

APPLICATIONS:

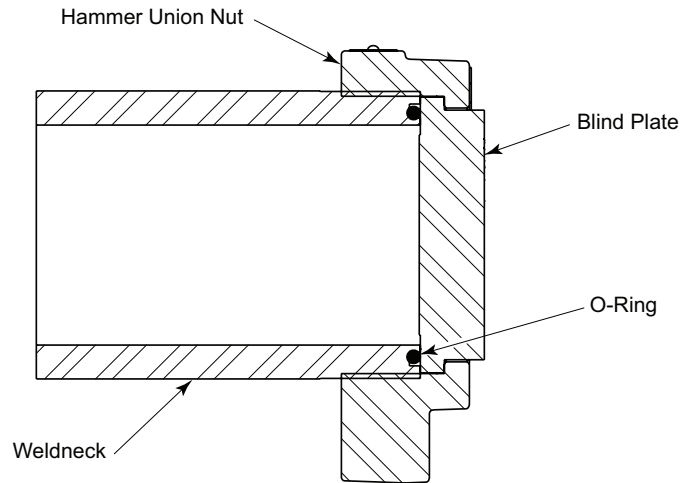
Used as an access opening for pressure vessels.

FEATURES:

- SA-106 Grade C pipe
- Heat specifications available for coding purposes
- Standard ACME thread on pipe and Hammer Union Nut for easy access
- O-Ring seal (Nitrile)
- Other weldneck lengths available on request

CERTIFICATIONS:

Canadian Registration Number (CRN):
0H065..2134567890NTY
Kimray is an ISO 9001- certified manufacturer.



HAMMER UNION CLOSURES WITH STANDARD ACME THREADS									
Cat No.	Valve	Pipe Size	Max. W.P.	Weldneck	Pipe Desc.	O-Ring	Blind Plate	Thickness	H.U. Nut
CCI	450	4"	500	4237	4" Sch 80, 5"	4238	6653	1"	2734
CCJL4	4150HUC	4"	1,500	4119L4	4" Sch 160, 4"	2745	2735	1"	2734
CCJL5	4150HUC	4"	1,500	4119L5	4" Sch 160, 5"	2745	2735	1"	2734
CCJL6	4150HUC	4"	1,500	4119L6	4" Sch 160, 6"	2745	2735	1"	2734
CCJL8	4150HUC	4"	1,500	4119L8	4" Sch 160, 8"	2745	2735	1"	2734
CCJL10	4150HUC	4"	1,500	4119L10	4" Sch 160, 10"	2745	2735	1"	2734
CCLL8	5150HUC	5"	1,500	2737L8	5" Sch 160, 8"	1177	2738	1 1/4"	2736
CCLL6	5150HUC	5"	1,500	4120	5" Sch 160, 6"	1177	2738	1 1/4"	2736
CCML6	6100HUC	6"	1,000	2760L6	6" Sch 160, 6"	2764	6654	1 1/4"	2759
CCML8	6100HUC	6"	1,000	2760L8	6" Sch 160, 8"	2764	6654	1 1/4"	2759
CCML10	6100HUC	6"	1,000	2760L10	6" Sch 160, 10"	2764	6654	1 1/4"	2759
CCRL6	6150HUC	6"	1,500	2760L6	6" Sch 160, 6"	2764	2761	1 1/4"	4532
CCRL8	6150HUC	6"	1,500	2760L8	6" Sch 160, 8"	2764	2761	1 1/4"	4532
CCRL10	6150HUC	6"	1,500	2760L10	6" Sch 160, 10"	2764	2761	1 1/4"	4532
CCNL5	8100HUC	8"	1,000	2757L5	8" Sch 100, 5"	2758	2927	1 1/4"	2756
CCNL8	8100HUC	8"	1,000	2757L8	8" Sch 100, 8"	2758	2927	1 1/4"	2756
CDQL5	8150HUC	8"	1,500	2757L5	8" Sch 100, 5"	2758	2928	1 1/2"	3040
CDQL8	8150HUC	8"	1,500	2757L8	8" Sch 100, 8"	2758	2928	1 1/2"	3040
CDQL12	8150HUC	8"	1,500	2757L12	8" Sch 100, 12"	2758	2928	1 1/2"	3040
CDQL15	8150HUC	8"	1,500	2757L15	8" Sch 100, 15"	2758	2928	1 1/2"	3040
CDRL5	8150HUC	8"	1,500	6410L5	8" Sch 120, 5"	2758	2928	1 1/2"	3040
CDRL8	8150HUC	8"	1,500	6410L8	8" Sch 120, 8"	2758	2928	1 1/2"	3040
CDRL12	8150HUC	8"	1,500	6410L12	8" Sch 120, 12"	2758	2928	1 1/2"	3040
HAMMER UNION CLOSURES WITH UNIFIED THREADS									
Cat No.	Valve	Pipe Size	Max. W.P.	Weldneck	Pipe Desc.	O-Ring	Blind Plate	Thickness	H.U. Nut
CDKL8	4150HUC	4"	1,500	2902	4" Sch 160, 8"	2745	2735	1"	2901
BLIND PLATES AVAILABLE									
	Blind Plate	Pipe Size	Max. W.P.	Thickness	Contains				
	4295	4"	1,500	1"	2" NPT				
	4347	4"	1,500	1"	1/2" NPT				
	5173	4"	1,500	1"	1" NPT				
	5176	3"	1,500	1"	Yale Union 2" NPT				
	5435	4"	1,500	1"	9/16"-18 thd				
	6001	4"	1,500	1"	1" NPT				
	6653	4"	500	1"	Plate				
	6889	5"	1,500	1 1/4"	2" NPT				
	7071	6"	1500	1 1/4"	2" NPT				
	5089	8"	1,500	1 5/8"	2" NPT				
	6939	8"	1,000	1 1/4"	2" NPT				

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

Table 1 - Flow Coefficient(Cv) for Lever Operated Dump Valves													
Line Size	Trim Size in. (mm)	Trim Type	Cf	Valve Opening Percentage									
				10	20	30	40	50	60	70	80	90	100
LD - Diaphragm Balanced													
2"	1 1/2 in (38mm)	Linear (Nominal)	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)		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)		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)		0.79	14.2	21.0	31.6	61.2	98.3	139.0	179.7	217.6	250.2	277.0
LP - Piston Balanced Throttling													
2"	1 1/2 in (38mm)	Linear (Nominal)	0.75	3.5	5.0	7.4	9.6	11.8	13.9	16.2	18.4	20.4	22.7
	2 in (51 mm)		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)		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)	Linear (Nominal)	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)		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)		0.79	12.0	18.9	25.8	32.8	39.9	46.9	53.7	60.0	65.7	70.1

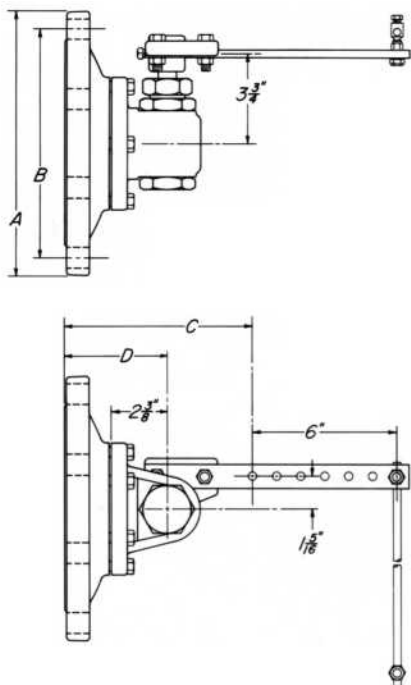
Kimray flow equations conform to ANSI/ISA - 75.01.01-2002
 Kimray inherent flow characteristics conform to ANSI/ISA 75.11.01 -1985

LIQUID DUMP VALVES LEVER OPERATED

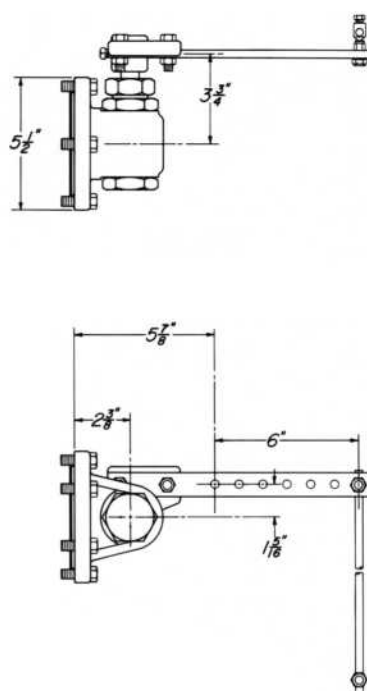
KIMRAY INC.®

DIMENSIONS TRUNNION ASSEMBLY

612, 812 & 1012 TO-D



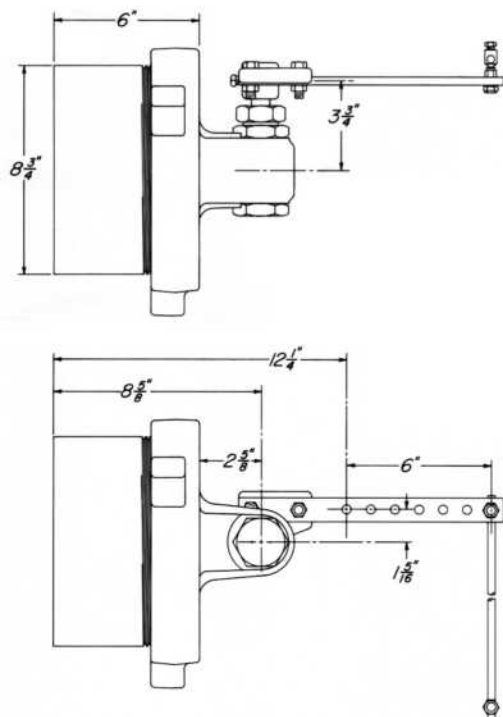
25 TOB



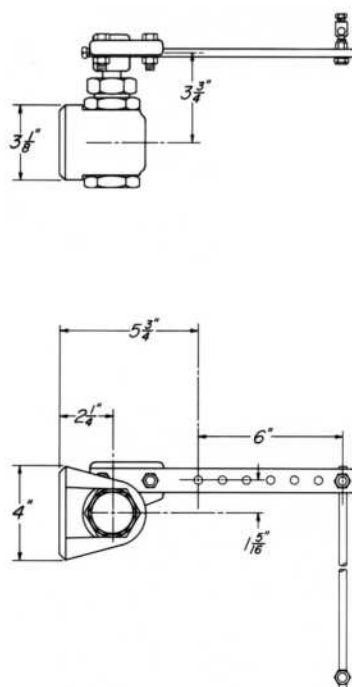
SIZE	NUMBER	A	B	C	D	No. SIZE OF BOLTS
6	612 TO	11 in	9 1/2 in	7 1/4 in	4 1/4 in	8 3/4 x 3 1/2
8	812 TO	13 1/2 in	11 3/4 in	7 1/4 in	4 1/4 in	8 3/4 x 3 1/2
10	6 1/8 in	16 in	14 1/4 in	7 1/2 in	4 1/2 in	12 7/8 x 3 1/2

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.

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
Resistance	Abrasion	G-E	G
	Acid	G-E	G-E
	Chemical	F	E
	Cold	G	P
	Flame	P	E
	Heat	E	E
	Oil	E	E
	Ozone	G	G-E
	Set	G	G-E
	Tear	F	F
	Water/Steam	E	P
	Weather	G	E
	CO2	G	G
	H2S	F	P
	Methanol	E	P
	Properties	Dynamic	G
Electrical		F	F
Impermeability		G	G
Tensile Strength		G-E	G
Temp. Range	-20° to +300°F	-15° to +400°F	
	-29° to +149°C	-26° to +204°C	
RATINGS: P-POOR, F-FAIR, G-GOOD, E-EXCELLENT			

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 NPS

4 = 4 NPS

6 = 6 NPS

End Connection:

SA = FNPT (2 & 3 NPS only)

AR = 150RF

Body 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	A	D	F	L	S	
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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