

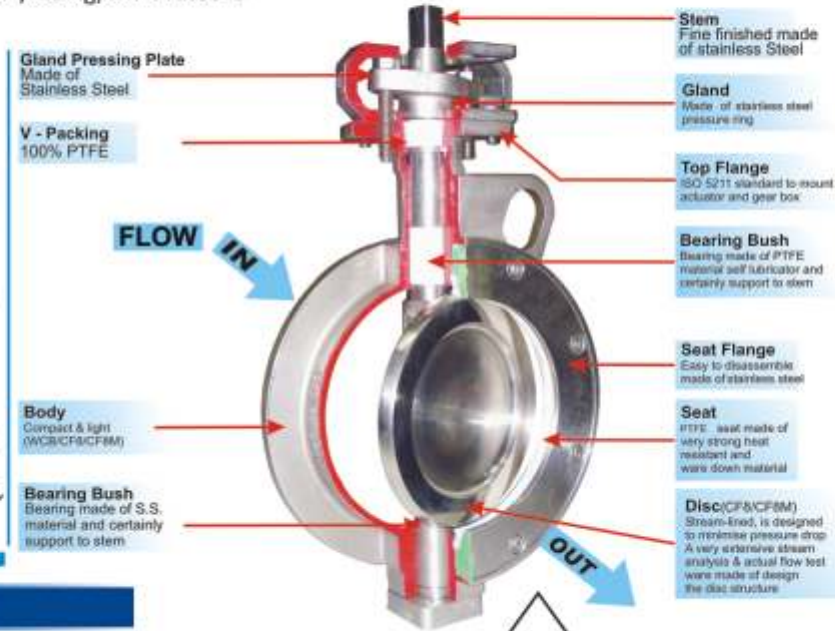
Precise & Strong Durable to 240 °C / 600 °C Temperature and  
10 Kg/cm<sup>2</sup> / 20 Kg/cm<sup>2</sup> Pressure

**5 Special Effects**

- Compact Design - Full Port - Offers Mass Flow
- Simple Structure, Light & Smooth - Takes Very Short Time For Opening & Closing With Very Low Torque
- Easy Maintenance - Replaceable Seals Design
- Self Sealing - Self Cleaning The Under Cut Disc Segment And Seal Tends To Wipe Away The Material Form The Sealing Area,
- Gland Pressing Plate - Ensure Complete Utilization of Gland Seals

**Application**

Hygienic Powder & Slurries, especially in Pharmaceutical Industries.  
Chemical and Dyeing Fluids in Textile Processing  
Brine Waters & Oils.  
Steam Lines, Air / Gas Lines / Vacuum.



**609 - 0055**

AVAILABLE REPLACEABLE SEALS

- NBR (90 °C)
- GRAPHITE (395 °C)
- METAL (600 °C)
- VITON (230 °C)
- EPDM (120 °)
- PTFE GFT (180 °)
- (80 °) IMPORTED PLASTICS

*Spherical Disc Valve has been Proved as Superior to Other Valves in Many Aspects, Particularly in...*

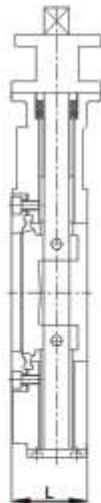
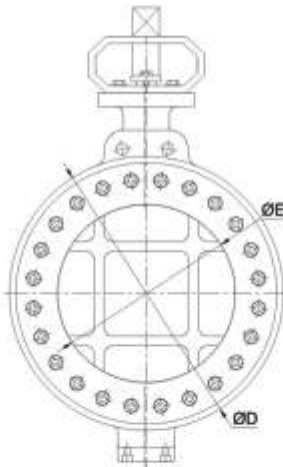
- Weight
- Space
- Pressure Range
- Multiple Operations
- Maintenance Ease
- Torque & Economy

Spherical Disc Valve	Technical Specifications :
Size Range	1.1/2" to 36"
Construction Type	Double Eccentric Disc Design
Body	WCB / CF8 / CF8M
Disc	CF8 / CF8M
Seat	PTFE (available EPDM / Metal to Metal )
Shaft	AISI 410 / 304 / 316
Plate Mounting	Namur Standard
Pressure Rating	ANSI 150 Class
End Connection	ANSI 300 / 600 Class
	Wafer Sandwiched Lug Type
Operating Temp. Range	-25 °C to 180 °C (Soft Seating)
	-25 °C to 600 °C (Metal to Metal Seating)
Operating	Hand Lever, Worm Gear Box,

CV Value in GPM		
Valve Size		CV Full Open 90° (GPM) Class 150
MM	Inch	
(40)	1.1/2"	70
(50)	2"	92
(65)	2.1/2"	150
(80)	3"	260
(100)	4"	460
(125)	5"	760
(150)	6"	1350
(200)	8"	2200
(250)	10"	3200
(300)	12"	4700
(350)	14"	5800
(400)	16"	8000
(450)	18"	10500
(500)	20"	14000
(600)	24"	21000
(650)	26"	23400
(700)	28"	27000
(750)	30"	33300
(800)	32"	40200
(900)	36"	56500

CV Value in GPM					
Valve Size		Differential Pressure (AP)			
MM	Inch	5 Kg/cm <sup>2</sup>	10 Kg/cm <sup>2</sup>	15 Kg/cm <sup>2</sup>	20 Kg/cm <sup>2</sup>
(40)	1.1/2"	0.8	1.0	1.2	1.5
(50)	2"	0.9	1.2	1.5	1.7
(65)	2.1/2"	1.6	2.2	2.4	3.0
(80)	3"	3.0	3.4	4.2	5.0
(100)	4"	4.0	4.6	5.4	6.4
(125)	5"	5.8	8.0	9.5	11.5
(150)	6"	9.0	11.5	12.5	14.5
(200)	8"	14.0	17.5	24.0	28.0
(250)	10"	23.5	26.5	28.0	30.0
(300)	12"	32.0	36.0	40.0	50.0
(350)	14"	50.0	65.0	83.5	108.5
(400)	16"	69.4	94.5	120.0	160.0
(450)	18"	95.5	128.0	157.2	205.0
(500)	20"	122.5	193.3	210.0	293.4
(600)	24"	213.3	293.4	366.7	440.1
(650)	26"	265	350	400	510
(700)	28"	300	395	480	595
(750)	30"	321	420	519	617
(800)	32"	481	630	780	920
(900)	36"	518	663	850	992

Standards	Series S150 (40 NB To 600 NB)	Series G150 ( 650 NB To 1200 NB)
Design and manufacturing	API 609 Category B	MSS SP - 68
Valve face to face dimensions	API 609 Category B / ANSI B 16.10	ISO 5752 Series 20, MSS SP - 68
Flange Standard conformity	ANSI B 16.5 Class 150	ASME / ANSI B 16.47 Series 'A'
Inspection & testing Standard	API 598 / ANSI FCI 70 - 2	API 598 / BS 6755
Fire safe testing	API 607	API 607
Pressure temperature rating	ASME / ANSI B 16.34	ASME / ANSI B 16.34



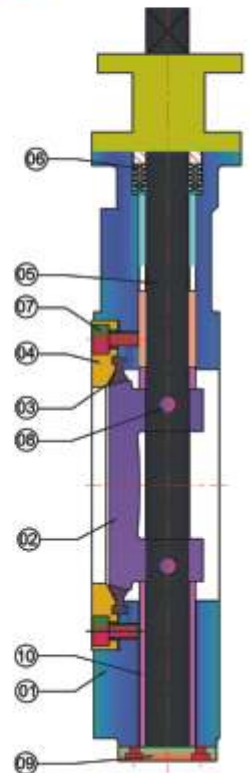
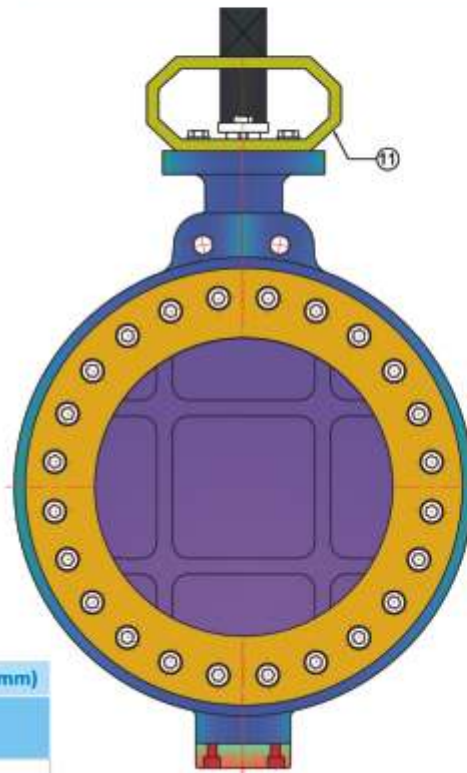
Size Range : 1.1/2" to 24"

Standard

Design And Manufacturing : API 609 Category "B"  
Valve Face to Face Dimensions : API 609 Category "B"  
Flange Standard Conformity : ASME / ANSI B 16.5 Class 300  
Inspection & Testing : API 598

Pressure / Temperature Rating

Pressure : 300# Pressure Rating  
Temperature : 180 °C  
Seat Pressure : 57 Kg/cm<sup>2</sup>  
Shell Pressure : 79 Kg/cm<sup>2</sup>



Dimensions : 300# (All Dimensions are in mm)

Valve Model	Valve Size		L	ØD	ØE
	MM	Inch			
4MSDV-3-40	40	1.1/2"	42	88	38
4MSDV-3-50	50	2"	45	101	50.8
4MSDV-3-65	65	2.1/2"	48	108.5	60.6
4MSDV-3-80	80	3"	48	127	72
4MSDV-3-100	100	4"	54	159	100
4MSDV-3-125	125	5"	59	187	123
4MSDV-3-150	150	6"	59	219	143.2
4MSDV-3-200	200	8"	64	270	192
4MSDV-3-250	250	10"	87	340	239.2
4MSDV-3-300	300	12"	92	394	290
4MSDV-3-350	350	14"	117	436	335
4MSDV-3-400	400	16"	133	500	387.5
4MSDV-3-450	450	18"	149	540	425
4MSDV-3-500	500	20"	159	595	475
4MSDV-3-600	600	24"	181	705	560

No.	Description	Material
1	Body	ASTM A 216 Gr. WCB A 351 Gr. CF8 / CF8M
2	Disc	ASTM A 351 Gr. CF8 / CF8M
3	Replaceable Seat	PTFE / GFT
4	Retainer	M.S. / S.S. 304 / 316
5	Shaft	S.S. 410 / S.S. 304 / 316
6	Gland Packing	PTFE / GFT
7	Retainer Bolt	S.S.
8	Disc Pin	S.S. 304 / 316
9	Steam Plate	M.S. / S.S. 304 / 316
10	Shaft Bush	M.S. / S.S. 304 / 316
11	Bracket	M.S.