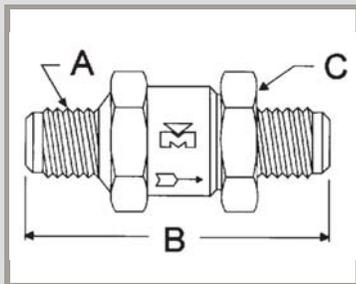


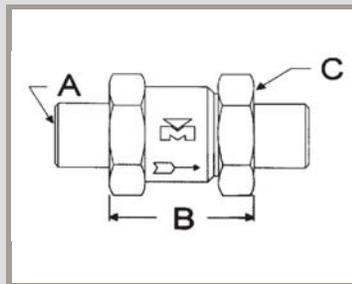


**Features:**

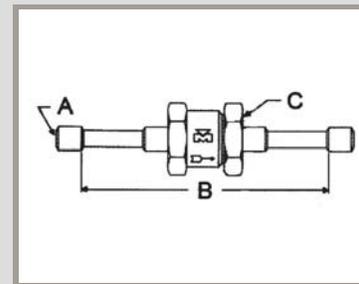
- Maximum abnormal pressure (MAP): 700 psig, 48 bar
- Continuous operating temperature (COT): -40°F/300°F, -40°C/149°C
- Pressure to open: < 1 psi
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, Conforms to Pressure Equipment Directive 97/23/EC
- Neoprene seat for positive isolation and pulsation dampening
- Enhanced internal design for maximum flow and minimum pressure drop



**Flare to Flare**



**Solder to Solder**



**Solder to Solder, Extended Ends**

**Flare to Flare**

Part Number	Size A		B		C		Wt	
	in	mm	in	mm	in	mm	lb	kg
A 15620	1/4	6	2.25	57	13/16 Hex	21 Hex	0.15	0.07
A 15621	3/8	10	2.40	61	13/16 Hex	21 Hex	0.20	0.09
A 15622	1/2	13	3.00	76	1 1/4 Oct	32 Oct	0.43	0.19
A 15623	5/8	17	3.20	81	1 1/4 Oct	32 Oct	0.51	0.23

**Solder to Solder**

Part Number	Size A		B		C		Wt		
	in	mm	in	mm	in	mm	lb	kg	
A 15628	*	1/4	6	1.14	29	13/16 Hex	21 Hex	0.13	0.06
A 15629	*	3/8	10	1.14	29	13/16 Hex	21 Hex	0.13	0.06
A 15630	*	1/2	13	1.44	37	1 1/4 Oct	32 Oct	0.37	0.17
A 15631	*	5/8	17	1.44	37	1 1/4 Oct	32 Oct	0.36	0.16
A 15632	**	1/4	6	4.40	112	13/16 Hex	21 Hex	0.16	0.07
A 15633	**	3/8	10	4.70	119	13/16 Hex	21 Hex	0.18	0.08
A 15634	**	1/2	13	4.90	124	1 1/4 Oct	32 Oct	0.43	0.20
A 15635	**	5/8	17	5.20	132	1 1/4 Oct	32 Oct	0.48	0.22

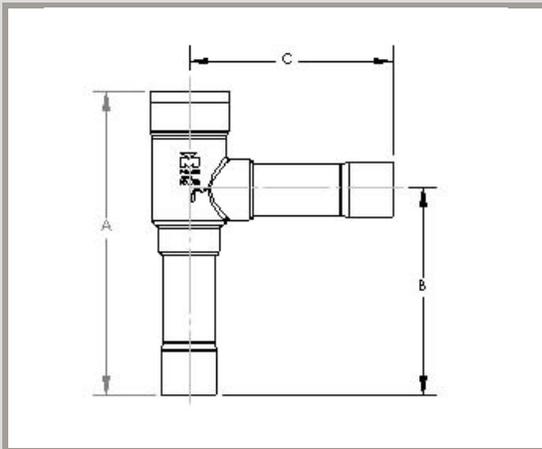
\* Shipped loosely assembled

\*\* Extended Ends



**Features:**

- Maximum abnormal pressure (MAP): 700 psig, 48 bar
- Continuous operating temperature (COT): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, Conforms to Pressure Equipment Directive 97/23/EC
- 100% tested
- Forged brass body exceeds the most stringent quality standards in the industry
- Neoprene gasket



Part Number	Size (in)		Cv	Kv	A		B		C		Wt	
					in	mm	in	mm	in	mm	lb	kg
A 18383C	7/8	Male Inlet x Female Outlet	13.4	11.6	5.38	137	3.70	94	3.47	88	0.81	0.37
A 18565C	7/8	Male Inlet x Male Outlet	13.4	11.6	5.38	137	3.70	94	3.67	93	0.80	0.36
A 18566C	* 7/8	Female Inlet x Female Outlet	13.4	11.6	5.18	132	3.50	89	3.47	88	0.81	0.37
A 18659C	* 1 1/8	Female Inlet x Female Outlet	30.2	26.1	8.02	204	5.55	141	4.84	123	1.93	0.88
A 18660C	* 1 3/8	Female Inlet x Female Outlet	37.0	32.0	8.02	204	5.55	141	4.84	123	1.98	0.90

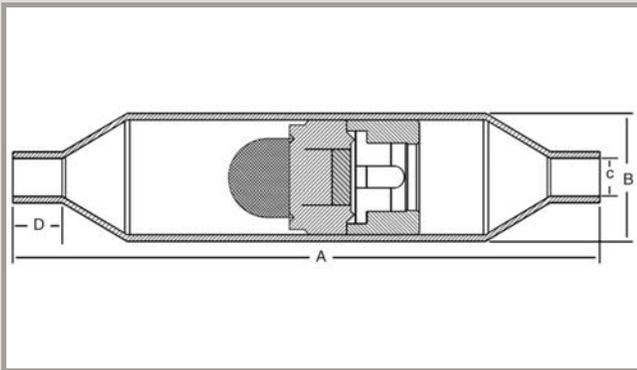
Standard valve includes 2 lb spring

\* Prefixed AH for valve with 4.3 lb spring



### Features:

- Maximum abnormal pressure (MAP): Charted below
- Continuous operating temperature (COT): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, Conforms to Pressure Equipment Directive 97/23/EC
- Built-in 30 mesh stainless steel screen
- Internal components installed with DuraForm Technology
- Mechanically formed solder cup stops for easy installation
- Flexible for installation in vertical or horizontal position
- Hermetically formed solid copper body assures zero leak potential

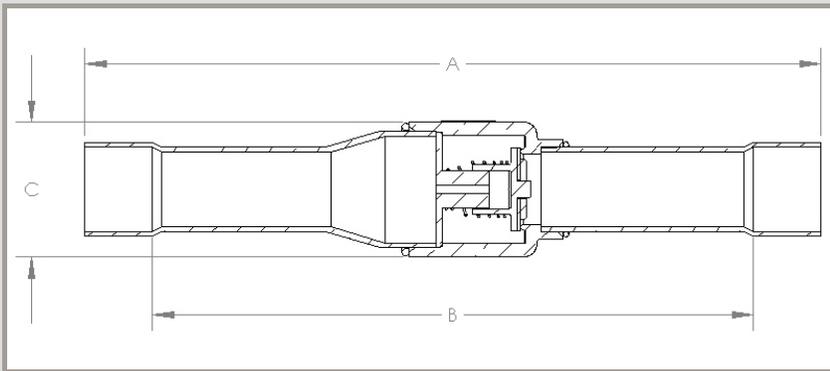


Part Number	Model	Size C (in)		A		B		D		MAP		Wt	
		in	mm	in	mm	in	mm	in	mm	psig	bar	lb	kg
A 17934	CMV-4S	1/4	6	4.02	102	0.88	22	0.34	9	800	55	0.20	0.09
A 17935	CMV-6S	3/8	10	4.02	102	0.88	22	0.34	9	800	55	0.20	0.09
A 17936	CMV-8S	1/2	13	5.18	131	1.13	29	0.41	10	800	55	0.38	0.17
A 17937	CMV-10S	5/8	17	5.18	131	1.13	29	0.53	13	800	55	0.34	0.16
A 17938	CMV-12S	3/4	19	7.04	179	1.63	41	0.65	17	800	55	0.87	0.40
A 17939	CMV-14S	7/8	22	7.04	179	1.63	41	0.78	20	800	55	0.90	0.41
A 17940	CMV-18S	1 1/8	29	8.43	214	2.13	54	0.94	24	800	55	1.61	0.73
A 17941	CMV-22S	1 3/8	35	9.41	239	2.63	67	1.00	25	800	55	2.74	1.24
A 17942	CMV-26S	1 5/8	41	10.55	268	3.13	79	1.12	28	800	55	3.91	1.77
A 17943	CMV-34S	2 1/8	54	12.06	306	3.63	92	1.37	35	775	53	6.00	2.72
A 17944	CMV-42S	2 5/8	67	13.05	331	4.13	105	1.50	38	775	53	7.00	3.18
A 17981	CMV-50S	3 1/8	79	13.05	331	4.13	105	1.69	43	700	68	7.43	3.37



**Features:**

- Continuous operating temperature (COT): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, Conforms to Pressure Equipment Directive 97/23/EC
- Enhanced internal design for maximum flow and minimum pressure drop
- Maximum abnormal pressure (MAP): Charted below
- 1/4" - 1/2" sized valves are designed for use with R744 (CO2)
- 5/8" - 7/8" sized valves are designed for use with R744 in cascading systems or secondary loops where design pressures are below the R744 critical pressure of 1058 psi



Part Number	Size ODS		Cv	Kv	ΔP psi	A		B		C		Wt		MAP
	in	mm				in	mm	in	mm	lb	kg			
A 18720	1/4	6	0.70	0.61	1	3.62	92	3.00	76	0.71	18	0.11	0.05	1305
A 18721	3/8	10	1.40	1.21	1	4.29	109	3.60	91	0.71	18	0.12	0.05	1305
A 18722	1/2	13	2.71	2.34	.75	5.15	131	4.28	109	0.85	22	0.16	0.07	1305
A 18723	5/8	17	4.10	3.55	.75	5.43	138	4.43	113	1.00	25	0.22	0.10	1000
A 18724	7/8	22	9.19	7.95	.75	6.50	165	5.25	133	1.34	34	0.42	0.19	1000
A 18838	3/4	19	8.76	7.58	.75	7.01	178	5.86	149	1.34	34	0.43	0.19	1000
AH18720	* 1/4	6	0.70	0.61	4.4	3.62	92	3.00	76	0.71	18	0.11	0.05	1305
AH18721	* 3/8	10	1.40	1.21	4.4	4.29	109	3.60	91	0.71	18	0.12	0.05	1305
AH18722	* 1/2	13	2.71	2.34	4.4	5.15	131	4.28	109	0.85	22	0.16	0.07	1305
AH18723	* 5/8	17	4.10	3.55	4.4	5.43	138	4.43	113	1.00	25	0.22	0.10	1000
AH18724	* 7/8	22	9.19	7.95	4.4	6.50	165	5.25	133	1.34	34	0.42	0.19	1000
AH18838	* 3/4	19	8.76	7.58	4.4	7.01	178	5.86	149	1.34	34	0.44	0.20	1000

Prefixed AH for valve with 4.4 lb spring

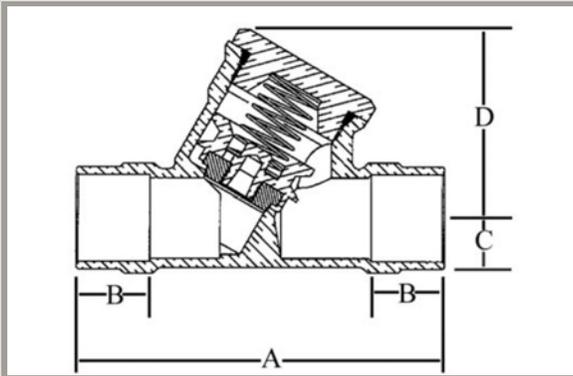
Standard valve includes 1 lb spring

\* Prefixed AH for valves with higher ΔP

ΔP Minimum pressure at which valve fully opens.


**Features:**

- Maximum abnormal pressure (MAP): 700 psig, 48 bar
- Continuous operating temperature (COT): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, Conforms to Pressure Equipment Directive 97/23/EC
- 100% tested
- Design features easy removal and reassembly of internal components
- Forged brass body exceeds the most stringent quality standards in the industry
- Designed to provide minimal pressure drop and increased flow capacity
- PTFE gasket



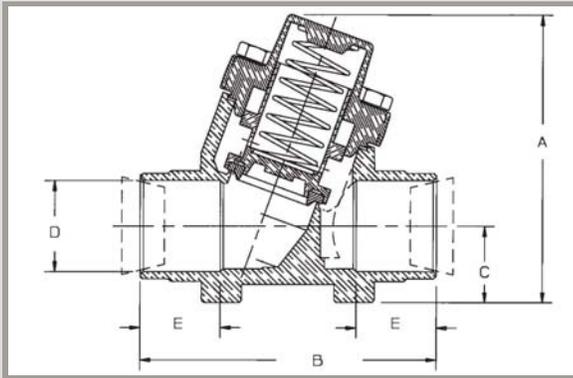
Part Number	Size		Cv	Kv	A		B		C		D		Pressure to Open		Rec Bolt Torques		Replacement Components		Wt	
	in	mm			in	mm	in	mm	in	mm	in	mm	psi	bar	ft-lb	N-m	5 lb Spring	10 lb Spring	lb	kg
A 17953	1/4	6	0.50	0	3.00	76	0.31	8	0.19	5	1.57	40	<1	<.07	14 - 16	19 - 22	P 36542	P 36543	0.58	0.26
A 17954	3/8	10	1.42	1	3.00	76	0.44	11	0.25	6	1.57	40	<1	<.07	14 - 16	19 - 22	P 36542	P 36543	0.57	0.26
A 17955	1/2	13	2.03	2	3.00	76	0.56	14	0.32	8	1.57	40	<1	<.07	14 - 16	19 - 22	P 36542	P 36543	0.53	0.24
A 17956	5/8	17	8.10	7	3.31	84	0.66	17	0.38	10	1.57	40	<1	<.07	14 - 16	19 - 22	P 36542	P 36543	0.53	0.24
A 17958	7/8	22	2.50	2	3.75	95	0.75	19	0.52	13	1.92	49	<1	<.07	14 - 16	19 - 22	P 37516	P 37517	0.87	0.39
AT17954 *	3/8	10			6.30	160	0.31	8	0.21	5	1.57	40	<1	<.07	14 - 16	19 - 22	P 36542	P 36543	0.62	0.28
AT17955 *	1/2	13			6.06	154	0.38	10	0.28	7	1.57	40	<1	<.07	14 - 16	19 - 22	P 36542	P 36543	0.59	0.27
AT17956 *	5/8	17			6.81	173	0.50	13	0.34	9	1.57	40	<1	<.07	14 - 16	19 - 22	P 36542	P 36543	0.66	0.30
AT17958 *	7/8	22			7.75	197	0.75	19	0.47	12	1.92	49	<1	<.07	14 - 16	19 - 22	P 37516	P 37517	1.09	0.49

\* Extended End  
 Prefix AG Includes 5 lb spring  
 Prefix AH Includes 10 lb spring



**Features:**

- Maximum abnormal pressure (MAP): 700 psig, 48 bar
- Continuous operating temperature (COT): -40°F/300°F, -40°C/149°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils
- UL/cUL Recognized, Conforms to Pressure Equipment Directive 97/23/EC
- 100% tested
- Design features easy removal and reassembly of internal components
- Forged brass body exceeds the most stringent quality standards in the industry
- Horizontal or vertical installation (not to be installed with bonnet facing down)
- "Y" type design provides minimal pressure drop and increased flow capacity



Part Number	Size D		Cv	Kv	A		B		C		E		Pressure Rec Bolt Torques				Replacement Components				Wt		
	in	mm			in	mm	in	mm	in	mm	in	mm	in	mm	psi	bar	ft-lb	N-m	Kit **	10 lb Spring	20 lb Spring	Gasket	lb
B 34235	*	7/8	22	9.20	8	3.55	90	3.68	93	0.94	24	0.94	24	<1	<.07	8 - 15	11 - 20	A 17986	P 35656	P 35859	P 35708	2.44	1.11
B 34236	*	1 1/8	29	11.00	10	3.55	90	3.68	93	0.94	24	1.00	25	<1	<.07	8 - 15	11 - 20	A 17986	P 35656	P 35859	P 35708	2.27	1.03
B 34237	*	1 3/8	35	18.50	16	4.53	115	4.75	121	1.25	32	1.06	27	2	.14	10 - 20	14 - 27	A 17987	P 35657	P 36305	P 35691	5.45	2.47
B 34238	*	1 5/8	41	20.40	18	4.53	115	4.75	121	1.25	32	1.06	27	2	.14	10 - 20	14 - 27	A 17987	P 35657	P 36305	P 35691	4.65	2.11
B 34239	*	2 1/8	54	36.00	31	5.84	148	6.37	162	1.70	43	1.50	38	2	.14	10 - 20	14 - 27	A 17988	P 36544		P 35721	12.31	5.58
B 34240	*	2 5/8	67	86.10	74	8.00	203	8.88	226	2.00	51	1.90	48	2	.14	15 - 25	20 - 34	A 18050			P 36041	27.67	12.55
B 34241	*	3 1/8	79			8.00	203	8.88	226	2.00	51	1.90	48	2	.14	15 - 25	20 - 34	A 18050			P 36041	26.52	12.03

\* Includes standard 2 lb spring

\*\* Replacement kit includes seat holder subassembly, cover gasket and 2 lb spring