SERIES 717 - cULus, FM, VdS, LPCB

SERIES 717H HIGH PRESSURE - cULus, FM

Series 717H valves are cULus Listed and FM Approved for service up to 365 psi/2517 kPa. See chart below for approved services for the Series 717 valves.

In the Series 717H High Pressure Check Valve, the stainless steel disc seated against the O-ring seal is mounted on the electroless nickel-plated end face. This spring-assisted, single disc design achieves a leak-free seal with as little as 51/1.5 m of head. The valve can be installed in horizontal and vertical positions.

The Series 717 check valve features an elastomer encapsulated disc and a welded in nickel seat for superior corrosion resistance.

In both valve designs, the single disc mechanism incorporates a spring-assisted feature for non-slamming operation. Each valve is factory tested to the rated working pressure. For systems requiring a Riser Check option refer to publication 10.09. Both valve designs include upstream and downstream pressure taps.

Grooved ends allow fast, easy installation with just two Victaulic couplings or the valve may be mounted to flanged (ANSI CL.150) equipment using either to Victaulic Style 741 Vic-Flange® or Style 744 FireLock flange adapters on either end.





Series 717 (4 - 12"/100 - 300mm)



Series 717H High Pressure Check Valve (2 - 3"/50 - 80mm)

	Approval/Listing Service Pressures										
	Series	717H	Series 717								
Size	cULus	FM	cULus	FM	LPCB	VdS					
2"/50 mm	up to 365 psi/2517 kPa	up to 365 psi/2517 kPa	n/a	n/a	n/a	n/a					
21/2"/65 mm	up to 365psi/2517 kPa	up to 365 psi/2517 kPa	up to 250 psi/1725 kPa	n/a	up to 1725 kPa/250 psi	n/a					
76.1 mm	up to 365 psi/2517 kPa	up to 365 psi/2517 kPa	up to 250 psi/1725 kPa	n/a	up to 1725 kPa/250 psi	up to 16bar/232 psi					
3"/80 mm	up to 365 psi/2517 kPa	up to 365 psi/2517 kPa	up to 250 psi/1725 kPa	n/a	up to 1725 kPa/250 psi	up to 16bar/232 psi					
4"/100 mm	n/a	n/a	up to 350 psi/2413 kPa	up to 350 psi/2413 kPa	up to 1725 kPa/250 psi	up to 16bar/232 psi					
5"/125 mm	n/a	n/a	up to 250 psi/1725 kPa	up to 250 psi/1725 kPa	up to 1725 kPa/250 psi	n/a					
139.7 mm	n/a	n/a	up to 250 psi/1725 kPa	up to 250 psi/1725 kPa	up to 1725 kPa/250 psi	up to 16bar/232 psi					
6"/150 mm	n/a	n/a	up to 350 psi/2413 kPa	up to 350 psi/2413 kPa	up to 1725 kPa/250 psi	up to 16bar/232 psi					
165.1 mm	n/a	n/a	up to 250 psi/1725 kPa	up to 250 psi/1725 kPa	up to 1725 kPa/250 psi	n/a					
8"/200 mm	n/a	n/a	up to 350 psi/2413 kPa	up to 350 psi/2413 kPa	up to 1725 kPa/250 psi	up to 16bar/232 psi					
10"/250 mm	n/a	n/a	up to 250 psi/1725 kPa	up to 250 psi/1725 kPa	up to 1725 kPa/250 psi	n/a					
12"/300 mm	n/a	n/a	up to 250 psi/1725 kPa	up to 250 psi/1725 kPa	up to 1725 kPa/250 psi	n/a					

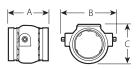
JOB/OWNER	CONTRACTOR	ENGINEER
System No	Submitted By	Spec Sect Para
Location	Date	Approved
		Date



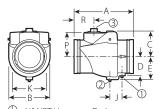


SERIES 717 - cULus, FM, VdS, LPCB SERIES 717H HIGH PRESSURE - cULus, FM

DIMENSIONS - Series 717

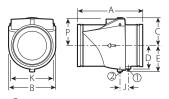


TYPICAL 2½ - 3"/65 - 80 MM



- 1/2" NPT Upstream Drain 2 ½" NPT Downstream Drain
 3 2" NPT (Drain Optional)

TYPICAL 4 - 8"/100 - 200 MM

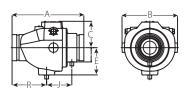


①1/2" NPT Upstream Drain ② ½" NPT Downstream Drain

TYPICAL 10 - 12"/250 - 300 MM

Si	ze	Dimensions- Inches/millimeters							Approx. Wgt. Ea.		
Nominal Size Inches mm	Actual Outside Diameter Inches mm	E to E		С	D	E	J	К	P	R	Lbs. kg
2½ 65	2.875 73.0	3.88 99	4.26 108	3.57 91	_	_	_	_	_	_	3.6 1.6
76.1 mm	3.000 76.1	3.88 99	4.26 108	3.57 91	_	_	_	_	_	_	3.6 1.6
3 80	3.500 88.9	4.25 108	5.06 129	4.17 106	_	_	_	_	_	_	4.5 2.0
4 100	4.500 114.3	9.63 245	6.00 152	3.88 99	2.75 70	3.50 89	2.00 51	4.50 114	3.50 89	3.35 85	20.0 9.1
5 125	5.563 141.3	10.50 267	6.80 173	4.50 114	_	4.17 106	2.15 55	5.88 149	4.08 104	3.98 101	27.0 12.3
139.7 mm	5.500 139.7	10.50 267	6.80 173	4.50 114	_	4.17 106	2.15 55	5.88 149	4.08 104	3.98 101	27.0 12.3
6 150	6.625 168.3	11.50 292	8.00 203	5.00 127	_	4.50 114	2.38 61	6.67 169	4.73 120	3.89 99	38.0 17.2
165.1 mm	6.500 165.1	11.50 292	8.00 203	5.00 127	_	4.50 114	2.38 61	6.67 169	4.73 120	3.89 99	38.0 17.2
8 200	8.625 219.1	14.00 356	9.88 251	6.06 154	5.05 128	5.65 144	2.15 55	8.85 225	5.65 144	5.75 146	64.0 29.0
10 250	10.750 273.0	17.00 432	12.00 305	7.09 180	5.96 151	6.69 170	2.15 55	10.92 277	6.73 171	_	100.0 45.4
12 300	12.750 323.9	19.50 495	14.00 356	8.06 205	6.91 176	7.64 194	2.51 64	12.81 925	7.73 196	_	140.0 63.5

DIMENSIONS - Series 717H



TYPICAL 2"/60.3 mm - 3"/88.9 mm $\,$

Size	Dimensions- Inches/millimeters										
Nominal Size Inches mm	A	В	С	D	E	J	К	P	R		
2 60.3	8.66 219.8	6.46 164.1	3.23 82.1	1.48 37.5	3.02 76.7	2.80 71.0	_	_	4.25 108.0		
2 ½ 73	9.37 238.0	6.94 176.3	3.31 84.1	1.66 42.2	3.40 86.4	3.38 85.9	_	_	4.38 111.3		
76.1 mm	9.37 238.0	6.94 176.3	3.31 84.1	1.66 42.2	3.40 86.4	3.38 85.9	_	_	4.38 111.3		
3 88.9	9.62 244.3	7.44 189.0	3.53 89.7	1.91 48.5	3.65 92.7	3.38 85.9	_	_	4.63 117.6		

SERIES 717 – cULus, FM, VdS, LPCB SERIES 717H HIGH PRESSURE – cULus, FM

MATERIAL SPECIFICATIONS

Body: Ductile Iron conforming to ASTM A-536, grade 65-45-12. Ductile iron conforming to ASTM A-395, grade 65-45-15, is available upon special request.

Body Coating: Series 717H Body: Black Paint

Series 717H Endface: Electroless Nickel Series 717 ($2\frac{1}{2} - 3$ "): PPS Coating Series 717 (4 - 12"): Black Paint

Body Seat: Series 717H - Nitrile O-ring installed into an electroless nickel plated endface

Series 717 ($2\frac{1}{2} - 3$ "): PPS Coated ductile iron Series 717 (4 - 12"): Welded Nickel

Disc Seal or Coating:

• Grade "T" Nitrile (Series 717H ONLY)

Nitrile (Orange color code). Temperature range $-20^{\circ}F$ to $+180^{\circ}F/-29^{\circ}C$ to $+82^{\circ}C$. Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range; except hot, dry air over $+140^{\circ}F/+60^{\circ}C$ and water over $+150^{\circ}F/+66^{\circ}C$. NOT RECOMMENDED FOR HOT WATER SERVICES.

• Grade "E" EPDM (Series 717 ONLY)

EPDM (green color code). Temperature range -30° F to $+230^{\circ}$ F/ -34° C to $+110^{\circ}$ C. Recommended for cold and hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. NOT RECOMMENDED FOR PETROLUEM SERVICES.

* Services listed are General Service Recommendations only. It should be noted that there are services for which these gaskets are not recommended. Reference should always be made to the latest Victaulic Gasket Selection Guide for specific gasket service recommendations and for a listing of services which are not recommended.

Discs:

- $\bullet~$ Series 717H (2 3"/50 80 mm): CF8M Cast Stainless Steel
- Series 717 (2½ 3"): Aluminum bronze with elastomer seal
- Series 717 (4 12"/100 300 mm) Elastomer-coated ductile iron

Shaft:

- Series 717H (2 3"/50 -80 mm): Brass
- Series 717 (4 12"/100 300 mm) Type 316 Stainless Steel

Spring: All sizes Type 302/403 Stainless Steel

Shaft Plug:

- Series 717H (2 3"/50 80 mm): Type 416 Stainless Steel

Pipe Plug:

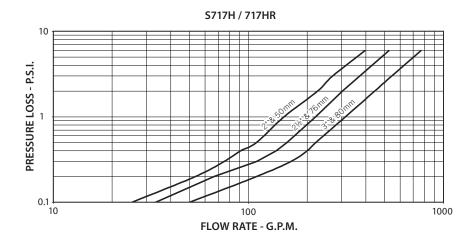
- Series 717H (2 3"/50 80 mm): carbon steel zinc plated
- Series 717 (4 12"/100 300 mm): Carbon steel zinc plated

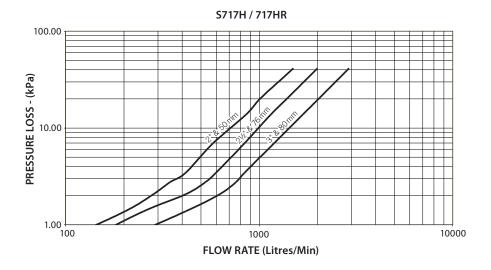


SERIES 717 – cULus, FM, VdS, LPCB SERIES 717H HIGH PRESSURE – cULus, FM

FLOW CHARACTERISTICS

The charts below express the flow of water at 60°F/16°C through valve.

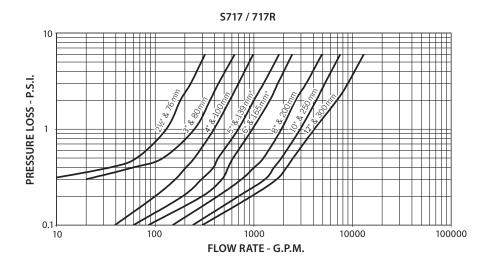


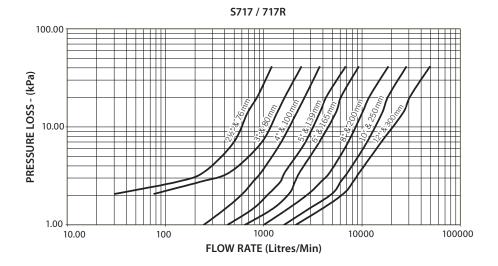


SERIES 717 – cULus, FM, VdS, LPCB SERIES 717H HIGH PRESSURE – cULus, FM

FLOW CHARACTERISTICS

The charts below express the flow of water at 60°F/16°C through valve.





SERIES 717 – cULus, FM, VdS, LPCB SERIES 717H HIGH PRESSURE – cULus, FM

INSTALLATION

Reference should always be made to the I-100 Victaulic Field Installation Handbook for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

WARRANTY

Refer to the Warranty section of the current Price List or contact Victaulic for details.

NOTE

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

