



Ultra-Capacity Drain Traps

Capacities to 317 500 kg/h... Pressures to 31 bar

Armstrong ultra-capacity ball float drain traps are designed to meet exceptionally large capacity needs in draining water and other liquids from air or other gases under pressure.

Options. L and M Series drain traps are available with armored gauge glass with a maximum allowable pressure of 17 bar @ 218°C. When ordering, be sure to specify "Liquid Drainer" or "LD." Example, LS-series LD, 50 mm BSPT, 7/8" orifice.

Model No.	Specific Gravity	1,00	0,95	0,90	0,85	0,80	0,75	0,70	0,65	0,60	0,55	0,50
	Orifice Size in	Maximum Operating Pressure in bar										
JD	1 1/6"	1,0	1,0	0,89	0,82	0,75	0,69	0,62	0,48	0,41	0,34	0,28
	3/4"	2,4	2,2	2,0	1,8	1,6	1,5	1,3	1,0	0,97	0,75	0,62
	9/16"	6,0	5,5	5,0	4,6	4,2	3,8	3,3	2,8	2,4	1,8	1,5
	1/2"	10,0	9,0	8,5	8,0	7,0	6,2	5,5	4,8	4,0	3,2	2,6
	7/16"	12,0	12,0	12,0	12,0	11,0	10,0	8,5	7,3	6,2	5,0	3,9
	3/8"	17,0	16,0	15,0	13,0	12,2	10,9	9,7	8,4	7,1	5,9	4,6
	1/4"	21,0	21,0	21,0	21,0	20,7	20,7	20,7	20,7	18,8	15,4	12,1
30KD	1 7/8" dual orifice	2	2	2	2	—	—	—	—	—	—	—
50KD		3,5	3,5	3,5	3,5	—	—	—	—	—	—	—
300KD		21	21	21	21	—	—	—	—	—	—	—
L to 17 bar	1 5/8"	2,4	2,2	2,0	1,8	1,6	1,6	1,4	1,2	1,0	0,89	0,69
	1 1/8"	8,0	7,4	7,0	6,3	5,8	5,2	4,7	4,1	3,6	3,0	2,5
LS	7/8"	12,0	11,0	10,5	9,5	8,6	7,9	7,0	6,2	5,4	4,5	3,7
For all Pressures	11/16"	22,0*	20,0*	19,0*	17,0	16,0	14,0	13,0	11,0	9,7	8,2	6,7
	1/2"	31,0*	31,0*	31,0*	31,0*	31,0*	28,0*	24,0*	21,0*	17,0	14,0	10,0
M to 17 bar	1 7/8" dual orifice	17,0	17,0	17,0	17,0	—	—	—	—	—	—	—
MS For all Pressures	1 17/32" dual orifice	31,0*	31,0*	31,0*	31,0*	31,0*	—	—	—	—	—	—

* These pressures applicable only to "LS" and "MS" models.

Name of Part	Material	
	Series JD, KD, L & M	Series LS & MS
Cap & Body	JD, KD ASTM A395 Ductil Iron L, M ASTM A48 Class 30	ASTM A216 Grade WCB
Cap	L, LS	304 Stainless Steel, ASTM A351 Grade CF8
Extension*	K, M, MS	17-4 Ph, ASTM A747 Grade CB7Cu-1
Cap Bolting	ASTM A193 Grade B 7**	ASTM A193 Grade B 7
Cap Gaskets	Compressed Asbestos Free	
Float Mechanism	Stainless Steel	

* JD Series does not have cap extension.

** JD and KD Series - ASTM A307 Grade B.

Model	Size in mm	NPT	BSPT	SW	Flanged
JD	50	X	X	—	X
KD	50, 65, 80	X	X	—	X
L	50 – 65	X	X	—	X
M	80	X	X	—	X
LS	50 – 65	X	X	X	X
MS	80	X	X	X	X

Shade indicates products that are CE Marked according to the PED (97/23/EC). All the other models comply with the Article 3.3 of the same directive, but for "L" and "M" Series PMA is 11 bar.

Trap Series	JD & KD	L & M	LS & MS
Pipe Connections	50 – 65	50 – 65 – 80	50 – 65 – 80
"B"	332	514	508
"C"	246	375	387
"H"	348 – 373	505	508
"HH1" (PN40*)	420 – 448	574 – 580 – 585	571 – 575 – 581
"HH2" (PN40*)	420 – 548	—	—
"M"	152	287	287
"D"	75 – 90	106	106
"S"	—	95	95
"T"	—	305	305
Weight in kg (screwed & SW)	36,3 – 39,5	89	132
Weight in kg (flanged PN40*)	45 – 49	97 – 99 – 101	138 – 141 – 144
Maximum Allowable Pressure (Vessel Design)†	21 bar @ 343°C	17 bar @ 232°C	31 bar @ 338°C
Maximum Operating Pressure	12 bar	17 bar	31 bar

* Other flange sizes, ratings and face-to-face dimensions are available on request.

JD, KD, L and M Series also may be used for steam service as float & thermostatic traps and as condensate controllers. Steam service capacities for all configurations are given in the steam trap section of this catalog.

† May be derated depending on flange rating and type.

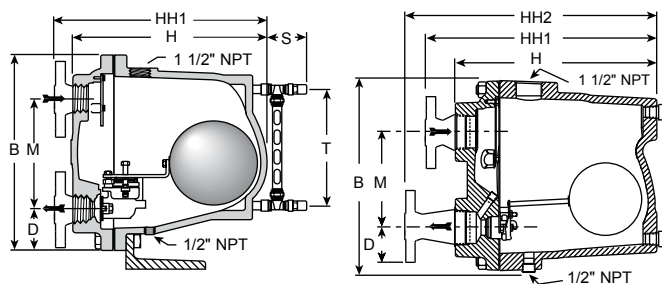


Figure LD-404-1. L and LS Series

Figure LD-404-2. JD and KD Series

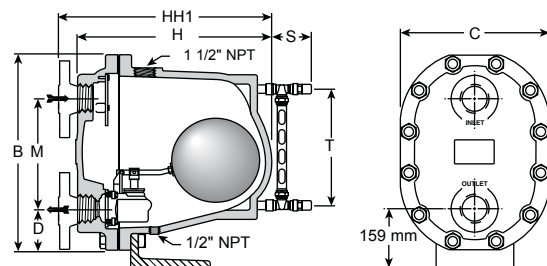


Figure LD-404-3. M and MS Series

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.