



# TDV – Triple Duty Valve

## Cast Iron, 125# Class Flanges

### Features

- Three valves in one, replacing a calibrated balance valve, shut-off valve, and silent check valve.
- Flow through the valve is adjustable from zero to full by the ACME rising stem with a graduated position indicator confirming the valve's position for throttling service
- Hand-wheel for ease of operation.
- Soft-seated, dovetail O-ring groove ensuring a bubble tight seal in the closed position.
- Reduced water hammer via the fully automatic, spring assisted disc that closes near zero flow velocity when functioning as a check valve.
- The soft seat and quick closure helps to prevent flow reversal, slamming, and surges.
- Minimal head loss via the large body with at least a 2 to 1 ratio to connecting pipe.
- Low cracking pressure reduces the amount of energy required to open the valve.

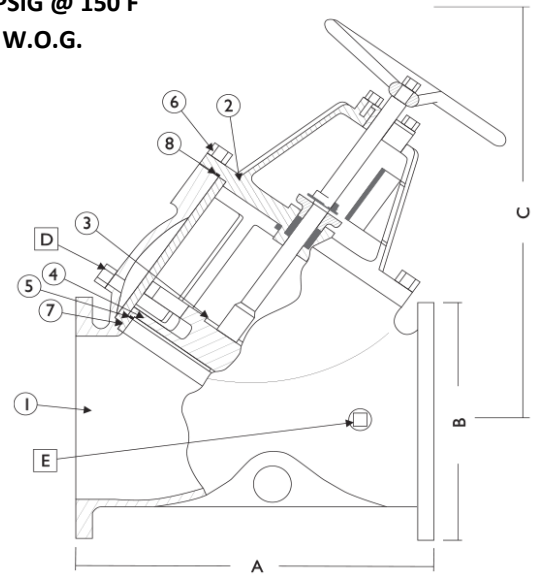


### SPRING AND SEAT TEMPERATURE RATINGS

Material	Temperature
EPDM	-20 °F - 300 °F
Stainless Steel	450 °F MAX

1. Equivalent or better materials may be substituted at the manufacturer's discretion.
2. Denotes recommended spare parts.

200 PSIG @ 150 F  
W.O.G.



### BILL OF MATERIALS <sup>(1)</sup>

No.	Part	Material
1	Body	Cast Iron, A126-B
2	Cover	Cast Iron, A126-B
3	Spring <sup>(2)</sup>	Stainless Steel, 300 Series
4	Disc	Ductile Iron A536, Plated
5	Disc Seat	EPDM O-Ring
6	Bolt	Carbon Steel, AISI 1035
7	Seat Guide	Ductile Iron A536, Plated
8	O-Ring <sup>(2)</sup>	EPDM

### DIMENSIONS AND PERFORMANCE DATA

SIZE	in	2	2 1/2	3	4	5	6	8	10	12	14	16	20
	mm	50	65	80	100	125	150	200	250	300	350	400	500
<b>A</b> DIMENSION FACETO FACE	in	8.39	9.84	10.05	14.5	16.0	18.0	21.5	25.5	30.12	30.39	33.78	C/F
	mm	213	250	255	368	407	457	546	648	765	772	858	C/F
<b>ØB</b> DIMENSION FLANGE DIAMETER	in	6.0	7.0	7.5	9.0	10.0	11.0	13.5	16.0	19.0	21.0	23.5	C/F
	mm	152	178	191	229	254	279	343	406	483	533	597	C/F
<b>C</b> DIMENSION CLEARANCE, FULL OPEN	in	12.0	12.5	14.0	15.5	19.5	21.5	26.0	27.0	32.0	C/F	C/F	C/F
	mm	305	318	356	394	495	546	660	686	813	C/F	C/F	C/F
<b>D</b> DIMENSION N.P.T.	in	1/2	3/4	1/2	1/2	1/2	3/4	3/4	1	1	3/4	1	C/F
	mm	15	20	15	15	15	20	20	25	25	20	25	C/F
<b>E</b> DIMENSION N.P.T.	in	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	C/F
	mm	8	8	8	8	8	8	8	8	8	8	8	C/F
WEIGHT (APPROXIMATE)	lb	33.0	42.0	59.0	104.0	170.0	202.0	280.0	442.0	816.0	1112.0	1478.0	C/F
	kg	15.0	19.1	26.8	47.2	77.1	91.6	127.0	200.5	370.1	504.4	670.4	C/F
Flow Coefficient	C <sub>v</sub>	82	128	188	334	528	765	1371	2153	3105	C/F	C/F	C/F

1. Dimensions and weights are for reference only. When required, request certified drawings.