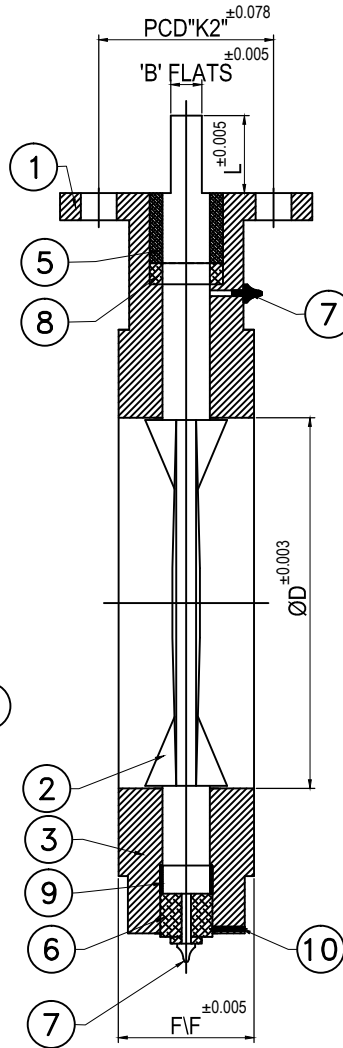
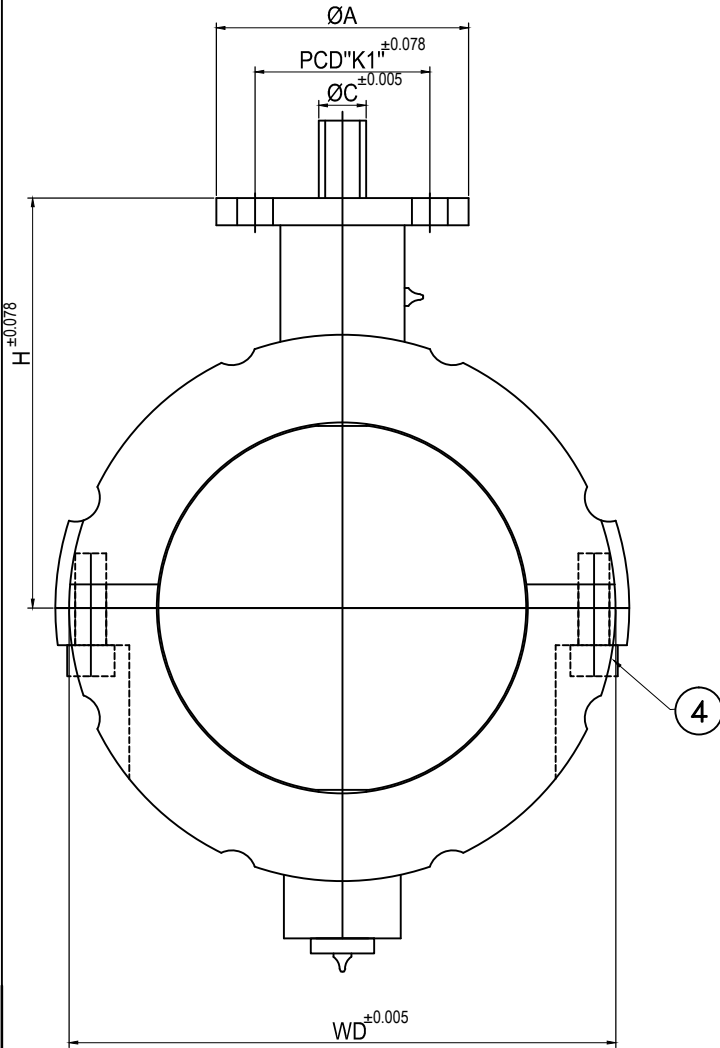
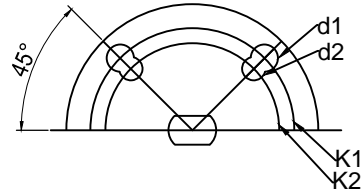


Mineral Processing MP FLYASH VALVES

Compaction Sealed Butterfly Valves: 4"-12"



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ALL DIMENSIONS ARE IN INCH UNLESS OTHERWISE SPECIFIED

SR. NO.	SIZE	ØD	ØA	F/F	H	ØC	PCD "K1"	PCD "K2"	'B' FLATS	d1	d2	L	WD
01	100NB	4.21	4.0	2.0	6.0	0.563	3.25	2.76	0.375	0.43	0.37	1.25	6.88

SIZE	VALVE BODY ID 4.21" = 106.93 ^{+0.00} _{-0.10} MM
4"	VALVE DISC OD 4.17" = 105.92 ^{+0.10} _{-0.00} MM

* NOTE: Cv VALVE IS 975 gpm

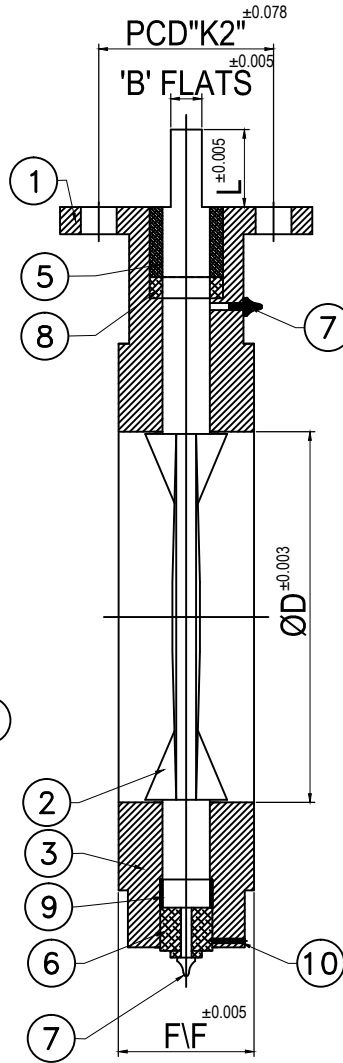
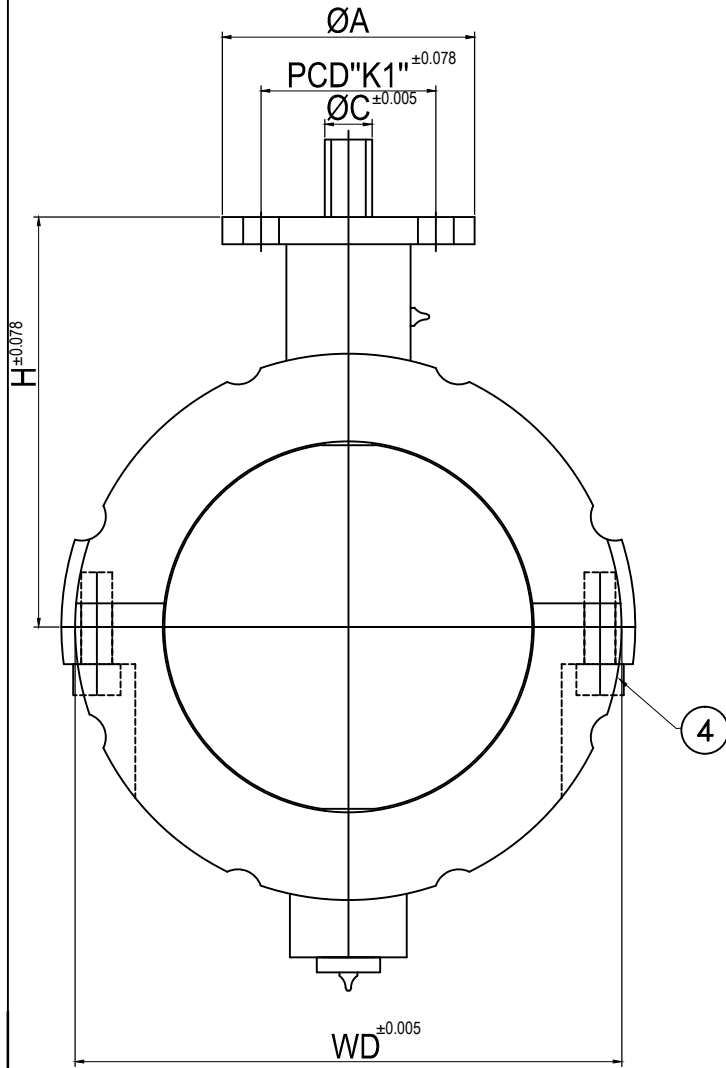
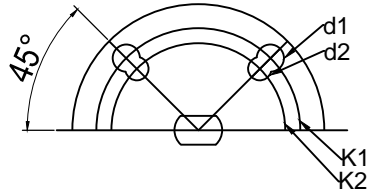
* LITHIUM GREASE IS USE & ITS TEMPERATURE RANGE IS 190°C TO 220° C.(370°F TO 430°F)

10	Set Screw	MS	1
9	Lower Bushing	ALUMINIUM BRONZE	1
8	STEM SEAL	VITON	1
7	GREASE NIPPLE	MS	2
6	Alignment Plug	MS	1
5	BUSH	NYLON	1
4	BOLT	ASTM A193 GR B7/194 GR 2H	2
3	BODY PART 2	ASTM A 216 Gr. WCB	1
2	DISC & STEM (SINGLE PIECE)	ASTM A890 GR. CD4MCU	1
1	BODY PART 1	ASTM A 216 Gr. WCB	1
SR.NO.	PART NAME	MATERIAL	QTY.

BILL OF MATERIAL

Pressure Rating 150#	Description : DAMPER BUTTERFLY VALVE WAFER TYPE		NAME	Date
Design Std. API 609-A	Client :	IPT	DRN BY	Hiren
Testing Std. API 598	Po. No. :	----	CHD BY	Hiren
Face to Face Std. API 609 -A	Project :	----	APPD BY	H. Latty
End Connection Flanged to ASME B 16.5	Consultant :	----	<div style="text-align: right; font-weight: bold; font-size: 1.2em;">intMPE</div>	
	Inspection :	----		
	Drawing No. :	594/100(R3)	Wo. No. :	---

REV.	DESCRIPTION	DATE
2	----	----
1	----	----



ALL DIMENSIONS ARE IN INCH UNLESS OTHERWISE SPECIFIED

SR. NO.	SIZE	ØD	ØA	F/F	H	ØC	PCD'K1"	PCD'K2"	'B'FLATS	d1	d2	L	WD
01	150NB	6.185	4.0	2.125	6.553	0.625	3.25	2.76	0.438	0.438	0.375	1.25	8.75

SIZE	VALVE BODY ID 6.185" = 157.10 ^{+0.00} _{-0.10} MM
6"	VALVE DISC OD 6.145" = 156.08 ^{+0.10} _{-0.00} MM

* NOTE: Cv VALVE IS 2100 gpm

* LITHIUM GREASE IS USE & ITS TEMPERATURE RANGE IS 190°C TO 220° C.(370°F TO 430°F)

10	Set Screw	MS	1
9	Lower Bushing	ALUMINIUM BRONZE	1
8	STEM SEAL	VITON	1
7	GREASE NIPPLE	MS	2
6	Alignment Plug	MS	1
5	BUSH	NYLON	1
4	BOLT	ASTM A193 GR B7/194 GR 2H	2
3	BODY PART 2	ASTM A 216 Gr. WCB	1
2	DISC & STEM (SINGLE PIECE)	ASTM A890 GR. CD4MCU	1
1	BODY PART 1	ASTM A 216 Gr. WCB	1
SR.NO.	PART NAME	MATERIAL	QTY.

BILL OF MATERIAL

Pressure Rating 150#	Description : DAMPER BUTTERFLY VALVE WAFER TYPE		NAME	Date
Design Std. API 609-A	Client :	IPT	DRN BY	Hiren
Testing Std. API 598	Po. No. :	----	CHD BY	Hiren
Face to Face Std. API 609 -A	Project :	----	APPD BY	H. Latty
End Connection Flanged to ASME B 16.5	Consultant :	----	Inspection :	----
	Drawing No. :	594/150(R4)	Wo. No. :	---

intMPE

REV.	DESCRIPTION	DATE
2	----	----
1	----	----

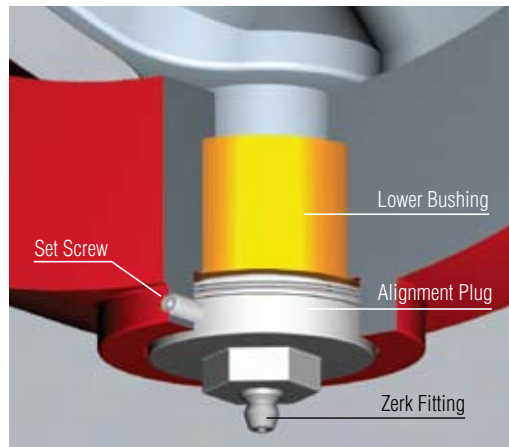
FLY ASH SERIES

MP, A unique series of butterfly valves specially designed for high heat, highly abrasive, low pressure applications that do not require immediate bubble tight shutof.

MP Fly Ash valves are designed without seats since the high temperature and abrasive nature of the media causes resilient seats to fail. The valve seal is formed by the compaction of the line media during valve operation.

Features

An **Alignment Plug** centers the disc/stem vertically in the valve bore, maintaining a median gap of .020". This threaded plug is easily field adjustable, and a set screw secures the position. Horizontal disc/stem alignment is maintained by upper and lower **Bushings**.



The bronze **Bushings** absorb actuator side thrust and minimize torque and wear. Additionally, both bushings are inserted externally to leave a smooth, uninterrupted valve bore free of voids and exposed edges. This reduces media entrapment and valve wear. Viton® **O-rings** prevent leakage through the stem. Two rings form a seal between the bushing and the stem, two rings seal between the bushing and the valve body. **Zerk Fittings**, through the valve neck and alignment plug, allow a high temperature lubricant to be added when needed to minimize seizing and galling.

Specifications

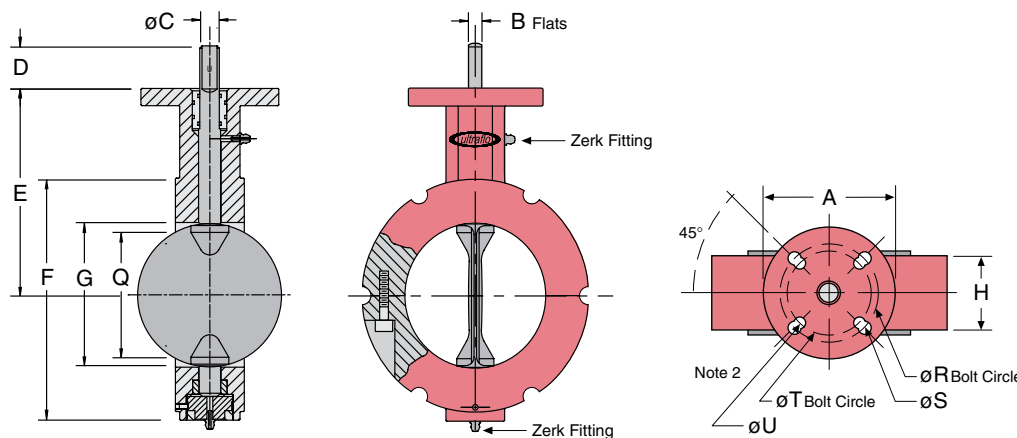
- Carbon Steel wafer style body.
- CD-4 one-piece disc/stem.
- Median gap of .020" between disc/stem and bore maintained by adjustable alignment plug.
- Bronze upper and lower bushings with Viton® O-ring seals on upper bushing.
- Zerk fittings for high temperature lubricant in stem bearing journals minimize seizing and galling.
- Minimal operating torque.
- External dimensions meet ASME Class 150 standards.
- Schedule 40 bore.

Flange Requirements:

The valve O.D. and flange bolt circle must share a common center line. MP Series valves are designed to be placed between ASME Class 125/150 flanges.

Dimensions

Valve Size		A	B	C	D	E	F	G	H	Q	R	S	T	U
ins	mm													
4	100	4.00	.375	.563	1.250	6.00	6.875	4.21	2.00	3.719	3.25	.438	2.76	.375
6	150	4.00	.438	.625	1.250	6.25	8.75	6.185	2.125	5.813	3.25	.438	2.76	.375
8	200	6.00	.500	.750	1.250	8.313	11.00	8.19	2.50	7.813	5.00	.578	4.02	.438
Size 8" valve has an additional Top Plate Drilling Pattern											3.25	.438		
10	250	6.00	.625	.875	2.00	9.125	13.375	10.205	2.50	9.906	5.00	.578	4.02	.438
12	300	6.00	.625	.875	2.00	10.625	16.125	12.17	3.00	11.844	5.00	.578	4.02	.438



Dimension Notes:

1. Q Dimension is the minimum Flange or Pipe I.D. tolerable for protection of disc sealing edge while operating centered between flanges.
2. Bolt Circle T and Hole Diameter U meet ISO 5211 standards for Top Flange Drilling:
4"-6" = F7 8"-12" = F12

Please refer to Ultraflo's website periodically to ensure this brochure is the latest version.

The data represented in this brochure is for general information only. Manufacturer is not responsible for acceptability of these products in relation to system requirements. Consult your intMPE representative for specific performance data and proper materials selection for your particular application.