	3	3 7/8	4	4	5 1/2	6	8	11 3/8	11		15 11/16	
ANGLE	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	-
E	ALL	6	6	7	6 1/2	8	10	11 7/8	15 3/8	17	18	19	27
F	ALL	3 7/8	3 7/8	3 7/8	3 7/8	3 7/8	3 7/8	6 3/8	6 3/8	6 3/8	6 3/8	6 3/8	8
Н	ALL	10	11	11	11	12	13	14	17	18	20	20	28 1/2

<sup>\*</sup>GROOVED END NOT AVAILABLE IN 1 1/4"

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. 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 128 valve When Ordering please provide: Fluid to be controlled - Model Number - Size Globe or Angle - End Connection - Body Material - Trim Material - Pilot Options - Flow Rate Setting or Range - Special Requirements / Installation requirements.



Represented by:

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