Engineering Specification

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

Cast Iron CHEXTER™ Check Valves

Model: 1600, Class 125 Sizes: 2" - 36" (50 - 900mm)

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 turbulencecreating 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.





Model 1600 Front

Open

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 up	Cast Iron	150psi @ 100°F 10.34 bar @ 37.78°C 50psi @ 300°F 3.45 bar @ 148.89°C							

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.

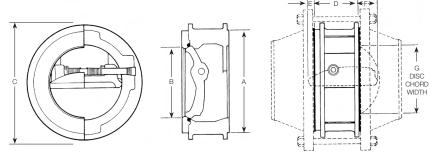
NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Mueller Steam Specialty product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Mueller Steam Specialty Technical Service. Mueller Steam Specialty reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Mueller Steam Specialty products previously or subsequently sold.



Raised Face And Flat Face Valves

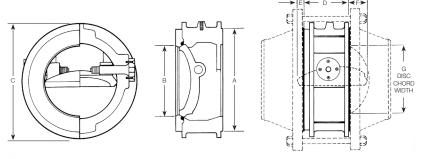


2" - 14" (50 - 350)

LINE	SIZE	DIMENSIONS												
			Α	В	C		D		E		F		G	
					125 (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	4 ½	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	CHEDUI	5%	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	SШ	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	FITS S LINE	73/4	196.9	31/2	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	VALV	11	279.4	5%	136.5	1	25.4	1 ¹⁵ / ₁₆	49.2	67//8	174.6
10	250	12¾	323.9	_	13%	339.7	611/16	169.9	11/2	38.1	23/8	60.3	83%	212.7
12	300	15	381.0	SAME 40	161//8	409.6	8	203.2	21/16	52.4	27/16	61.9	9%	238.1
14	350	161/4	412.8	S	17¾	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													
		Α		В		C		D*		Е		F		G	
						125 (125 CLASS								
in.	mm	in.	mm			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
16	400	18½	469.9	TS)		20	508.0	91/4	235.0	1 ¹¹ / ₁₆	42.9	4 5⁄8	117.5	13¾	349.3
18	450	21	533.4	E 6	IZES	211/4	539.8	10%	263.5	11/2	38.1	5"	127.0	15½	393.7
20	500	23	584.2			23½	596.9	111/4	285.8	21/2	63.5	61//8	155.6	17%	447.7
24	600	271/4	692.2		Ę	277/8	708.0	12½	317.5	31/4	82.6	63/4	171.5	203/4	527.1
30	760	33¾	857.3	SCH	80 1	343/8	873.1	15½	393.7	5%	142.9	83/16	208.0	26½	673.1
36	900	401/4	1022.4	SA S	ω	407/8	1038.2	18"	457.2	5 ⁵ ⁄ ₁₆	134.9	12"	304.8	331/4	844.6

Limited Warranty: Mueller Steam Specialty warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge. This shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misuseplication or improper installation of the product. THIS WARRANTIES, DRAIL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Any implied warranties that are imposed by law are limited in duration to one year.

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