



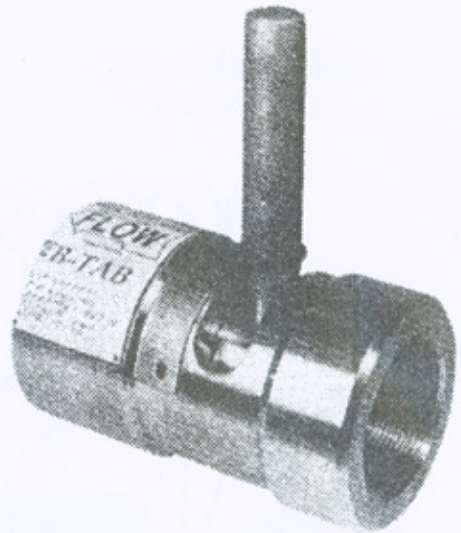
**TAYLOR VALVE  
TECHNOLOGY INC.**

## MCX MOV\* Pressure Valve

High Volume Low Cost Restrictors

The Taylor MCX MOV\* is designed for liquid and gas applications.

\* Multiple Orifice Valve



### For industrial process, high pressure drop & production applications

This versatile, state-of-the-art throttling valve has been designed for use in water, gas, and liquids for process applications in:

- Petrochemical and chemical
- Power generation
- Pulp and Paper
- Steel
- Water Purification

### Features

- Superior trim design for unequaled throttling control and accuracy in the process environment.
- Bi-directional fluid flow through, valve
- Unique flow path through the trim for superior resistance to cavitation and increased stability of trim.
- Durable, high quality construction for longer life and drastically reduced maintenance.
- Orifice position is displayed clearly.
- Control surfaces are separated from sealing surfaces.
- Unique sealing and fluid flow dynamics permit compliance with current environmental (FTE) requirements.
- Seal tightness ratings are superior to any competitive product model.
- Easy to Set - 1/4 turn for full range

Taylor Valve Technology's MOVs employ a simple design principle which affords precision control. The two adjacent, internal discs each contain two precision holes (orifices). When the orifices on both discs are aligned, the valve is fully open. As the front disc rotates in relation to the fixed back disc, the flow area and available orifice size are reduced. When the front disc has rotated 90° (one quarter turn), the valve is fully closed.



The fixed back disc is held perpendicular to the flow. The front disc floats against the back disc and seeks a mating surface with the disc to assure a positive seal.

The differential pressure across the upstream disc promotes sealing, and stabilizes control surfaces. Vibration, noise, or fatigue normally associated with loose or unsupported parts is eliminated.



The discs are lapped to within two light-bands of flatness (.00002) to achieve positive shut-off and maintain precise control.

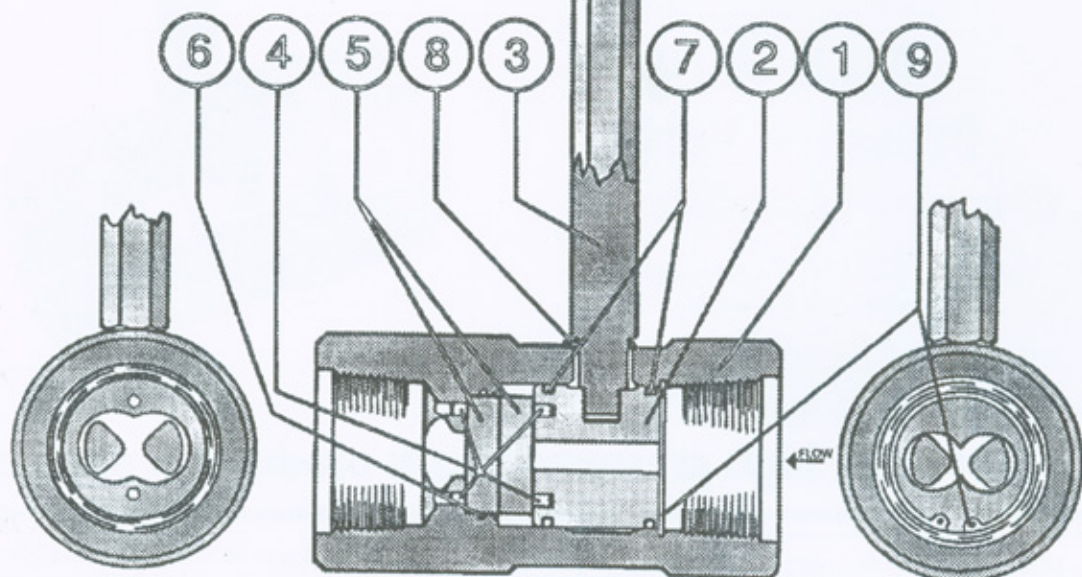
The multi-orifice design produces near linear flow characteristics. No control surfaces are introduced into the orifice, providing a clear center line for flow. The orifices of the standard disc expose a small control surface profile to the fluid stream, reducing wear.

The low torque and quarter-turn design of Taylor Valve Technology's Multi-Orifice Valves allows for a variety of actuation options: manual, pneumatic, hydraulic, or electric.



The valves are rated for shut-off at ANSI class III or IV, depending on the style of valve and trim used.

**STANDARD VALVE SIZES -  
2", 3", 4" & 6"**



ITEM	DESCRIPTION	STANDARD MATERIAL OPTIONS
		(OTHER MATERIALS AVAILABLE AS REQUIRED BY APPLICATION)
1.	BODY	CARBON STEEL, ALBR, STAINLESS STEEL
2.	ROTATOR	STAINLESS STEEL
3.	HANDLE	CARBON STEEL
4.	PIN	STAINLESS STEEL
5.	DISC	CERAMIC, STAINLESS STEEL, TUNGSTEN CARBIDE
6.	"O" RING	VITON, BUNA "N"
7.	"O" RING	VITON, BUNA "N"
8.	SNAP RING	CARBON STEEL
9.	SNAP RING	STAINLESS STEEL

VALVE SIZE								
2 INCH			3 INCH			4 INCH		
* EQUIVALENT HOLE SIZE (2)	MAX Cv	EQUIVALENT 64THS	* EQUIVALENT HOLE SIZE (2)	MAX Cv	EQUIVALENT 64THS	* EQUIVALENT HOLE SIZE (2)	MAX Cv	EQUIVALENT 64THS
3/16	1.65	16.9	1	48.8	90.6	1 1/2	130	136.0
1/4	2.95	22.6	1 3/16	68.5	107.8	2	188	181.2
1/2	11.78	45.2	1 1/4	77.5	116.7			
5/8	16.10	53.0	1 3/8	87.5	124.0			
3/4	23.70	62.9						

BECAUSE OF TAYLOR'S CONTINUED RESEARCH, TESTING AND PRODUCT IMPROVEMENT PROGRAMS, Cv VALUES ARE SUBJECT TO CHANGE.

\* NOTE: TAYLOR ALWAYS USES (2) HOLES TO BALANCE DISCHARGE

SIZE VALVE INCHES	DIMENSIONS IN INCHES			WEIGHT IN POUNDS
	A	B	C	
2"	7.00	4.00	2.50	27
3"	12.00	7.00	5.50	70
4"	20.00	9.00	7.50	105
6"	24.00	15.00	17.00	240



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