Model: 1601

Pressure/Temperature - Non-Shock										
Model	Material	Rating								
1601-E	Aluminum	195psi @ 100°F								
	Bronze	13 bar @ 38°C								
		140psi @ 450°F								
		10 bar @ 232°C								
1601-A	Carbon Steel	285psi @ 100°F 20 bar @ 38°C 185psi @ 450°F 13 bar @ 232°C								
1601-C	Stainless Steel	275psi @ 100°F 19 bar @ 38°C 185psi @ 450°F 13 bar @ 232°C								

1601

Class 125



Model 1601 Front



Open

Typical Services

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

• Commercial Construction (institutions, multi-story buildings, schools, etc.)

Aluminum Bronze, Carbon Steel, or Stainless

- Chilled and hot water systems
 - Refrigeration, plumbing, air conditioning

Steel CHEXTER™ Check Valves Sizes: 2" - 36" (50 – 900mm)

- Industrial and Marine
 - $-\operatorname{\mathsf{Gas}}$ and liquid applications
 - Water filtration, oxygen systems, boiler feed lines
 - Centrifugal pump and compressor systems
- Utilities
 - All gas and liquid applications
- Process Industries (Refining, petro-chemical, mining, textiles, pulp and paper, etc.) - Variety of materials and trims for corrosive services

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.

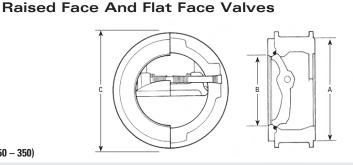
Job Name	Contractor
Job Location	Approval
Engineer	Contractor's P.O. No.
Approval	Representative

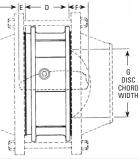


Materials

- 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 Engineering Specialty binder for Ordering instructions.

Dimensions



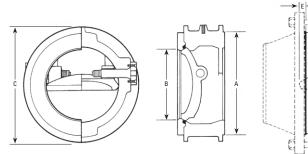


DISC CHORE WIDTH

2" – 14" (50 – 350)

LINE	SIZE	DIMENSIONS												
			Α		C		D*		E		F		G	
					125 & 150 CLASS									
in.	mm	in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
2	50	35%	92.1		4 ½	104.8	1½	38.1	0	0	1/2	12.7	1 ¹⁵ ⁄16	33.3
2 ¹ / ₂	65	4 ¹ / ₈	104.8	VALVE FITS ULE 40 AND NE SIZES	41/8	123.8	1 ¹⁵ ⁄16	49.2	1⁄16	1.6	9⁄16	14.3	21/8	60.3
3	80	5	127.0		5 3%	136.5	21/8	54.0	1⁄8	3.2	3⁄4	19.1	21/8	73.0
4	100	6 ³ ⁄16	157.2		61/8	174.6	2 ³ ⁄ ₄	69.9	1/8	3.2	11/8	28.6	31/8	98.4
5	125	7 5⁄16	185.7		7 ³ ⁄4	196.9	31/2	88.9	7⁄16	11.1	13%	34.9	4 ¹ / ₁₆	103.2
6	150	81/2	215.9	$ > \supset Z $	83/4	222.3	41/8	104.8	5/8	15.9	11/4	31.8	4 ¹⁵ /16	125.4
8	200	105%	269.9	SAME ' SCHEDI 80 LII	11	279.4	5 ³ / ₈	136.5	1	25.4	1 ¹⁵ ⁄16	49.2	61/8	174.6
10	250	123⁄4	323.9	SCI	13%	339.7	6 ¹¹ /16	169.9	11/2	38.1	23/8	60.3	8 3%	212.7
12	300	15	381.0		16 ½	409.6	8	203.2	2 ¹ /16	52.4	21/16	61.9	9 3%	238.1
14	350	16¼	412.8		17¾	450.9	8 ³ ⁄4	222.3	11/2	38.1	21/4	57.2	91⁄4	235.0

*"D" dimensions (overall face-to-face) are for 125-600 Class.





LINE	LINE SIZE DIMENSIONS													
	А		A B		B C		D*		E		F		G	
					125 & 150 CLASS									
in.	mm	in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
16	400	18 ½	469.9	ND ND	20	508.0	9 ¹ ⁄ ₄	235.0	1 ¹¹ /16	42.9	45/8	117.5	13¾	349.3
18	450	21	533.4		211/4	539.8	10¾	263.5	11/2	38.1	5"	127.0	15½	393.7
20	500	23	584.2	SI 4	23 ½	596.9	11¼	285.8	2 ½	63.5	61/8	155.6	175⁄%	447.7
24	600	271/4	692.2		27 1⁄/8	708.0	12½	317.5	31⁄4	82.6	63/4	171.5	20 ³ ⁄ ₄	527.1
30	760	33¾	857.3	포 뿐 应	343/8	873.1	15 ½	393.7	55%	142.9	8 ³ ⁄16	208.0	26 ½	673.1
36	900	401/4	1022.4	SA	401/8	1038.2	18"	457.2	5 ⁵ ⁄16	134.9	12"	304.8	33 ¹ ⁄ ₄	844.6

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.





A Watts Water Technologies Company

USA: St. Pauls, NC • Tel. 1-800-334-6259 • Fax 1-800-421-6772 • www.muellersteam.com