

KTM SERIES MB1 THREE WAY FLOATING BALL VALVES

MODEL CODE OPTIONS AND DESCRIPTIONS - NORTH AMERICA AND EUROPE ONLY

Model / Series		Size	End Connection	Drilling / Schedule	Face to Face	Pressure Rating		Body Material	Ball Material	Stem Material	Seat Material	Sealing Material	Flow Path	Mounting Type	Actuation Type		Optional Feature 1	Optional Feature ...		Actuation Option
MB1SF	-	0015	R3	A1	00	A1	-	CA	S00	S0	TC	P0	D	I	B	-	NP1	TPZ	+	GS-000



MODEL / SERIES

Code	Description
MB1SF	Series MB1, Standard, Full Bore
MB1SR	Series MB1, Standard, Reduced Bore

SIZE

Code	Description
0015	DN 15 / NPS ½
0020	DN 20 / NPS ¾
0025	DN 25 / NPS 1
0040	DN 40 / NPS 1½
0050	DN 50 / NPS 2
0065	DN 65 / NPS 2½
0080	DN 80 / NPS 3
0100	DN 100 / NPS 4
0125	DN 125 / NPS 5
0150	DN 150 / NPS 6
0200	DN 200 / NPS 8
0250	DN 250 / NPS 10
0300	DN 300 / NPS 12
0350	DN 350 / NPS 14
ZZZZ	Special

END CONNECTION

Code	Description
R3*	Flange - ASME Raised Face (RF) - 125 to 250 AARH
J7	Flange - JIS Raised Face (RF) - 125 to 250 AARH
ZZ	Special

DRILLING / SCHEDULE

Code	Description
A1	ASME 150
A2	ASME 300
A3	ASME 600
J3	JIS 10K
J5	JIS 20K
J7	JIS 40K
ZZ	Special

FACE TO FACE

Code	Description
00*	Standard (Refer to Product Literature)
ZZ	Special

PRESSURE RATING

Code	Description
A1	ASME 150
A2	ASME 300
A3	ASME 600
J3	JIS B2220 - 10K
J5	JIS B2220 - 20K
J7	JIS B2220 - 40K
ZZ	Special

BODY MATERIAL

Code	Description
CA*	Carbon Steel A216 WCB
CB	Carbon Steel A352 LCB
CC	Carbon Steel A352 LCC
CD	Carbon Steel A216 WCC
SB	Stainless Steel A351 CF8
SE*	Stainless Steel A351 CF8M
SS	Stainless Steel A351 CF3
SJ	Stainless Steel A351 CF3M
J4	Stainless Steel JIS G5121 Grade SCS13A
J5	Stainless Steel JIS G5121 Grade SCS14A
J1	Stainless Steel JIS G5121 Grade SCS16A
J2	Stainless Steel JIS G5121 Grade SCS19A
QC	Alloy 20 A351 CN7M
M0	Monel A494-M35-1 (UNS N24135)
U5	Duplex A995 4A (CD3MN)
HA	Hastelloy C-276 A494 CW-12MW
ZZ	Special

NOTE

* Indicates standard configuration

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BALL MATERIAL

Code	Description
S00*	Stainless Steel 316
S40	Stainless Steel 316L
S10	Stainless Steel 304
S30	Stainless Steel 304L
H00	Hastelloy C-276
M00	Monel A494-M35-1 (UNS N24135)
QC0	Alloy 20 A351 CN7M
U80	Duplex
ZZZ	Special

STEM MATERIAL

Code	Description
S0*	Stainless Steel 316
S4	Stainless Steel 316L
S1	Stainless Steel 304
S3	Stainless Steel 304L
S8	Stainless Steel 410
SH	Stainless Steel 17-4 PH / Type 630 H1150 D (NACE compliant)
H0	Hastelloy C-276
LE	Alloy 20
M1	Monel K500
U8	Duplex 329
ZZ	Special

SEAT MATERIAL

Code	Description
T0	PTFE
TC*	PTFE / PFA Co-Polymer
RG	RPTFE (Carbon Filled)
RH	RPTFE (Glass Filled with MoS2)
ZZ	Special

SEALING MATERIAL

Code	Description (Packing / Body Gasket / Retainer Seal)
P0*	PTFE
P4	PTFE / RPTFE / FKM
G0	Graphite
G2	Graphite / Graphite / FKM
ZZ	Special

FLOW PATH

Code	Description
D	T-Port 90° Turn, Flow Plan D (Pattern 1)
E	T-Port 90° Turn, Flow Plan E (Pattern 4)
F	T-Port 90° Turn, Flow Plan F (Pattern 3)
G	T-Port 90° Turn, Flow Plan G (Pattern 2)
A	L-Port 90° Turn, Flow Plan A (Pattern 1 & 2)

OPERATOR MOUNTING TYPE

Code	Description
I	ISO 5211

ACTUATION TYPE

Code	Description
L	Default Handle / Lever
B	Bare Stem

OPTIONAL FEATURES

Code	Description
Bolting Options	
B07	Alloy Steel A193 B7 / A194 2H
B08	Stainless Steel A193 B8M / A194 B8M (NACE)
B09	Alloy Steel A193 B7M / A194 2HM (NACE)
B10	Stainless Steel A193 B8 / A194 B8
B17	Alloy Steel ASTM A320 L7M / A194 7M (NACE)
B19	Alloy Steel ASTM A320 L7 / A194 7
B1Z	Special Gland Packing Bolting
B0Z	Special Bolting
Valve Extension Options	
EZZ	Special Extension
Coating / Painting	
PZZ	Special Painting / Coating (per Purchase Order)
Nameplate / Tagging	
NP1	Additional 316 Stainless Steel Tag (Customer Tag Text)
NP2	Additional Paper Tag (Customer Tag Text)
NP3	Additional 316 Stainless Steel Tag & Paper Tag (Customer Tag Text)
NPZ	Special Tag / Nameplate (per Customer PO)
Certificate / Approvals	
NA5	NACE - MR0175 / ISO 15156 & MR 0103 - Corrosive service (Body / Shell, Ball, Stem, Bolting)
NA7	NACE - MR0175 / ISO 15156 - Corrosive exterior only service (Bolting)
Cleaning Options	
CHH	HCL, HF and Oxygen Service (KTM Class A)
CWD	Water & Dust Free (Clean Room) Assembly
CL2	Chlorine Service, Oil and Water Free (KTM Class B)
CLZ	Special Cleaning (per Purchase Order)

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OPTIONAL FEATURES (continued)

Code	Description
Witness Inspection	
WT1	Witness Inspection - Assembly, Test, Final Visuals (Standard Test Only)
WTZ	Witness Inspection (per Purchase Order incl: Packing, Painting, NDT, etc...)
Material Certificates / Traceability	
MCZ	Special CMTRs (per Purchase Order)
Positive Material Identification	
ME6	PMI (Body / Shell, Ball, Stem)
MEZ	PMI (per Purchase Order)
Magnetic Particle Examination	
MP2	MP (On body machined surfaces per ASME B16.34 Appendix II)
MPZ	Magnetic Particle Examination (per Purchase Order)
Liquid Penetrant Examination	
LP3	LPE (On body machined surfaces per ASTM B16.34 Appendix III)
LPZ	Liquid Penetrant Examination (per Purchase Order)
Radiographic Examination	
RG4	RT (On body / bonnet critical areas, per ASME B16.34 Appendix I)
RGZ	Radiographic Examination (per Purchase Order)

Code	Description
Pressure Testing	
TPN	Pressure Test - Nitrogen (per Purchase Order)
TPZ	Hydrostatic Test Report (per Purchase Order)
Functional Test	
TF2	Functional Test Report (Automated, Per Customer Operating Conditions, Manufacturer Standard)
TFZ	Special Functional Testing (per Purchase Order)
Other Testing	
SAP	Seat Leak Test - API 598
FET	Fugitive Emission Test (per Customer Purchase Order)
SIB	Seat Leak Test - ISO 5208 Rate B

ADDITIONAL ACTUATION OPTIONS

Code	Description
GS-000	Factory Standard Gear Operator ⁽¹⁾

NOTES

1. Additional characters identify specific handle or gear.

NOTE

Consult your local Emerson representative for additional options.

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