

TDV-A Valve

The unique quarter-turn TDV-A design offers backflow protection throughout a wide range of system balancing settings. Upon closing, the plug rotates to block the downstream port of the valve allowing pressure to equalize around clapper so that it closes with little resistance. Final closing is accomplished by the plug camming against the backside of the clapper. The most satisfactory closure is accomplished by turning the plug to normal tight fit, then bumping the plug lightly.

Features:

- Available in sizes 2 1/2" through 12"
- Cast Iron bodies
- Threaded or flanged ends
- Schrader valve metering connections
- Memory stop which avoids the need for resetting after shut down
- Plug position indicator and calibrated scale for system balancing and flow regulation
- Vertical and/or horizontal installation
- Dual O-ring stem seals
- Non-lubricated operation
- Bubble-tight shut-off
- In-line serviceability
- Painted Exterior

Multi Function Benefits:

- Flow regulator valve
- Positive shut-off valve
- Convenient connections for gauges
- Compact size reduces space requirements



open position.

not been set

FLOW

FLOW



FLOW

Valve Plug is rotated to selected balance Memory Stop has position. Memory Stop is rotated until it intercepts the stop on cover. Tighten lock

Valve plug may be closed and re-opened to same balance position.

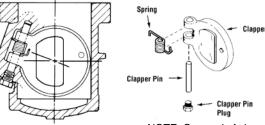
JOB NAME	ITEMS	QUANTITY	A GEP COMPANY
			2701 W. Concord Street Broken Arrow, OK 74012
			Toll Free: 866-204-5229 PH: 918-317-0401 FAX: 918-317-0407
CONTRACTOR P.O. NO.			e-mail: sales@globalflowproducts.com

*Designed, sourced and manufactured from products made in America



Internal Spring-loaded Clapper

Valve Clappers are internally spring-loaded for a positive check.



Sectional view looking upstream

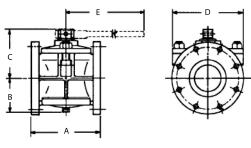
Memory Stop

NOTE: One end of clapper pin is tapped for pin removal.

screw on Memory Stop an WHEATLE DUCTS



Flanged Ends Bolted Covers

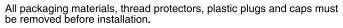


Wrench Operated Class - 175 lbs.WOG

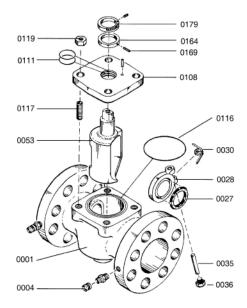
PART NUMBER	SIZE	END TO END FLANGED A (IN.)	CENTER OF PORT TO BOTTOM OF VALVE B (IN.)	CENTER OF PORT TO TOP OF VALVE C (IN.)	EXTREME WIDTH OF BODY D (IN.)	WRENCH EXTENSION E (IN.)	WEIGHT (LBS.)
TDV-025F-A	2 1/2"	8*	2 3/4	5 3/4	7	16 1/4	40
TDV-030F-A	3"	8*	2 3/4	5 3/4	7 1/2	16 1/4	42
TDV-040F-A	4"	9*	3 1/4	6 5/8	9	16 1/4	64
TDV-050F-A	5"	10	3 3/8	6 5/8	10	16 1/4	95
TDV-060F-A	6"	10 1/2*	5	7 7/8	11	33 1/8	122
TDV-080F-A	8"	11 1/2*	5 3/4	7 7/8	13 1/2	31 1/16	165
TDV-100F-A	10"	16	7 1/2	9 7/8	16	33 1/16	270
TDV-120F-A	12"	19	9 5/16	11 3/8	19	31 1/16	450

For Smaller Sizes See TDVA/TSVN

*All flange holes tapped size 2 1/2", 3", 4", 6", and 8" valves. 1Flange dimensions per ANSI standard B16. 1, Class 125



Dimensions are subject to change without notice, please confirm actual dimensions with factory at time of order.



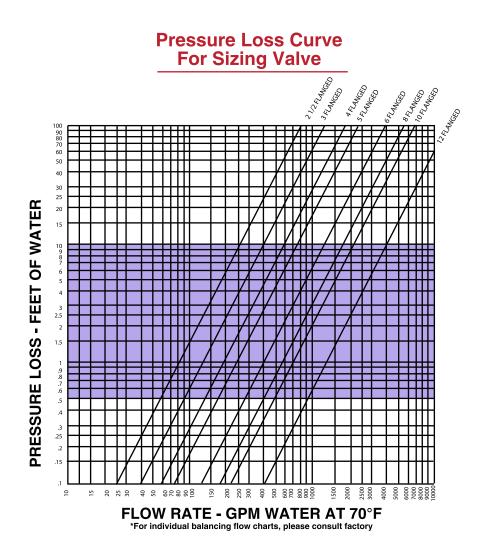


Bill of Materials

ITEM NUMBER	DESCRIPTION	QTY	MATERIAL
0001	Body	1	CI ASTM A 126/DI A536
0004	Metering connector	2	Brass
0027	Clapper seal	1	Buna
0028	Clapper	1	Cast Iron
0030	Spring	1	Stainless Steel
0035	Clapper Pin	1	Stainless Steel
0036	Pipe Plug	1	Steel
0053	Plug	1	CI ASTM A 126/DI A536
0108	Cover	1	CI ASTM A 126/DI A536
0111	O-ring	2	Buna
0116	O-ring	1	Buna
0117	Cover Stud	4	Steel
0119	Nut	4	Steel
0164	Memory Stop Ring	1	Steel
0169	Set Screw	1	Steel
0179	Indication Ring	1	Composite

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Installation:

- A. Mount 2 1/2" through 8" valves in a vertical up or horizontal position with flow in the direction of the flow arrow which is cast on the side of each valve. Mount 10" through 12" valves in vertical position only.
- B. Install valve in a location which allows easy access to operating wrench and flow meter connections.
- C. Install with the equivalent of at least 10 diameters of straight pipe, sized to TDV-A valve, upstream of the valve and the equivalent of at least 5 diameters of pipe downstream of the TDV-A valve.
- D. Once a flow rate has been set, adjust the memory stop located on the stem of the TDV-A valve (see memory stop illustration on tag attached to valve for adjustment instructions). The memory stop allows the valve to be closed and re-opened to the same balance position.

Flow Meter Operation:

- A. Remove caps from the metering connections at the HI and LO pressure taps.
- B. Connect the high pressure hose (red) of the pressure gage to the HI pressure connections on the TDV-A valve and the low pressure hose (blue) to the LO pressure connection. Note: Hose ends require valve depressors to be connected. If valve depressor is not visible in hose end check opposite end of hose. Metering connection valves are opened automatically as the hose end is screwed on.
- C. Prepare the pressure gauge as per instructions in the gauge kit.
- D. The flow can be determined by reading the pressure indicated at the gauge, noting the valve opening firm the plug position indicator and calibrated plate and transferring this data to a flow chart.
- E. When flow readings are complete, follow directions supplied with the pressure gauge.
- F. Replace metal caps on the metering connections of the TDV-A valve.



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