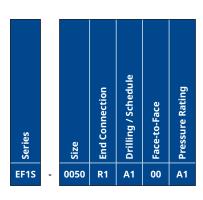
For use in China, Europe, Middle East and South East Asia only.

# **KTM Series EF1**

## **Floating Ball Valves**









#### **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 1/2
0020	DN 20 / NPS ¾
0025	DN 25 / NPS 1
0032	DN 32 / NPS 11/4
0040	DN 40 / NPS 1½
0050	DN 50 / NPS 2
0065	DN 65 / NPS 2½
0800	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
Р3	PN 16
P5	PN 25
P6	PN 40
РВ	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**

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

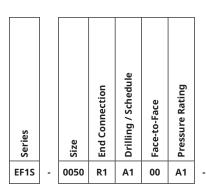
#### NOTE

\* Indicates standard configuration.





KTM Series EF1 April 2024



Body Material	Ball Material	Stem Material	Seat Material	Sealing Material	Operator Mounting Type	Actuation Type	
CA	S00	SO	T0	P0	I	В	





**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
TO	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 Gaske / 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						
В	Bare Stem						

**Optional Features** 

Code	Description
Bolting	g 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
B0Z	Special Bolting
B1Z	Special Bolting for Gland Packing
Valve I	Extension Options
ES0	Shaft Extension (Manufacturer Standard)
EZZ	Shaft Extension (per Purchase Order)
Coatin	g / Painting
PZZ	Special Painting / Coating (per Purchase Order)
Name	plate / 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)
Certifi	cates / Approvals
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)

Option	ai reatures (continueu)
Code	Description
Cleanii	ng Procedure
CLD	Oxygen Service Cleaning (Manufacturer Standard)
CL2	Oil and Water Free
CLZ	Special Cleaning (per Purchase Order)
Witnes	s Inspection
WT1	Witness Inspection - Assembly, Test, Final Visuals (Standard Test Only)
WTZ	Witness Inspection (per Purchase Order incl: Packing, Painting, NDT, etc)
Materi	al Certificates / Traceability
MCZ	Special CMTRs (per Purchase order)
Positiv	e Material Identification
ME1	PMI (Manufacturer Standard)
MEZ	PMI (per Purchase Order)
Magne	tic Particle Examination
MPZ	Magnetic Particle Examination (per Purchase Order)
Liquid	Penetrant Examination
LPZ	Liquid Penetrant Examination (per Purchase Order)
Radiog	raphic Examination
RGZ	Radiographic Examination (per Purchase Order)
Pressu	re Testing
TPZ	Hydrostatic Test Report (per Purchase Order)
Function	onal Test
TFZ	Special Functional Testing (per Purchase Order)
Ball Op	otions
BVE	Vented Ball (Upstream Hole)
BVZ	Special Vented Ball

#### **NOTES**

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

<sup>\*</sup> Indicates standard configuration.

KTM Series EF1 April 2024

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	ТО	P0	I	В	-	NP1	TPZ	+	GS-000

### **Additional Actuation Options**

	Description
GS-000	Factory Standard Gear Operator [1]

#### **ACTUATION NOTE**

 Additional characters identify specific handle or gear.

#### **GENERAL NOTES**

- 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.
- This list of options is not exhaustive. Consult your local Emerson representative for additional options.

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