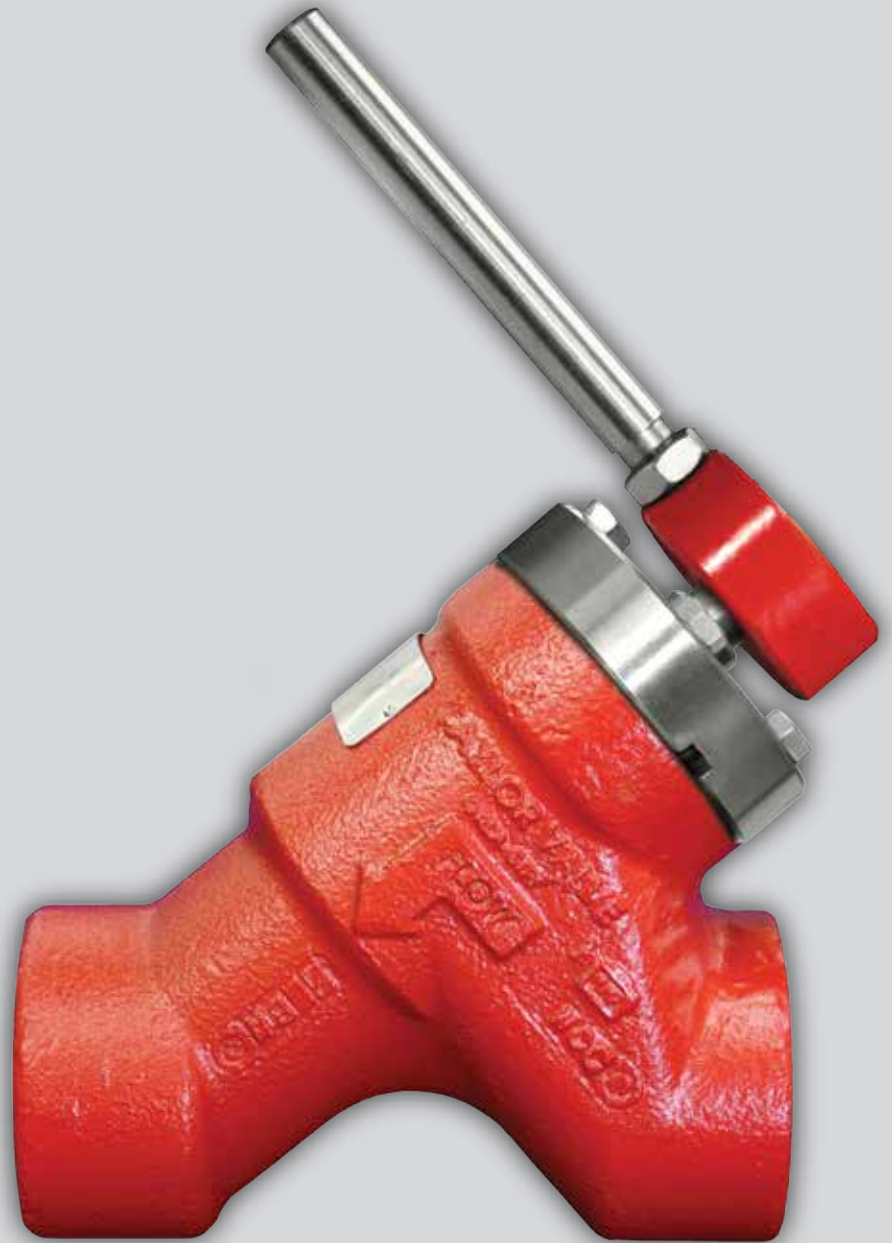




Precise.

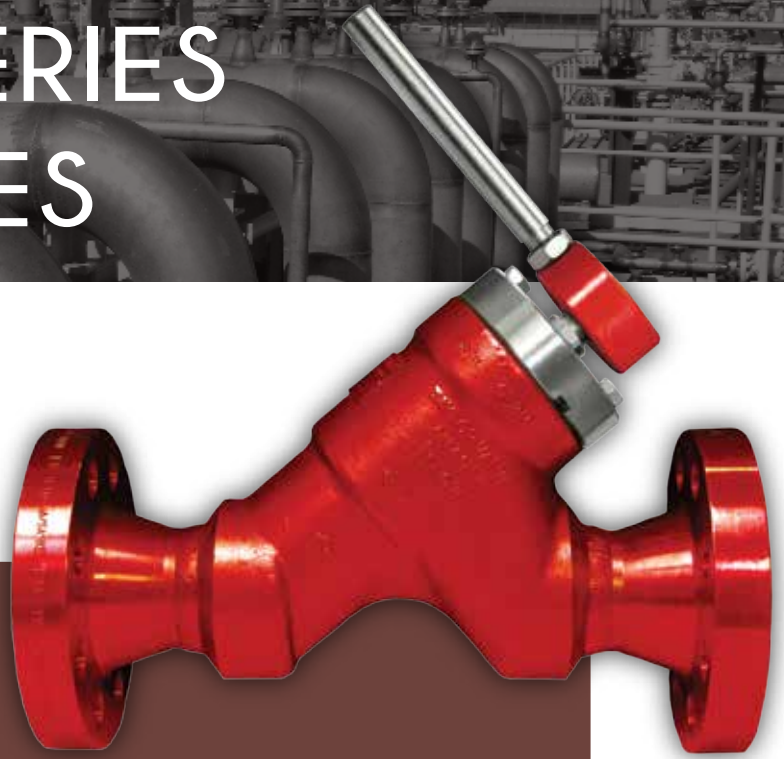
Quality.

Reliable.



MDI / MDIS SERIES CHOKE VALVES

FEATURES & *Benefits*



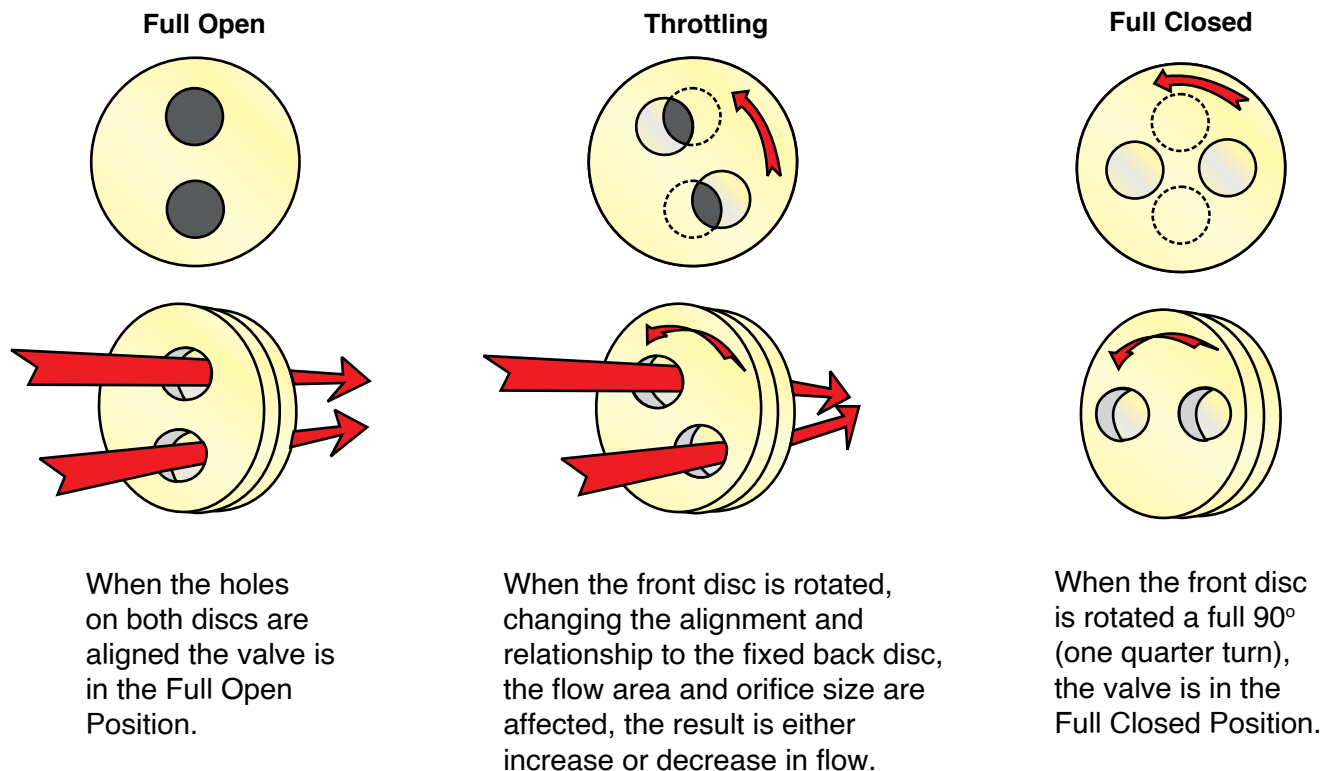
Taylor Valve MDI / MDIS Series Chokes are made with wear resistant material to extend service life, with redundant O-Rings on the Bonnet Seals and Stem Seals that help prevent leakage. Fully Guided Stems reduce imbalance and vibration. Control Discs provide ANSI Class III/IV Shut off. Available sizes are the 1 Inch, 2 Inch, and the 3 Inch chokes.

- **Accurate Control** - 90 degree rotation from Full Off to Full On.
- **Bolted Bonnet** - Safety Bonnet is bolted into the body, it avoids the well-known risks of corrosion, cross threading, galling of threaded type connection in production environments.
- **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** - Repair parts can be installed in the field without removing the valve from the line.
- **Optional Features** - Choke Valves can have trims and actuators custom designed for specific requirements. Such as special noise reduction trims, reduced port and maximum orifice trims, and for very high pressure or minimum pressure loss for a declining field.

Applications:

- Well Site Automation
- Water Injection Control Valve
- CO2 Injection Control Valve
- Pump Bypass
- Pump Startup
- Gas Lift Injection Control
- High Temperature Protection
- Blow Down and Dump Valve
- Remote Control for directional drilling
- Steam Injection
- Steam Tracer Control
- Manual and Automated Application

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.

MDI 1" & 2" Specifications / Cutaway View

MDI CHOKE STANDARD DIMENSIONS (IN. +/- .10)

CONNECTION	SIZE		
	1"	2"	3"
FNPT	8.00	8.00	19.64
BUTT-WELD	8.00	8.00	19.15
150 # RFF	12.56	13.18	18.61
150 # RTJ	12.93	13.55	18.63
300 # RFF	13.06	13.68	19.11
300 # RTJ	13.43	14.18	19.61
600 # RFF	13.56	14.43	20.39
600 # RTJ	13.56	14.56	20.52
900 # RFF	14.43	16.68	20.39
900 # RTJ	14.43	16.81	20.52
1500 # RFF	14.43	16.68	21.89
1500 # RTJ	14.43	16.81	22.02
2500 # RFF	15.68	18.68	-
2500 # RTJ	15.68	18.81	-

MDI Inline Choke

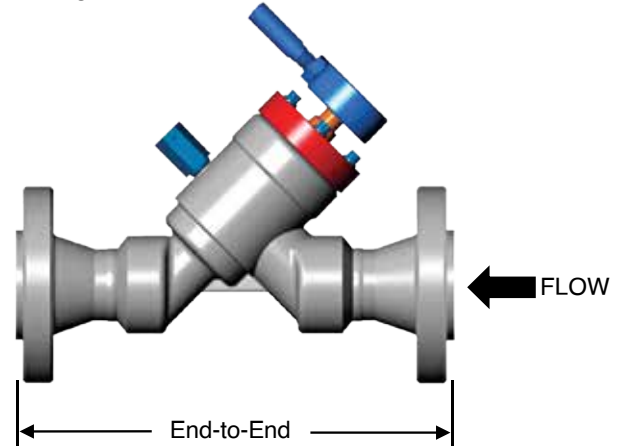
1" & 2" Configurations

316 SS or 1018/1020 CS

¼ Turn Actuated

Body Rating = 5,000 PSI

CV Range= 0.7 – 23.86

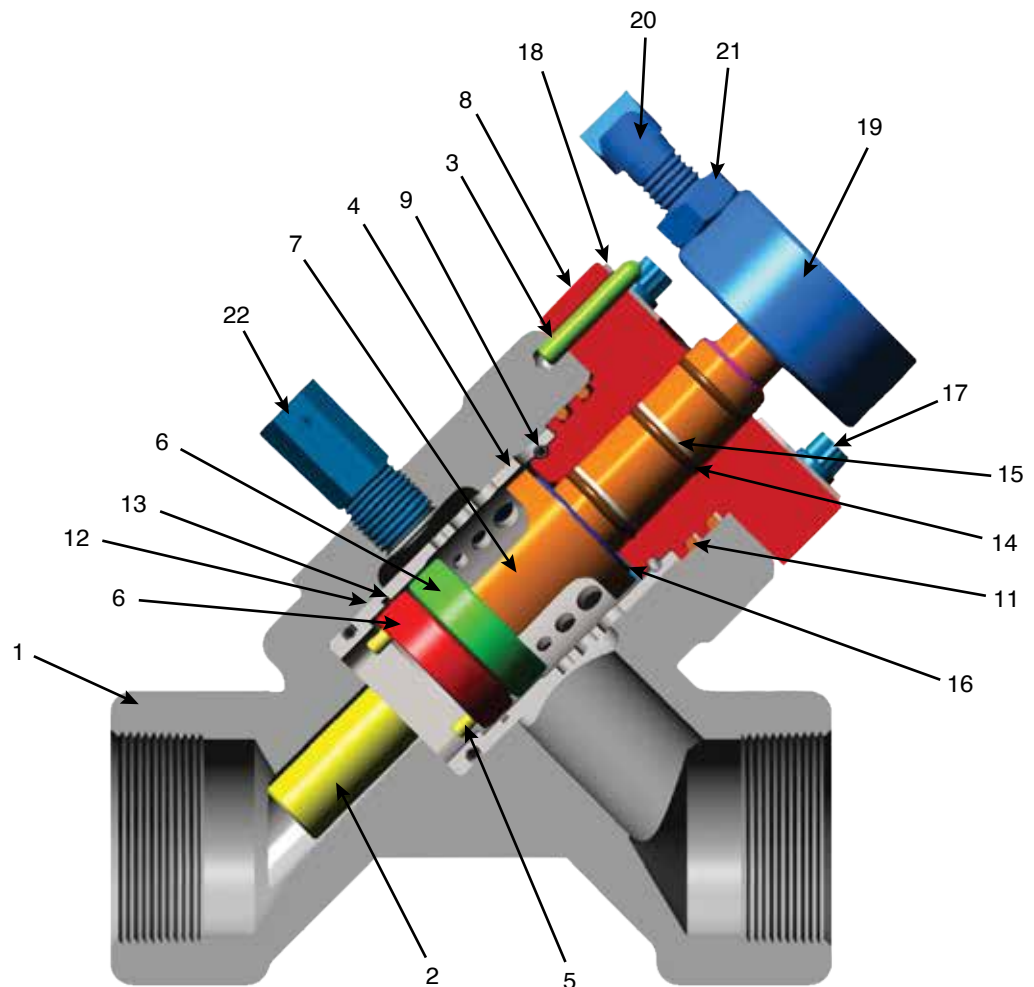


No.	Description	Qty
1	Body	1
2	Wear Sleeve	1
3	Pointer	1
4	Cage	1
5	Dowel Pin	4
6	Disc	2
7	Fork	1
8	Bonnet	1
9	Retainer Wire	1
10**	Dowel Pin	2
11	O-Ring	2
12	O-Ring	1
13	O-Ring	1
14	O-Ring	3
15	Backup Ring	2
16	Thrust Bearing	1
17	Cap Screw	6
18	Index Plate	1
19***	Turning Hub	1
20***	Turning Handle	1
21***	Jam Nut	1
22*	Fitting Vent	1
23**	Screw	2
24**	Data Label	1
25**	Thumb Screw	1

*Item Optional

**Items not shown in section view

***Items not included on actuated version



MDI CHOKE STANDARD DIMENSIONS (IN. +/- .10)			
CONNECTION	SIZE		
	1"	2"	3"
FNPT	8.00	8.00	19.64
BUTT-WELD	8.00	8.00	19.15
150 # RFF	12.56	13.18	18.61
150 # RTJ	12.93	13.55	18.63
300 # RFF	13.06	13.68	19.11
300 # RTJ	13.43	14.18	19.61
600 # RFF	13.56	14.43	20.39
600 # RTJ	13.56	14.56	20.52
900 # RFF	14.43	16.68	20.39
900 # RTJ	14.43	16.81	20.52
1500 # RFF	14.43	16.68	21.89
1500 # RTJ	14.43	16.81	22.02
2500 # RFF	15.68	18.68	-
2500 # RTJ	15.68	18.81	-

MDI Inline Choke

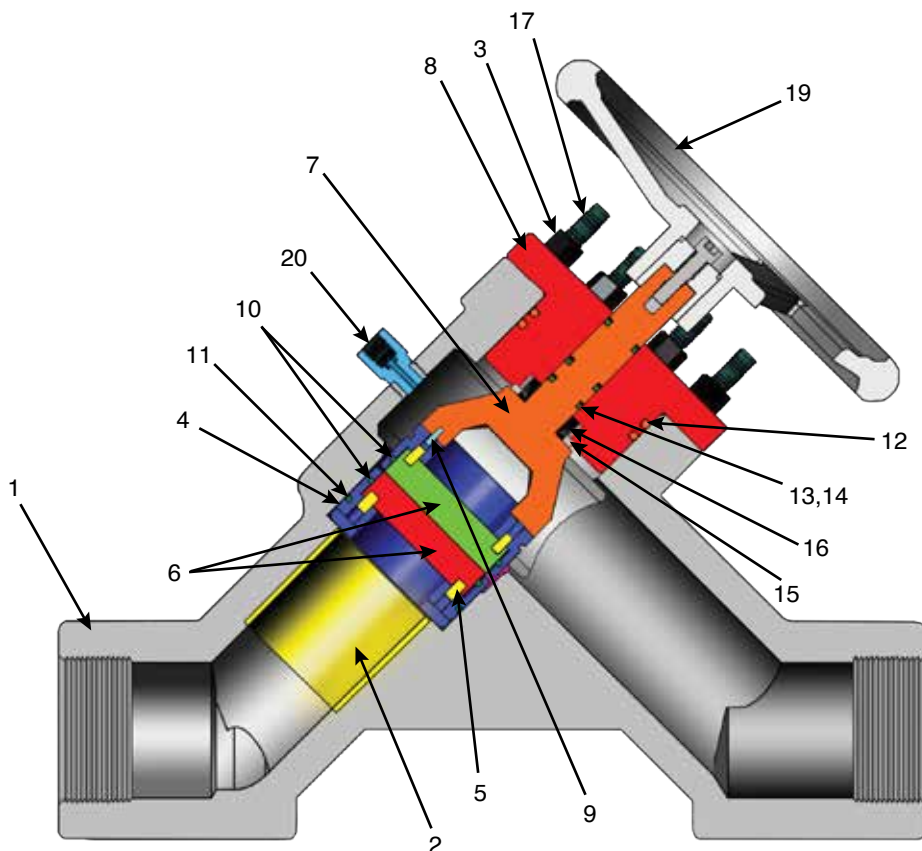
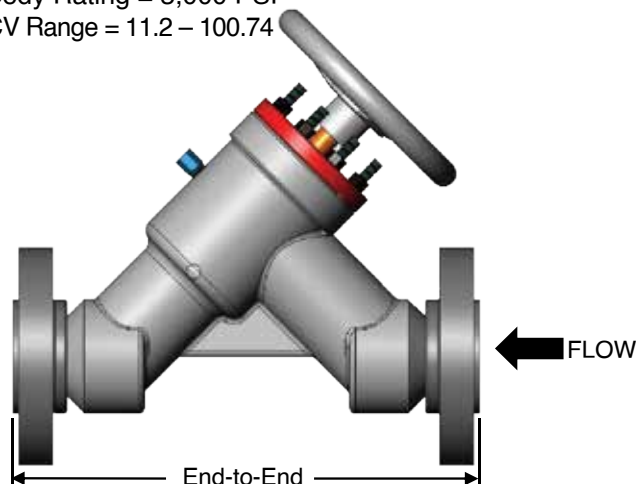
3" Configuration

316 SS

¼ Turn Actuated

Body Rating = 3,000 PSI

CV Range = 11.2 – 100.74



No.	Description	Qty
1	Body	1
2*	Wear Sleeve	1
3	Nut	8
4	Disc Carrier	2
5	Dowel Pin	4
6	Disc	2
7	Fork	1
8	Bonnet	1
9	Dowel Pin	1
10	O-Ring	2
11	O-Ring	1
12	O-Ring	2
13	O-Ring	3
14	BackupRing	3
15	Thrust Bearing	1
16	Wave Spring	1
17	Stud	8
18**	Index Plate	1
19***	Hand Wheel	1
20	Fitting Vent	1
21**	Lock Bracket	1
22**	Screw	2
23**	Data Label	1

*Item Optional

**Items not shown in section view

***Items not included on actuated version

MDIS 1" & 2" Specifications / Cutaway View

MDIS CHOKE STANDARD DIMENSIONS (IN. +/- .10)

CONNECTION	SIZE		
	1"	2"	3"
FNPT	8.00	8.00	19.64
BUTT-WELD	8.00	8.00	19.15
150 # RFF	12.56	13.18	18.61
150 # RTJ	12.93	13.55	18.63
300 # RFF	13.06	13.68	19.11
300 # RTJ	13.43	14.18	19.61
600 # RFF	13.56	14.43	20.39
600 # RTJ	13.56	14.56	20.52
900 # RFF	14.43	16.68	20.39
900 # RTJ	14.43	16.81	20.52
1500 # RFF	14.43	16.68	21.89
1500 # RTJ	14.43	16.81	22.02
2500 # RFF	15.68	18.68	-
2500 # RTJ	15.68	18.81	-

MDIS Inline Choke

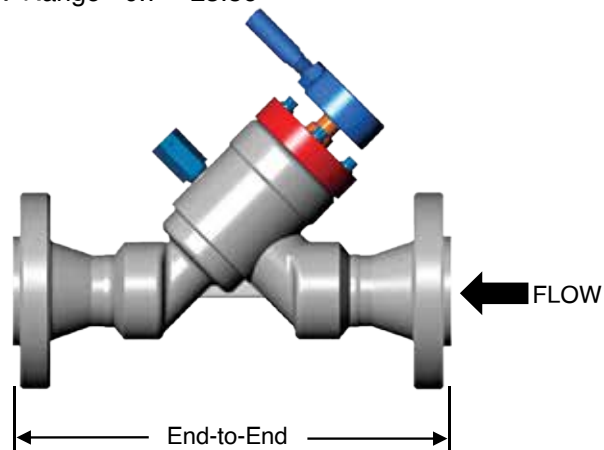
1" & 2" Configurations

316 SS or 1018/1020 CS

¼ Turn Actuated

Body Rating = 5,000 PSI / MAWP 1333 PSI for steam

CV Range= 0.7 – 23.86

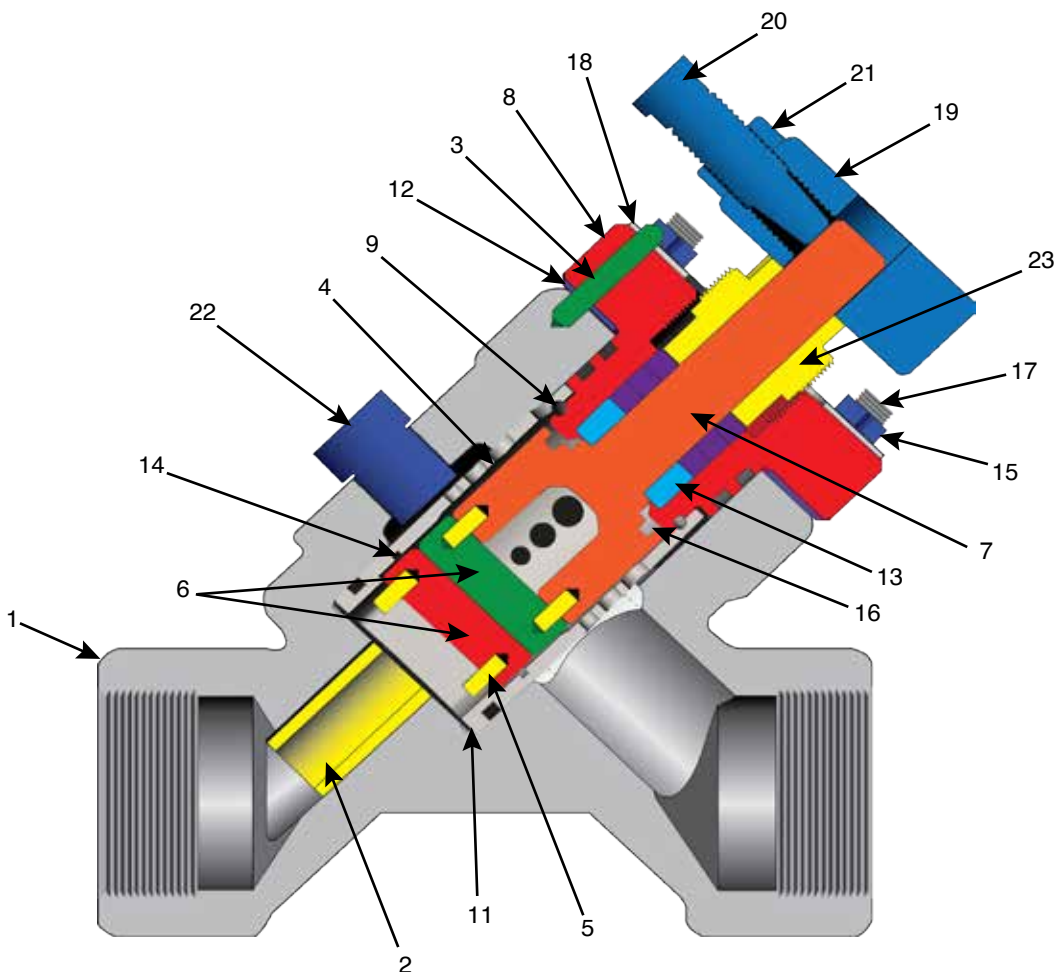


No.	Description	Qty
1	Body	1
2	Wear Sleeve	1
3	Pointer	1
4	Cage	1
5	Dowel Pin	4
6	Disc	2
7	Fork	1
8	Bonnet	1
9	Retainer Wire	1
10**	Dowel Pin	2
11	Crush Seal	1
12	Gasket	1
13	Hi-Temp Packing	1
14	O-Ring	1
15	Nut	6
16	Thrust Bearing	1
17	Stud	6
18	Index Plate	1
19***	Turning Hub	1
20***	Turning Handle	1
21***	Jam Nut	1
22	Pipe Plug	1
23	Hex Gland Nut	1
24**	Screw	2
25**	Data Label	1
26**	Thumb Screw	1

*Item Optional

**Items not shown in section view

***Items not included on actuated version



MDIS CHOKE STANDARD DIMENSIONS (IN. +/- .10)			
CONNECTION	SIZE		
	1"	2"	3"
FNPT	8.00	8.00	19.64
BUTT-WELD	8.00	8.00	19.15
150 # RFF	12.56	13.18	18.61
150 # RTJ	12.93	13.55	18.63
300 # RFF	13.06	13.68	19.11
300 # RTJ	13.43	14.18	19.61
600 # RFF	13.56	14.43	20.39
600 # RTJ	13.56	14.56	20.52
900 # RFF	14.43	16.68	20.39
900 # RTJ	14.43	16.81	20.52
1500 # RFF	14.43	16.68	21.89
1500 # RTJ	14.43	16.81	22.02
2500 # RFF	15.68	18.68	-
2500 # RTJ	15.68	18.81	-

MDIS Inline Choke

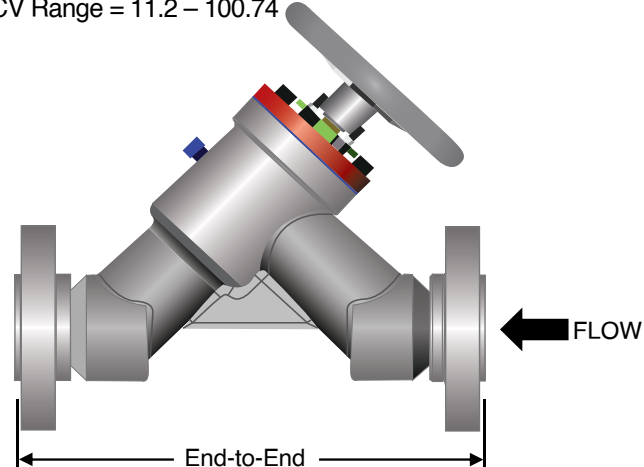
3" Configuration

316 SS

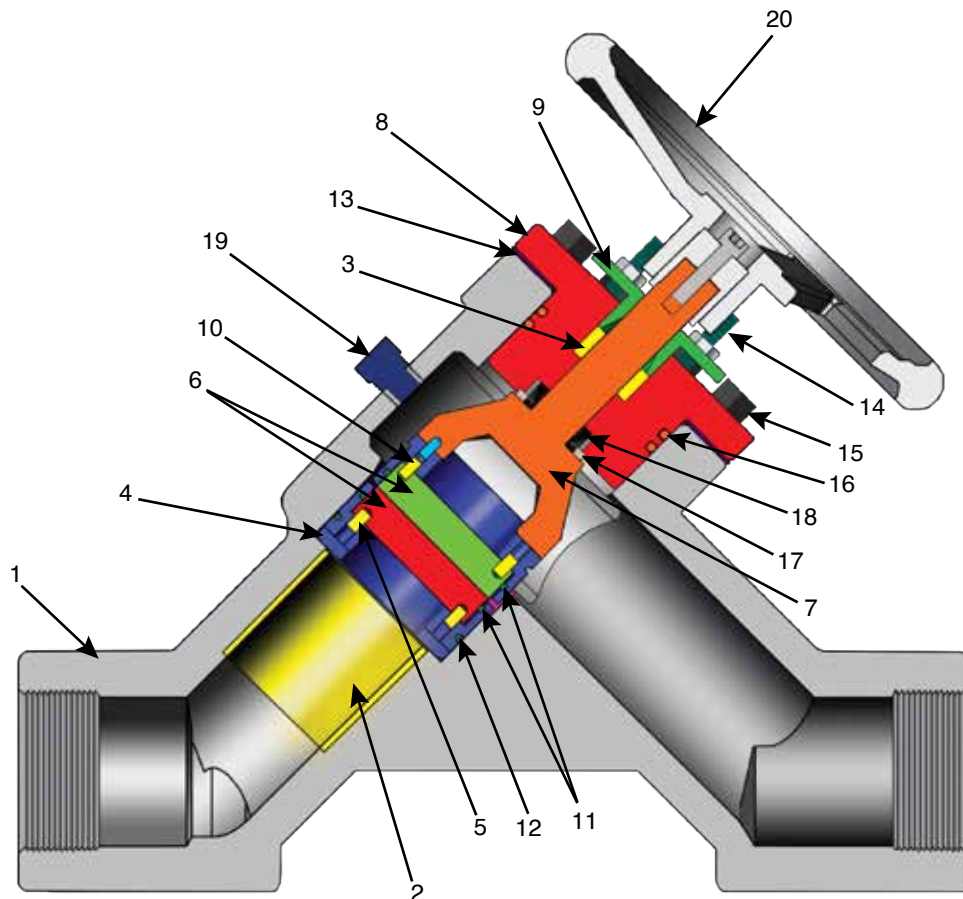
¼ Turn Actuated

Body Rating = 3,000 PSI / MAWP 1333 PSI for steam

CV Range = 11.2 – 100.74



The MDIS Steam valve is designed for high pressure throttling of steam. The multiple orifice system is designed for long life in difficult applications. The standard valve has 1", 2", or 3" female NPT ends, with flanged or special ends readily available. Standard trim is Tungsten Carbide and designed for linear flow characteristics. Manual or electric actuation is standard.



No.	Description	Qty
1	Body	1
2*	Wear Sleeve	1
3	Hi-Temp Packing	1
4	Disc Carrier	2
5	Dowel Pin	4
6	Disc	2
7	Fork	1
8	Bonnet	1
9	Compression Plate	1
10	Dowel Pin	1
11	O-Ring	2
12	O-Ring	1
13	Gasket	1
14	Stud	8
15	Nut	8
16	O-Ring	2
17	Thrust Bearing	1
18	Wave Spring	1
19	Pipe Plug	1
20***	Hand Wheel	1
21**	Screw	2
22**	Data Label	1
23*	Calibration Label	1
24**	Lock Bracket	1

*Item Optional

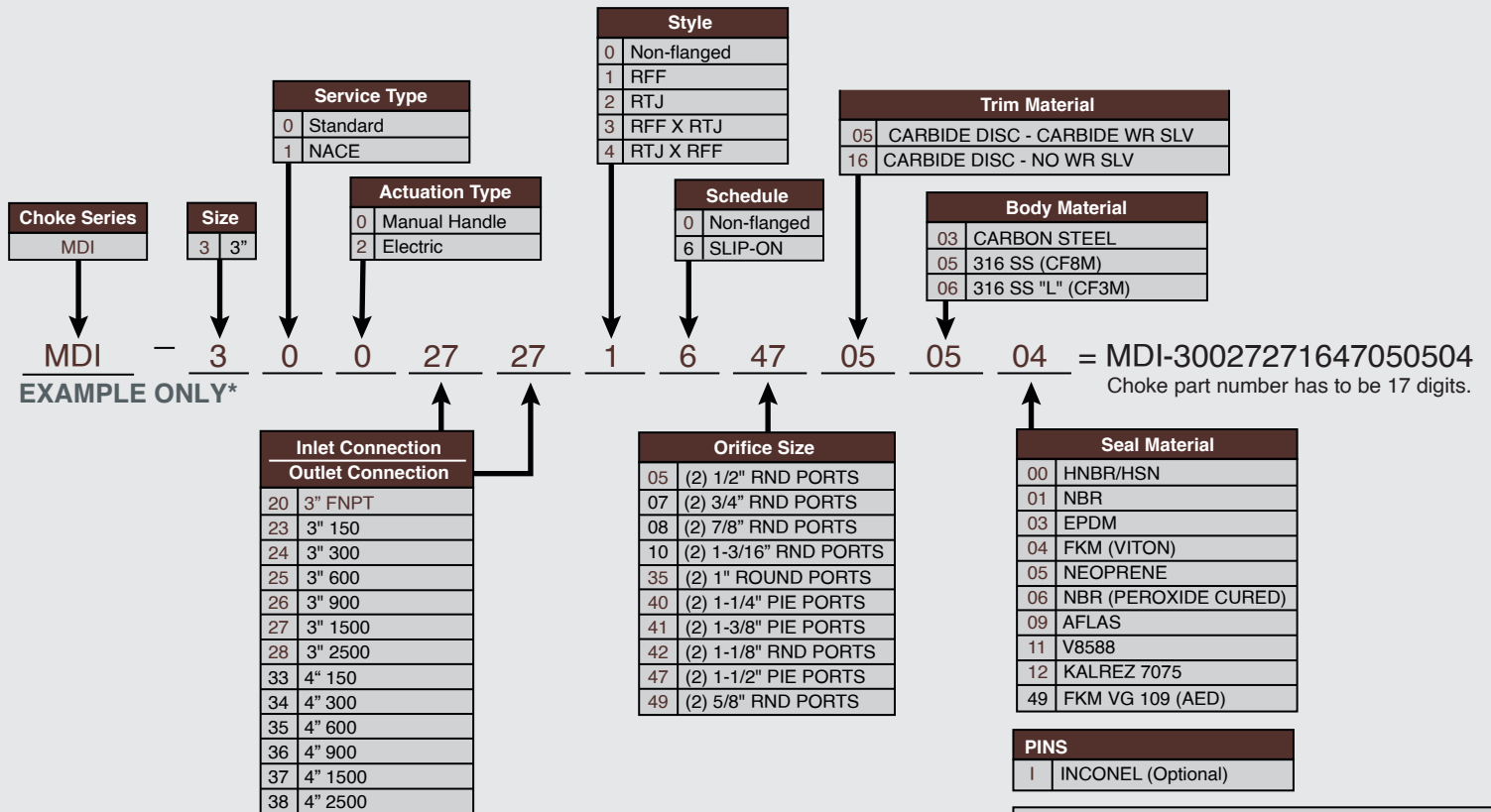
**Items not shown in section view

***Items not included on actuated version

MDI/MDIS Choke Nomenclature

Choke Series	Size	Service Type	Actuation Type	Inlet Connection	Outlet Connection	Style	Schedule	Orifice Size	Trim Material	Body Material	Seal Material	PINS
MDI	1 1"	0 Standard	0 Manual Handle	01 1" FNPT	01 1" FNPT	0 Non-flanged	0 Non-flanged	01 (2) 1/8" RND PORTS	03 CARBIDE DISC - STELLITE WR SLV	00 DUPLEX SS	00 HNBR/HSN	I INCONEL (Optional)
MDIS	2 2"	1 NACE	2 Electric	02 1" BUTT WELD	02 1" BUTT WELD	1 RFF	1 40	02 (2) 3/16" RND PORTS	04 CERAMIC DISC - STELLITE WR SLV	03 CARBON STEEL	01 NBR	
MDI	2 2"	2 Steam/High Temp.	7 Positive Bean	03 1" SOCKET WELD	03 1" SOCKET WELD	2 RTJ	2 80	03 (2) 1/4" RND PORTS	05 CARBIDE DISC - CARBIDE WR SLV	05 316 SS (CF8M)	03 EPDM	
MDIS	2 2"			04 1" 150	04 1" 150	3 RFF X RTJ	3 160	04 (2) 3/8" RND PORTS	16 CARBIDE DISC - NO WR SLV	06 316 SS "L" (CF3M)	04 FKM (VITON)	
MDI	2 2"			05 1" 300	05 1" 300	4 RTJ X RFF	4 API	05 (2) 1/2" RND PORTS	32 CERAMIC DISC/CARBIDE FLOW TUBE	08 A350 LF2	05 NEOPRENE	
MDIS	2 2"			06 1" 600	06 1" 600			06 (2) 5/8" PIE PORTS	47 BEAN 17-4 SS	09 LCC	06 NBR (PEROXIDE CURED)	
MDI	2 2"			07 1" 900/1500	07 1" 900/1500			07 (2) 3/4" PIE PORTS	17 CARBIDE DISCS & DIFFUSER		07 STEAM SEALS	
MDIS	2 2"			08 1" 2500	08 1" 2500			08 (2) 1" RND PORTS	18 CERAMIC DISCS & DIFFUSER		09 AFLAS	
MDI	2 2"			09 1" 3000	09 1" 3000			09 (2) 1 1/8" RND PORTS			11 V8588	
MDIS	2 2"			10 2" FNPT	10 2" FNPT			10 (2) 1 1/4" RND PORTS			12 KALREZ 7075	
MDI	2 2"			11 2" BUTT WELD	11 2" BUTT WELD			11 (2) 1 1/2" RND PORTS			49 FKM VG 109 (AED)	
MDIS	2 2"			12 2" SOCKET WELD	12 2" SOCKET WELD			12 (2) 1 3/4" RND PORTS				
MDI	2 2"			13 2" 150	13 2" 150			13 (2) 2" RND PORTS				
MDIS	2 2"			14 2" 300	14 2" 300			14 (2) 2 1/4" RND PORTS				
MDI	2 2"			15 2" 600	15 2" 600			15 (2) 2 1/2" RND PORTS				
MDIS	2 2"			16 2" 900/1500	16 2" 900/1500			16 (2) 2 3/4" RND PORTS				
MDI	2 2"			17 2" 2500	17 2" 2500			17 (2) 3" RND PORTS				
MDIS	2 2"			18 2" 3000	18 2" 3000			18 (2) 3 1/4" RND PORTS				
MDI	2 2"			19 2" 150	19 2" 150			19 (2) 3 1/2" RND PORTS				
MDIS	2 2"			20 2" 300	20 2" 300			20 (2) 3 3/4" RND PORTS				
MDI	2 2"			21 2" 600	21 2" 600			21 (2) 4" RND PORTS				
MDIS	2 2"			22 2" 900/1500	22 2" 900/1500			22 (2) 4 1/4" RND PORTS				
MDI	2 2"			23 2" 2500	23 2" 2500			23 (2) 4 1/2" RND PORTS				
MDIS	2 2"			24 2" 3000	24 2" 3000			24 (2) 4 3/4" RND PORTS				
MDI	2 2"			25 2" 150	25 2" 150			25 (2) 5" RND PORTS				
MDIS	2 2"			26 2" 300	26 2" 300			26 (2) 5 1/4" RND PORTS				
MDI	2 2"			27 2" 600	27 2" 600			27 (2) 5 1/2" RND PORTS				
MDIS	2 2"			28 2" 900/1500	28 2" 900/1500			28 (2) 5 3/4" RND PORTS				
MDI	2 2"			29 2" 2500	29 2" 2500			29 (2) 6" RND PORTS				
MDIS	2 2"			30 2" 3000	30 2" 3000			30 (2) 6 1/4" RND PORTS				
MDI	2 2"			31 2" 150	31 2" 150			31 (2) 6 1/2" RND PORTS				
MDIS	2 2"			32 2" 300	32 2" 300			32 (2) 6 3/4" RND PORTS				
MDI	2 2"			33 2" 600	33 2" 600			33 (2) 7" RND PORTS				
MDIS	2 2"			34 2" 900/1500	34 2" 900/1500			34 (2) 7 1/4" RND PORTS				
MDI	2 2"			35 2" 2500	35 2" 2500			35 (2) 7 1/2" RND PORTS				
MDIS	2 2"			36 2" 3000	36 2" 3000			36 (2) 7 3/4" RND PORTS				
MDI	2 2"			37 2" 150	37 2" 150			37 (2) 8" RND PORTS				
MDIS	2 2"			38 2" 300	38 2" 300			38 (2) 8 1/4" RND PORTS				
MDI	2 2"			39 2" 600	39 2" 600			39 (2) 8 1/2" RND PORTS				
MDIS	2 2"			40 2" 900/1500	40 2" 900/1500			40 (2) 8 3/4" RND PORTS				
MDI	2 2"			41 2" 2500	41 2" 2500			41 (2) 9" RND PORTS				
MDIS	2 2"			42 2" 3000	42 2" 3000			42 (2) 9 1/4" RND PORTS				
MDI	2 2"			43 2" 150	43 2" 150			43 (2) 9 1/2" RND PORTS				
MDIS	2 2"			44 2" 300	44 2" 300			44 (2) 9 3/4" RND PORTS				
MDI	2 2"			45 2" 600	45 2" 600			45 (2) 10" RND PORTS				
MDIS	2 2"			46 2" 900/1500	46 2" 900/1500			46 (2) 10 1/4" RND PORTS				
MDI	2 2"			47 2" 2500	47 2" 2500			47 (2) 10 1/2" RND PORTS				
MDIS	2 2"			48 2" 3000	48 2" 3000			48 (2) 10 3/4" RND PORTS				
MDI	2 2"			49 2" 150	49 2" 150			49 (2) 11" RND PORTS				
MDIS	2 2"			50 2" 300	50 2" 300			50 (2) 11 1/4" RND PORTS				
MDI	2 2"			51 2" 600	51 2" 600			51 (2) 11 1/2" RND PORTS				
MDIS	2 2"			52 2" 900/1500	52 2" 900/1500			52 (2) 11 3/4" RND PORTS				
MDI	2 2"			53 2" 2500	53 2" 2500			53 (2) 12" RND PORTS				
MDIS	2 2"			54 2" 3000	54 2" 3000			54 (2) 12 1/4" RND PORTS				
MDI	2 2"			55 2" 150	55 2" 150			55 (2) 12 1/2" RND PORTS				
MDIS	2 2"			56 2" 300	56 2" 300			56 (2) 12 3/4" RND PORTS				
MDI	2 2"			57 2" 600	57 2" 600			57 (2) 13" RND PORTS				
MDIS	2 2"			58 2" 900/1500	58 2" 900/1500			58 (2) 13 1/4" RND PORTS				
MDI	2 2"			59 2" 2500	59 2" 2500			59 (2) 13 1/2" RND PORTS				
MDIS	2 2"			60 2" 3000	60 2" 3000			60 (2) 13 3/4" RND PORTS				
MDI	2 2"			61 2" 150	61 2" 150			61 (2) 14" RND PORTS				
MDIS	2 2"			62 2" 300	62 2" 300			62 (2) 14 1/4" RND PORTS				
MDI	2 2"			63 2" 600	63 2" 600			63 (2) 14 1/2" RND PORTS				
MDIS	2 2"			64 2" 900/1500	64 2" 900/1500			64 (2) 14 3/4" RND PORTS				
MDI	2 2"			65 2" 2500	65 2" 2500			65 (2) 15" RND PORTS				
MDIS	2 2"			66 2" 3000	66 2" 3000			66 (2) 15 1/4" RND PORTS				
MDI	2 2"			67 2" 150	67 2" 150			67 (2) 15 1/2" RND PORTS				
MDIS	2 2"			68 2" 300	68 2" 300			68 (2) 15 3/4" RND PORTS				
MDI	2 2"			69 2" 600	69 2" 600			69 (2) 16" RND PORTS				
MDIS	2 2"			70 2" 900/1500	70 2" 900/1500			70 (2) 16 1/4" RND PORTS				
MDI	2 2"			71 2" 2500	71 2" 2500			71 (2) 16 1/2" RND PORTS				
MDIS	2 2"			72 2" 3000	72 2" 3000			72 (2) 16 3/4" RND PORTS				
MDI	2 2"			73 2" 150	73 2" 150			73 (2) 17" RND PORTS				
MDIS	2 2"			74 2" 300	74 2" 300			74 (2) 17 1/4" RND PORTS				
MDI	2 2"			75 2" 600	75 2" 600			75 (2) 17 1/2" RND PORTS				
MDIS	2 2"			76 2" 900/1500	76 2" 900/1500			76 (2) 17 3/4" RND PORTS				
MDI	2 2"			77 2" 2500	77 2" 2500			77 (2) 18" RND PORTS				
MDIS	2 2"			78 2" 3000	78 2" 3000			78 (2) 18 1/4" RND PORTS				
MDI	2 2"			79 2" 150	79 2" 150			79 (2) 18 1/2" RND PORTS				
MDIS	2 2"			80 2" 300	80 2" 300			80 (2) 18 3/4" RND PORTS				
MDI	2 2"			81 2" 600	81 2" 600			81 (2) 19" RND PORTS				
MDIS	2 2"			82 2" 900/1500	82 2" 900/1500			82 (2) 19 1/4" RND PORTS				
MDI	2 2"			83 2" 2500	83 2" 2500			83 (2) 19 1/2" RND PORTS				
MDIS	2 2"			84 2" 3000	84 2" 3000			84 (2) 19 3/4" RND PORTS				
MDI	2 2"			85 2" 150	85 2" 150			85 (2) 20" RND PORTS				
MDIS	2 2"			86 2" 300	86 2" 300			86 (2) 20 1/4" RND PORTS				
MDI	2 2"			87 2" 600	87 2" 600			87 (2) 20 1/2" RND PORTS				
MDIS	2 2"			88 2" 900/1500	88 2" 900/1500			88 (2) 20 3/4" RND PORTS				
MDI	2 2"			89 2" 2500	89 2" 2500			89 (2) 21" RND PORTS				
MDIS	2 2"			90 2" 3000	90 2" 3000			90 (2) 21 1/4" RND PORTS				
MDI	2 2"			91 2" 150	91 2" 150			91 (2) 21 1/2" RND PORTS				
MDIS	2 2"			92 2" 300	92 2" 300			92 (2) 21 3/4" RND PORTS				
MDI	2 2"			93 2" 600	93 2" 600			93 (2) 22" RND PORTS				
MDIS	2 2"			94 2" 900/1500	94 2" 900/1500			94 (2) 22 1/4" RND PORTS				
MDI	2 2"			95 2" 2500	95 2" 2500			95 (2) 22 1/2" RND PORTS				
MDIS	2 2"			96 2" 3000	96 2" 3000			96 (2) 22 3/4" RND PORTS				
MDI	2 2"			97 2" 150	97 2" 150			97 (2) 23" RND PORTS				
MDIS	2 2"			98 2" 300	98 2" 300			98 (2) 23 1/4" RND PORTS				
MDI	2 2"			99 2" 600	99 2" 600			99 (2) 23 1/2" RND PORTS				
MDIS	2 2"			100 2" 900/1500	100 2" 900/1500			100 (2) 23 3/4" RND PORTS				
MDI	2 2"			101 2" 2500	101 2" 2500			101 (2) 2				

3" MDI Choke Nomenclature



*For more options, contact Taylor Valve.

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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