Model: 1600

Cast Iron CHEXTER™ Check Valves Sizes: 2" - 36" (50 - 900mm)

Pressure/Temperature - Non-Shock Size Material Rating 1600-D 2-12" Cast Iron 190psi @ 150°F 13.10 bar @ 65.56°C 125psi @ 450°F 8.62 bar @ 232.22°C 14-24" Cast Iron 150psi @ 150°F 10.34 bar @ 65.56°C 100psi @ 353°F 6.89 bar @ 178.33°C 30" and Cast Iron 150psi @ 100°F up 10.34 bar @ 37.78°C 50psi @ 300°F 3.45 bar @ 148.89°C

Class 125

1600

Typical Services

Can be used in a variety of applications. Included are:

- Chilled and hot water systems
- · Refrigeration, plumbing, air conditioning
- · Gas and liquid applications
- Water filtration, oxygen systems, boiler feed lines
- · Centrifugal pump and compressor systems

Features

- Compact design with short face-to-face dimensions for minimum space requirements.
- Single moving part insures long, trouble-free service life.
- Seal-ring is one piece, easily replaceable in the field.
- Interchangeable parts for ease of maintenance.
- Operates fully at low pressure differential.
- Spring returns disc to fully closed position prior to reverse flow, minimizing water hammer.
- Disc is counter-weighted, utilizing gravity to additionally insure closure.
- Soft seal is located out of the flow path to reduce erosion effects.
- High C_V values due to aerodynamic disc shape and near full port opening.
 - Superior to other check valve designs, similar to Butterfly Valves

Construction

- Robust cast body is wafer style, featuring compact face-to-face dimensions to fit in small spaces.
- Designed to fit within ANSI bolt circles.
- Variety of trim and seat materials are available.
 - Parts are interchangeable
- Disc rotates on the hinge pin, creating very low pivot friction, so little wear in operation.

Installation

- Can be installed horizontally or vertically.
 - Consult factory for downward vertical flow applications.
 - In horizontal applications, valve should be installed top up, with shaft aligned horizontally with the top up (hinge pin plugs are above the pipe centerline)
- Good piping practice recommends installing a distance of 5 to 10 pipe diameters from elbows, pumps, or others turbulence-creating devices.
- Mueller Steam Specialty strongly recommends the installation of a strainer ahead of the pump to ensure protection of both the pump and the valve from foreign particles.

Materials

• See Introduction page of the CHEXTER™ Check Valve section of the Mueller Steam Specialty Engineering binder for standard materials and How To Order instructions.

Open

Model 1600

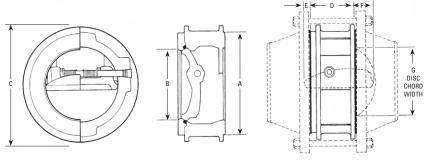
Front

Job Name	Contractor
Job Location	Approval
Engineer	Contractor's P.O. No.
Approval	Representative



Dimensions

Raised Face And Flat Face Valves

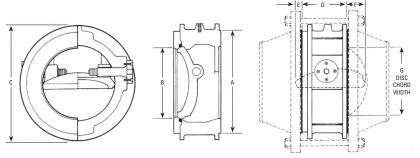


2" - 14" (50 - 350)

LINE	SIZE	DIMENSIONS												
		A		B C		C	D		E		F		G	
					125 CLASS									
in.	mm	in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
2	50	35/8	92.1	щ	41/8	104.8	11/2	38.1	0	0	1/2	12.7	1 ¹⁵ ⁄16	33.3
21/2	65	41/8	104.8	S	47/8	123.8	1 ¹⁵ ⁄ ₁₆	49.2	1/16	1.6	9/16	14.3	27/8	60.3
3	80	5	127.0	里的	53/8	136.5	21/8	54.0	1/8	3.2	3/4	19.1	27/8	73.0
4	100	6 ³ ⁄ ₁₆	157.2	SC	67/8	174.6	23/4	69.9	1/8	3.2	11//8	28.6	37/8	98.4
5	125	7 5/16	185.7	HTS INI	73/4	196.9	3½	88.9	7/16	11.1	13/8	34.9	41/16	103.2
6	150	81/2	215.9	VE F	83/4	222.3	41/8	104.8	5/8	15.9	11/4	31.8	4 ¹⁵ ⁄ ₁₆	125.4
8	200	10%	269.9	l A i	11	279.4	5 %	136.5	1	25.4	1 ¹⁵ ⁄ ₁₆	49.2	67//8	174.6
10	250	123/4	323.9		13%	339.7	611/16	169.9	1½	38.1	23/8	60.3	83%	212.7
12	300	15	381.0	\frac{1}{2}	161//8	409.6	8	203.2	21/16	52.4	27/16	61.9	93%	238.1
14	350	161/4	412.8	Š	173/4	450.9	83/4	222.3	1½	38.1	21/4	57.2	91/4	235.0

^{*&}quot;D" dimensions (overall face-to-face) are for 125-600 Class.

^{*&}quot;D" dimensions for 900 Class same as RTJ "D" dimensions on page 10.



16" - 36" (400 - 900)

LINE	SIZE	DIMENSIONS																				
		A B		Α		Α		Α		A B		В	-		D*		E		F		G	
					125 CLASS																	
in.	mm	in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm								
16	400	18½	469.9	ST G	20	508.0	91/4	235.0	1 ¹¹ / ₁₆	42.9	45/8	117.5	13¾	349.3								
18	450	21	533.4	E FIT 0 AN ZES	211/4	539.8	10%	263.5	1½	38.1	5"	127.0	15½	393.7								
20	500	23	584.2	E 4	231/2	596.9	111/4	285.8	21/2	63.5	61/8	155.6	175%	447.7								
24	600	271/4	692.2	DUL	27 ½	708.0	12 ½	317.5	31/4	82.6	63/4	171.5	203/4	527.1								
30	760	33¾	857.3	ME HEC 80 L	34%	873.1	15½	393.7	5%	142.9	83/16	208.0	26½	673.1								
36	900	401/4	1022.4	SC SC	401//8	1038.2	18"	457.2	5 ⁵ ⁄ ₁₆	134.9	12"	304.8	331/4	844.6								

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