

For use in China, Europe, Middle East and South East Asia only.

# KTM Series EF1

## Floating Ball Valves

<b>Series</b>	<b>Size</b>	<b>End Connection</b>	<b>Drilling / Schedule</b>	<b>Face-to-Face</b>	<b>Pressure Rating</b>	<b>Body Material</b>	<b>Ball Material</b>	<b>Stem Material</b>	<b>Seat Material</b>	<b>Sealing Material</b>	<b>Operator Mounting Type</b>	<b>Actuation Type</b>	<b>Optional Feature 1</b>	<b>Optional Feature 2</b>	<b>Actuation Option</b>
EF1S	0050	R1	A1	00	A1	CA	S00	S0	T0	P0	I	B	NP1	TPZ	GS-000



### Series

Code	Description
EF1S	Series EF1, Standard
EF1F	Series EF1, Fire Safe
EF1E	Series EF1, Fire Safe and Fugitive Emission Certified

### Size

Code	Description
0015	DN 15 / NPS ½
0020	DN 20 / NPS ¾
0025	DN 25 / NPS 1
0032	DN 32 / NPS 1¼
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
ZZZZ	Special

### End Connection

Code	Description
R1	Flange - ASME Raised Face (RF) - 32 to 63 AARH (Smooth)
R3*	Flange - ASME Raised Face (RF) - 125 to 250 AARH
R6	Flange - EN Raised Face (RF) - 32 to 63 AARH (Smooth)
R8	Flange - EN Raised Face (RF) - 125 to 250 AARH
F1	Flange - ASME Flat Face (FF) - 32 to 63 AARH (Smooth)
F3	Flange - ASME Flat Face (FF) - 125 to 250 AARH
F6	Flange - EN Flat Face (FF) - 32 to 63 AARH (Smooth)
F8	Flange - EN Flat Face (FF) - 125 to 250 AARH
EC	Flange - EN Tongue (Type C)
ED	Flange - EN Groove (Type D)
EE	Flange - EN Spigot (Type E)
EF	Flange - EN Recess (Type F)
RJ	Flange - Ring Type Joint (RTJ)
ZZ	Special

### Drilling / Schedule

Code	Description
A1	ASME 150
A2	ASME 300
P2	PN 10
P3	PN 16
P5	PN 25
P6	PN 40
PB	PN 10 / 16
PD	PN 10 / 16 / 25 / 40
PG	PN 25 / 40
ZZ	Special

### Face-to-Face

Code	Description
00*	Standard (Refer to Product Literature)
01	EN558 Series 01
27	EN558 Series 27
ZZ	Special

### Pressure Rating

Code	Description
A1	ASME 150
A2	ASME 300
P2	PN 10
P3	PN 16
P5	PN 25
P6	PN 40
ZZ	Special

### NOTE

\* Indicates standard configuration.

<b>Series</b>		<b>Size</b>	<b>End Connection</b>	<b>Drilling / Schedule</b>	<b>Face-to-Face</b>	<b>Pressure Rating</b>	<b>Body Material</b>	<b>Ball Material</b>	<b>Stem Material</b>	<b>Seat Material</b>	<b>Sealing Material</b>	<b>Operator Mounting Type</b>	<b>Actuation Type</b>	<b>Optional Feature 1</b>	<b>Optional Feature 2</b>	<b>Actuation Option</b>			
EF1S	-	0050	R1	A1	00	A1	-	CA	S00	S0	T0	P0	I	B	-	NP1	TPZ	+	GS-000

**Body Material**

Code	Description
CA*	Carbon Steel A216 WCB
CJ	Carbon Steel 1.0619 (GP240GH)
SE*	Stainless Steel A351 CF8M
J1	Stainless Steel 1.4408 (GX5CrNiMo 19-11-2)
ZZ	Special

**Ball Material**

Code	Description
S00*	Stainless Steel 316
ZZZ	Special

**Stem Material**

Code	Description
S0*	Stainless Steel 316
U0	Stainless Steel Duplex
SH	Stainless Steel 17-4 PH / Type 630 H1150 D (NACE Compliant)
ZZ	Special

**Seat Material**

Code	Description
T0	PTFE
T4*	TFM 1600
RE	RTFE (Glass Filled)
RG	RTFE (Carbon Filled)
RC	RPTFE (SS Filled)
A0	PEEK (Arlon 1330)
ZZ	Special

**Sealing Material**

Code	Description (Packing / Body Gasket / Retainer Seal)
P0*	PTFE (Non-fire safe)
G0*	Graphite (Fire safe and fugitive emission)
ZZ	Special

**Operator Mounting Type**

Code	Description
I	ISO 5211

**Actuation Type**

Code	Description
L	Default Handle / Lever
B	Bare Stem

**Optional Features**

Code	Description
<b>Bolting Options</b>	
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
B0Z	Special Bolting
B1Z	Special Bolting for Gland Packing
<b>Valve Extension Options</b>	
ES0	Shaft Extension (Manufacturer Standard)
EZZ	Shaft Extension (per Purchase Order)
<b>Coating / Painting</b>	
PZZ	Special Painting / Coating (per Purchase Order)
<b>Nameplate / Tagging</b>	
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)
<b>Certificates / Approvals</b>	
NA7	NACE - MR 0175 / ISO 15156 - Corrosive Exterior Only Service (Bolting)
NA5	NACE - MR 0175 / ISO 15156 & MR0103 - Corrosive Service (Body / Shell, Ball, Stem, Bolting)

**Optional Features (continued)**

Code	Description
<b>Cleaning Procedure</b>	
CLD	Oxygen Service Cleaning (Manufacturer Standard)
CL2	Oil and Water Free
CLZ	Special Cleaning (per Purchase Order)
<b>Witness Inspection</b>	
WT1	Witness Inspection - Assembly, Test, Final Visuals (Standard Test Only)
WTZ	Witness Inspection (per Purchase Order incl: Packing, Painting, NDT, etc...)
<b>Material Certificates / Traceability</b>	
MCZ	Special CMTRs (per Purchase order)
<b>Positive Material Identification</b>	
ME1	PMI (Manufacturer Standard)
MEZ	PMI (per Purchase Order)
<b>Magnetic Particle Examination</b>	
MPZ	Magnetic Particle Examination (per Purchase Order)
<b>Liquid Penetrant Examination</b>	
LPZ	Liquid Penetrant Examination (per Purchase Order)
<b>Radiographic Examination</b>	
RGZ	Radiographic Examination (per Purchase Order)
<b>Pressure Testing</b>	
TPZ	Hydrostatic Test Report (per Purchase Order)
<b>Functional Test</b>	
TFZ	Special Functional Testing (per Purchase Order)
<b>Ball Options</b>	
BVE	Vented Ball (Upstream Hole)
BVZ	Special Vented Ball

**NOTES**

\* Indicates standard configuration.

For additional details on the list of optional adders, consult your local Emerson representative.

Series	Size	End Connection	Drilling / Schedule	Face-to-Face	Pressure Rating	Body Material	Ball Material	Stem Material	Seat Material	Sealing Material	Operator Mounting Type	Actuation Type	Optional Feature 1	Optional Feature 2	Actuation Option
	EF1S	0050	R1	A1	00	A1	CA	S00	S0	T0	P0	I	B	NP1	

**Additional Actuation Options**

Code	Description
GS-000	Factory Standard Gear Operator <sup>(1)</sup>

**ACTUATION NOTE**

1. Additional characters identify specific handle or gear.

**GENERAL NOTES**

1. This document is intended for product model code decodification, not product configuration. Option availability and compatibility may be dependent on the selection of another option. For product configuration support, consult your local Emerson representative.
2. This list of options is not exhaustive. Consult your local Emerson representative for additional options.

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