

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

KTM Series E01

Trunnion Mounted Ball Valves

Model / Series	Size	End Connection	Drilling / Schedule	Face-to-Face	Pressure Rating	Body Material	Ball Material	Stem Material	Seat Material	Sealing Material	Sealing Options	Mounting Type	Actuation Type	Optional Feature 1	Optional Feature ...	Actuation Option
E01SF	0040	R3	A1	AB	A1	CA	S00	S0	RH	P4	SG8	I	B	NP1	TPZ	GS-000



Model / Series

Code	Description
E01SF	Series E01, Standard, Full Bore
E01SR	Series E01, Standard, Reduced Bore
E01HF	Series E01, High Temp, Full Bore
E01HR	Series E01, High Temp, Reduced Bore
E01XF	Series E01, X-High Temp, Full Bore
E01XR	Series E01, X-High Temp, Reduced Bore
E01CF	Series E01, Cryogenic, Full Bore
E01CR	Series E01, Cryogenic, Reduced Bore
E01LF	Series E01, Low Temp, Full Bore
E01LR	Series E01, Low Temp, Reduced Bore

Size

Code	Description
0040	DN 40 / NPS 1½
0050	DN 50 / NPS 2
0080	DN 80 / NPS 3
0100	DN 100 / NPS 4
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
0400	DN 400 / NPS 16
0450	DN 450 / NPS 18
0500	DN 500 / NPS 20
0600	DN 600 / NPS 24
ZZZZ	Special

End Connection

Code	Description
R3*	Flange - ASME Raised Face (RF) - 125 to 250 AARH
R1	Flange - ASME Raised Face (RF) - 32 to 63 AARH (Smooth)
R2	Flange - ASME Raised Face (RF) - 63 to 125 AARH
R4	Flange - ASME Raised Face (RF) - 250 to 500 AARH
RJ	Flange - Ring Type Joint (RTJ)
F1	Flange - ASME Flat Face (FF) - 32 to 63 AARH (Smooth)
F2	Flange - ASME Flat Face (FF) - 63 to 125 AARH
F3	Flange - ASME Flat Face (FF) - 125 to 250 AARH
F4	Flange - ASME Flat Face (FF) - 250 to 500 AARH
J1	Flange - JIS Flat Face (FF) - 32 to 63 AARH (Smooth)
J2	Flange - JIS Flat Face (FF) - 63 to 125 AARH
J3	Flange - JIS Flat Face (FF) - 125 to 250 AARH
J4	Flange - JIS Flat Face (FF) - 250 to 500 AARH
J5	Flange - JIS Raised Face (RF) - 32 to 63 AARH (Smooth)
J6	Flange - JIS Raised Face (RF) - 63 to 125 AARH
J7	Flange - JIS Raised Face (RF) - 125 to 250 AARH
J8	Flange - JIS Raised Face (RF) - 250 to 500 AARH
ZZ	Special

Drilling / Schedule

Code	Description
A1	ASME 150
A2	ASME 300
A3	ASME 600
A4	ASME 900
A5	ASME 1500
J1	JIS 5K
J3	JIS 10K
J5	JIS 20K
J7	JIS 40K
J8	JIS 63K
ZZ	Special

Face-to-Face

Code	Description
AB	Standard (Refer to Product Literature)
ZZ	Special

NOTE

* Indicates standard configuration.

Model / Series	Size	End Connection	Drilling / Schedule	Face-to-Face	Pressure Rating	Body Material	Ball Material	Stem Material	Seat Material	Sealing Material	Sealing Options	Mounting Type	Actuation Type	Optional Feature 1	Optional Feature ...	Actuation Option
	E01SF - 0040 R3 A1 AB A1 - CA S00 S0 RH P4 SG8 I B - NP1 TPZ + GS-000															

Pressure Rating

Code	Description
A1	ASME 150
A2	ASME 300
A3	ASME 600
A4	ASME 900
A5	ASME 1500
J1	JIS B2220 - 5K
J3	JIS B2220 - 10K
J5	JIS B2220 - 20K
J7	JIS B2220 - 40K
J8	JIS B2220 - 63K
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
SE*	Stainless Steel A351 CF8M
J1	Stainless Steel JIS G5121 Grade SCS16A
J2	Stainless Steel JIS G5121 Grade SCS19A
J4	Stainless Steel JIS G5121 Grade SCS13A
J5	Stainless Steel JIS G5121 Grade SCS14A
U5	Duplex A995 4A (CD3MN)
HA	Hastelloy C-276 A494 CW-12MW
ZZ	Special

Ball Material

Code	Description
S00*	Stainless Steel 316
S01	Stainless Steel 316 - ENP
S05	Stainless Steel 316 - Hard Chrome Plated
S06	Stainless Steel 316 - SFNi
S08	Stainless Steel 316 - Tungsten Carbide
S09	Stainless Steel 316 - Chrome Carbide
SN0	Stainless Steel 317
S10	Stainless Steel 304
S30	Stainless Steel 304L
S11	Stainless Steel 304 - ENP (25 Microns / 1 mil)
S15	Stainless Steel 304 - Hard Chrome Plated
S16	Stainless Steel 304 - SFNi
S18	Stainless Steel 304 - Tungsten Carbide
S19	Stainless Steel 304 - Chrome Carbide
S40	Stainless Steel 316L
U00	Duplex 2205
U01	Duplex 2205 - ENP
U05	Duplex 2205 - Hard Chrome Plated
U06	Duplex 2205 - SFNi
U08	Duplex 2205 - Tungsten Carbide
U09	Duplex 2205 - Chrome Carbide
E00	Inconel 600
QC0	Alloy 20 A351 CN7M
H00	Hastelloy C-276
M00	Monel A494 M35-1 (UNS N24135)
ZZZ	Special

Stem Material

Code	Description
S0*	Stainless Steel 316
S1	Stainless Steel 304
S3	Stainless Steel 304L
S4	Stainless Steel 316L
S8	Stainless Steel 410
SH	Stainless Steel 17-4 PH / Type 630 H1150 D (NACE compliant)
U0	Stainless Steel Duplex
U8	Duplex 329
E0	Inconel 600
E1	Inconel 625
E2	Inconel 718
H0	Hastelloy C-276
LC	AISI 4137 Alloy Steel (UNS G41370)
M1	Monel K500
ZZ	Special

Seat Material

Code	Description
RH*	RPTFE (Glass Filled with MoS2)
RJ	Special Reinforced PTFE (Carbon Filled + Ceramic)
TC	PTFE / PFA Co-Polymer
A0	PEEK (Arlon 1330 or equivalent)
MC	Stainless Steel 316 + Stellite Overlay
MT	Stainless Steel 316 + Tungsten Carbide Coated
MA	Stainless Steel 316 + Chromium Carbide Coated
YP	Duplex 329 + Stellite Overlay
YQ	Duplex 329 + Tungsten Carbide Coated
YR	Duplex 329 + Chromium Carbide Coated
ZZ	Special

NOTE

* Indicates standard configuration.

Model / Series		Size	End Connection	Drilling / Schedule	Face-to-Face	Pressure Rating		Body Material	Ball Material	Stem Material	Seat Material	Sealing Material	Sealing Options	Mounting Type	Actuation Type		Optional Feature 1	Optional Feature ...		Actuation Option
E01SF	-	0040	R3	A1	AB	A1	-	CA	S00	S0	RH	P4	SG8	I	B	-	NP1	TPZ	+	GS-000

Sealing Material

Code	Description (Packing / Body Gasket / Retainer Seal)
P4*	PTFE / RPTFE / FKM (Standard Non-Fire Safe)
PQ	PTFE / RPTFE / PTFE
NP	PTFE / RPTFE / NBR
AP	PTFE / RPTFE / FEPM (Aflas®)
KP	PTFE / RPTFE / FFKM (Kalrez®)
G0*	Graphite (Extra High Temp Fire Safe)
G2	Graphite / Graphite / FKM
NG	Graphite / Graphite / NBR
AG	Graphite / Graphite / FEPM (Aflas®)
KG	Graphite / Graphite / FFKM (Kalrez®)
JP	PTFE / RPTFE / FSI (Fluoro-Silicon)
GD	Graphite / Graphite / FSI (Fluoro-Silicon)
G4*	Graphite / Graphite / PTFE (High Temp Fire Safe)
ZZ	Special

Sealing Options

Code	Description
SG8	Inconel (X750) Live loaded washers

Operator Mounting Type

Code	Description
I	ISO 5211

Actuation Type

Code	Description
B	Bare Stem
L	Default Handle / Lever

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
B0Z	Special Bolting
B1Z	Special Bolting for Gland Packing
Valve Extension Options	
ES0	Shaft Extension (Non-Pressure Containing) (Manufacturer Standard)
EH1	E1 Extended Bonnet (Short Length)
EH2	E2 Extended Bonnet (Long Length)
EL1	E1 Low Temperature Extended Bonnet (Short Length)
EC2	E2 -70°C/-94°F Cryogenic Extended Bonnet (Long Length)
EC3	E3 -104°C/-156°F Cryogenic Extended Bonnet (Long Length)
EC5	E5 -196°C/-385°F Cryogenic Extended Bonnet (Long Length)
ED1**	Extension Bonnet with Double Packing with Lantern Ring (Short Length)
ED2**	Extension Bonnet with Double Packing with Lantern Ring (Long Length)
ET1**	Extension Bonnet w Double Packing + O-ring with Lantern Ring (Short Length)
ET2**	Extension Bonnet w Double Packing + O-ring with Lantern Ring (Long Length)
EZZ	Special Extension

Code	Description
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)
Certificates / Approvals	
NA7	NACE - MR 0175 / ISO 15156 - Corrosive Exterior Only Service (Bolting)
NA5	NACE - MR 0175 / ISO 15156 & MR 0103 - Corrosive Service (Body / Shell, Ball, Stem, Bolting)
PED	PED
API	API 608 Compliance - Manual Valve
Cleaning Procedure	
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)
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)

NOTES

For more details on the optional features, consult your local Emerson representative.

* Indicates standard configuration.

** Choose lantern ring gauge port option

(Rc, NPT, G/BSPP)

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