Dual Flap Check Valves (Wafer Type)

Dual Flap Check Valves are designed to operate with minimum flow restriction. The valves are normally installed in the discharge side of the pump, equipment as well as piping system. The spring loaded half disc opens when there is a flow in the pipe line and shuts down against any back flow.

Design Features:

- The short face to face dimension and compact design of the Dual Flap Check Valve allows easy installation and service in tight spaces.
- Spring assisted quick closure allows for better dynamic behavior and prevents water hammer.
- The resilient seating and springs provide perfect tightness even at low differential pressure.
- High strength ductile iron body used for lowering the weight and improving long term durability.
- All iron parts are coated inside & outside with fusion bonded epoxy for corrosion resistance per AWWA C550.
- Valves can be installed in the horizontal or vertical position.
- ANSI Class 125 and ANSI Class 150 dimensions.
- NSF61 approved material available as option.

Typical Applications:

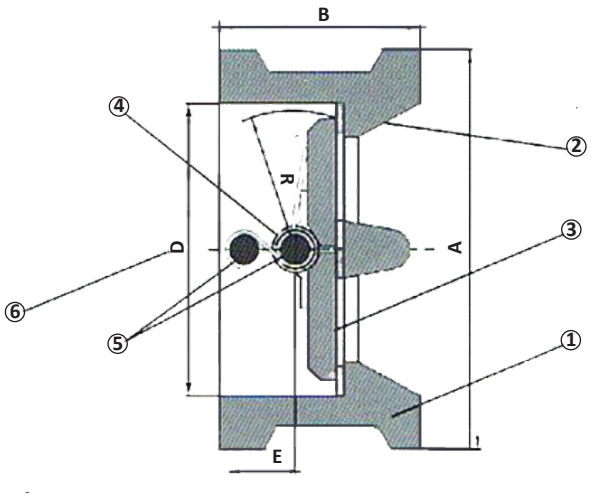
General Water Supply, Fire Fighting, HVAC, District Cooling & Sewage System

Technical Data:

Design Standard:	AWWA C518 / API 6D
Size Range:	2” – 24”
Pressure Rating:	Class 125 - Class 250
Working Temperature:	-10°C - 120°C (EPDM Seat)
End Connection:	Wafer Type Lug Type (Optional)
Face-to-Face:	AWWA C518 / API 6D
Test & Inspection:	AWWA C518 / API 6D

VAHN-TECH International Inc. reserves the right to change the technical data without prior notice.

Dual Flap Check Valves



Parts List & Materials

No.	Parts Name	Materials	Standards
1	Body	Ductile Iron	ASTM A536
		Cast Iron	ASTM A126
		Bronze	ASTM B584
		Stainless Steel	ASTM A351 CF8
			ASTM A351 CF8M
2	Seat	Rubber	NBR
			EPDM
3	Disc	Bronze	ASTM B584
		Stainless Steel	ASTM A351 CF8
			ASTM A351 CF8M
4	Spring	Stainless Steel	ASTM A313
		Inconel	ASTM B637
5	Stem	Stainless Steel	ASTM A276
6	Pin	Stainless Steel	ASTM A313

Main Dimensions

unit: inch

NPS	A		B		R		D		E	
	Class 125	Class 150	Class 125	Class 150	Class 125	Class 150	Class 125	Class 150	Class 125	Class 150
2"	4		2 1/4	2 1/4	1 1/8		2 1/4		3/4	
2 1/2"	4 3/4		2 1/4	2 3/4	1 1/2		2 3/4		3/4	
3"	5 1/4		2 1/4	2 3/4	1 1/2		3 1/4		1 1/8	
4"	6 3/4		2 1/2	2 3/4	2 1/8		4 1/2		1 1/8	
5"	7 3/4		2 3/4	3 1/4	2 1/2		5 1/2		1 1/8	
6"	8 1/2		3	3 3/4	3 1/8		6 1/2		1 1/4	
8"	10 3/4		3 3/4	5	4 1/4		8 1/2		1 1/4	
10"	13 1/4		4 1/4	5 3/4	4 7/8		10 3/4		2	
12"	16		5 3/4	7 1/4	6		12 3/4		1 3/4	
14"	17 1/2		7 1/4	7 1/4	6 3/4		14		1 3/4	
16"	20		7 1/2	7 1/2	7 3/4		16		2	
18"	21 1/2		8	8	8 3/4		18		2 1/4	
20"	23 3/4		8 1/2	8 1/2	9 3/4		20		2 1/4	
24"	28 1/4		8 3/4	8 3/4	11 1/2		24		2 7/8	

unit: mm

DN	A		B		R		D		E	
	Class 125	Class 150	Class 125	Class 150	Class 125	Class 150	Class 125	Class 150	Class 125	Class 150
50	101		54	60	28		60		19	
65	120		54	67	35		73		20	
80	133		57	73	41		84		28	
100	171		64	73	53		114		28	
125	194		70	83	64		141		30	
150	219		76	98	78		168		31	
200	276		95	127	110		219		33	
250	337		108	146	125		273		50	
300	407		143	181	151		324		43	
350	447		184	184	171		356		45	
400	510		191	191	197		406		52	
450	546		203	203	222		457		58	
500	603		213	219	248		508		58	
600	717		222	222	295		610		73	

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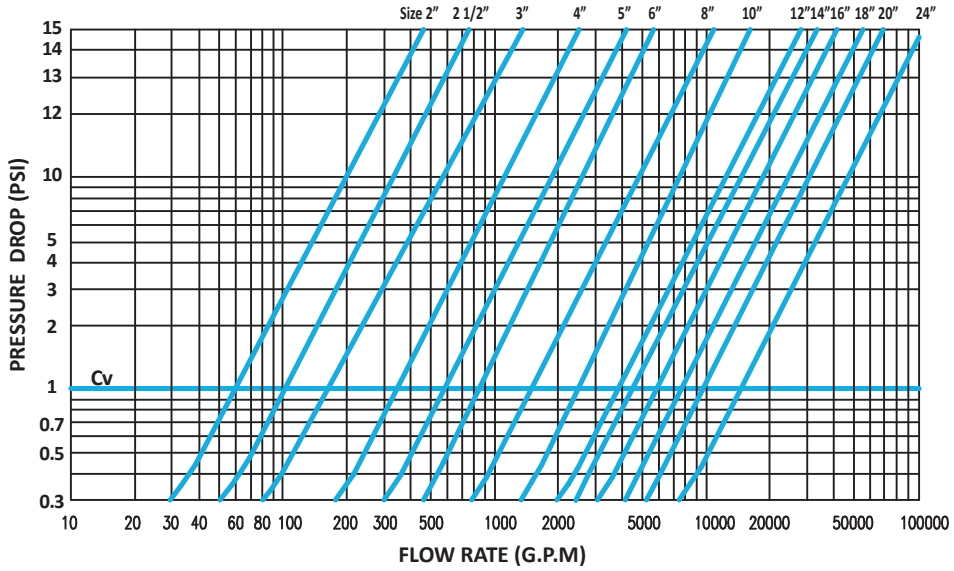
Pressure Drop Charts



PRODUCT SELECTION

VT - XX - FCV - X - XXX - X - X - X - XX

SIZE
2" - 24"

FCV
DUAL / SINGLE FLAP CHECK VALVE

TYPE	
S	Single Flap
D	Dual Flap

BODY	
DI	Ductile Iron
CI	Cast Iron
CS	Carbon Steel
S04	SS304
S16	SS316
BO	Special Alloy

DISC	
3	Aluminum-Bronze
5	SS304
6	SS316

SEAT	
E	EPDM
N	NBR
V	Viton
B	Bronze
O	Others

DRINKING WATER	
N	NSF
W	WRAS

END CONNECTION	
A1	Class 125 FF
A5	Class 150 RF

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