

Models: 105MAP-FV

Cast Iron Globe Check Style Foot Valve Assembly Sizes: 2" - 24" (50 - 600mm)

Pressure/Temperature Rating		
Model	Sizes	Rating
105MAP-FV	2" - 12" (50 - 300mm)	200psi @ 150° F 13.8 bar @ 66°C
105MAP-FV	14" - 24" (350 - 600mm)	150psi @ 150° F 10.3 bar @ 66°C

Max. temp. can be limited by seat or spring material. Consult Factory.

Not Recommended for Steam Service.

105MAP-FV **Class 125**



Model 105MAP-FV

Typical Service

- Used at the intake side of a Suction Pipe and Pump
- Design includes a Model 105 Globe Style Silent Check valve with a built-in strainer
- The check valve opens when the pump is started, allowing liquid to enter the suction pipe and prime the pump. It closes as the pump stops and before a reverse flow condition develops. The prime to the pump is therefore maintained, eliminating the need to prime the pump each time it is started.
- The strainer removes unwanted debris from the intake, helping to protect the pump from damage.

Features

- Spring closes the disc before flow reversal, preventing surge and water hammer
- Mating surfaces of the disc and seat are hand lapped for best possible sealing.
- Disc is fully guided at top and bottom to insure alignment and sealing at any installation angle.
- Disc begins to open at .5 psi.
- Disc opens 1/3" per inch of line size, greater than similar competitive products, for enhanced flow.
- Bodies are designed to accommodate 110% flow of equivalent pipe size.

Construction

- Globe body design for greatest flow capacity in a foot valve.
- Integrally cast flanges for ease of installation, Class 125 pattern is standard, 250 is also available.
- Cast Iron body with bronze trim is standard. Other materials available on request, consult factory.
- 302SS springs are standard. Many variations in material and weight are available on specification, consult factory.
- Variety of trim and seat materials are available
 - See "How To Order" chart.
- Standard strainer screen is 304SS perforated. Other screen materials, perforations and meshes are readily available as specified.

Installation

- Can be installed horizontally, vertically or at any angle.
 - Normal installation is vertical with upward flow.
- A shutoff valve and an additional strainer will normally also be installed prior to the pump
 - See Butterfly Valve Section for 87/88 Style Butterfly Valves for shutoff
 - See Y Strainer or Basket Strainer Sections for various strainer options.

Job Name _____

Job Location _____

Engineer _____

Approval _____

Contractor _____

Approval _____

Contractor's P.O. No. _____

Representative _____

Ordering Information

- All pertinent information relating to the operating conditions for which the valve is intended should be supplied. These include operating pressure, temperature, flow rates, velocity, pump type, conveyance of corrosive fluids, etc.
- Barring specific information, standard springs and materials will be supplied.
- Other materials are available on request, including carbon steel, stainless steel, or other alloys.
- See Silent Check Valve Section for full listing of options available in the valve.
- See Strainer Information Section for a description of materials, perforations, and meshes available.
 - Special strainer designs can be supplied, consult factory.

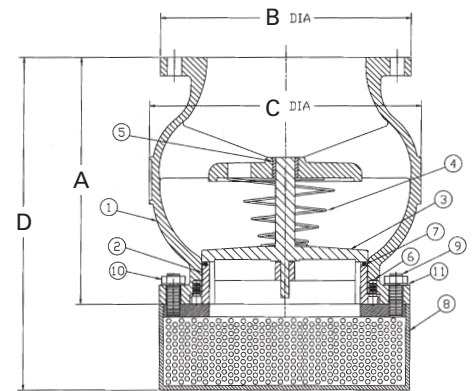
Pressure Drop

- See Dimensional Data Chart for Pressure Drop and C_v values

Dimensions and Flow Data

SIZE		DIMENSIONS							
in.	mm	A		B		C		D	
		in.	mm	in.	mm	in.	mm	in.	mm
105MAP									
2	50	6¼	159	6	152	4½	117	9¼	235
2½	65	7	178	7	178	5½	140	10	254
3	80	7½	191	7½	191	6¼	159	10¼	260
4	100	8½	216	9	229	8½	219	11½	292
5	125	9½	241	10	254	10	254	14½	368
6	150	10½	267	11	279	11½	283	15½	394
8	200	13½	343	13½	343	14½	371	19½	495
10	250	16¼	413	16	406	17½	441	24¼	616
12	300	20¼	514	19	483	21¼	552	28¼	718
14	350	22¼	578	21	533	24	610	32¼	832
16	400	24¼	629	23½	597	26½	670	34¼	883
18	450	22½	572	25	635	29½	752	34½	876
20	500	24	610	27½	699	32¼	832	36	914
24	600	24	610	32	813	37	940	40	1016
30	750	30	762	38¼	984	42½	1080	46	1168

Apply For Certified Drawings.



Model 105MAP-FV

Materials

	Description	
Body	1	Cast Iron A126-GR. B
Seat	2	Bronze B-62
Disc	3	B-16 Bronze Plate
Spring	4	302 Stainless Steel ASTM A276-302
Bushing	5	Bronze ASTM B-98
Cap Screws	6	Socket HD 18-8 Stainless Steel
O-ring	7	Buna-N
Screen	8	304 Stainless Steel
Stud	9	A193-B7
Nut	10	A194-2H
Lockwasher	11	Carbon Steel

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A Watts Water Technologies Company

ES-MS-105MAP-FV 1020

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