Mueller Steam Specialty

Model: 71, 71U

Cast Iron Sure Check™ Valve

Pressure Temperature Rating									
Model	Size	Material	Pressure						
71	2"-12"	Cast Iron	200PSI @ 100°F						
71	50mm-300mm	Cast Iron	13.8 bar @ 38º C						
71	14"-54"	Cast Iron	150PSI @ 100ºF						
71	350mm-1380mm	Cast Iron	10.3 bar @ 38º C						

* Max. temp. depends on seat and spring material. See ordering code.

71Class 12571UClass 125





Model 71U 4", 6", 8", 10" and 12" 100mm - 300mm



Model 71 2", 2-1/2", 3", 4", 5", 6", 8", 10", 12", 14" and 16" 50mm - 400mm

SERVICE RECOMMENDATIONS

These elastomer seated valves are designed for liquid and gas service to prevent surge and water hammer due to flow reversal. Specially designed springs close the discs before flow reversal can occur.

FEATURES

The extremely short fact-to-face dimension and compact design of this valve allow installation and service in tight spaces. The specially designed torsion springs exert a lifting motion on the discs to prevent excessive wear of the "heel" area of the elastomer seats. On site service may be done without special tools. The independent, dual shaft design allows interchangeability of shafts. The stop shaft stabilizes the discs during high flow rates.

ORDERING INFORMATION

We require all pertinent conditions relating to the proposed use of the check valve. They are: operating pressure, temperature, flow rate or velocity and type of pump in the system. If corrosive fluids are involved we should be advised. Consult factory for applications such as pump suction and volatile liquid handling.

INSTALLATION

Sure Check[™] is equally effective for vertical or horizontal flow. Horizontal flow shafts should be oriented vertically. Consult factory for downward vertical flow. Sure Check[™] is designed to fit inside ANSI bolt circles. We strongly suggest the installation of a strainer ahead of the pump to ensure protection of the pump and the working parts of the valve.

CONSTRUCTION

#71 Sure Check[™] is normally furnished with cast iron (ASTM A126-B) bodies. #71U Sure Check[™] is furnished with ductile iron bodies. The disc material for sizes through 5" (125mm) is bronze (85-5-5-5, ASTM B62); sizes 6" (150mm) through 54" (1380mm) can be supplied with nickel coated ductile iron or bronze discs. Discs in 316 stainless steel are also available in all sizes. Standard shaft and spring material is 316 stainless steel. The elastomer seat normally furnished is Buna-N. Consult factory for high temperature service.

TESTING

The shell and seat of each valve are hydrostatically tested in accordance with ANSI standards.

APPROVALS

Sure Check[™] Valves conform to ANSI specifications, API specifications, Factory Mutual requirements and U.L. requirements. Consult factory about specific models and sizes.

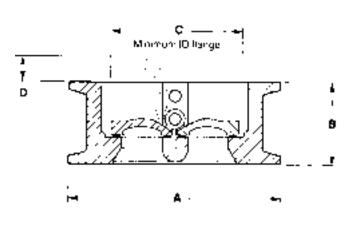
MATERIALS

Body- 71: Cast Iron ASTM A 126-B 71U: Ductile Iron Disc- Bronze ASTM B62, Ductile Iron ASTM A536 316 Stainless Steel ASTM A351 Grade CF8M D18.



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Dimensions and Weights										
UL Model 71U Only - Pressure 175 WOG										
SIZE	in.	4	6	8	10	12				
UILL	mm.	100	150	200	250	300				
Δ		6-7/8	8-3/4	11	13-3/8	16-1/8				
A		174.6	222.3	279.4	333.9	409.6				
B		3-5/8	4-1/8	4-3/4	6	7-3/8				
		92.1	104.8	120.7	152.4	187.3				
C		N/A	4-1/8	6-5/8	8-1/4	9-7/8				
		N/A	104.8	168.3	209.6	250.8				
D		N/A	19/32	1-1/2	1-5/8	2				
		N/A	15.1	38.1	41.3	50.8				
WEIGHTS	lb	15	33	58	89	160				
	kg	6.8	15.0	26.3	40.4	72.6				



Standard Model 71's Only

SIZE	in.	2	2 1/2	3	4	5	6	8	10	12
	mm.	50	65	80	100	125	150	200	250	300
		4-1/8	4-7/8	5-3/8	6-7/8	7-3/4	8-3/4	11	13-3/8	16-1/8
A		104.8	123.8	136.5	174.6	196.9	222.2	279.4	340	409.6
B		2-1/8	2-1/8	2-1/4	2-1/2	2-3/4	3	3-3/4	4-1/4	5-5/8
D		54.0	54.0	57.2	63.5	69.9	76.2	95.3	108	142.9
C		NA	1-1/8	2-1/2	3-7/16	4-1/2	5-3/8	7-1/2	9-1/2	11-3/4
U		NA	28.6	63.5	87.3	114.3	136.5	190.5	241.3	298.5
D		NA	5/32	5/8	15/16	1-11/32	12-3/32	2-1/2	3-3/8	4-1/8
		NA	4.0	15.9	23.8	34.1	43.7	63.5	85.7	105
WEIGHTS	lb	4	5-1/2	7-1/2	13-1/2	17-1/2	26-1/2	50	70	108
	kg	1.8	2.5	3.4	6.2	8.0	12.0	22.7	31.8	49

SIZE	in. mm.	14 350	16 400	18 450	20 500	24 600	30 750	36 900	42 1050	48 1200	54 1380
		17-3/4	20-1/4	21-5/8	23-7/8	28-1/4	34-3/4	41-1/4	48	54-1/2	61
A		450.9	514.4	549.3	606.4	717.6	882.7	1048	1219.2	1384.3	1549.4
В		7-1/4	7-1/2	8	8-3/8	8-3/4	12	15-1/4	17	20-5/8	21-1/4
		184.2	190.5	203.2	212.7	222.3	304.8	387.8	431.6	523.9	539.8
C		12	14-7/16	16-5/16	18-1/4	22-11/16	28-23/32	33-1/2	41	47	49
		304.8	366.7	414.3	463.6	576.3	729.5	850.9	1041.4	1194	1244.6
D		3-1/8	4-3/8	5-1/8	6	8-1/2	11	11-3/8	15-1/4	16-3/4	16-1/2
		79.4	111.1	130.2	152.4	215.9	279.4	288.9	387.4	425.5	419.1
WEIGHTS	e lb	170	225	280	390	590	1050	1600	2850	3400	6050
	kg	77.1	102	127	177	268	476	726	1293	1542	2744

