

TRUNNION FLOATS & ARMS

Floats for Trunnion Assemblies							
	Part Number	Size	Material	Weight (oz)	Displacement in Water (oz)	Max. Working Pressure	
	4009S4	7in. x 12 in	304SS	100	214.9	600 psig	
	4009S6	7in. x 12 in	316SS	100	214.9	600 psig	
	7143S4	7in. x 16 in	304SS	100	305.6	275 psig	
	5581S4	5 1/2in x 14in	304SS	63	166	350 psig	
	7564S6	5 1/2in x 14in	316SS	63	166	350 psig	
	2822S4	7 3/4in	304SS	53	141	250 psig	
	Float Arm	ns for Trunni	on Assembl	ies			
9	4041	12 in.					
	4041L14	14 in.					
	4041L16	16 in.					
	4041L18	18 in.	All float arms are made of 3/4" NPT Schedule 40 ASTM A53				
	4041L24	24 in.	-				
	4041L31	31 in.					



LIQUID DUMP VALVES LEVER OPERATED

FLOW COEFFICIENT

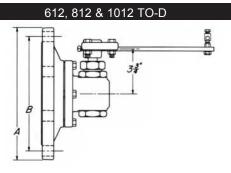
	Table 1 - Flow Coefficient(Cv) for Lever Operated Dump Valves												
Line	Trim Size	Trim	Cf		Valve Opening Percentage								
Size	in. (mm)	Туре	G	10	20	30	40	50	60	70	80	90	100
				LC) - Diaph	ragm Ba	lanced						
2"	1 1/2 in (38mm)	(1	0.79	5.0	8.5	11.7	14.6	17.0	19.0	20.5	21.6	22.6	23.3
3"	2 1/4 in (57 mm)	Linear omina	0.79	6.7	11.1	15.6	20.3	24.8	29.2	33.4	37.2	40.7	43.8
4"	3 in (76 mm)	Linear (Nominal)	0.79	12.0	18.9	25.8	32.8	39.9	46.9	53.7	60.0	65.7	70.1
6"	4.88 in (124 mm)	1)	0.79	14.2	21.0	31.6	61.2	98.3	139.0	179.7	217.6	250.2	277.0
				LP - I	Piston B	alanced	Throttlin	g					
2"	1 1/2 in (38mm)	ır าal)	0.75	3.5	5.0	7.4	9.6	11.8	13.9	16.2	18.4	20.4	22.7
2	2 in (51 mm)	Linear (Nominal)	0.75	6.6	12.3	18.4	24.2	29.5	34.1	38.0	41.2	44.0	47.0
3"	3 in (76 mm)	(No	0.75	12.7	18.7	29.0	41.0	52.9	63.4	71.9	78.4	83.7	89.0
	LB - Piston Balanced												
2"	2 in (51 mm)	ar Ial)	0.79	5.0	8.5	11.7	14.6	17.0	19.0	20.5	21.6	22.6	23.3
3"	3 in (76 mm)	Linear (Nominal)	0.79	6.7	11.1	15.6	20.3	24.8	29.2	33.4	37.2	40.7	43.8
4"	4 in (76 mm)	N ^C	0.79	12.0	18.9	25.8	32.8	39.9	46.9	53.7	60.0	65.7	70.1

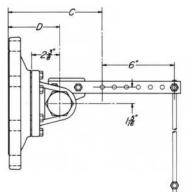
Kimray flow equations conform to ANSI/ISA - 75.01.01-2002 Kimray inherent flow characteristics conform to ANSI/ISA 75.11.01 -1985

LIQUID DUMP VALVES LEVER OPERATED

DIMENSIONS TRUNNION ASSEBNLY

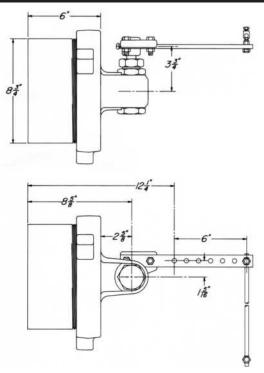


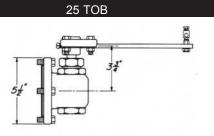


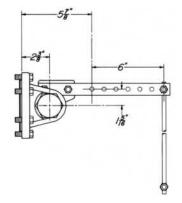


SIZE	NUMBER	Α	В	С	D	No. SIZE OF BOLTS
6	612 TO	11 in	9 1/2 in	71/4 in	41/4 in	8 3/4 x 3 1/2
8	812 TO	13 1/2 in	11 3/4 in	71/4 in	41/4 in	8 3/4 x 3 1/2
10	10 6 1/8 in 16 in 14 1/4 in 71/2 in 41/2 in 12 7/8 x 3 1/2					
	All dimensions are in inches.					

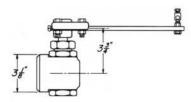
HUTA

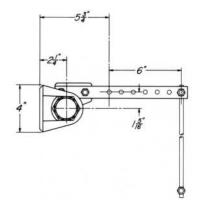






50 TOB-S





All Pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.



SEALS

Table 2 - Seal Options Dump Valves					
Part Standard Material Optional Material					
O-rings	HSN	FKM			
Diaphragm	HSN	FKM			
Seat	HSN	FKM			

Table 3 - Seal Options Trunnion Assemblies						
Part	Standard Material Optional Material					
O-rings	HSN	FKM				

	Table 4 - Seal Specifications						
		HIGHLY SATURATED NITRILE	FKM				
	Kimray Suffix	HSN	V				
	Abrasion	G-E	G				
	Acid	G-E	G-E				
	Chemical	F	E				
	Cold	G	Р				
	Flame	Р	E				
	Heat	E	E				
nce	Oil	E	E				
Resistance	Ozone	G	G-E				
Res	Set	G	G-E				
	Tear	F	F				
	Water/Steam	E	Р				
	Weather	G	E				
	CO2	G	G				
	H2S	F	Р				
	Methanol	Е	Р				
s	Dynamic	G	G				
Properties	Electrical	F	F				
rop(Impermeability	G	G				
4	Tensile Strength	G-E	G				
	Tomp Bongo	-20° to +300°F	-15° to +400°F				
	Temp. Range	-29° to +149°C	-26° to +204°C				
R/	ATINGS: P-POOR, F	-FAIR, G-GOOD,	E-EXCELLENT				





MATERIAL SPECIFICATION

Table 5 - Material Options Diaphragm Balanced Dump Valves						
Part Description	Standard Material	Corrosive Material				
Body	Ductile (ASTM A395)	Ductile (ASTM A395) + Kimcoat				
Ratio Plug	2 & 3 inch Delrin (ASTM D4181), 4 & 6 inch Ductile (ASTM A395)	316SS (ASTM A351)				
Cage	2 & 3 inch Delrin (ASTM D4181), 4 & 6 inch Ductile (ASTM A395)	316SS (ASTM A351)				
Stuffing Box	2 & 3 inch 303SS (ASTM A582), 4 & 6 inch Brass (ASTM B-16)	316SS (ASTM A479)				
Bonnet	Ductile (ASTM A395)	Ductile (ASTM A395) + Kimcoat				
Seat Disc	4 & 6 inch Ductile (ASTM A395)	4 inch 316SS (ASTM A351)				
Stem	2, 3 & 4 inch 303SS (ASTM A582), 6 inch 316SS (ASTM A213)	316SS (ASTM A351)				

Table 6 - Material Options Piston Balanced Throttling Dump Valves					
Part Description	Standard Material	Corrosive Material			
Body	Ductile (ASTM A395)	Ductile (ASTM A395) + Kimcoat			
Ratio Plug Full Port	2 inch 316 Powder Metal (ASTM 316-N1-25), 3 inch Powder Metal (F-008)	316 Powder Metal (ASTM 316-N1-25)			
Stuffing Box	303SS (ASTM A582)	316SS (ASTM A479)			
Bonnet	Ductile (ASTM A395)	Ductile (ASTM A395) + Kimcoat			
Stem	303SS (ASTM A582)	316SS (ASTM A484)			
Piston	2 inch 316SS (ASTM A484) , 2 inch reduced & 3 inch 303SS (ASTM A582)	316SS (ASTM A484)			
Cylinder	303SS (ASTM A582)	316SS (ASTM A484)			

	Table 7 - Material Options Piston Balanced Dump Valves					
Part Description	Standard Material	Corrosive Material				
Body	Ductile (ASTM A395)	Ductile (ASTM A395) + Kimcoat				
Ratio Plug	2 & 3 inch Delrin (ASTM D4181), 4 inch Ductile (ASTM A395)	316SS (ASTM A351)				
Cage	Ductile (ASTM A395)	316SS (ASTM A351)				
Stuffing Box	2 & 3 inch 303SS (ASTM A582), 4 inch Brass (ASTM B-16)	316SS (ASTM A479)				
Bonnet	Ductile (ASTM A395)	Ductile (ASTM A395) + Kimcoat				
Seat Disc	4 inch Ductile (ASTM A395)	4 inch 316SS (ASTM A351)				
Stem	303SS (ASTM A582)	316SS (ASTM A479)				
Piston	316SS (ASTM A351)	316SS (ASTM A351)				
Cylinder	2 & 3 inch 303SS (ASTM A582), 4 inch 316SS (ASTM A351)	316SS (ASTM A249)				

Table 8 - Material Options Trunnion Assemblies					
Part Description	Standard Material	Corrosive Material			
Bonnet	Ductile (ASTM A395)				
Plate	Steel SA515 Grade 70 Plate				
Stuffing Box	Brass B-16 C-36000 HO2	316SS (ASTM A479)			
Union Nut	Ductile (ASTM A395)				
Weld Neck	Schedule 100 Pipe ASTM A-106 grade C				

LIQUID DUMP VALVES LEVER OPERATED

CODE BUILDER D SERIES

Series:

D = Dump Valve Model: LD = Lever Operated Diaphragm Balanced LP = Lever Operated Piston Balanced Throttle (2 & 3 inch only) LB = Lever Operated Piston Balanced Line Size: 2 = 2 NPS 3 = 3 NPS4 = 4 NPS6 = 6 NPSEnd Connection: SA = FNPT (2 & 3 NPS only) AR = 150RFBody Type: A = Angle T = Thru Shell Material: D = Ductile Iron E = Ductile Iron w/Coating Inner Valve Size: F = Full Port R = Reduced Port (LP only) Actuator: L = Lever Operated Service Type: S = Standard C = Corrosive D LD 2 SA Α D F L S Options: Additional cost and lead times will apply If multiple options required input in sequential order Leave blank if no options required 1 = NACE Certification (Corrosive Option Only) 2 = Hydrostatic Test Certification 3 = MTR (Shell Components) H = HSN Elastomers V = FKM Elastomers X = Export (Hydrostatic test, MTR & 3.1)

Not all selections available on all products listed. See product pages 03:10.1 - 03:20.7 for available options KIMRAY