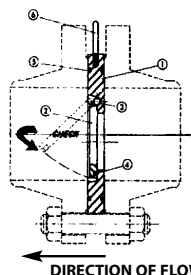
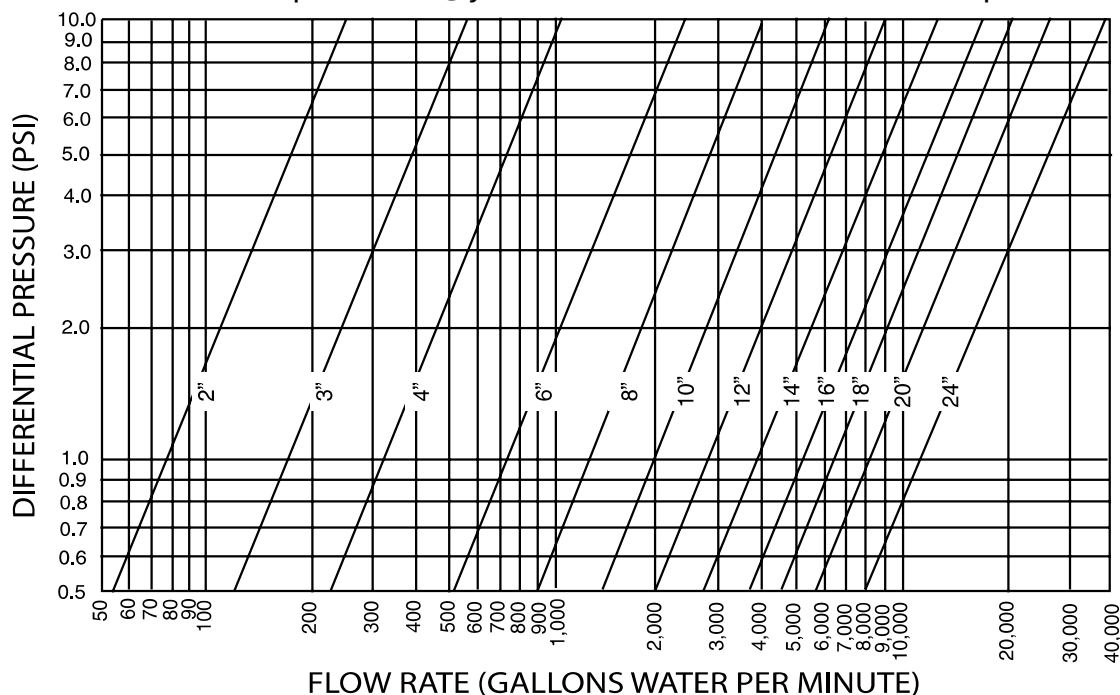




P.O. Box 333 Cypress, TX 77410. Tel: 281.357.8887 Fax: 281.357.8998
E-Mail: champion.valve@yahoo.com ~*~ Website: www.champvalve.com



FLOW COEFFICIENTS (C_v)
FULL OPEN VALVES

VALVE SIZE	C_v
2	82
3	185
4	330
6	740
8	1310
10	2050
12	2950
14	4020
16	5250
18	6650
20	8200
24	11800

The equations listed below are the basis for the above nomogram. The nomogram is a method for solving the equations below quickly and simply when the service fluid is water.

LIQUID (INCOMPRESSIBLE FLOW)

$$C_v = Q \sqrt{\frac{G}{\Delta P}} \quad Q = C_v \sqrt{\frac{\Delta P}{G}} \quad \Delta P = \left[\frac{Q}{C_v} \right]^2 G$$

GAS (COMPRESSIBLE FLOW)

$$C_v = \frac{Q}{963} \sqrt{\frac{GT}{P_1^2 - P_2^2}} \quad Q = C_v 963 \sqrt{\frac{P_1^2 - P_2^2}{GT}}$$

WHERE:

- Q = FLOW LIQUIDS-GPM GASES-SCFH
- C_v = Flow Coefficient
- P_1 = Inlet Pressure (PSIA)
- P_2 = Outlet Pressure (PSIA)
- ΔP = Pressure Drop ($P_1 - P_2$)
- T = Absolute Temperature ($^{\circ}\text{F} + 460$)
- G = Specific Gravity (Water = 1)

Champion Valve Company

281-357-8887



We Keep It Simple!

www.champvalve.com

champion.valve@yahoo.com

"Champion Valves are Manufactured in the USA"

In 24 Hours to 15 Days after receipt of order!

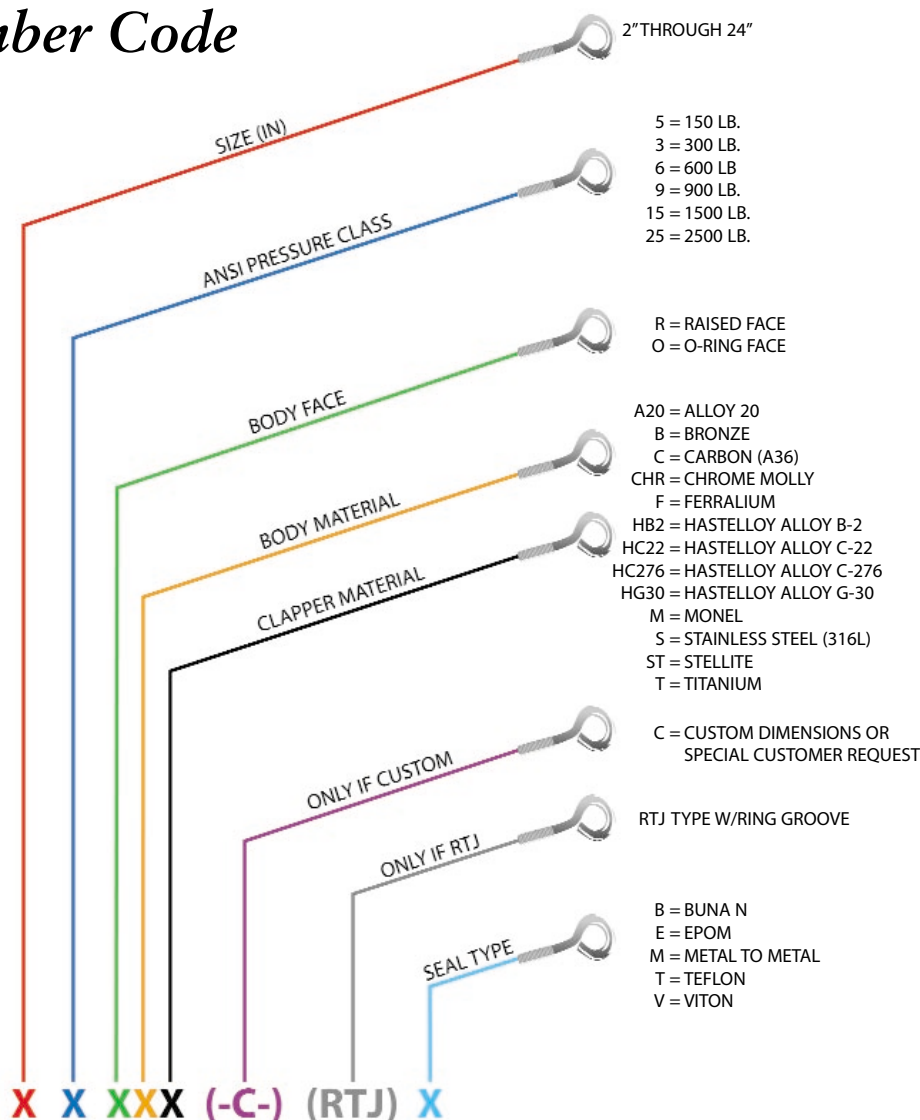
This is our standard delivery. Because we *ARE* the "Manufacturer" of the single clapper "CHAMPION REDUCED PORT WAFER CHECK VALVE".

We manufacture in Short and Long Pattern. We also manufacture the "CHAMPION VALVE" in custom face to face and in exotic metals in the same expeditious delivery as our standard delivery at no extra charge.

CHAMPION VALVES are manufactured to the API6D Standard.

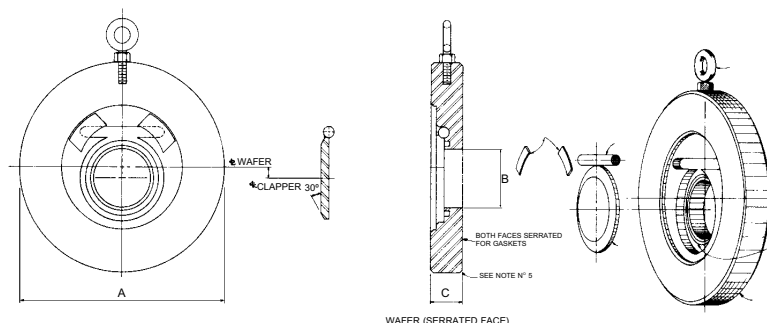
Standard **CHAMPION VALVES** are manufactured in A36 Carbon and NACE 316 Stainless Steel. MTR's or Certificate of compliance are available upon request on all **CHAMPION VALVES**.

Part Number Code



MADE IN USA

Champion Reduced Port Wafer Check Valve



Max Operating Pressure (PSI)

ANSI Class 150	285
ANSI Class 300	740
ANSI Class 600	1480
ANSI Class 900	2220
ANSI Class 1500	3705

Size and Pressure Class

ANSI Class 150	2"-12"
ANSI Class 300	2"-12"
ANSI Class 600	2"-12"
ANSI Class 900	2"-12"
ANSI Class 1500	2"-8"



Dimensional Data

Description	Class	Size (In)						
		2"	3"	4"	6"	8"	10"	12"
Weight LBS.	150	3	5	6	12	24	32	62
	300	3	6	7	15	29	60	103
	600	4	6	8	20	33	110	150
	900	4	7	12	24	57	131	234
	1500	4	9	19	49	74	-	-
A	150	4 ¹ / ₈	5 ³ / ₈	6 ⁷ / ₈	8 ³ / ₄	11	13 ³ / ₈	16 ¹ / ₈
	300	4 ³ / ₈	5 ⁷ / ₈	7 ¹ / ₈	9 ⁷ / ₈	12 ¹ / ₈	14 ¹ / ₄	16 ⁵ / ₈
	600	4 ³ / ₈	5 ⁷ / ₈	7 ⁵ / ₈	10 ¹ / ₂	12 ⁵ / ₈	15 ³ / ₄	18
	900	5 ⁵ / ₈	6 ⁵ / ₈	8 ¹ / ₈	11 ¹ / ₈	14 ¹ / ₈	17 ¹ / ₈	19 ⁵ / ₈
	1500	5 ⁵ / ₈	6 ⁷ / ₈	8 ¹ / ₄	11 ¹ / ₈	13 ⁷ / ₈	17 ¹ / ₈	20 ¹ / ₂
B	150	1 ¹ / ₈	1 ³ / ₄	2 ⁵ / ₈	4 ⁵ / ₈	5 ¹⁵ / ₁₆	7 ³ / ₄	9 ¹ / ₂
	300	1 ¹ / ₈	1 ³ / ₄	2 ⁵ / ₈	4 ⁵ / ₈	5 ¹⁵ / ₁₆	7 ³ / ₄	9 ¹ / ₂
	600	1	1 ³ / ₄	2 ⁵ / ₈	4	5	6 ⁷ / ₈	8 ¹ / ₂
	900	1	1 ³ / ₄	2 ³ / ₈	4	5	6 ⁷ / ₈	8 ¹ / ₂
	1500	1	1 ³ / ₄	2 ¹ / ₄	3 ³ / ₄	4 ³ / ₄	6 ³ / ₄	8 ¹ / ₂
C	150	3/4	3/4	3/4	3/4	1 ¹ / ₈	1 ¹ / ₈	1 ¹ / ₂
	300	3/4	3/4	3/4	1	1 ¹ / ₈	1 ¹ / ₂	2
	600	3/4	3/4	7/8	1 ¹ / ₈	1 ¹ / ₂	2 ¹ / ₄	2 ³ / ₈
	900	3/4	7/8	7/8	1 ³ / ₈	1 ³ / ₄	2 ¹ / ₄	2 ³ / ₄
	1500	3/4	7/8	1 ³ / ₄	1 ⁷ / ₈	2 ³ / ₈	2 ⁷ / ₈	3 ³ / ₈