

# INSTALLATION, MAINTENANCE & OPERATING INSTRUCTIONS

## SERIES BSR AIR OPERATED SHUT OFF VALVE

### 1. IMPORTANT - BEFORE INSTALLING

Plast-O-Matic BSR valves are normally closed by spring and are opened with air pressure. The minimum air pressure to open is 25 PSIG and the maximum allowable air pressure is 100 PSIG. The air supply should be filtered, regulated, and lubricated. Lubricant should be compatible with the Viton or EPDM seals in the air chamber.

### 2. SPECIFICATIONS • ½" BSR and ¾" BSR

BODY MAT'L	COLOR	MAX INLET AND OUTLET PSIG @ given temp. °F	MAX. AIR PSIG@ given temperature °F
PVC	Gray	150 PSIG @ 77°F 40 PSIG @ 140° F	all configurations 100 @ 77° F
PolyPro	White	100 PSIG @ 77°F 50 PSIG @ 140°F 20 PSIG @ 180°F	

### 3. VACUUM SERVICE

All Series BSR 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 9 at right) will have the open end facing up, instead of down as shown.

### 4. 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 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.

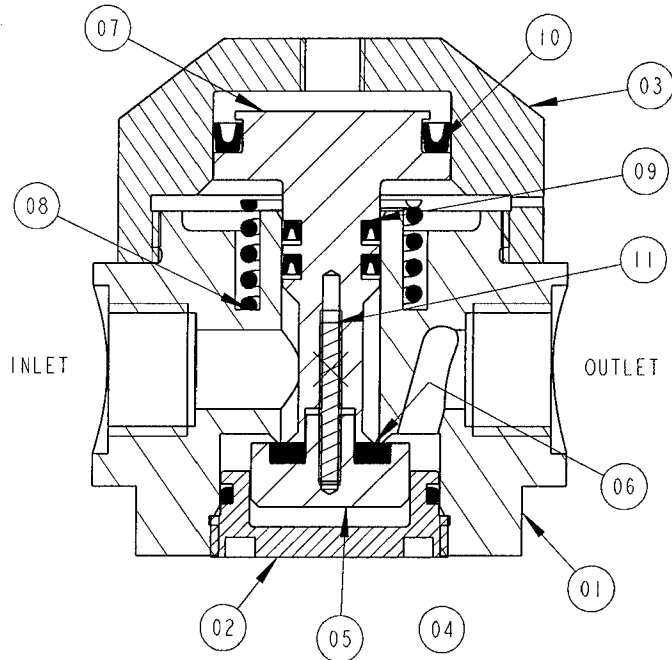
**Non threaded connections:** For solvent cementing or heat fusion, follow the instructions supplied with your cement or

fusion equipment, or contact your distributor.

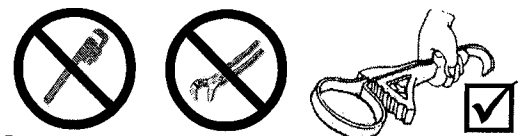
**Air connection:** The recommended air pressure is 25 to 100 PSIG at 77°F. The air supply should be filtered, regulated, and lubricated. Lubricant should be compatible with the Viton or EPDM seals in the air chamber.

**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 ¼" - 20 holes are provided on the bottom for panel mounting.

**5. 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), cycles. 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 BSR050V-NC-PV the seal kit number would be SKBSR050V-NC.



ITEM	QTY	PART NO.	DESCRIPTION
01	1	6391	BODY
02	1	3009	PLUG
03	1	6392	AIR HEAD, BSR050
* 04	1	0123	O-RING
05	1	7218	SEAT RETAINER
* 06	1	7227	SEAT DISK
07	1	7216	PISTON
08	1	4282	SPRING
* 09	2	U-45	U-CUP
* 10	1	U-52	U-CUP
11	1	F-SFT06C100-SS	STUD



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