



Compact • High Flow • Check Valves

Forged Brass and Stainless Steel Bodies
1/4" to 3/4" NPT

Accessories

Features

- Compact design
- In-line mounted
- Quiet operation
- Instantaneous shutoff against reverse flow, low forward pressure opening
- Disc seats before reverse flow to avoid fluid shock on reverse pressure differential

Construction

Valve Parts in Contact with Fluids		
Body	Brass	300 Stainless Steel
Valve Seat	NBR and EPDM seat at zero pressure in spring-loaded valves.	
	Metal seated - leakage on air up to 65 SCFH.	



Nominal Ambient Temp. Ranges

32°F to 125°F (0°C to 52°C)

Refer to Engineering Section for details.

Specifications (English units)

Pipe Size (in)	Orifice Size (in)	Cv Flow Factor	Operating Pressure (psi)	Maximum Operating Pressure Differential (psi) Air-Inert Gas, Water, and Light Oil	Max. Fluid Temp. °F	Catalog Number	Const. Ref.
FORGED BRASS BODY with NBR Disc							
1/4	9/32	.70	1	150	200	V012 001	1
3/8	3/8	1.2	1	150	200	V012 002	2B
1/2	7/16	2.5	1	150	200	V012 003	2C
3/4	1/2	3.6	1	150	200	V012 004	2D
STAINLESS STEEL BODY with NBR Disc							
1/4	9/32	.70	1	150	200	V012 005	3
3/8	3/8	1.2	1	150	200	V012 006	2B
1/2	7/16	2.5	1	150	200	V012 007	2C
FORGED BRASS BODY with EPDM Disc for Low-Pressure Steam							
1/4	3/8	1.2	1	50	300	V012 010	2A
3/8	3/8	1.2	1	50	300	V012 011	2B
1/2	7/16	2.5	1	50	300	V012 012	2C
3/4	1/2	3.6	1	50	300	V012 013	2D
FORGED BRASS BODY with Metal Seating for High-Pressure Steam							
1/4	3/8	.70	8	200	388	V012 014	2E
3/8	3/8	.70	8	200	388	V012 015	2E
1/2	1/2	3.4	4	200	388	V012 016	2F
3/4	1/2	5.1	4	200	388	V012 017	2F

ACCESSORIES

Specifications (Metric units)

Pipe Size (in)	Orifice Size (mm.)	Kv Flow Factor (m ³ /h)	Operating Pressure (bar)	Maximum Operating Pressure Differential (bar) Air-Inert Gas, Water, and Light Oil	Max. Fluid Temp. °C	Catalog Number	Const. Ref.
FORGED BRASS BODY with NBR Disc							
1/4	7	.60	0.07	10	92	V012 001	1
3/8	10	1.03	0.07	10	92	V012 002	2B
1/2	11	2.14	0.07	10	92	V012 003	2C
3/4	13	3.09	0.07	10	92	V012 004	2D
STAINLESS STEEL BODY with NBR Disc							
1/4	7	.60	0.07	10	92	V012 005	3
3/8	10	1.03	0.07	10	92	V012 006	2B
1/2	11	2.14	0.07	10	92	V012 007	2C
FORGED BRASS BODY with EPDM Disc for Low-Pressure Steam							
1/4	10	1.03	0.07	3	147	V012 010	2A
3/8	10	1.03	0.07	3	147	V012 011	2B
1/2	11	2.14	0.07	3	147	V012 012	2C
3/4	13	3.09	0.07	3	147	V012 013	2D
FORGED BRASS BODY with Metal Seating for High-Pressure Steam							
1/4	10	.60	0.55	14	196	V012 014	2E
3/8	10	.60	0.55	14	196	V012 015	2E
1/2	13	2.91	0.28	14	196	V012 016	2F
3/4	13	4.37	0.28	14	196	V012 017	2F

Dimensions inches (mm)

Const. Ref. 1

Const. Ref. 2

Const. Ref. 3

Flow Diagrams

Const. Ref.		E	H	L	P	W
2A	in	1.16	2.03	1.91	1.56	0.88
	mm	30	52	49	40	22
2B	in	1.16	2.09	1.91	1.66	0.88
	mm	30	53	49	42	22
2C	in	1.16	2.38	2.28	1.84	1.09
	mm	30	61	58	47	28
2D	in	1.31	2.62	2.75	1.84	1.31
	mm	33	67	70	47	33
2E	in	1.16	2.38	2.28	1.84	1.09
	mm	30	61	58	47	28
2F	in	1.38	2.94	2.75	2.16	1.31
	mm	35	75	70	55	33