TECHNICAL DATA SHEET



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D6/D7, T6/T7 SERIES DIVERTER, 3 WAY BALL VALVES

Size Range:

1/2" - 2"

Valve Materials:

316 Stainless Steel Carbon Steel

End Connections:

NPT Butt Weld

Butt Weld Socket Weld **Ball and Stem Materials:**

316 Stainless Steel

Service Applications:

Hydraulics Oil / Gas
Steam Food Processing
Oxygen Dry / Liquid Chlorine

Vacuum

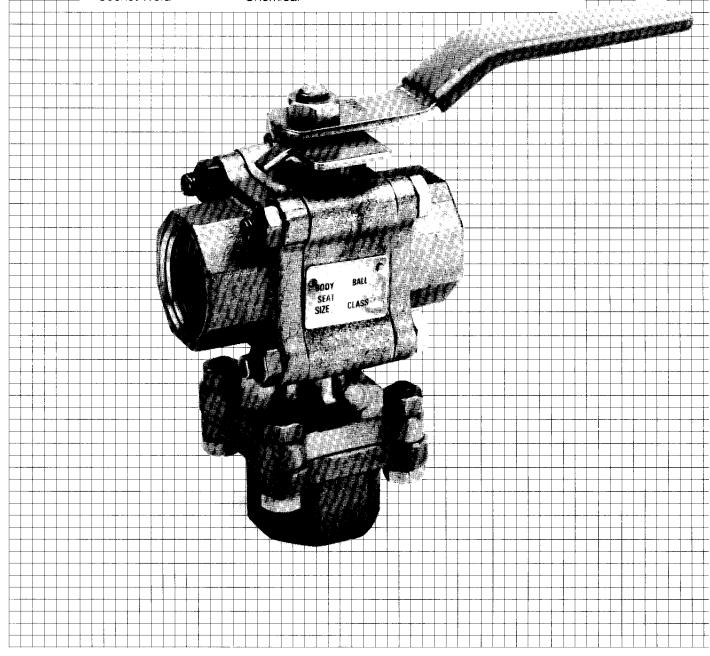
Thermal Fluids Chemical **Seat Materials:**

Teflon

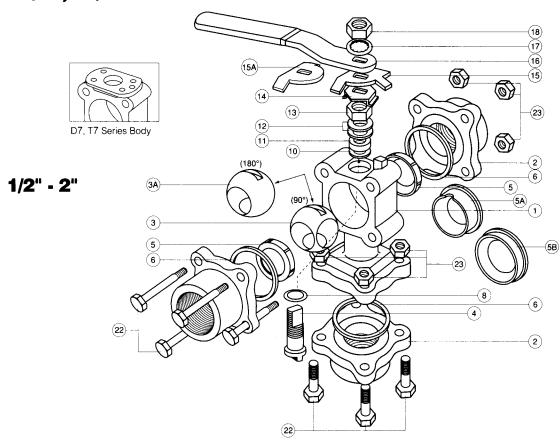
Reinforced Teflon

NRG Delrin VXI

Tempre K (PEEK) UHMWPE



D6/D7, T6/T7 VALVE COMPONENTS



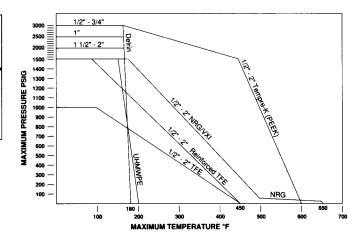
Item No.	Description	Material						
1	Body	Carbon Steel 316 Stainless S						
2	Body Connector/Pipe End	Carbon Steel 316 Stainless S						
3	Ball 90°	316 Stainless	Steel					
3A	Ball 180°	316 Stainless Steel						
4	Stem	316 Stainless Steel						
5	Valve Seat	TFE	Reinforced TFE					
		NRG	Delrin					
		UHMWPE	PEEK					
		VXI						
5A	Cavity Filled Seat	TFE						
5B	3 Way Seat	TFE	NRG					
6	Body Connector Seal	TFE	Neoprene					
ĺ	Ì	UHMWPE	Viton					
		Buna N	Graphoil					
8	Stem Thrust Ring	NRG						

Item No.	Description	Material
10	Stem Packing	NRG
11	Gland Packing	Stainless Steel
12	Belleville Washers	Stainless Steel
13	Packing Nut	Cad Plate C. St. Stainless Steel
14	Lock Tab	Stainless Steel
15	Handle Stop 90°	Cad Plate C. St. Stainless Steel
15A	Handle Stop 180°	Cad Plate C. St. Stainless Steel
16	Handle	Cad Plate C. St. Stainless Steel
17	Lock Washer	Stainless Steel
18	Handle Nut	Cad Plate C. St. Stainless Steel
19		
20		
21		
22	Body Connector Bolt	Cad Plate C. St. Stainless Steel
23	Body Connector Nut	Cad Plate C. St. Stainless Steel

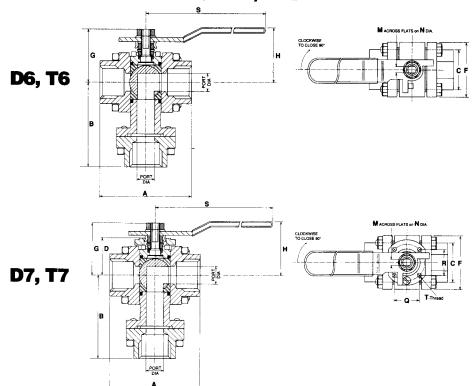
PERFORMANCE DATA

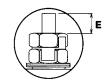
VALVE SIZE	TEFLON BREAKAWAY TORQUE in/lbs	APPROX. FLOW CV. U.S. gpm	EQUIV. LENGTH OF SCHED. 40 PIPE feet				
1/2"	45	5	30.4				
3/4"	45	5	30.4				
1"	100	10	27.8				
1-1/2"	300	24	43.5				
2"	400	36	22.7				

PRESSURE-TEMPERATURE DATA



DIMENSIONS & WEIGHT 1/2"-2"





Stem arrangenment for actuated valves.
Items 14, 15, 16, 17 omitted.
Item 14 replaced by lock tabs.

VALVE SIZE	SIDE PORT	BOTTOM PORT	APPROX. WEIGHT lbs.		
1/2"	0.56	0.47	2.5		
3/4"	0.56	0.47	2.5		
1"	0.81	0.63	4.5		
1-1/2"	1.25	1.05	9.0		
2"	1.50	1.40	12.5		

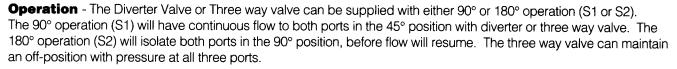
SIZE	А	В	С	D	Е	F	G	Н	М	N	Q	R	S	Т
1/2"	2.80	2.75	1.50	1.240	.25	2.05	1.59	1.87	.22	3/8"UNF	1.00	1.00	4.49	M5
3/4"	2.80	2.75	1.50	1.240	.25	2.05	1.59	1.87	.22	3/8"UNF	1.00	1.00	4.49	M5
1"	3.66	3.45	1.75	1.504	.35	2.45	2.19	2.40	.29	7/16"UNF	1.17	1.17	5.75	M5
1-1/2"	4.56	4.15	2.25	1.713	.47	3.15	2.87	3.15	.34	9/16"UNF	1.39	1.39	7.00	M6
2"	5.04	4.50	2.62	1.870	.51	3.55	3.07	3.31	.34	9/16"UNF	1.39	1.39	7.00	M6

^{*}Dimensions and weights subject to change without notice.

FLOW PATTERN

Diverter Valve - D6/D7 valve consists of a 2-piece seat and body seal. This combination allows the valve to be utilized in a wide range of pressure, temperature, and media. Flow pattern is port C to port A or port C to port B. Port A or B can not have pressure greater than port C.

Three-way Valve - T6/T7 valve consists of a 1 piece seat and body seal. Available seat/seal materials are TFE or NRG. Seat/seal materials determine maximum pressure/ temperature and media compatibility. Flow pattern is port C to port A or port C to port B. Port A or port B can have pressure greater than port C. This will allow flow form port A to port C or port B to port C.



GENERAL NOTES

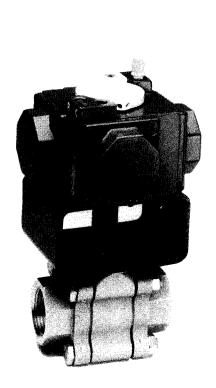
- 1. All weld end valves are supplied with Buna "O" ring body connector seals. Body seals are attached loose. This provision is made to enable valve testing by factory prior to shipping. Weld ends are disassembled by customer to weld in line, and then re-assembled with provided seals. Complete instructions are supplied with valve.
- 2. Stainless Steel valves are fitted with stainless steel body bolts, nuts and gland nuts as standard.
- 3. Delrin and UHMWPE are unsuitable for steam service.
- 4. Delrin is not suitable for oxygen service.
- 5. Specifications subject to change.

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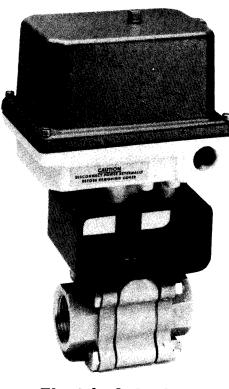
AUTOMATED PRODUCTS

Three piece construction of the D6/D7, T6/T7 Series readily lends itself to automation with either factory assembly or infield retrofit. All SVF actuators may be removed for inspection or repair without affecting valve integrity.



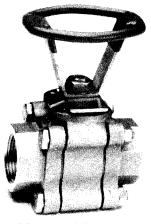
Pneumatic Actuators

- Double Acting
- Spring Return
- Solenoid
- Limit Switch
- Positioners 3 -15 psi
- Positioners 4 20 MA



Electric Actuator

- 120 VAC
- 12/24 VDC
- NEMA 4/7
- Positioners 4 20 MA
- Reversing



Manual Valves

- Oval Handle
- Spring-Return
- Stem Extensions
- Fusible Link
- Locking Device

HOW TO ORDER

