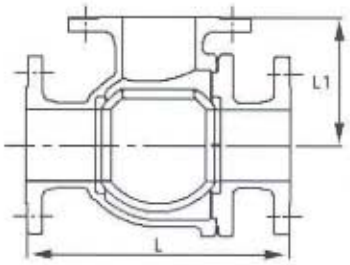
KITZ®
A Product of Technology

FLANGED 3-WAY, 2-SEATED BALL VALVES
CLASS 150
L-PORT (150UTB2LM 1"~4", 150UTR2LM 6")
T-PORT (150UTB2TM 1"~4", 150UTR2TM 6")

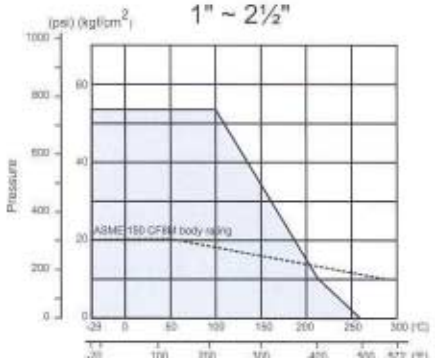
- Used for diverting or mixing process media.
- One 3-Way valve can replace several other valves PLUS the associated piping spool pieces.
- Rugged split body configuration for easier maintenance.
- Full Port 1"~4"
  Regular Port 6"
- NACE MR-01-75
- Integral actuator mounting flange.
- Low operating torques
- Anti-static device
- Traditional KITZ quality and durability

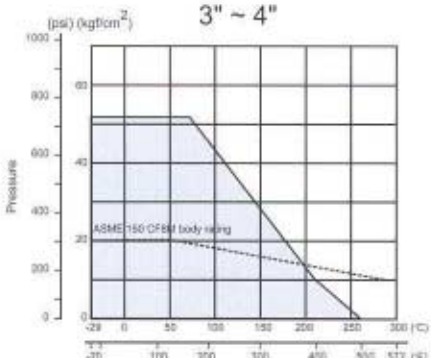
DIMENSIONAL and WEIGHT DATA

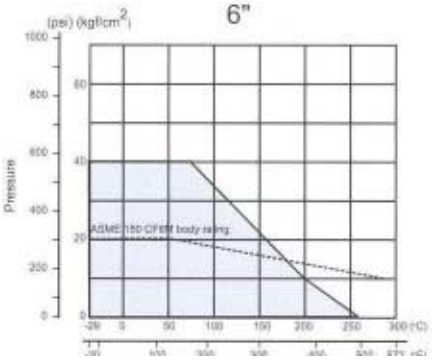
VALVE SIZE, in	LENGTH L, in	BRANCH L1, in	APPROX WT, lbs
1	6.50	3.25	15.70
1½	8.27	4.13	28.70
2	8.66	4.33	37.50
2½	9.84	4.92	59.50
3	10.31	5.16	77.20
4	13.46	6.73	105.80
6	17.20	8.60	158.80



PRESSURE-TEMPERATURE RATING

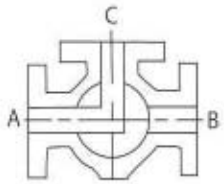




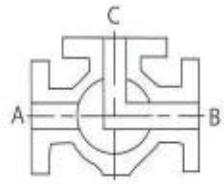


ALLOWABLE PORT ORIENTATION

L-PORT



FORM 1



FORM 2

FORM 1

Flow is between Ports "A" and "C" and can be in either direction.

There is a positive shutoff from Port "B". However, if the system pressure in this direction is much higher than in the flow direction there may be slight leakage to either Port "A" or Port "C".

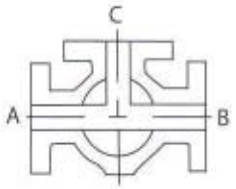
FORM 2

Flow is between Ports "B" and "C" and can be in either direction.

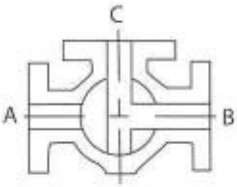
There is a positive shutoff from Port "A". However, if the system pressure in this direction is much higher than in the flow direction there may be slight leakage to either Port "B" or Port "C".

PROCESS MEDIA MAY MIX WHEN SWITCHING PORT ORIENTATION

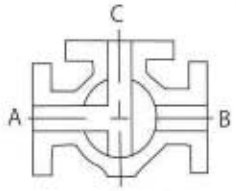
T-PORT



FORM 1



FORM 2



FORM 4

FORM 1

All Ports are open.

FORM 2

Flow is between Ports "B" and "C" and can be in either direction.

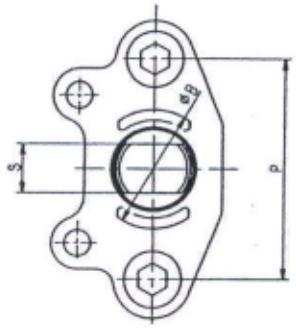
There is a positive shutoff from Port "A". However, if the system pressure in this direction is much higher than in the flow direction there may be slight leakage to either Port "B" or Port "C".

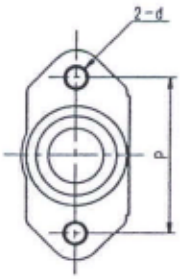
FORM 4

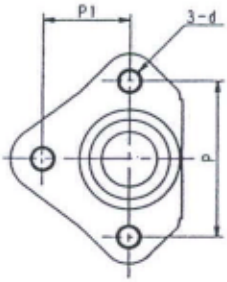
Flow is between Ports "A" and "C" and can be in either direction.

There is a positive shutoff from Port "B". However, if the system pressure in this direction is much higher than in the flow direction there may be slight leakage to either Port "A" or Port "C".

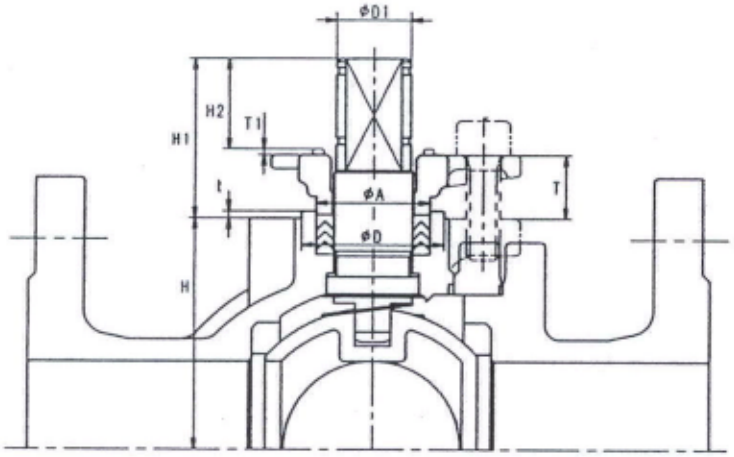
MOUNTING PAD AND STEM PROJECTION DATA

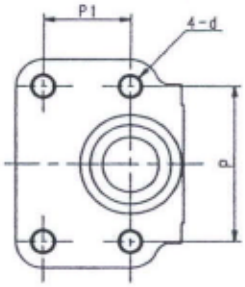






Size 1"~2" Size 2½"~4"





Size 6"

VALVE SIZE, in	DIMENSIONS, Inches								
	H	H1	H2	P	P1	d	D1	S	B
1	1.69	1.42	0.78	1.97	-	M8	0.59	0.40	1.06
1½	2.32	1.79	1.02	2.48	-	M10	0.83	0.55	1.34
2	2.68	1.79	1.02	2.48	-	M10	0.83	0.55	1.34
2½	3.66	2.24	1.42	2.95	1.65	M12	1.03	0.67	1.61
3	3.94	2.24	1.42	2.95	1.65	M12	1.03	0.67	1.61
4	5.00	2.83	1.78	3.54	2.13	M16	1.38	0.91	1.97
6	5.75	2.83	1.78	3.54	1.97	M16	1.38	0.91	1.97

OPERATIONAL TORQUE, In-lbs*

VALVE SIZE, in	NOMINAL ΔP (150 psi)	MAX RATED ΔP (285 psi)
1	57	64
1½	207	289
2	289	404
2½	439	612
3	693	1,063
4	1,039	1,559
6	2,886	4,964

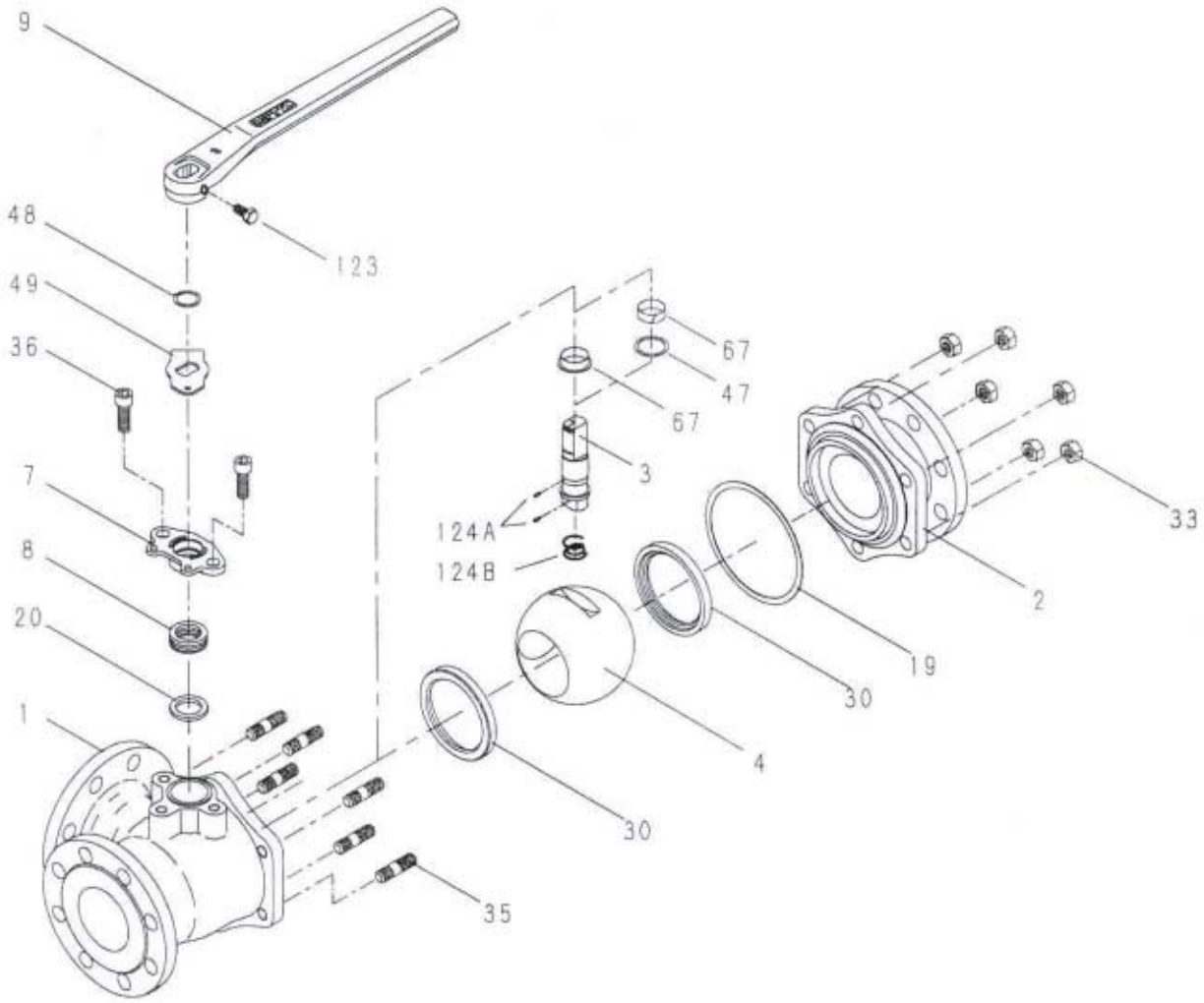
FLOW COEFFICIENT

VALVE SIZE, in	APPROX Cv
1	23
1½	68
2	110
2½	184
3	277
4	433
6	660

* contains 33% safety factor/clean liquid

CONSTRUCTION and MATERIALS

NO.	PARTS	MATERIALS	SPECIFICATIONS
1	BODY	STAINLESS STEEL	A351 Gr. CF8M
2	BODY CAP	STAINLESS STEEL	A351 Gr. CF8M
3	STEM	STAINLESS STEEL	A276 TYPE 316
4	BALL	STAINLESS STEEL	A276 TYPE 316 or A351 Gr. CF8M
7	GLAND	STAINLESS STEEL	A351 Gr. CF8
8	GLAND PACKING	PTFE	
9	HANDLE	DUCTILE IRON	
19	GASKET	PTFE	
20	PACKING WASHER	STAINLESS STEEL	A276 TYPE 316 (1" ONLY)
30	BALL SEAT	HYPATITE PTFE	
33	CAP NUT	STAINLESS STEEL	A194 Gr. 8
35	CAP BOLT	STAINLESS STEEL	A193 Gr. B8
36	GLAND BOLT	STAINLESS STEEL	A193 Gr. B8
47	THRUST WASHER	G/F PTFE	(4" and larger. Integral with Stem Bearing (#67) 3" and smaller)
48	SNAP RING	STAINLESS STEEL	A276 TYPE 304
49	STOPPER	STAINLESS STEEL	A276 TYPE 304
67	STEM BEARING	G/F PTFE	
123	HANDLE BOLT	CARBON STEEL	
124A	SPRING & PIN	STAINLESS STEEL	A313 & A276 TYPE 316 (3" and larger)
124B	SPRING	STAINLESS STEEL	A313 TYPE 316 (Up to 2")


9
48
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124A
124B
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⚠ CAUTION

Pressure-temperature ratings and other performance data published in this catalog have been developed from our design calculation, in-house testing, field reports provided by our customers and/or published official standards or specifications. They are good only to cover typical applications as a general guideline to users of KITZ products introduced in this catalog.

For any specific application, users are kindly requested to contact KITZ Corporation for technical advice, or to carry out their own study and evaluation for providing suitability of these products to such an application. Failure to follow this request could result in property damage and/or personal injury, for which we shall not be liable.

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KITZ®

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