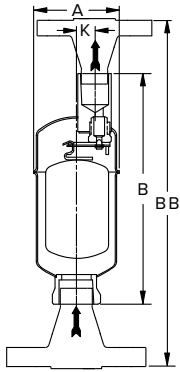


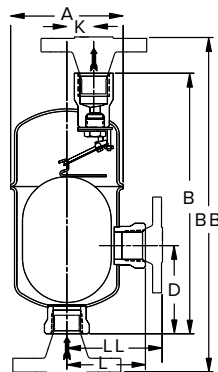


# Free Floating Lever Air/Gas Vents – All Stainless Steel

For Pressures to 41 barg or Specific Gravity Down to 0.50



Model 11-AV



Model 22-AV and 13-AV



The Armstrong all-stainless steel guided lever air vents have been developed to provide positive venting of air/gases under pressure.

The body and cap and all working parts of the models 11-AV, 22-AV and 13-AV are made of high strength, corrosion resistant stainless steel. Body and caps are welded together to form a permanently sealed, tamperproof unit with no gaskets. Elliptical floats and high leverage provide up to 195 m<sup>3</sup>/h capacity for these compact air/gas vents. Lever action is guided to assure proper seating of the valve under all operating conditions.

11-AV, 22-AV and 13-AV – All stainless steel construction where exposure to either internal or external corrosion is a problem. These air/gas vents have the same proven free floating mechanisms used in other Armstrong steam traps. Pressures to 41 barg @ 38°C.

Air Vents

Model No.	11-AV	22-AV	13-AV
Pipe Connections	15 – 20**	20	25
"A"	70	100	114
"B"	183	221	289
"BB" (PN40*)	229 – 235	273	373
"D"	—	83	154
"K"	15	23	30
"L"	—	67	83
"LL" (PN40*)	—	95	126
Weight in kg (screwed & SW)	0.80	2.3	3.4
Weight in kg (flanged PN40*)	2.9 – 4.0	5.2	7.3
Maximum Allowable Pressure (Vessel Design)†	35.4 barg @ 38°C 30 barg @ 260°C	41 barg @ 38°C 33 barg @ 260°C	39 barg @ 38°C 34 barg @ 260°C

\* Standard flanges are in carbon steel, stainless steel flanges are optional. Other flange sizes, ratings and face-to-face dimensions are available on request.

\*\* 1/2" outlet. (option)

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.

† May be derated depending on flange rating and type.

Model No.	Valve & Seat	Leverage System	Float	Body & Cap
11-AV	*Hardened chrome steel - 17-4PH	303/304 Stainless Steel	304 Stainless Steel	Sealed Stainless Steel 304-L
22-AV				
13-AV				

\* Type 316 SS valve and seat available. Consult factory.

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

# Free Floating Lever Air/Gas Vents – All Stainless Steel

For Pressures to 41 barg or Specific Gravity Down to 0.50



Maximum Operating Pressures of free floating lever vents with weighted floats for different orifice sizes, and the specific gravities on which they can be used.

Table AV-303-1. 11-AV Maximum Operating Pressures		
Minimum Specific Gravity	0.75	0.50
Float weight in grams	82 – Standard	59 – Special
Orifice Size (in)	Maximum Operating Pressure in barg	
1/8"	12	8
#38	18	12
5/64"	27.5	21

Table AV-303-2. 22-AV Maximum Operating Pressure											
Specific Gravity*	1.00	0.95	0.90	0.85	0.80	0.75	0.70	0.65	0.60	0.55	0.50
Float weight in grams	282	268	254	240	226	212	152	141	130	119	109
Orifice Size (in)	Maximum Operating Pressure in barg										
5/16"	2.4	2.3	2.2	2.0	1.9	1.8	1.3	1.2	1.1	1.0	0.9
1/4"	3.9	3.7	3.5	3.4	3.2	3.0	2.1	2.0	1.8	1.7	1.5
3/16"	8.7	8.2	7.8	7.4	7.0	6.5	4.7	4.4	4.1	3.7	3.4
5/32"	14.9	14.2	13.5	12.7	12.0	11.2	8.1	7.6	7.0	6.4	5.8
1/8"	25.6	24.3	23.0	21.8	20.5	19.2	13.9	12.9	12.0	11.0	10.0
7/64"	32.7	31.1	29.5	27.9	26.2	24.6	17.8	16.5	15.3	14.0	12.8
#38	40.7	38.7	36.7	34.7	32.7	30.6	22.1	20.6	19.0	17.5	15.9
5/64"	41.4	41.4	41.4	41.4	41.4	41.4	32.6	30.3	28.1	25.8	23.5

Table AV-303-3. 13-AV Maximum Operating Pressure										
Specific Gravity*	1.00	0.95	0.90	0.85	0.80	0.75	0.70	0.65	0.60	
Float weight in grams	423	402	381	360	339	318	296	275	254	
Orifice Size (in)	Maximum Operating Pressure in barg									
1/2"	1.5	1.4	1.3	1.3	1.2	1.1	1.0	1.0	0.9	
3/8"	3.1	3.0	2.8	2.7	2.5	2.3	2.2	2.0	1.9	
5/16"	5.0	4.7	4.5	4.2	4.0	3.8	3.5	3.3	3.0	
9/32"	6.6	6.3	6.0	5.6	5.3	5.0	4.7	4.3	4.0	
1/4"	9.9	9.4	8.9	8.5	8.0	7.5	7.0	6.5	6.0	
7/32"	14.0	13.0	13.0	12.0	11.0	10.7	10.0	9.3	8.6	
3/16"	21.0	20.0	19.0	18.0	17.0	16.0	15.0	14.0	13.0	
5/32"	33.0	32.0	30.0	28.0	27.0	25.0	24.0	22.0	20.0	
1/8"	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	
7/64"	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	

\* If specific gravity falls between those shown, use next lowest: e.g., if actual gravity is 0.73, use 0.70 specific gravity data.

Air Vents