



SWAP[®] VALVE Quickly Purge Cooling Water Using Shop Air

General Description

The Smartflow SWAP Valve supplies cooling water to the mold during processing. Secondly, it supplies air to purge the water from the mold, cooling lines, supply and return manifolds before tool change. It also provides a manual vent to release built-up air pressure within the cooling water loop after purging.

A check valve should be installed in the return line downstream from the return manifold to prevent backflow to the mold.

Tubing may be connected to the manual vent-drain port so after the purge cycle any residual water can be released into a container or drain.

An optional spring-loaded, locking pin is available for molders who require two-hand operation. This prevents accidental valve handle movement.

Benefits

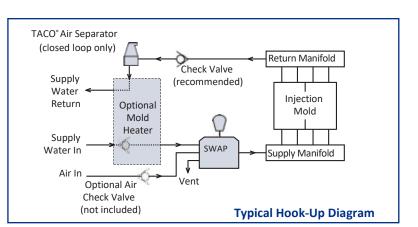
- Implements SMED by dramatically reducing tool change time.
- Identifies supply lines by noting which manifold is connected to the SWAP Valve.
- Full port design provides maximum cooling water flow with minimum pressure drop.
- Prevents slip hazard by keeping shop floors dry.
- Prepares injection mold for preventive maintenance and storage.
- Optional Positive Locking Pin prevents accidental valve handle movement.



Reinforced Molded Body with Stainless Disc

Available in 1" Reinforced Molded Body with Stainless Steel Disc or Brass (via special order,)

U.S. Patent No. 6,471,503



Application

The SWAP valve is well-suited for cooling water supply lines up to 2-inch NPT. It is permissible to adapt 3/4", 1-1/4" and 1-1/2" line sizes providing adequate cooling water flow can be achieved.

Typical mounting is on press or safety door frame. Mounting on any suitable surface, such as a platen, mold or manifold stand is acceptable.

For Normal Processing	Select WATER. Cooling water is available to the supply manifold. Purge air is blocked.
To Evacuate Cooling Water	Select PURGE. Purge air is available to the supply mani- fold. Cooling water is blocked.
To Bleed Trapped Pres- sure and Drain Residual Water	Select VENT. Press Manual Vent-Drain Valve. Purge air is blocked. Cooling water is blocked.





Molded Body, Stainless Disc (1" only)

Model # Options with Check Valve

Specifications

Maximum Pressure Maximum Operating Temperature Normal Working Air Pressure Pressure Drop across Purge Valve

Wetted Parts

Body Valve Disc O-Rings Check Valve (recommended) 150psi (10.3bar) 250°F (121°C) 80 to 100psi 1psi at 50gpm

Glass-Filled Nylon Stainless Steel Model# EPDM Brass



Model # Options without Check Valve

Item #	Thread Size	Locking Pin	Weight		Item #	Thread Size	Locking Pin	Weight
SPV8AM	1" NPT	No	2.5 kg / 5.5 lbs		SPV8AMN	1" NPT	No	2.1 kg / 4.7 lbs
SPV8LM	1" NPT	Yes	2.3 kg / 3.3 lb3		SPV8LMN	1" NPT	Yes	2.1 kg/4.7 103

TACO[®] 4900 Series Air Separators

TACO 4900 Series Air Separators are designed for the complete elimination of air from closed loop water circulating systems. Small air bubbles and micro-bubbles adhere to surfaces on pall rings in the water path and join together to form larger air bubbles. The combined bubbles travel up through the water and into the conical air chamber to be released by the vent at the top.

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Recommended for use with **SMARTFLOW SWAP Valve** in a closed loop cooling water system.

Specifications	
Connection Sizes	1" & 2"NPT(F)
Housing Material	Brass
Pall Ring Material	Stainless Steel
Venting Unit Materials	Stainless Steel
	EPDM, Viton, Engineered Plastics
Operating Pressure Max	150psi (10bar)
Operating Temperature Max.	240°F (115°C)
Operating Temperature Min.	25°F(-4°C)
Media	Water or Water/Glycol
Max. Velocity	5ft/sec

Item #	Connection size	А	В	С	Weight		
			D		kg	lbs	
49100	1"	5-1/2"/139mm	6-3/4"/171mm	4-3/8"/111mm	2	4.5	
49200	2"	6-5/8"/169mm	8-7/16"/214mm	5-3/16"/131mm	2.7	6.0	

Accessories All Models - Brass Check Valves/O-Rings



Item #	Description
PVCV100	Brass Check Valve 1" NPT
PVCV200	Brass Check Valve 2" NPT
PVOSET100A	O-Ring
PVOSET200A	O-Ring

