

INSTALLATION AND MAINTENANCE INSTRUCTIONS SERIES "MFR" MANUAL SELF-CLOSING VALVES

1. SPECIFICATION – ½" AND ¾" MFR

Cv	Pipe Size	Inlet and outlet Maximum Working Pressure* at given temperatures		Model Numbers
		@ 77° F (25° C)	140° F (60° C)	
3.0	1/2"	150 PSI 10 Bar	40 PSI 2,7 Bar	MFR050V (Viton Seals) MFR050EP (EPDM Seals)
8.0	3/4"	150 PSI 10 Bar	40 PSI 2,7 Bar	MFR075V (Viton Seals) MFR075EP (EPDM Seals)

*Typical application is pressure; however, valve can be built for vacuum if ordered correctly. See ordering information.

2. PRESSURE SERVICE ONLY- UNLESS NOTED

All Series MFR valves are normally configured for pressure service only unless specified "VACUUM SERVICE" when ordered. If you are not sure, contact your distributor. For vacuum service, the two smaller shaft u-cups (item 4) will have the open end facing up, instead of down as shown.

3. INSTALLATION

Install the valve in the proper flow direction as indicated by the arrow on the label. Note that UV light (sunlight) will degrade plastic materials

Threaded Connections: A suitable thread sealant e.g. PTFE tape, should be applied to male thread to provide leak tight seal. **Note that many thread sealant products, pastes, tapes, dopes, threadloks, etc. are NOT compatible with plastics.** If in doubt, contact the thread sealant manufacturer Do not use a valve if it has come in contact with incompatible materials.

Assemble Hand tight followed by a quarter turn using a strap wrench. Do not over tighten or use a pipe wrench on plastic parts. The resultant markings on the body will weaken the body with possible failure occurring in the future.

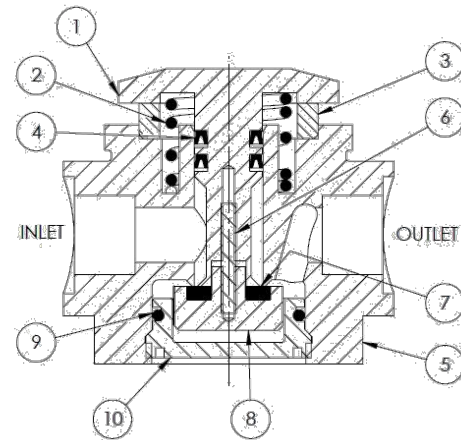
CAUTION: PTFE tape "strings" when the fitting is tightened. These strings can get into the valve thus causing internal leakage if they end up on the valve seat. To avoid this, be sure to clean out the old tape and when applying new tape do not apply to the first thread of the male fitting.

CAUTION: Do not connect metal fittings into this valve. Use plastic only. Metal pipe should only be installed with an intervening plastic nipple .

Non threaded connections: For solvent cementing or heat fusion, follow the instructions supplied with your cement or fusion equipment, or contact your distributor.

Mounting: These valves are designed to be supported by the piping. The piping must be properly supported taking into account the weight of the valve, piping and process fluid. Four 1/4"-20 holes are provided on the bottom for panel mounting.

4. MAINTENANCE: Plast-O-Matic recommends keeping a spare seal kit on hand. Seal life will vary based on chemical compatibility, temperature (higher temperature means shorter seal life), and cycle rate. A periodic inspection should be made based on history of the application. Seal kit part numbers are "SK" followed by the valve part no. less the final material suffix. Example: For valve model MFR050V-PV the seal kit number would be SKMFR050V.



ITEM	DESCRIPTION	QTY	MFR050	MFR075
1	HANDLE ASSEM.	1	7253	4316
2	SPRING	1	4282-SS	4282-SS
3*	SHIELD	1	3013	3003
4*	U-CUP	2	U-45	U-7
5	BODY	1	6391	3000
6	STUD	1	F-SFT06C100-S	F-SFT08C100-S
7*	SEAT	1	7227	3001
8	SEAT RETAINER	1	7218	4279
9*	O-RING	1	0123	0139
10	PLUG	1	3009	3005

*Seal Kit Item