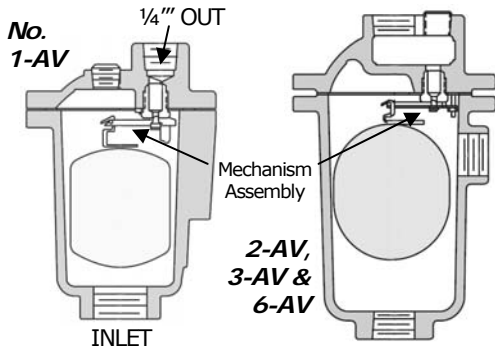


Armstrong AV Series Cast Iron Air & Inert Gas Vents



Armstrong free floating, guided lever air and inert gas vents with elliptical-shaped floats and high leverage make it possible to open relatively large, internal discharge orifices to provide significant discharge capacity when venting from a variety of liquids (water, oils, etc.). *See Capacity Tables on the following page.*

- The **1-AV** model is a cast iron vent with a 1/4" discharge (out) connection. The positive-closing, free floating lever ensures a leak tight closing under all conditions. The 1-AV has all stainless steel internals and is used on low capacity air and gas venting for steam, air and inert gas pressures up to 300 psi @ 200° F and 250 psi @ 450° F.
- The **2-AV, 3-AV** and **6-AV** cast iron steam, air & inert gas vents are used in applications where significant venting capacity is required - Up to 250 psi at 450° F.

Complete Vents						Related Repair Parts			Complete Vents						Related Repair Parts				
Model	Pipe Size	Orifice Size (inch)	Max PSI	Wgt lbs	Order No.	Mechanism Assembly	Stainless Steel Float	Cover Gasket	Model	Pipe Size	Orifice Size (inch)	Max PSI	Wgt lbs	Order No.	Mechanism Assembly	Stainless Steel Float	Cover Gasket		
1-AV	*1/2"	1/8	146	4.0	AN1625	AO4715	AO4717	AO4717H	3-AV	1"	1/2	21	22.0	AN1627A	AO4715T	AO4717C	AO4717M		
		7/64	173		AN1625A	AO4715A					AN1627C	AO4715V							
		#38	219		AN1625C	AO4715C					AN1627E	AO4715Y							
		5/64	300		AN1625E	AO4715E					AN1627G	AO4716							
	*3/4"	1/8	146		AN1625G	AO4715					AN1627H	AO4716A							
		7/64	173		AN1625H	AO4715A					AN1627K	AO4716C							
		#38	219		AN1625K	AO4715C					AN1627M	AO4716E							
		5/64	300		AN1625M	AO4715E													
		5/16	27		AN1625N	AO4715H					AN1627N	AO4716H							
		1/4	44		AN1625P	AO4715K						AN1627P		AO4716K					
3/16	97	AN1625R	AO4715M	AN1627R	AO4716M														
5/32	167	AN1625T	AO4715N	AN1627T	AO4716N														
1/8	250	AN1626	AO4715R	AN1628	AO4716R														
5/16	27	AN1626A	AO4715H	AN1628A	AO4716R														
1/4	44	AN1626C	AO4715K		AN1628A	AO4716T													
3/16	97	AN1626E	AO4715M		AN1628C	AO4716V													
5/32	167	AN1626G	AO4715N		AN1628E	AO4716Y													
1/8	250	AN1626H	AO4715R		AN1628G	AO4716H													
3-AV	3/4"	1/2	21			AN1626K	AO4715T	AN1628H	AO4716K										
		3/8	45			AN1626M	AO4715V		AN1628K	AO4716M									
		5/16	72			AN1626N	AO4715Y		AN1628M	AO4716N									
		9/32	96			AN1626P	AO4716		AN1628N	AO4716R									
		1/4	144			AN1626R	AO4716A		AN1628P	AO4716T									
		7/32	206	AN1626T		AO4716C	AN1628R		AO4716V										
		3/16	250	AN1627		AO4716E	AN1628T		AO4716Y										
2-AV	1/2"	5/16	27	13.0		AN1626A	AO4715H		AO4717A	AO4717K	6-AV	1 1/2"	1-1/16	22	80.0	AN1627N	AO4716H	AO4717E	AO4717N
		1/4	44			AN1626C	AO4715K						AN1627P	AO4716K					
		3/16	97		AN1626E	AO4715M	AN1627R						AO4716M						
		5/32	167		AN1626G	AO4715N	AN1627T	AO4716N											
		1/8	250		AN1626H	AO4715R	AN1628	AO4716R											
	3/4"	5/16	27		AN1626A	AO4715H	AN1628A	AO4716R											
		1/4	44		AN1626C	AO4715K		AN1628A					AO4716T						
		3/16	97		AN1626E	AO4715M		AN1628C					AO4716V						
		5/32	167		AN1626G	AO4715N		AN1628E					AO4716Y						
		1/8	250		AN1626H	AO4715R		AN1628G					AO4716H						
3-AV	3/4"	1/2	21	AN1626K	AO4715T	AN1628H			AO4716K										
		3/8	45	AN1626M	AO4715V				AN1628K	AO4716M									
		5/16	72	AN1626N	AO4715Y				AN1628M	AO4716N									
		9/32	96	AN1626P	AO4716				AN1628N	AO4716R									
		1/4	144	AN1626R	AO4716A				AN1628P	AO4716T									
		7/32	206	AN1626T	AO4716C		AN1628R		AO4716V										
		3/16	250	AN1627	AO4716E		AN1628T		AO4716Y										

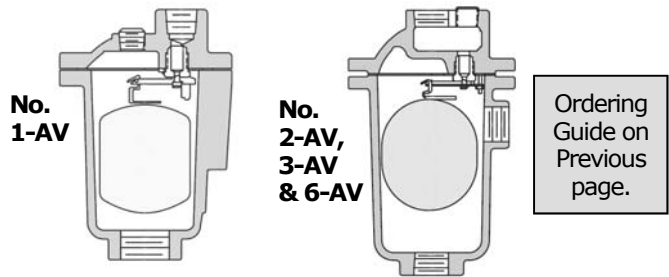
¹ Replacement floats shown are for Water (Specific Gravity = 1.00). If used on a liquid other than water (oil, glycol, etc.), please inquire.

*Model 1AV has a 1/4" NPT outlet connection. Minimum SG = .80

Capacity Tables on the following page ►

Armstrong 1-AV, 2-AV, 3-AV & 6-AV Venting Capacity Tables

1-AV Maximum Operating Pressures		
Minimum Specific Gravity	0.80	
Orifice Size (in)	Maximum Operating Pressure	
	psi	bar
1/8	146	10
7/64	173	12
#38	219	15
5/64	300	21



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.

2-AV Maximum Operating Pressures																							
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 wt., oz (g)	7.7 (217)	7.3 (206)	6.9 (195)	6.5 (184)	6.1 (174)	5.7 (163)	5.4 (152)	5.0 (141)	4.6 (130)	4.2 (119)	3.8 (109)												
Orifice Size (in)	Water Maximum Operating Pressure																						
	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	
5/16	27	1.8	25	1.8	24	1.7	23	1.6	22	1.5	20	1.4	19	1.3	18	1.2	16	1.1	15	1.0	14	0.9	
1/4	44	3.0	42	2.9	40	2.7	38	2.6	35	2.4	33	2.3	31	2.1	29	2.0	27	1.8	24	1.7	22	1.5	
3/16	97	6.7	92	6.4	88	6.0	83	5.7	78	5.4	73	5.0	68	4.7	64	4.4	59	4.1	54	3.7	49	3.4	
5/32	167	12	159	11	151	10.4	142	9.8	134	9.3	126	8.7	118	8.1	110	7.6	101	7.0	93	6.4	85	5.8	
1/8	250	17	250	17	250	17	244	17	230	16	216	15	202	14	187	13	173	12	159	11	145	10.0	
7/64	250	17	250	17	250	17	250	17	250	17	250	17	250	17	240	17	222	15	204	14	186	13	
#38	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	231	16	
5/64	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	

3-AV Maximum Operating Pressures																							
Specific Gravity*	1.00	0.95	0.90	0.85	0.80	0.75	0.70	0.65	0.60														
Float wt., oz (g)	14.9 (423)	14.2 (402)	13.4 (381)	12.7 (360)	12.0 (339)	11.2 (318)	10.5 (296)	9.7 (275)	9.0 (254)														
Orifice Size (in)	Water Maximum Operating Pressure																						
	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	
1/2	21	1.5	20	1.4	19	1.3	18	1.3	17	1.2	16	1.1	15	1.0	14	1.0	13	0.9	12	0.9	11	0.8	
3/8	45	3.1	43	3.0	41	2.8	38	2.7	36	2.5	34	2.3	32	2.2	30	2.0	27	1.9	25	1.8	23	1.9	
5/16	72	5.0	69	4.7	65	4.5	61	4.2	58	4.0	54	3.8	51	3.5	47	3.3	44	3.0	41	2.8	38	3.0	
9/32	96	6.6	91	6.3	87	6.0	82	5.6	77	5.3	72	5.0	68	4.7	63	4.3	58	4.0	54	3.7	50	4.0	
1/4	144	9.9	137	9.4	130	8.9	123	8.5	116	8.0	109	7.5	102	7.0	94	6.5	87	6.0	80	5.5	73	6.0	
7/32	206	14	196	13	186	13	176	12	165	11	155	10.7	145	10.0	135	9.3	125	8.6	115	7.9	105	8.6	
3/16	250	17	250	17	250	17	250	17	249	17	234	16	218	15	203	14	188	13	173	12	158	13	
5/32	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	

6-AV Maximum Operating Pressures																										
Specific Gravity*	1.00	0.95	0.90	0.85	0.80	0.75	0.70	0.65	0.60	0.55	0.50	0.45	0.40													
Float wt., oz (g)	73.5 (2,084)	69.8 (1,979)	66.2 (1,875)	62.5 (1,771)	58.8 (1,667)	55.1 (1,563)	51.5 (1,459)	47.8 (1,354)	44.1 (1,250)	40.4 (1,146)	36.8 (1,042)	33.1 (938)	29.4 (833)													
Orifice Size (in)	Water Maximum Operating Pressure																									
	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar				
1-1/16	22	1.5	21	1.5	20	1.4	19	1.3	18	1.2	17	1.2	16	1.1	14	1.0	13	0.9	12	0.8	11	0.8	10	0.70	9	0.62
7/8	35	2.4	33	2.3	31	2.2	30	2.0	28	1.9	26	1.8	24	1.7	23	1.6	21	1.5	19	1.3	18	1.2	16	1.1	14	1
3/4	50	3.5	48	3.3	45	3.1	43	3.0	40	2.8	38	2.6	35	2.4	33	2.3	30	2.1	28	1.9	25	1.8	23	1.6	20	1.4
5/8	77	5.3	73	5.0	69	4.8	66	4.5	62	4.3	58	4.0	54	3.7	50	3.5	46	3.2	43	2.9	39	2.7	35	2.4	31	2.2
9/16	102	7.0	97	6.7	92	6.3	87	6.0	82	5.6	77	5.3	72	4.9	67	4.6	62	4.2	57	3.9	51	3.6	46	3.2	41	3.9
1/2	148	10.2	140	9.7	133	9.2	126	8.7	119	8.2	111	7.7	104	7.2	97	6.7	89	6.2	82	5.6	75	5.1	67	4.6	60	4.1
7/16	210	14	200	14	189	13	179	12	168	12	158	11	148	10.2	137	9.5	127	8.7	116	8.0	106	7.3	96	6.6	85	5.9
3/8	250	17	250	17	250	17	250	17	250	17	249	17	233	16	216	15	200	14	184	13	167	12	151	10.4	134	9.3
11/32	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	245	17	223	15	201	14	179	12
5/16	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	230	16
9/32	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17
1/4	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17	250	17

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

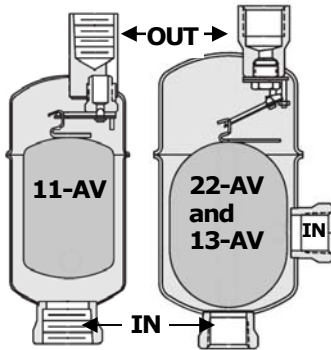
Armstrong 11-AV, 22-AV and 13-AV Air & Inert Gas Vents

11-AV Guided Lever Vents					
Model	Pipe Size	Orifice Size (inch)	Max PSI	Wgt. Lbs.	Order No.
11-AV	1/2" NPT	1/8	178	1.75	AN1635
		#38	267		AN1635A
		5/64	400		AN1635C
	3/4" NPT	1/8	178		AN1635E
		#38	267		AN1635H
		5/64	400		AN1635K

22-AV Guided Lever Vents					
Model	Pipe Size	Orifice Size (inch)	Max PSI	Wgt. Lbs.	Order No.
22-AV	3/4" NPT	5/16	35	5.0	AN1635M
		1/4	57		AN1635N
		3/16	126		AN1635P
		5/32	217		AN1635R
		1/8	371		AN1635T
		7/64	474		AN1635V
		#38	590		AN1635X
		5/64	600		AN1635Y

13-AV Guided Lever Vents					
Model	Pipe Size	Orifice Size (inch)	Max PSI	Wgt. Lbs.	Order No.
13-AV	1" NPT	1/2	21	7.0	AN1637
		3/8	45		AN1637A
		5/16	72		AN1637C
		9/32	96		AN1637E
		1/4	144		AN1637H
		7/32	206		AN1637K
		3/16	309		AN1637M
		5/32	484		AN1637N
		1/8	570		AN1637P
		7/64	570		AN1637R

11-AV has one inlet/outlet. 22-AV and 13-AV have a side equalizing connection.



Armstrong All Stainless Steel, Free-Floating Guided Lever Air Vents are non-repairable, tamper resistant vents able to handle operating pressures up to 600 psig at 100° F or pressures up to 490 psi at 500° F.

- All stainless steel body and internals.
- Elliptical floats provide high leverage.
- Guided Lever ensures tight seating.
- No corrosion problem venting.
- Body & cap are welded together.

Maximum Operating Pressures for Vents below with weighted floats, related orifice sizes & specific gravities.

11-AV Maximum Operating Pressures 1.0 is the weight of water				
Minimum Specific Gravity	0.75		0.50	
	Float wt., oz (g)		Float wt., oz (g)	
	2.90 (82) Standard		2.08 (59) Special	
Orifice Size (in)	Maximum Operating Pressure			
	psi		bar	
1/8	178	12	118	8
#38	267	18	177	12
5/64	400	28	311	21

22-AV Maximum Operating Pressure 1.0 is the weight of water																						
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 wt., oz (g)	10.0 (282)	9.5 (268)	9.0 (254)	8.5 (240)	.0 (226)	7.5 (212)	5.4 (152)	5.0 (141)	4.6 (130)	4.2 (119)	3.8 (109)											
Orifice Size (in)	Maximum Operating Pressure																					
	Water		psi		bar		psi		bar		psi		bar									
5/16	35	2.4	33	2.3	31	2.2	30	2.0	28	1.9	26	1.8	19	1.3	18	1.2	16	1.1	15	1.0	14	0.9
1/4	57	3.9	54	3.7	51	3.5	49	3.4	46	3.2	43	3.0	31	2.1	29	2.0	27	1.8	24	1.7	22	1.5
3/16	126	8.7	120	8.2	113	7.8	107	7.4	101	7.0	95	6.5	68	4.7	64	4.4	59	4.1	54	3.7	49	3.4
5/32	217	14.9	206	14.2	195	13.5	185	12.7	174	12.0	163	11.2	118	8.1	110	7.6	101	7.0	93	6.4	85	5.8
1/8	371	25.6	352	24.3	334	23.0	316	21.8	297	20.5	279	19.2	202	13.9	187	12.9	173	12.0	159	11.0	145	10.0
7/64	474	32.7	451	31.1	427	29.5	404	27.9	380	26.2	357	24.6	258	17.8	240	16.5	222	15.3	204	14.0	186	12.8
#38	590	40.7	561	38.7	532	36.7	503	34.7	473	32.7	444	30.6	321	22.1	298	20.6	276	19.0	253	17.5	231	15.9
5/64	600	41.4	600	41.4	600	41.4	600	41.4	600	41.4	600	41.4	473	32.6	440	30.3	407	28.1	374	25.8	341	23.5

13-AV Maximum Operating Pressures 1.0 is the weight of water																		
Specific Gravity*	1.00	0.95	0.90	0.85	0.80	0.75	0.70	0.65	0.60									
Float wt., oz (g)	14.9 (423)	14.2 (402)	13.4 (381)	12.7 (360)	12.0 (339)	11.2 (318)	10.5 (296)	9.7 (275)	9.0 (254)									
Orifice Size (in)	Maximum Operating Pressure																	
	Water		psi		bar		psi		bar		psi		bar					
1/2	21	1.5	20	1.4	19	1.3	18	1.3	17	1.2	16	1.1	15	1.0	14	1.0	13	0.9
3/8	45	3.1	43	3.0	41	2.8	38	2.7	36	2.5	34	2.3	32	2.2	30	2.0	27	1.9
5/16	72	5.0	69	4.7	65	4.5	61	4.2	58	4.0	54	3.8	51	3.5	47	3.3	44	3.0
9/32	96	6.6	91	6.3	87	6.0	82	5.6	77	5.3	72	5.0	68	4.7	63	4.3	58	4.0
1/4	144	9.9	137	9.4	130	8.9	123	8.5	116	8.0	109	7.5	102	7.0	94	6.5	87	6.0
7/32	206	14	196	13	186	13	176	12	165	11	155	10.7	145	10.0	135	9.3	125	8.6
3/16	309	21	294	20	279	19	264	18	249	17	234	16	218	15	203	14	188	13
5/32	484	33	460	32	437	30	413	28	389	27	365	25	342	24	318	22	294	20
1/8	570	39	570	39	570	39	570	39	570	39	570	39	570	39	570	39	570	39
7/64	570	39	570	39	570	39	570	39	570	39	570	39	570	39	570	39	570	39

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