Models: 1605, 1645

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

Pressure/Temperature - Non-Shock Model Material Rating 1605-A Carbon 1480psi @ 100°F Steel 102.04 bar @ 37.78°C 1235psi @ 450°F 85.15 bar @ 232.22°C 1605-C Stainless 1440psi @ 100°F Steel 99.28 bar @ 37.78°C 992psi @ 450°F 68.40 bar @ 232.22°C

1605 Class 600, RF 1645 Class 600, RTJ



Model 1605 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.)
 - Chilled and hot water systems
 - Refrigeration, plumbing, air conditioning
- Industrial and Marine
 - 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.
- Model 1605 features RF facing, Model 1645 has RTJ facing.

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

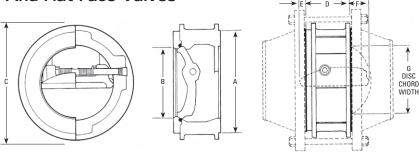


Materials

- 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

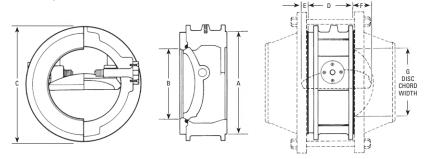
Raised Face And Flat Face Valves



2" - 14" (50 - 350)

LINE	SIZE	DIMENSIONS												
		Α		В	C 600		D*		E		F		G	
					CLASS									
in.	mm	in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
2	50	35%	92.1		43/8	111.1	1½	38.1	0	0	1/2	12.7	1 ¹⁵ / ₁₆	33.3
2 ½	65	41//8	104.8	E FITS E 40 SIZES	51/8	130.2	1 ¹⁵ / ₁₆	49.2	1/16	1.6	9/16	14.3	27/8	60.3
3	80	5	127.0		57/8	149.2	21/8	54.0	1/8	3.2	3/4	19.1	27/8	73.0
4	100	6 ³ ⁄ ₁₆	157.2		7 5//8	193.7	23/4	69.9	1/8	3.2	11//8	28.6	37//8	98.4
5	125	7 5⁄16	185.7	길러빌	91/2	241.3	31/2	88.9	7/16	11.1	1%	34.9	41/16	103.2
6	150	81/2	215.9	> = =	10½	266.7	41/8	104.8	5/8	15.9	11/4	31.8	4 ¹⁵ / ₁₆	125.4
8	200	10%	269.9	≥ % ⊝	12%	320.7	5%	136.5	1	25.4	1 ¹⁵ / ₁₆	49.2	67//8	174.6
10	250	123/4	323.9	SA	15¾	400.1	611/16	169.9	11/2	38.1	23/8	60.3	8 3//8	212.7
12	300	15	381.0]	18	457.2	8	203.2	21/16	52.4	2 ⁷ / ₁₆	61.9	9 3/8	238.1
14	350	161/4	412.8]	19%	492.1	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.



16" - 24" (400 - 600)

LINE	SIZE	DIMENSIONS												
	A		В	С		D*		E		F		G		
					600									
:					CLASS		:		:		:		:	
in.	mm	in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
16	400	181/2	469.9	ES 40	22	558.8	91/4	235.0	1 ¹¹ / ₁₆	42.9	45/8	117.5	13¾	349.3
18	450	21	533.4	AME VE FIT OULE ND E SIZ	23¾	603.3	10%	263.5	1½	38.1	5"	127.0	15½	393.7
20	500	23	584.2	\$\$₽ ₹ ≦	26 ½	673.1	111/4	285.8	2 ½	63.5	61/8	155.6	175%	447.7
24	600	271/4	692.2	SC \	30¾	781.1	12 ½	317.5	31/4	82.6	63/4	171.5	20¾	527.1

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