Model: 1604

Carbon Steel CHEXTER™ Check Valves Sizes: 2" - 24" (50 - 600mm)

Pressure/Temperature - Non-Shock Model | Material | Rating 1604-A | Carbon | 990psi @ 100°F Steel | 68 bar @ 38°C | Carbon | 822psi @ 450°F Steel | 57 bar @ 232°C

1604

Class 400



Model 1604 Open

Typical Services

Can be used in a vast number of industries and applications. Included are:

- · Chilled and hot water systems
- · 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, both soft and metal-to-metal.
 - 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.

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

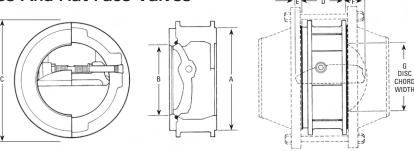


Materials

- See Information section of the CHEXTER™ Check section of the Mueller Steam Specialty Engineering binder for standard materials
- See Information section of the CHEXTER™ Check section of the Mueller Steam Specialty Engineering binder for How to Order instructions.

Dimensions

Raised Face And Flat Face Valves

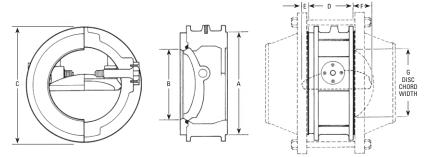


2" - 14" (50 - 350)

LINE	SIZE	DIMENSIONS												
		Α		В	C		D*		E		F		G	
					400 CLASS									
in.	mm	in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
2	50	35/8	92.1		43//8	111.1	11/2	38.1	0	0	1/2	12.7	1 15/16	33.3
2 ½	65	41//8	104.8	FITS FID FIZES	51//8	130.2	1 ¹⁵ / ₁₆	49.2	1/16	1.6	9/16	14.3	2 7/8	60.3
3	80	5	127.0		5 1// ₈	149.2	21/8	54.0	1/8	3.2	3/4	19.1	27/8	73.0
4	100	63/16	157.2	E E	7	177.8	23/4	69.9	1/8	3.2	11//8	28.6	37//8	98.4
5	125	7 5⁄16	185.7	ALV	83/8	212.7	31/2	88.9	7/16	11.1	13/8	34.9	41/16	103.2
6	150	81/2	215.9		93/4	247.7	41//8	104.8	5/8	15.9	11/4	31.8	4 ¹⁵ / ₁₆	125.4
8	200	10%	269.9	- () ·	12	304.8	53%	136.5	1	25.4	1 ¹⁵ / ₁₆	49.2	67//8	174.6
10	250	123/4	323.9	SAN SI AND	141//8	358.8	611/16	169.9	1½	38.1	23/8	60.3	83//8	212.7
12	300	15	381.0]	16½	419.1	8	203.2	21/16	52.4	2 ⁷ / ₁₆	61.9	93//8	238.1
14	350	161/4	412.8		19	482.6	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" - 24" (400 - 600)

LINE SIZE DIMENSIONS														
		Α		В	C 400 CLASS		D*		E		F		G	
in.	mm	in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
16	400	181/2	469.9	S 40 ES	201//8	530.2	91/4	235.0	1 ¹¹ / ₁₆	42.9	45/8	117.5	13¾	349.3
18	450	21	533.4		23	584.2	10¾	263.5	1½	38.1	5"	127.0	15½	393.7
20	500	23	584.2	SA E SA I	247/8	631.8	1111/4	285.8	2 ½	63.5	61/8	155.6	175/8	447.7
24	600	271/4	692.2	SC V	297/8	758.8	12 ½	317.5	31/4	82.6	63/4	171.5	203/4	527.1

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