



Model 115-26TR (Terminal Services)



The OCV Model 115-26TR solenoid control valve is designed to open or close in response to an electrical signal. It will also close in the event of a pressure reversal, but will relieve thermal buildup from downstream to upstream.

Typical examples include:

- ► Process control
- ► Petroleum loading terminals

SERIES FEATURES

- Electrically operated solenoid allows valve to open or close
- Can be maintained without removal from the line
- ► Adjustable response speed
- Factory tested and can be pre-set to your requirements
- Thermal Relief-relieves thermal buildup from downstream to upstream. Field adjustable

OPERATION

A two-way solenoid, when closed, causes the main valve to close. Opening the solenoid opens the valve. The pilot system is equipped with a needle valve that allows the opening and closing speed of the valve to be adjusted.

If downstream pressure becomes greater than upstream pressure, the valve will close to prevent reverse flow; however, should downstream pressure increase to the set point of the thermal relief valve (6), this valve will open to relieve the buildup to the upstream side of the valve.

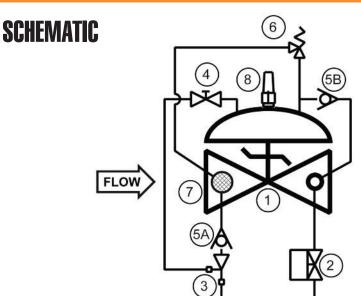
COMPONENTS

The Model 115-26TR consists of the following components, arranged as shown on the schematic diagram:

- 1.) Model 65 Basic Valve Assembly
- 2.) Model 451 Two-Way Solenoid Pilot, N.C.
- 3.) Model 126 Ejector
- 4.) Model 141-2 Needle Valve
- 5.) Model 141-1 Check Valve
- 6.) Model 684703 Thermal Relief Valve
- 7.) Model 123 Inline Strainer
- 8.) Model 155 Visual Indicator (optional)

SIZING

Definitive sizing information can be found in the Series 115 section of the OCV Catalog and Engineering section Performance Charts. Consult factory for assistance or visit our site, www.controlvalves.com, for our fueling spec program, ValveMaster Fuels.



RECOMMENDED INSTALLATION

- Install the valve with adequate space above and around the valve to facilitate servicing. Refer to the Dimension Table.
- ► Valve should be installed with the bonnet (cover) at the top, particularly 8" and larger valves, and any valve with a limit switch.
- Shut-off valves should be installed upstream and downstream of the control valve. These are used to isolate the valve during start-up and maintenance.
- Following main valve installation, the solenoid must be wired into the user's control system. This is a simple two-wire (plus ground) connection.

MAX. PRESSURE

(The pressures listed here are maximum working pressures at 100°F)

END CONNECTIONS	DUCTILE IRON	STEEL/STN STL	ALUMINUM
Threaded	640 psi	640 psi	285 psi
Grooved	300 psi	300 psi	200 psi
150# Flanged	250 psi	285 psi	285 psi
300# Flanged	640 psi	740 psi	

Note: Working pressures of solenoids vary greatly, consult factory on application of OCV Model 115-26TR valves.

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SIZES GLOBE/ANGLE Screwed Ends - 1 1/4" - 3" Grooved Ends - 1 1/2" - 6" (globe) 1-1/2" - 6" (angle) Flanged Ends - 1 1/4" - 24" (globe) 1 1/4" - 16" (angle)

FLUID OPERATING TEMPERATURÉ RANGE Valve Elastomers)
Buna-N -40°F to 180°F
Viton 20°F to 230°F
Fluorosilicone -40°F to 150°F
EPDM 0°F to 230°F
EPDM 0°F to 230°F SPRING RANGES

MATERIALS Consult factory for others.

Body/Bonnet: Ductile Iron (epoxy coated),
Carbon Steel (epoxy coated), Stainless Steel,

Seat Ring: Stainless Steel, Bronze **Stem:** Stainless Steel, Monel **Spring:** Stainless Steel

Diaphragm: Buna-N, Viton, (Nylon reinforced) Seat Disc: Buna-N, Viton Thermal Relief Pilot: Stainless Steel, Viton

Elastomers

Other pilot system components: Stainless Steel, Bronze/Brass Tubing & Fittings: Stainless Steel, Copper/Brass Copper/Bra SOLENOID

Enclosure: Explosion Proof NEMA 4X, 6P, 7, 9
Body: Stainless Steel, Brass
Voltages: 24, 120, 240, 480 VAC
12, 24 VDC
Note: Working pressures of solenoids vary
greatly, consult factory on application of OCV
Model 115-26TR valves.

SPECIFICATIONS (Typical Terminal Services Application)

The solenoid control/check/thermal relief valve shall open and close via discrete electrical signals. The valve shall be equipped with a two-way solenoid valve that will allow the valve to open when < energized, deenergized >. If downstream pressure becomes greater than upstream pressure, the valve shall close to prevent reverse flow; however, should downstream pressure increase to the set point of the thermal relief valve, this valve shall open to relieve the buildup to the upstream side of the valve. The thermal relief valve shall have an adjustable spring range of 50-350 psi.

DESIGN

The solenoid control/check/thermal relief valve shall be a single-seated, line pressure operated, diaphragm actuated, pilot controlled globe valve. The valve shall seal by means of a corrosionresistant 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 a needle valve, inline strainer and solenoid valve. The solenoid shut-off valve shall be operationally and hydrostatically tested prior to shipment.

MATERIALS OF CONSTRUCTION

The main valve body and bonnet shall be ductile iron. All ferrous surfaces shall be coated with 4 mils of epoxy. The main valve seat ring shall be stainless steel. Elastomers (diaphragms, resilient seats and O-rings) shall be <Buna-N, Viton>. The needle valve, check valve, thermal relief valve and control line tubing shall be stainless steel. The solenoid shall have a stainless steel body, explosion-proof enclosure and be suitable for operation on <voltage>.

OPERATING CONDITIONS

The solenoid control/check/thermal relief valve shall be suitable for pressures of $\langle X \rangle$ to $X \rangle$ psi at flow rates up to <X> gpm. **ACCEPTABLE PRODUCTS**

The solenoid control/check/thermal relief valve shall be a <size> Model 115-26TR, <globe pattern, angle pattern>, with <150# flanged, 300# flanged, threaded, grooved> end connections, as manufactured by OCV Control Valves, Tulsa, Oklahoma, USA.

	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
	SCREWED	8 3/4	9 7/8	10 1/2	13								
Α	GROOVED	8 3/4	9 7/8	10 1/2	13	15 1/4	20						
	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								
С	GROOVED	4 3/8*	4 3/4	6	6 1/2	7 5/8							
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								
D	GROOVED	3 1/8*	3 7/8	4	4 1/2	5 5/8							
ANGLE	150# FLGD	3	3 7/8	4	4	5 1/2	6	8	11 3/8	11		15 11/16	
	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 (OPT)	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

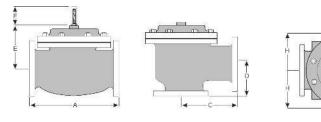
*GROOVED END NOT AVAILABLE IN 1 1/4"

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.

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 115-26TR valve

When ordering please provide: Fluid to be controlled - Model Number - Size -Globe or Angle - End Connection - Body Material - Trim Material - Elastomer Material - Solenoid Voltage - Energize to Open or Close Valve - Special Requirements / Installation Requirements Thermal Relief Setting



Represented by:

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