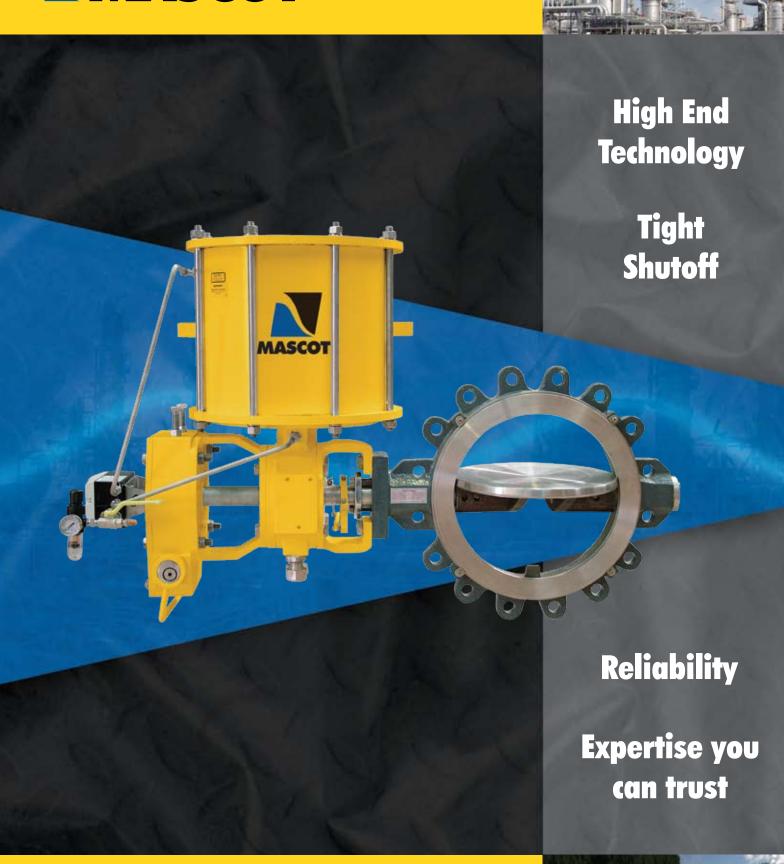
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DISKFLO Butterfly Valves

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DISKFLO

Design Features

- Heavy duty industrial design
- High Cv capacity
- Eccentric cammed disk
- Double offset design
- Low break out torque
- Metal seat class IV shutoff
- Soft seat class VI shutoff
- High torque actuator
- Wide range of alloys
- Pressure ratings up to ANSI CL1500

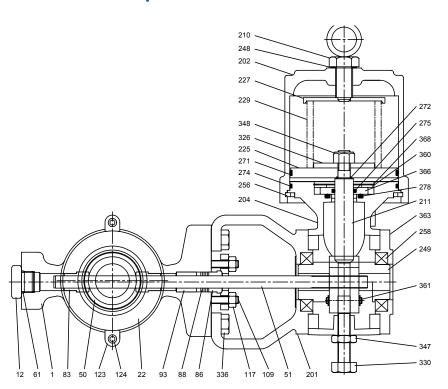
Quality Assurance

- ISO 9001
- Hydrostatic test to ASME B16.34
- Seat leak test to ASME / FCI 70-2

Ease of Maintenance

- Minimal spare parts requirements
- High degree of interchangeability between valve sizes and pressure ratings
- Actuators are field reversible from fail closed to open and vice versa
- 3 actuator sizes typically cover 95% of all actuator requirements for both fail open and fail closed

Body Type:	Wafer, light in weight, provides maximum flow and minimum pressure drop
Size:	2.0" To 48.0"
Pressure Class:	Up to ANSI CL 1500
Body Material:	All castable alloys
End Connections:	Wafer, lugged, flanged
Gland Packing:	PTFE, braided PTFE, grafoil
Seat Ring:	Clamped-in, self aligned,
Disc:	Double eccentric cammed
Shaft:	Splined no lost motion or dead band
Characteristics:	Equal percentage, linear and on-off
Actuator:	Rotary spring cylinder; fully field reversible
Positioner:	High performance analogue and digital



1	Body	211	Actuator Stem
22	Seat Retainer	225	Piston
50	Disk	227	Spring Button
51	Shaft	229	Spring
61	Adapter O Ring	248	Gasket Adjusting Screw
83	Bearing Stem	249	Lever Arm
86	Follower Packing	256	Retaining Ring Cylinder
88	Packing Set	258	Bearing Lever Arm
93	Packing Spacer	271	Piston O Ring
109	Packing Box Stud	272	Piston Stem O-Ring
117	Packing Box Nut	274	Cylinder O Ring
122	Plug Hex Head	275	Actuator Stem Locknut
123	Clip	360	Sliding Seal Top Clamp
124	Bolt	361	Pivot Pin
201	Yoke	363	Cover Plate
202	Cylinder	366	Sliding Seal Coller
204	Transfer Case	368	Spiral Retaining Ring
210	Adjusting screw		



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Page 4

DISKFLO - Extended Temperature Service

Design Features

- Heavy duty industrial design
- Extended bonnet
- High Cv capacity
- Eccentric cammed disk
- Double offset design
- High torque actuator

Quality Assurance

- ISO 9001
- Hydrostatic test to ASME B16.34
- Seat Leak test to ASME / FCI 70-2

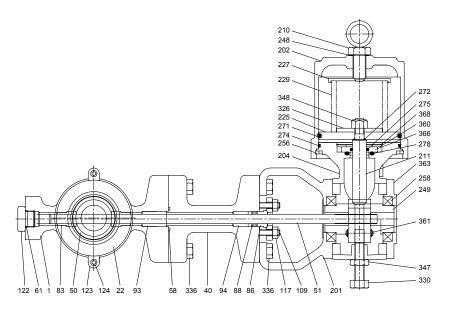
Ease of Maintenance

- Minimal spare parts requirements
- High degree of interchangeability between pressure ratings
- Actuators are field reversible from fail closed to open and vice versa
- 3 actuator sizes typically cover 95% of all actuator requirements for both fail open and fail closed

Temperature Range:	-253 to 427°C*
Size:	2.0" to 48.0"
Pressure Class:	ANSI CL150 to ANSI CL600
Body Material:	316SS
Disk Material:	316SS, Alloy 6
Seat Material:	PTFE, Kel F, 316SS
Shut Off Class:	Class IV and Class VI
Characteristics:	Equal Percentage, Linear
Air Pressure:	2.0 To 10.0 Bar
Gland Packing:	PTFE, Braided PTFE, Grafoil
Actuator:	Pneumatic Spring Cylinder / Electric
Positioner:	High Performance Analogue & Digital

^{*}Consult Mascot Industrial for applications above 427°C.

Extended Temperature Service



Item No.	Part Name	225	Piston	
nem No.			Spring Button	
1	Body	229	Spring	
22	Seat Retainer	248	Gasket, Adjusting Screw	
40	Extended Bonnet	249	Lever Arm	
50	Disk	256	Retaning Ring, Cylinder	
51	Shaft	258	Bearing, Lever Arm	
58	Bonnet Gasket	271	Piston O-ring	
61	Adapter O-ring	272	Piston Stem O-ring	
83	Bearing, Stem	274	Cylinder O-ring	
86	Follower Packing	275	Actuator Stem O-ring	
88	Packing Set	278	Base Slider O-ring	
93/94	Packing Spacer	326	Spring Guide	
109	Packing Box Stud	330	Stroke Stop Bolt	
117	Packing Box Nut	336	Yoke Bolt	
122	Plug, Hex. Head	347	Stroke Stop Jam Nut	
123	Clip	348	Actuator Stem Locknut	
124	Bolt	360	Sliding Seal Top Clamp	
201	Yoke	361	Pivot Pin	
202	Cylinder	363	Cover Plate	
204	Transfer Case	366	Sliding Seal Coller	
210	Adjusting Screw	368	Spiral Retaining Ring	
211	Actuator Stem			

Application:

- Acetylene
- Butane
- Ethylene
- Liquid Natural Gas (LNG) Gas Receiving Terminal
- Liquid Oxygen
- Liquid Propane Gas
- Gas Production
- Gas Transmission
- Gas Transport



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DISKFLO Cryogenic Service

Design Features

- Heavy duty industrial design
- Cryogenic extension bonnet
- High Cv capacity
- Eccentric cammed disk
- Double offset design
- High torque actuator

Quality Assurance

- ISO 9001
- Hydrostatic test to ASME B16.34
- Seat leak test to ASME / FCI 70-2

Ease of Maintenance

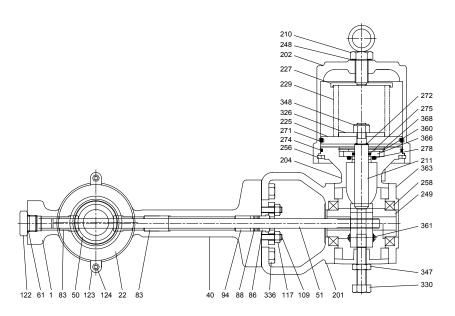
- Minimal spare parts requirements
- High degree of interchangeability between pressure ratings
- Actuators are field reversible from fail closed to open and vice versa
- 3 Actuator Sizes typically cover 95% of all actuator requirements for both fail open and fail closed

Application

- Gas Production
- Gas Receiving Terminal
- Gas Transmission
- Gas Transport
- Acetylene
- Butane
- Ethylene
- Liquid Natural Gas (LNG)
- Liquid Oxygen
- Liquid Propane Gas

Temperature Range:	-253 Deg C to 100 Deg C
Size:	2.0" to 48"
Pressure Class:	ANSI CL150 to ANSI CL600
Body Material:	316SS
Disk Material:	316SS, Alloy 6
Seat Material:	PTFE, Kel F, 316SS
Shut Off Class:	Class IV and Class VI
Characteristics:	Equal Percentage, Linear
Air Pressure:	2.0 To 10.0 Bar
Gland Packing:	PTFE, Braided PTFE, Grafoil
Gaskets:	PTFE, Grafoil
Actuator:	Pneumatic Spring Cylinder / Electric
Positioner:	High Performance Analogue & Digital

Cryogenic Service Wafer Body



		225	Piston	
Item No.	Part Name	227	Spring Button	
1	Body	229	Spring	
22	Seat Retainer	248	Gasket, Adjusting Screw	
40	Extended Bonnet	249	Lever Arm	
50	Disk	256	Retaning Ring, Cylinder	
51	Shaft	258	Bearing, Lever Arm	
61	Adapter O-ring	271	Piston O-ring	
83	Bearing, Stem	272	Piston Stem O-ring	
86	Follower Packing	274	Cylinder O-ring	
88	Packing Set	275	Actuator Stem O-ring	
94	Packing Spacer	278	Base Slider O-ring	
109	Packing Box Stud	326	Spring Guide	
117	Packing Box Nut	330	Stroke Stop Bolt	
122	Plug, Hex. Head	347	Stroke Stop Jam Nut	
123	Clip	348	Actuator Stem Locknut	
124	Bolt	360	Sliding Seal Top Clamp	
201	Yoke	361	Pivot Pin	
202	Cylinder	363	Cover Plate	
204	Transfer Case	366	Sliding Seal Coller	
210	Adjusting Screw	368	Spiral Retaining Ring	
211	Actuator Stem			



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DISKFLO Cryogenic Service

Design Features

- Heavy duty industrial design
- Cryogenic extension bonnet
- High Cv capacity
- Eccentric cammed disk
- Double offset design
- High torque actuator

Quality Assurance

- ISO 9001
- Hydrostatic test to ASME B16.34
- Seat leak test to ASME / FCI 70-2

Ease of Maintenance

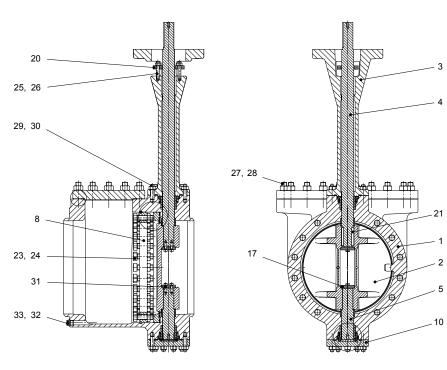
- Minimal spare parts requirements
- High degree of interchangeability between pressure ratings
- Actuators are field reversible from fail closed to open and vice versa
- 3 Actuator Sizes typically cover 95% of all actuator requirements for both fail open and fail closed

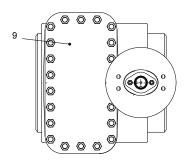
Application

- Gas Production
- Gas Receiving Terminal
- Gas Transmission
- Gas Transport
- Acetylene
- Butane
- Ethylene
- Liquid Natural Gas (LNG)
- Liquid Oxygen
- Liquid Propane Gas

Temperature Range:	-253 Deg C to 100 Deg C
Size:	8.0" to 48"
Pressure Class:	ANSI CL150 to ANSI CL600
Body Material:	316SS
Disk Material:	316SS, Alloy 6
Seat Material:	PTFE, Kel F, 316SS
Shut Off Class:	Class IV and Class VI
Characteristics:	Equal Percentage, Linear
Air Pressure:	2.0 To 10.0 Bar
Gland Packing:	PTFE, Braided PTFE, Grafoil
Gaskets:	PTFE, Grafoil
Actuator:	Pneumatic Spring Cylinder / Electric
Positioner:	High Performance Analogue & Digital

Cryogenic Service





Item No	Part Name	21	KEY
nem No.	item No. Fart Name		HEX JAM NUT
1	BODY	24	BOLT HEX HEAD
2	DISK	25	HEX NUT
3	BONET CRYOGENIC FLANGE	26	STUD BOLT
4	SHAFT	27	HEX NUT
5	POST	28	STUD BOLT
8	RETAINING RING	29	HEX NUT
9	INSPECTION COVER	30	STUD BOLT
10	BOTTOM COVER	31	BOLT HEX HEAD
17	WASHER PLATE	32	HEXAGON HEAD SCREW PLUG
20	GLAND FLANGE	33	GASKET



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DISKFLO – High Pressure Service (CL900 – CL2500)

Design Features

- Heavy duty industrial design
- High Cv capacity
- Eccentric cammed disk
- Double offset design
- Low break out torque
- Metal seat class IV shutoff
- Soft seat class VI shutoff
- High torque actuator
- Wide range of alloys
- Pressure ratings ANSI CL900 to ANSI CL2500

Quality Assurance

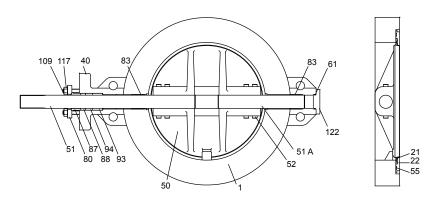
- ISO 9001
- Hydrostatic test to ASME B16.34
- Seat leak test to ASME / FCI 70-2

Ease of Maintenance

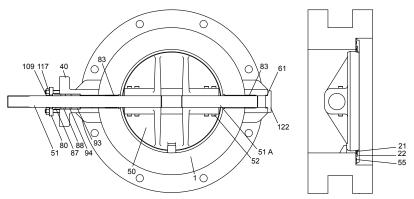
- Minimal spare parts requirements
- High degree of interchangeability between valve sizes and pressure ratings
- Actuators are field reversible from fail closed to open and vice versa
- 3 actuator sizes typically cover 95% of all actuator requirements for both fail open and fail closed

Pressure Class: ANSI CL900 to ANSI CL2500 Body Material: All castable alloys End Connections: Wafer, lugged, flanged Gland Packing: PTFE, braided PTFE, grafoil Seat Ring: Clamped-in, self aligned, Disc: Double eccentric cammed
End Connections: Wafer, lugged, flanged Gland Packing: PTFE, braided PTFE, grafoil Seat Ring: Clamped-in, self aligned,
Gland Packing: PTFE, braided PTFE, grafoil Seat Ring: Clamped-in, self aligned,
Seat Ring: Clamped-in, self aligned,
Disc: Double eccentric cammed
Shaft: Splined no lost motion or dead band
Characteristics: Equal percentage, linear and on-off
Actuator: Rotary spring cylinder; fully field reversible
Positioner: High performance analogue and digital

Wafer End Connection



Flanged End Connection



1	BODY	80	GLAND FLANGE
21	SOFT SEAT	83	BEARING
22	SEAT RETAINER	87	FOLLOWER PACKING
40	BONNET	88	PACKING SET, STD. VEE
50	DISK	93	PACKING SPACER
51	SHAFT EXTD.	94	PACKING SPACER
51 A	POST	109	PACKING BOX STUD
52	PIN	117	PACKING BOX NUT
55	GASKET, SEAT RING	122	END PLATE
61	O-RING		

	High Pressure Butterfly Valves				
		Face to face din	nension		
	Wafer/Lugged Bodies		Flanged Bodies		
	CL900 / CL1500	CL2500	CL900 / CL1500	CL2500	
4"	2.88"	3.25"	9.81"	12.19"	
6"	3.25"	3.88"	12.19"	15.62"	
8"	3.62"	4.62"	13.62"	17.25"	
10"	4.62"	5.50"	15.62"	21.19"	
12"	5.25"	6.38"	17.62"	23.88"	
14"	5.88"	7.00"	18.62"		
16"	6.38"	7.81"	20.25"		





GFLO

High Performance Single Seated Globe Control Valve

Body type: 2way, 3way, angle & jacketed

Size: 0.5" to 30.0"

Pressure Class: ... Up to ANSI CL 4500

Body Material: ... All castable alloys

End Connections: . Flanged, screwed, butt and socket welded Bonnet: Standard, extended, cryogenic & bellow sealed

Guiding: Heavy duty double top stem

Gland Packing: . . . PTFE, braided PTFE, grafoil, low fugitive emission

Gaskets: PTFE, spiral grafoil
Seat Ring: Clamped-in, self aligned

Plug: Solid one piece construction with large stem diameter

Characteristics: . . Equal percentage, linear and on-off Special Trims: CAVFLO, MEGAFLO, GFLO VC

Actuator: Linear spring cylinder, fully field reversible

Shut off class: With metal seat - ANSI IV or V and replaceable soft seat - ANSI VI



VFLO

High Performance V-Ball Control Valve

Body type: One-Piece VFLO Ball, straight-through

End Connections: Flangeless, flanged (integral and separable flange)

Gland Packing: . . . PTFE, braided PTFE, grafoil

Seat Ring: Clamped-in, self aligned, bi-directional

Ball: Segmented V-notch ball, reduces clogging, shearing action fibrous fluids

Shaft: Splined-No lost motion or dead band Characteristics: . . Equal percentage, linear and on-off

Rangeability: 300:1

Actuator: Rotary spring cylinder, fully field reversible

Shut off class: With metal seat - ANSI IV and replaceable soft seat - ANSI VI



DISKFLO

High Performance Wafer style Butterfly Control Valve

Body type: Wafer, light in weight, provides large flow and minimum pressure drop

Shaft: Splined no lost motion or dead band Characteristics: . . Equal percentage, linear and on-off Actuator: Rotary spring cylinder, fully field reversible

Shut off class: With metal seat - ANSI IV and replaceable soft seat - ANSI VI



SEVERE SERVICE

Cavitation, Noise Abatement, Velocity Control Trim

Applications

- Anti-cavitation trims
- Noise attenuation trims
- Multistage "velocity control" anti-cavitation
- Trims for liquid applications
- Multistage "velocity control" noise attenuating trims
- Choke applications

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