



# MCX SERIES

## Choke Valves

• TRUSTED •  
**SINCE 1958**  
• WORLDWIDE •



Precise.

Quality.

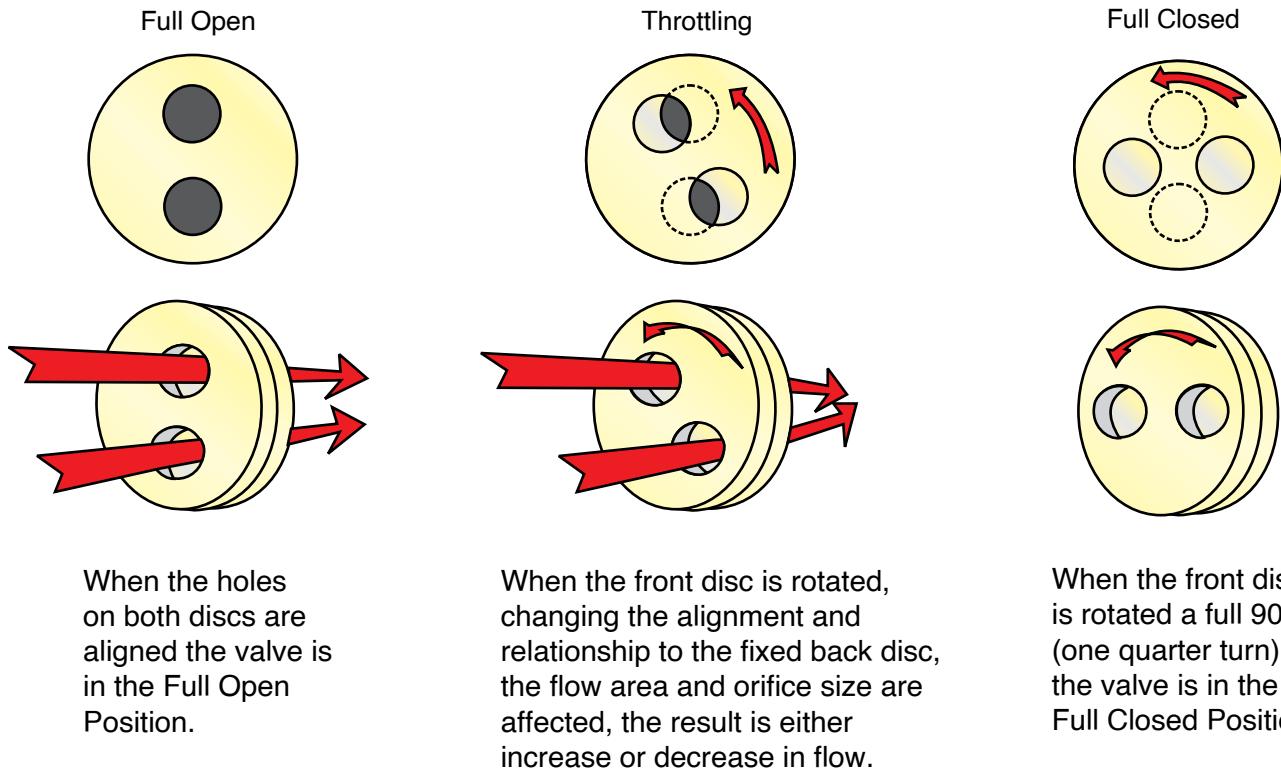
Reliable.



SINCE 1958 

# MOV Valve Principle of Operation

Taylor Valve Technology Multi-Orifice Valve Design Principle Provides Precision Control.  
The two adjacent internal discs each contain two precision orifices.

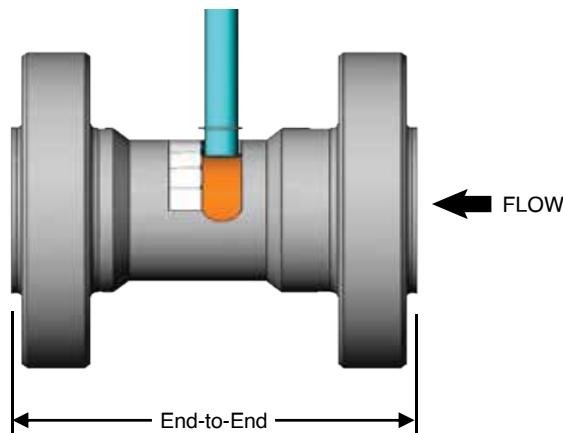


The discs are lapped to within two light bands of flatness (+/- .00002") to achieve positive shut off and maintain precise control. The fixed back disc is held perpendicular to the flow. The front disc floats against the back disc and seeks a mating surface promoting a positive seal. The differential pressure across the upstream disc and the downstream disc stabilizes the control surfaces. Vibration, noise or fatigues normally associated with loose or unsupported parts are eliminated. No control surfaces are introduced into the orifice, providing a clear center line for the flow. The valves are rated for shut-off at ANSI Class III or IV depending on the style of valve and trim used. The orifices of the standard disc expose a small control surface profile to the fluid stream reducing wear. The multi-orifice design produces near linear flow characteristics. 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.

MCX CHOKE STANDARD DIMENSIONS (IN. +/- .10)			
CONNECTION	SIZE		
	3"	4"	6"
FNPT	9.00	12.50	-
BUTT-WELD	-	-	-
150 # RFF	9.00	13.25	15.07
150 # RTJ	9.00	13.25	15.07
300 # RFF	9.50	13.25	15.07
300 # RTJ	9.50	13.25	15.07
600 # RFF	9.50	13.25	15.07
600 # RTJ	9.50	13.25	15.07
900 # RFF	9.50	13.25	-
900 # RTJ	9.50	13.25	-
1500 # RFF	9.50	13.25	-
1500 # RTJ	9.50	13.25	-
2500 # RFF	-	-	-
2500 # RTJ	-	-	-

## MCX Inline Choke

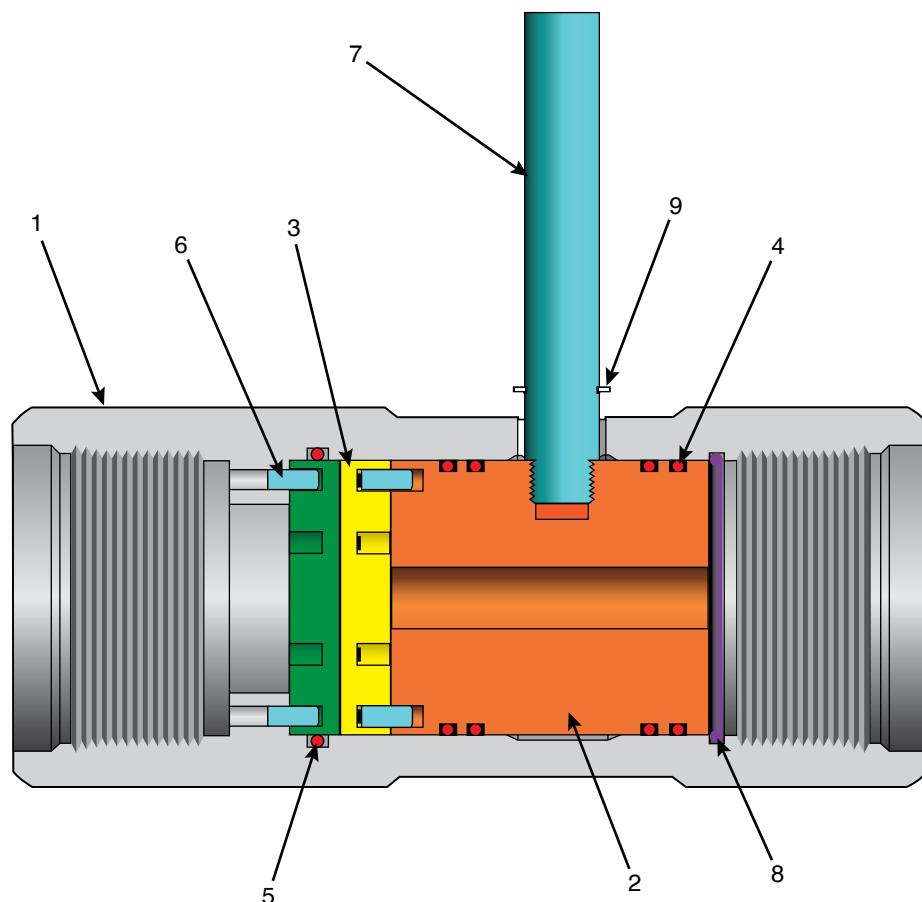
3" & 4" Configurations  
316 SS  
1/4 Turn Actuated  
Body Rating = 3,000 PSI  
CV Range = 11.2 – 279.83



No.	Description	Qty
1	Body	1
2	Rotator	1
3	Disc	2
4	O-Ring	4
5	O Ring	1
6	Dowel Pin	4
7	Handle	1
8	Spiral Retaining Ring	1
9	Retaining Ring	4
**10**	Wear Sleeve	1

\*Not available in threaded configuration

\*\* Not shown in section view



# MCX SERIES CHOKE VALVES

## FEATURES & *Benefits*

- **Accurate Control** - Superior design is unequalled for throttling control and accuracy. Unique sealing and fluid flow dynamics permit compliance with current environmental requirements.
- **Extended Mean Time Between Service** - Robust design and liberal application of hardened materials, efficient flow-geometry means the valves offer maximum production potential and minimum service requirements.
- **Easy Maintenance** - Choke valves are designed to provide simple straightforward disassembly with no special tooling or fixtures.
- **Optional Features** - Choke valves can have trims and actuators custom designed for specific requirements, such as, special trims for noise reduction and sand control, several trims are available to accommodate high pressure flows or minimum pressure loss applications.

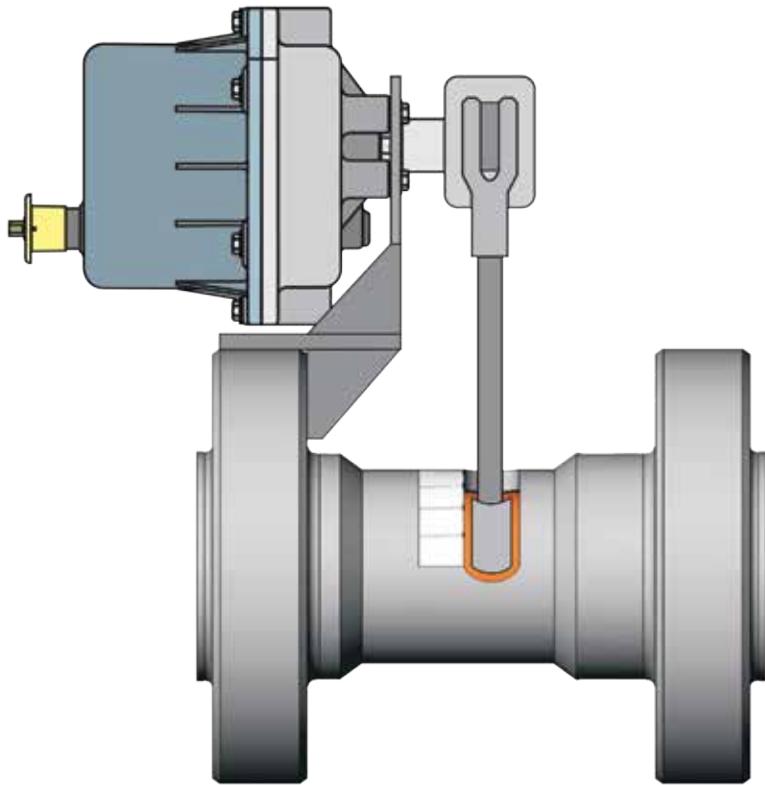
### Applications:

- Water Injection Control Valve
- Gas Lift Injection Control
- Throttling Valve
- High DP Valve
- Motor Operated Valve
- Enhanced Oil Recovery



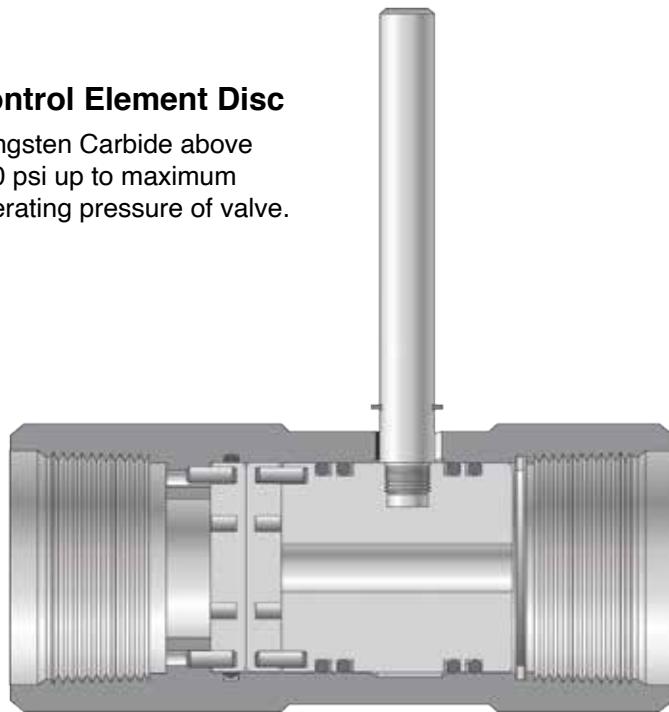
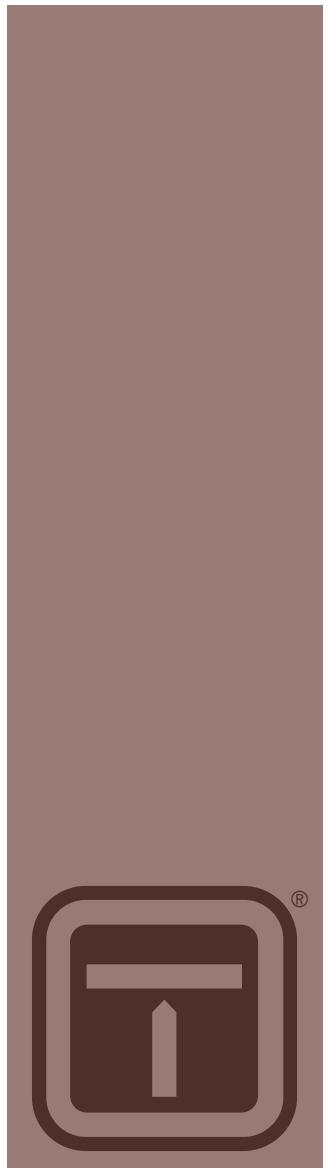
## The MCX Series of Inline MOV Chokes Offer:

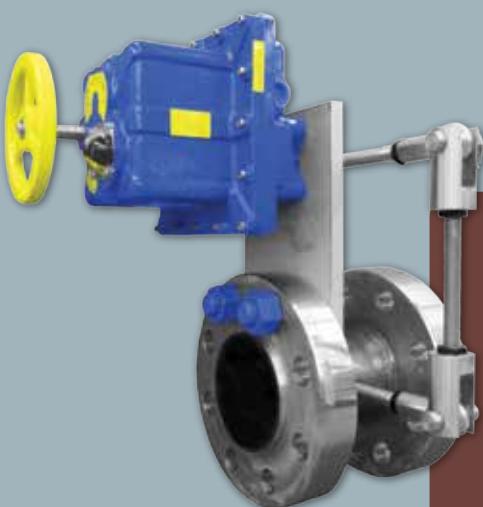
- ~ ANSI Class III Shut Off
- ~ Linear flow characteristics
- ~ Downstream Wear Resistant Flow Tube
- ~ Simple Design for easy field maintenance
- ~ Choice of materials for body standard is 316 SS
- ~ Threaded, Flanged
- ~ Sizes 3" (Threaded, Flanged) & 4" (Flanged)



### Control Element Disc

Tungsten Carbide above  
500 psi up to maximum  
operating pressure of valve.



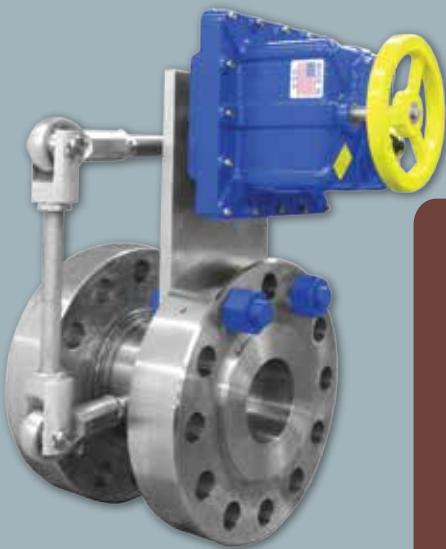


MCX 3" with 4" 900# RFF

## MCX with Electric Actuator

### Actuator Shown - Indelac Male LX-14

- 24 Volt DC Supply
- Max Torque 3840 in. lbs.
- NEMA 4 Enclosure
- Side Mounted Hand wheel (optional)
- Used on MCX 3" & 4"



MCX 4" with 6" 900# RFF

## MCX with Electric Actuator

### Actuator Shown - Indelac Female LX-14

- 24 Volt DC Supply
- Max Torque 3840 in. lbs.
- NEMA 4 Enclosure
- Side Mounted Hand wheel (optional)
- Used on MCX 3" & 4"

## MCX Actuation Packages



MCX 4" with 6" 1500# RFF

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MCX with Electric Actuator

## Actuator Shown - Indelac LX-5

- 24 Volt DC Supply
- Max Torque 1500 in. lbs.
- NEMA 4 Enclosure
- Side Mounted Hand wheel (optional)
- Used on MCX 3" & 4"



MCX 4" with 4" 1500# RFF

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MCX with Electric Actuator

## Actuator Shown - Rotork IQTM 500

- Single Phase 120 Volts supply
- Max 500Nm torque actuator
- NEMA 4 Enclosure
- Side Mounted Hand wheel
- Used on MCX 3" & 4"

# Choke Nomenclature

Choke Series	Size	Service Type	Style	Trim Material
CA	1 1"	0 Standard	0 Non-flanged	03 CARBIDE DISC - STELLITE WR SLV
CI	2 2"	1 NACE	1 RFF	04 CERAMIC DISC - STELLITE WR SLV
MC	3 3"	2 Steam/High Temp.	2 RTJ	05 CARBIDE DISC - CARBIDE WR SLV
MCX	4 4"		3 RFF X RTJ	15 CERAMIC DISC - NO WR SLV
MDA	6 6"		4 RTJ X RFF	16 CARBIDE DISC - NO WR SLV
MDAS			5 NPT X API	32 CERAMIC DISC/CARBIDE FLOW TUBE
MDI				44 R/RB-SERIES
MDIS				47 BEAN 17-4 SS
RB				17 CARBIDE DISCS & DIFFUSER
RBHU (Hammer Union)				18 CERAMIC DISCS & DIFFUSER
Actuation Type				
0 Manual Handle 1 Manual Gear 2 Electric 3 Pneumatic 4 Hydraulic 7 Positive Bean				
Schedule				
0 Non-flanged 1 40 2 80 3 160 4 XS 5 XXS 6 SLIP-ON 7 API 8 120 9 XXH X S80 A S80 X S40 B NPT X API C S120 X S80				
Body Material				
00 DUPLEX SS 03 CARBON STEEL 04 LOW ALLOY (4130 LACS) 05 316 SS (CF8M) 06 316 SS "L" (CF3M) 07 ALUMINUM BRONZE 08 A350 LF2 09 LCC 10 INCONEL 11 SUPER DUPLEX SS 12 440 SS 13 410 SS				

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**EXAMPLE ONLY\***

Inlet Connection		Outlet Connection	
01	1" FNPT	41	6" 600
02	1" BUTT WELD	42	6" 900
03	1" SOCKET WELD	43	6" 1500
04	1" VICTAULIC	44	6" 2500
05	1" 150	45	8" 150
06	1" 300	46	8" 300
07	1" 600	47	8" 600
08	1" 900/1500	48	8" 900
09	1" 2500	49	8" 1500
10	2" FNPT	50	8" 2500
12	2" BUTT WELD	51	2-1/16" 3000
13	2" SOCKET WELD	52	2-1/16" 5000
14	2" VICTAULIC	53	2-1/16" 10000
15	2" 150	54	2-9/16" 3000
16	2" 300	55	2-9/16" 5000
17	2" 600	56	2-9/16" 10000
18	2" 900/1500	57	3-1/8" 3000
19	2" 2500	58	3-1/8" 5000
20	3" FNPT	59	3-1/8" 10000
21	3" BUTT WELD	60	4-1/16" 3000
22	3" SOCKET WELD	61	4-1/16" 5000
23	3" 150	62	1-13/16" 10000
24	3" 300	63	3-1/16" 5000
25	3" 600	64	3/4" 600#
26	3" 900	65	1.5" 900/1500
27	3" 1500	66	3-1/16" 10000
28	3" 2500	67	7-1/16" 5000
29	4" FNPT	68	1-13/16" 15000
30	4" BUTT WELD	69	2-1/16" 15000
31	4" SOCKET WELD	75	1" UNION
32	4" VICTAULIC	76	3" 602M x 3" 602F Union
33	4" 150	78	3-1/16" 15000
34	4" 300	80	10" 600
35	4" 600	81	10" 900
36	4" 900	82	10" 1500
37	4" 1500	83	10" 2500
38	4" 2500	84	2-9/16" 15000
39	6" 150	85	6" Butt Weld
40	6" 300	87	1.5" 1500

Orifice Size			
01	(2) 1/8" RND PORTS	29	48/64 BEAN
02	(2) 3/16" RND PORTS	34	32/64 BEAN
03	(2) 1/4" RND PORTS	43	40/64 BEAN
04	(2) 3/8" RND PORTS	44	34/64 BEAN
05	(2) 1/2" RND PORTS	45	28/64 BEAN
06	(2) 5/8" PIE PORTS	46	30/64 BEAN
07	(2) 3/4" RND PORTS	53	10/64 BEAN
08	(2) 7/8" RND PORTS	63	11/64 BEAN
10	(2) 1-3/16" RND PORTS	64	14/64 BEAN
11	(2) 1-1/4" RND PORTS	65	15/64 BEAN
14	(2) 1-1/2" RND PORTS	66	16/64 BEAN
30	(2) 3/4" PIE PORTS	67	19/64 BEAN
32	(2) 1-3/4" RND PORTS	68	20/64 BEAN
35	(2) 1" ROUND PORTS	69	24/64 BEAN
38	(2) 2" PIE PORTS	70	21/64 BEAN
40	(2) 1-1/4" PIE PORTS	71	22/64 BEAN
41	(2) 1-3/8" PIE PORTS	72	23/64 BEAN
42	(2) 1-1/8" RND PORTS	73	27/64 BEAN
47	(2) 1-1/2 PIE PORTS	74	29/64 BEAN
49	(2) 5/8" RND PORTS	75	25/64 BEAN
54	(2) 2.92 PIE HOLES	76	17/1" RND PORTS
55	3 CV	77	7/64 BEAN
56	12 CV	78	54/64 BEAN
57	164 CV	79	44/64 BEAN
58	420 CV	80	45/64 BEAN
59	64 CV	81	47/64 BEAN
60	35 CV	82	51/64 BEAN
22	17/64 BEAN	83	35/64 BEAN
23	18/64 BEAN	84	37/64 BEAN
24	8/64 BEAN	85	6 CV
25	13/64 BEAN	86	85 CV
26	4/64 BEAN	87	12/64 BEAN
27	38/64 BEAN	88	78 CV
28	36/64 BEAN	89	42/64 BEAN
		90	43/64 BEAN
		91	41/64 BEAN

Seal Material	
00	HNBR/HSN
01	NBR
03	EPDM
04	FKM (VITON)
05	NEOPRENE
06	NBR (PEROXIDE CURED)
07	STEAM SEALS
09	AFLAS
11	V8588
12	KALREZ 7075

Butt weld connections **MUST** specify a schedule.

All API connections are “RTJ” style by default.

API flange bore (SCHEDULE) is specified by API.

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\*See back page of actual choke product brochure for a more detailed order number example.

\*For more options, contact Taylor Valve

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