

Check Valves

Wafer
Patent Pending

U.S. Valve

We make high-performance check valves that will double your Cv.¹ If you are looking for the lowest possible pressure loss then our resilient hinged double disc valves are what you need.

Durable

Our unique, air-foil designed wing support conditions the flow profile, resulting in a more laminar, less turbulent flow, thus extending the life of the valve. Our valves consistently out-perform all other products on the market today.

Low Maintenance

A protective coating secures our valves against normal atmospheric corrosion and enhances appearance, making priming and painting unnecessary.

Reliable

Each of our valves is individually inspected and tested to ensure performance. Most manufacturers will check only random valves. **We test every, single one.**

Highest Quality

Our designs specify the finest materials engineered specifically for each application. We manufacture all our valves with forged wing supports for superior strength against linear loads, and all wing pins and fasteners are made of 316 stainless steel.

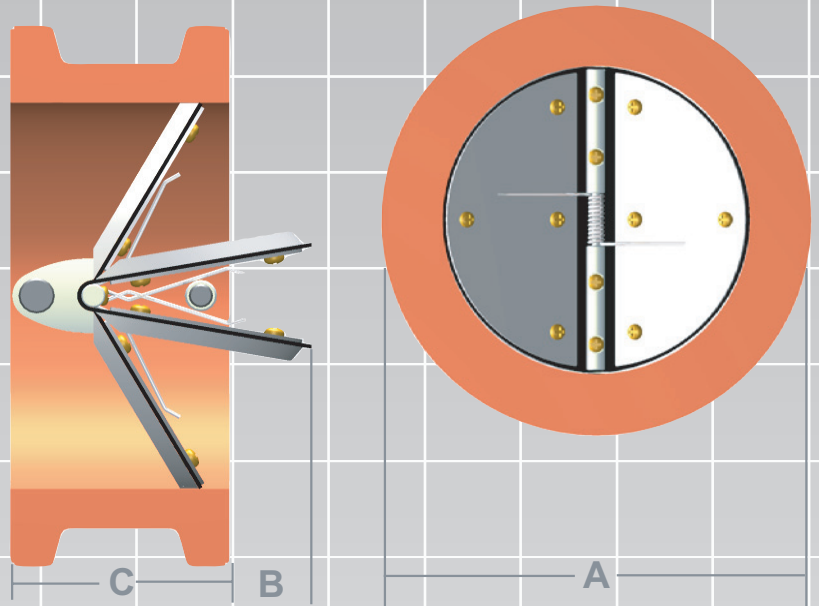
Manufactured by U.S. Valve

Every component is manufactured entirely by U.S. Valve. We control the quality, we control delivery and we keep our prices down.

In Stock

We stock a vast inventory of valves, so most sizes and materials can ship the same day.

¹The Cv of our high-performance check valves is almost twice that of conventional, metallic-hinge, double door check valves for sizes 2" through 4" and approximately 25% more for sizes 16" through 24".



Standard Wafer Models and Materials*

Model	Body	Discs	Wing Support	M.O.P.
09-0-0	Aluminum ASTM B26 T6 (Solid Body)	Aluminum ASTM B209 6061T6	Extruded Aluminum 6061	200 PSI
09-1-0	Carbon Steel ASTM A216 WCB (Solid Body)	Aluminum ASTM B209 6061T6	Extruded Aluminum 6061	250 PSI
09-1-4	Carbon Steel ASTM A216 WCB (Solid Body)	Stainless Steel ASTM A240 316	Forged Stainless Steel 316	450 PSI
09-2-0	Cast Iron ASTM A126 Gr. B	Aluminum ASTM B209 6061T6	Extruded Aluminum 6061	250 PSI**
09-2-3	Cast Iron ASTM A126 Gr. B	Brass ASTM B36 C260	Forged Brass ASTM B124 C377	250 PSI**
09-2-4	Cast Iron ASTM A126 Gr. B	Stainless Steel ASTM A240 316	Forged Stainless Steel 316	250 PSI**
09-3-3	Brass ASTM B62 Alloy C836 (Solid Body)	Brass ASTM B36 C260	Forged Brass ASTM B124 C377	150 PSI
09-4-4	Stainless Steel ASTM A351 CF8M (Solid Body)	Stainless Steel ASTM A240 316	Forged Stainless Steel 316	450 PSI

*All fasteners and spring pins are 316 stainless steel. BUNA-N is standard seal in all valves. Optional seal materials: EPDM, SILICONE, VITON. 316 stainless steel springs are optional for all models. Consult factory for any other special material requirements.

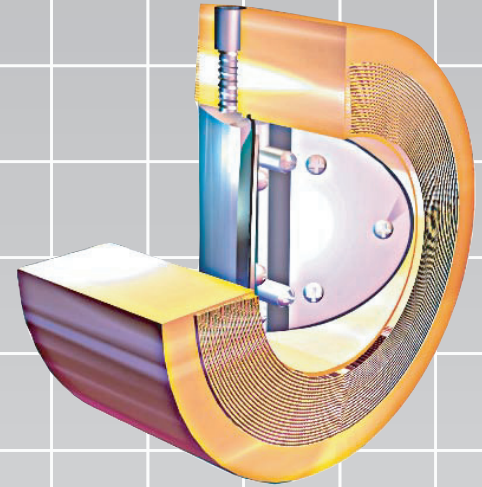
**M.O.P. for 18", 20" and 24" is 150 PSIG

Dimensional Data: (inches)

Valve size	A	B	C*
1 ¹ / ₄	3.0	0.3	1.4
1 ¹ / ₂	3.3	0.3	1.4
2	4.1	0.5	1.6
2 ¹ / ₂	4.7	0.6	1.6
3	5.3	0.7	2.3
4	6.7	0.9	2.4
5	7.7	1.1	2.9
6	8.7	1.5	3.4
8	11.0	2.3	4.4
10	13.3	2.5	5.4
12	16.1	3.0	6.4
14	17.7	3.3	7.4
16	20.2	3.8	8.4
18	21.6	4.3	9.4
20	23.7	4.8	10.4
24	28.2	5.8	12.4

Consult factory for larger sizes.

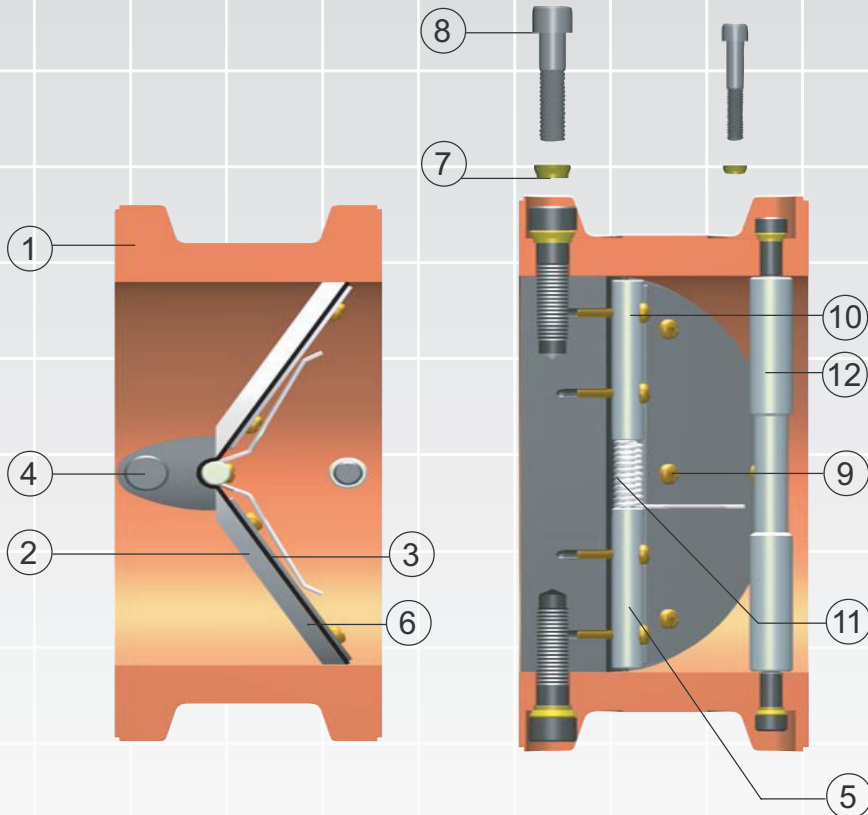
* All "C" dimensions ± .060"



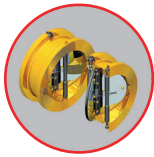
Solid Body Wafer.
(H-Body shown on cover.)

Parts and Description:

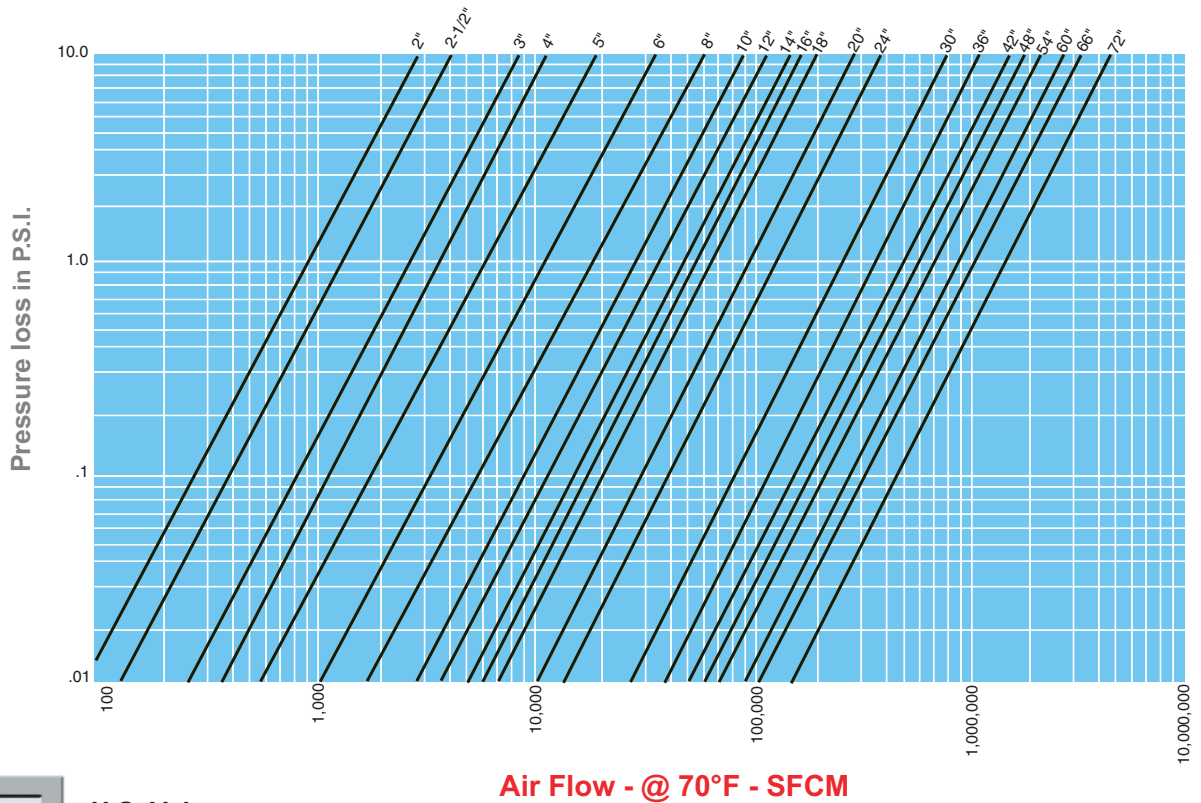
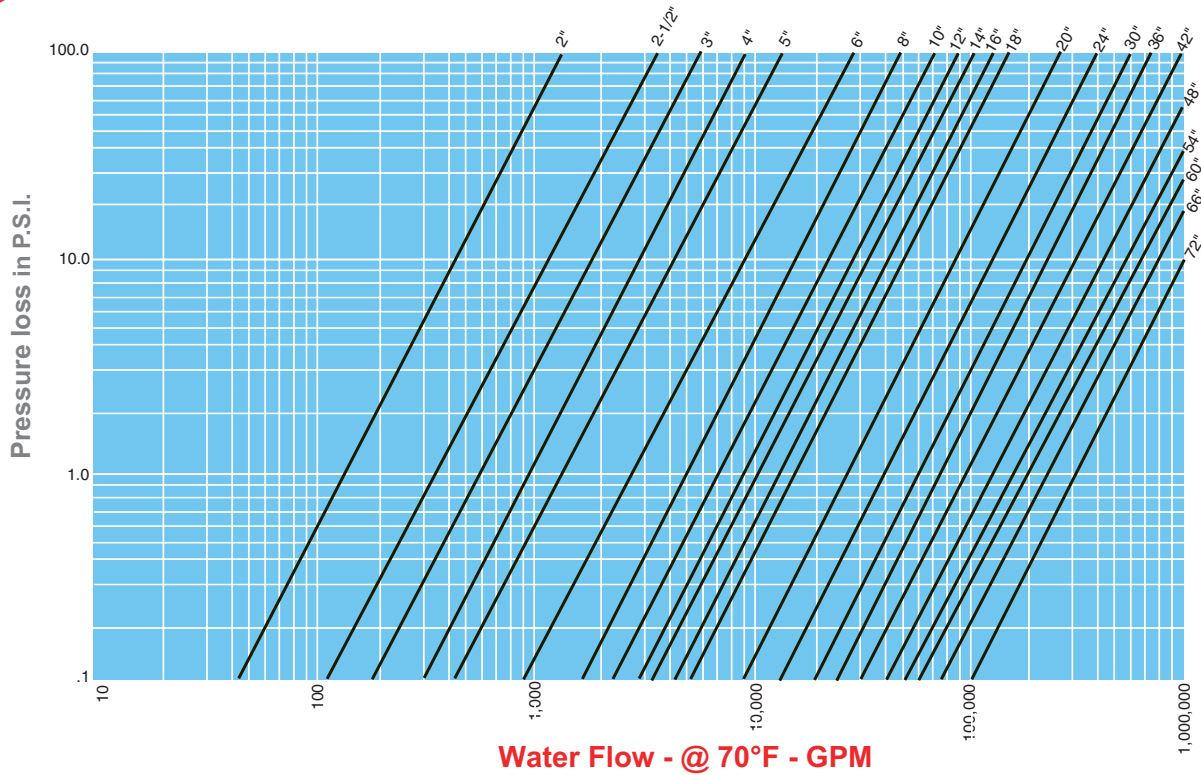
Item	Description
①	Body
②	Disc
③	Disc Backup
④	Wing Support
⑤	Wing Pin
⑥	Seal
⑦	Sealing Washer
⑧	Wing Support Screw
⑨	Disc Assembly Screw
⑩	Wing Assembly Screw
⑪	Spring (Optional)
⑫	Limitter (5" valves & larger)



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Pressure Loss Charts:



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