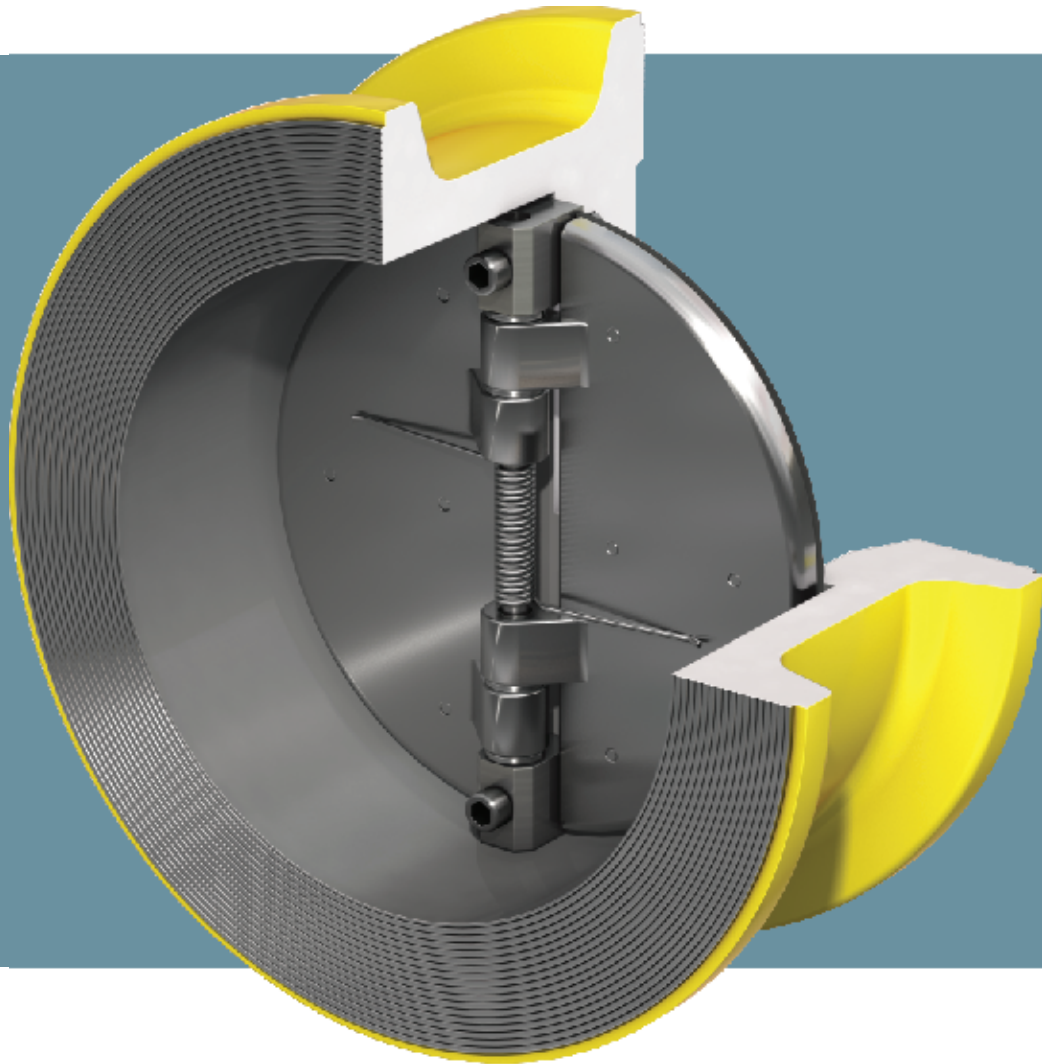


WHEATLEY®
Dual Plate Wafer Check Valve
2 in. (50 mm) through 12 in. (300 mm)



WHEATLEY®

WHEATLEY DUAL PLATE WAFER CHECK VALVE

DESIGN FEATURES

- **BODY**

WHEATLEY'S body design offers the following features:

- Compact wafer style one-piece design
- Center post fully supports the internal assembly without external pins or plugs
- No leakage to atmosphere is ensured due to WHEATLEY'S standard design which eliminates through holes and pipe plugs in the body
- Maximum flow area minimizes pressure loss
- Minimizes installation space and time

- **VALVE PLATES**

The dual plate design produces maximum strength with minimum opening and closing time

- **CLAMP PLATES**

Offer additional strength to valve plates and allow seals to be easily changed

- **SEALS**

Specially designed flat, full contact seals maintain positive shut-off at low working pressures. Unlike most other valves, these seals are easily replaced in the field

- **SPRINGS**

Torsion springs assist valve plate closure preventing flow reversal. Consistent valve response ensures against slamming and water hammer

- **SHAFT**

Heavy duty corrosion-resistant construction

- **SHAFT SUPPORTS**

Act as stops to prevent over travel of valve plates. Corrosion resistant with large shaft bearing surfaces. Easily removable for internal assembly, maintenance or change

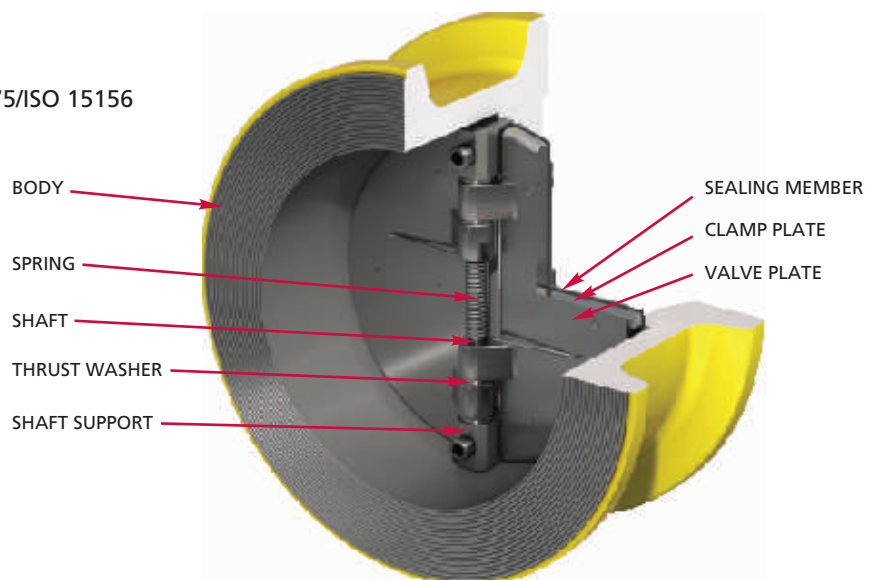
- **THRUST WASHERS**

Reduces friction and wear of valve plate hinges

DESIGN SPECIFICATIONS

- **VALVES ARE DESIGNED TO MEET THE FOLLOWING:**

- ASME B16.1
- ASME B16.34
- ASME B16.5
- ASME SECTION II & VIII
- API 594
- CONFORM TO NACE MR0175/ISO 15156
- API 598

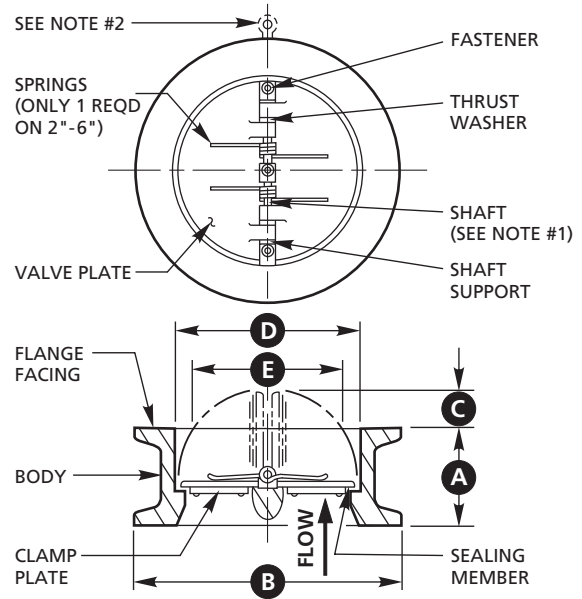


WHEATLEY DUAL PLATE WAFER CHECK VALVE

GENERAL DIMENSIONS

ASME CLASSES 150/300/600

SIZE in. (mm)	ASME Class	A	B	C	D	E
2 (50)	150	2 3/8 (60)	4 1/8 (105)	-	2 1/4 (57)	-
	300	2 3/8 (60)	4 3/8 (111)	-	2 1/4 (57)	-
	600	2 3/8 (60)	4 3/8 (111)	-	2 1/4 (57)	-
3 (80)	150	2 7/8 (73)	5 3/8 (137)	-	3 3/16 (81)	-
	300	2 7/8 (73)	5 7/8 (149)	-	3 3/16 (81)	-
	600	2 7/8 (73)	5 7/8 (149)	-	3 3/16 (81)	-
4 (100)	150	2 7/8 (73)	6 7/8 (175)	1/2 (12.7)	4 3/16 (106)	2 7/8 (73)
	300	2 7/8 (73)	7 1/8 (181)	3/4 (19)	4 3/16 (106)	3 1/2 (89)
	600	3 1/8 (79)	7 5/8 (194)	5/8 (16)	4 3/16 (106)	3 1/4 (83)
6 (150)	150	3 7/8 (98)	8 3/4 (222)	1 (25.4)	6 3/16 (157)	4 3/4 (121)
	300	3 7/8 (98)	9 7/8 (251)	1 3/8 (35)	6 3/16 (157)	5 1/2 (140)
	600	5 3/8 (137)	10 1/2 (267)	1 7/8 (3.2)	6 3/16 (157)	2 3/4 (70)
8 (200)	150	5 (127)	11 (279)	1 1/2 (38)	8 5/16 (211)	6 5/8 (168)
	300	5 (127)	12 1/8 (308)	1 3/4 (44)	8 1/2 (216)	7 1/4 (184)
	600	6 1/2 (165)	12 5/8 (321)	1 (25.4)	8 1/2 (216)	6 (152)
10 (250)	150	5 3/4 (146)	13 3/8 (340)	2 3/8 (60)	10 3/16 (259)	8 3/4 (222)
	300	5 3/4 (146)	14 1/4 (362)	2 1/2 (64)	10 1/2 (267)	9 1/4 (235)
	600	8 3/8 (213)	15 3/4 (400)	1 1/4 (32)	10 1/2 (267)	7 1/4 (184)
12 (300)	150	7 1/8 (181)	16 1/8 (410)	2 1/2 (64)	12 3/16 (310)	10 (254)
	300	7 1/8 (181)	16 5/8 (422)	2 3/4 (70)	12 1/2 (318)	10 1/2 (267)
	600	9 (229)	18 (457)	1 7/8 (48)	12 1/2 (318)	9 1/2 (241)



NOTE 1: Shaft must be in vertical position for horizontal flow application.

NOTE 2: Lifting Lug feature optional on 6 in. (150 mm) - 12 in. (300 mm) sizes.

ORDERING INFORMATION

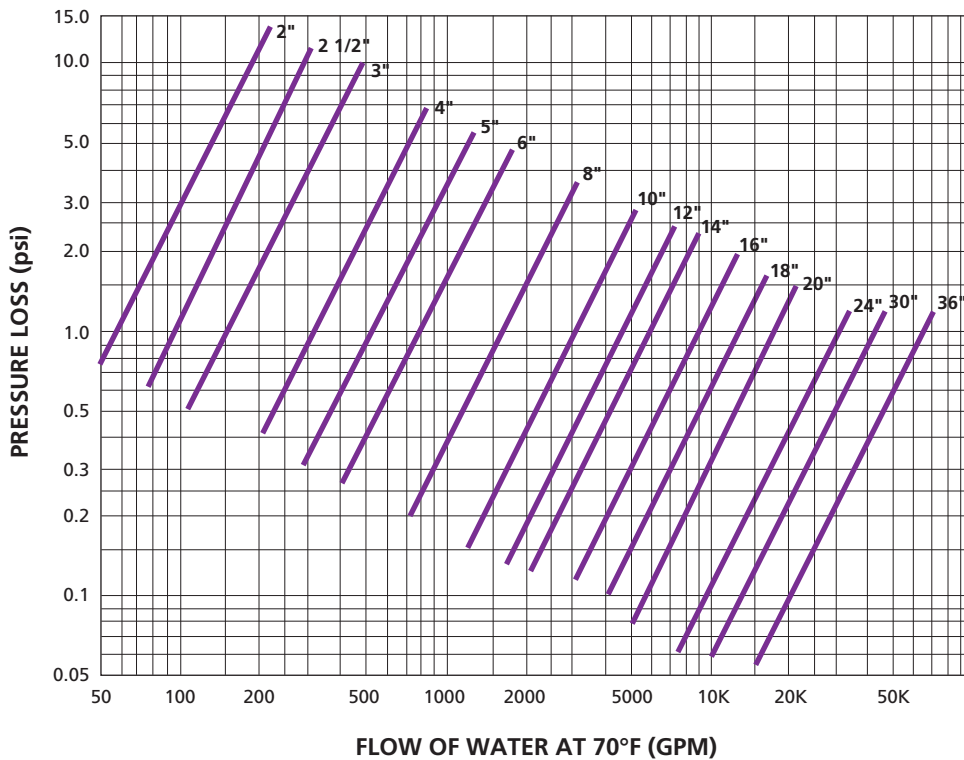
680	-	02	5	150	-	121
Model		Size	End Connections	Pressure Class		Body & Trim
680 - Dual Plate Wafer Check Valve		02 2 in. (50 mm) 03 3 in. (80 mm) 04 4 in. (100 mm) 06 6 in. (150 mm) 08 8 in. (200 mm) 10 10 in. (250 mm) 12 12 in. (300 mm)	4 - RTJ 5 - Raised Face	027/029 - ASME 150 072/075 - ASME 300 144/150 - ASME 600		121 = Carbon Steel Body, 316 Internals, Buna Seal, NACE, Inconel X-750 Spring 122 = Carbon Steel Body, 316 Internals, FKM Seal, NACE, Inconel X-750 Spring 180 = Carbon Steel Body, 316 Internals, Metal-to-Metal Seal, NACE Inconel X-750 Spring 321 = Stainless Steel Body, 316 Internals, Buna Seal, NACE, Inconel X-750 Spring 322 = Stainless Steel Body, 316 Internals, FKM Seal, NACE, Inconel X-750 Spring 380 = Stainless Steel Body, 316 Internals, Metal-to-Metal Seal, NACE, Inconel X-750 Spring

Example:

680-025150-121 = Dual Plate Wafer Check, 2 in. (50 mm), Raised Face End Connections, ASME 600 (PN 100), Carbon Steel Body, 316 Internals, Buna Seals, NACE MR0175/ISO 15156, Inconel X-750 Spring.

WHEATLEY DUAL PLATE WAFER CHECK VALVE

PRESSURE DROP CHARTS FOR WATER SERVICE (Based on Horizontal Flow Application)



FLOW COEFFICIENTS

VALVE SIZE in. (mm)	C _v *
2 (50)	58
2 1/2 (65)	92
3 (80)	160
4 (100)	320
5 (125)	525
6 (150)	800
8 (200)	1700
10 (250)	3000
12 (300)	4700
14 (350)	5950
16 (400)	9000
18 (450)	13,500
20 (500)	18,000
24 (600)	32,000
30 (750)	45,000
36 (900)	69,000

* C_v = the number of US gallons/minute that will result in 1 psi pressure loss across the valve at temperature of 60°F.

INSTALLATION INFORMATION

Valve must be installed with shaft in vertical position for horizontal flow applications. Valve body is marked with flow direction arrow and "TOP" to assist with proper positioning. WHEATLEY'S Torsion Spring Design allows Valve Plates to Open and Close with minimum pressures. VALVES ARE NOT recommended on discharge of reciprocating compressors and pumps.

Please contact Cameron's Valves & Measurement group for current Terms and Conditions and Trademark information.

**VALVES & MEASUREMENT**

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