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

# Cast Iron CHEXTER™ Check Valves

Model: 1602, Class 250 Sizes: 2" - 24" (50 - 600mm)

### **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<sub>V</sub> 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-toface 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.



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Pressure/Temperature - Non-Shock								
Sizes	Material	Rating						
1602-D 2-12"	Cast Iron	500psi @ 150°F 34 bar @ 66°C 250psi @ 450°F 17 bar @ 232°C						
14-24"	Cast Iron	300psi @ 150°F 21 bar @ 66°C 200psi @ 406°F 14 bar @ 208°C						

#### 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.

#### NOTICE

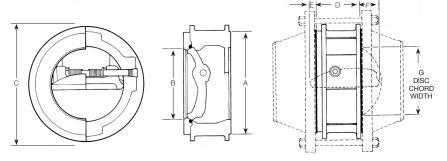
The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation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

#### **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 Ordering instructions.

#### **Dimensions**

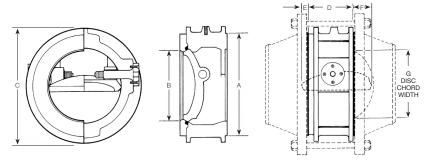
Raised Face And Flat Face Valves



2" - 14" (50 - 350)

LINE	SIZE	DIMENSIONS												
			A	В	3 C		D*		E		F		G	
					250 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	<b>1</b> <sup>15</sup> / <sub>16</sub>	33.3
21/2	65	41//8	104.8		51//8	130.2	<b>1</b> 15/16	49.2	1/16	1.6	9/16	14.3	<b>2</b> <sup>7</sup> / <sub>8</sub>	60.3
3	80	5	127.0	일이	57//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		71//8	181.0	23/4	69.9	1/8	3.2	11//8	28.6	37//8	98.4
5	125	<b>7</b> 5⁄16	185.7	VALVE EDULE	81/2	215.9	3½	88.9	7/16	11.1	1%	34.9	41/16	103.2
6	150	81/2	215.9	IE VA HED 80 L	97/8	250.8	41/8	104.8	5/8	15.9	11/4	31.8	<b>4</b> <sup>15</sup> / <sub>16</sub>	125.4
8	200	10%	269.9	<b>-</b> ()	121/8	308.0	53/8	136.5	1	25.4	<b>1</b> <sup>15</sup> / <sub>16</sub>	49.2	67//8	174.6
10	250	123/4	323.9	SAN S(	141/4	362.0	611/16	169.9	11/2	38.1	23/8	60.3	83/8	212.7
12	300	15	381.0	]	16%	422.3	8	203.2	21/16	52.4	27/16	61.9	93/8	238.1
14	350	161/4	412.8		191//8	485.8	83/4	222.3	11/2	38.1	21/4	57.2	91/4	235.0

<sup>\*&</sup>quot;D" dimensions (overall face-to-face) are for 125-600 Class.



16" - 24" (400 - 600)

LINE	SIZE	DIMENSIONS												
		Α		В	C		D*		E		F		G	
					250 CLASS									
in.	mm	in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
16	400	181/2	469.9	S 40 ES	21	533.4	91/4	235.0	<b>1</b> <sup>11</sup> / <sub>16</sub>	42.9	45/8	117.5	13¾	349.3
18	450	21	533.4		231//8	587.4	10%	263.5	11/2	38.1	5"	127.0	15½	393.7
20	500	23	584.2	SAME ALVE FI: HEDULE AND AND LINE SI.	251//8	638.2	111/4	285.8	21/2	63.5	61//8	155.6	175//8	447.7
24	600	271/4	692.2	SCH 80 L	301//8	765.2	12½	317.5	31/4	82.6	63/4	171.5	20¾	527.1

## ISO 9001-2008

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, misapplication or improper installation of the product. THIS WARRANTIES IN LIEU OF ALL 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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