



Inverted Bucket Drain Traps (BVS Model)

For Loads to 3 200 kg/h...Pressures to 45 bar

Armstrong inverted bucket drain traps are designed for systems where heavy oil and dirt may be encountered. The enlarged bucket vent equipped with a scrub wire (BVS) allows free flow through the bucket vent and discharge through the orifice located in the top of the trap.



Table LD-346-1. BVS List of Materials

BVS Model No.	Body & Cap	Valve & Seat	Bucket & Leverage System	Gasket
800, 811, 812, 813, 880, 881, 882, 883, 211, 212, 213	Cast Iron ASTM A48 Class 30	Stainless Steel Titanium V&S (pressures higher than 38 bar)		Compressed Asbestos- free
312, 313	Forged Steel ASTM A105			
981, 983	Cast Steel ASTM A216 Grade WCB			

Table LD-346-2. BVS - Orifices, Maximum Operating Pressure (See Chart LD-337-1 for cold water capacities at various pressures.)

Model No.	800 BVS 880 BVS	811 BVS 881 BVS 211 BVS	812 BVS 882 BVS 212 BVS	312 BVS*	813 BVS 883 BVS 213 BVS 313 BVS* 983 BVS*	981 BVS*
Orifice Size						
in	bar	bar	bar	bar	bar	bar
1/4"	—	—	—	—	8,5	—
7/32"	—	—	—	—	12,5	—
3/16"	—	—	—	—	17,0	3,5
5/32"	—	—	8,5	—	31,0	6,0
1/8"	5,5	8,5	14,0	—	41,0	11,0
7/64"	8,5	14,0	17,0	41,0	—	17,0
#38	10,5	17,0	—	—	—	22,5

Note: Larger capacity models available. Consult your local Armstrong Representative or the Armstrong factory.

* Use steel traps for pressures above 17 bar.

Table LD-346-3. 800 Series Drain Traps in mm (See Pages LD-336 and LD-337- for capacity.)

Model No.	800 BVS	811 BVS	812 BVS	813 BVS
Pipe Connections	15 – 20	15 – 20 – 25	15 – 20	20 – 25
Test Plug	1/4"	1/4"	1/2"	3/4"
"A"	95	95	143	178
"B"	138	175	230	298
"C"	127	127	165	197
"CC" "Face-to-Face (flanged PN40)"	195 – 191	195 – 191– 197	233 – 229	261
"D"	70	108	137	179
Number of Bolts	6	6	6	6
Weight in kg (screwed)	2,3	2,7	6,8	12,5
Weight in kg (flanged PN40*)	3,6 – 4,3	4,1 – 4,3 – 4,8	8,2 – 9,0	14,3 – 14,8
Maximum Allowable Pressure (Vessel Design)†	17 bar @ 232°C			
Maximum Operating Pressure	10,5 bar	17,0 bar		

Note: Larger capacity models available. Consult your local Armstrong Representative or the Armstrong factory.

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

All models comply with the article 4.3 of the PED (2014/68/UE).

† May be derated depending on flange rating and type.

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

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Inverted Bucket Drain Traps (BVSW Model)

For Loads to 3 200 kg/h...Pressures to 45 bar



Table LD-347-1. Physical Data - 800 - 980 Series Drain Traps With Integral Strainers in mm (See Pages LD-336 and LD-337 for capacity.)

Model No.	Cast Iron				Cast Steel	
	880 BVSW	881 - 881F BVSW	882 BVSW	883 BVSW	981 BVSW	983 BVSW
Pipe Connections	15 – 20	15 – 20 – 25	15 – 20	20 – 25 – 32	15 – 20	20 – 25
Test Plug	1/4"	1/4"	1/2"	3/4"	1/2"	3/4"
"A"	95	95	143	178	114	184
"B"	154	179	244	314	219	313
"C"	127	127	165	200	137	197
"CC" "Face-to-Face (flanged PN40 - 881F PN16*)	195 – 191	150 – 150 – 160	233 – 229	264 – 264 – 326	196 – 194	282
"D"	87	113	146	187	122	193
Number of Bolts	6	6	6	6	6	6
Weight in kg (screwed & SW)	2,5	2,7	7,0	14,1	5,2	19,5
Weight in kg (flanged PN40 - 881F PN16*)	4,0 – 4,6	3,8 – 4,2 – 4,6	8,8 – 9,4	15,6 – 16,1 – 17,7	7,0	26,0
Maximum Allowable Pressure (Vessel Design)	17 bar @ 232°C				41 bar @ 343°C	41 bar @ 343°C
Maximum Operating Pressure	10,5 bar	17,0 bar			22,5 bar	41,0 bar

Note: Larger capacity models available. Consult your local Armstrong Representative or the Armstrong factory.

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

Shade indicates products that are CE Marked according to the PED (2014/68/UE). All the other models comply with the Article 4.3 of the same directive.

Table LD-347-2. Physical Data - 200 - 300 Series Drain Traps in mm (See Pages LD-336 and LD-337 for capacity.)

Model No.	Cast Iron			Forged Steel	
	211 BVSW	212 BVSW	213 BVSW	312 BVSW	313 BVSW
Pipe Connections	15	15 – 20	15 – 20 – 25	15 – 20 – 25	15 – 20 – 25
Test Plug	1/8"	3/8"	1/2"	—	—
"A"	108	133	162	171	203
"B"	162	203	273	259	295
"BB" Face-to-Face (flanged PN40 - PN100*)	282	320 – 330	390 – 400 – 392	307 – 314 – 320	343 – 349 – 355
"C"	—	—	—	121	130
"K" (Q Outlet to Q Inlet)	—	—	—	31,7	36,5
Number of Bolts	6	8	6	6	8
Weight in kg (screwed & SW)	2,7	5,2	9,2	13,6	22,0
Weight in kg (flanged PN40 - PN100*)	4,1	7,0 – 7,6	11 – 11,6 – 12	14,5 – 15,5 – 16	22,5 – 23,5 – 24
Maximum Allowable Pressure (Vessel Design)	17 bar @ 232°C			41 bar @ 343°C	75 bar @ 343°C
Maximum Operating Pressure	17,0 bar			41,0 bar	45,0 bar

Note: Larger capacity models available. Consult your local Armstrong Representative or the Armstrong factory.

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

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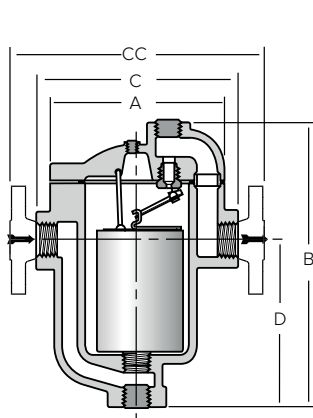


Figure LD-347-1.
Series 800

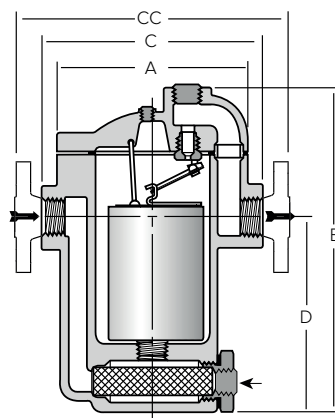


Figure LD-347-2.
Series 880 & 980

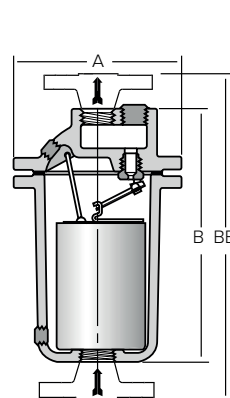


Figure LD-347-3.
Series 200

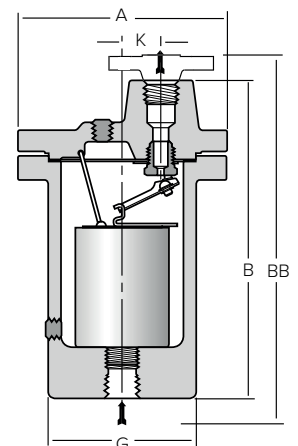


Figure LD-347-4.
Series 300

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