

For use in North America only.

# KTM Series RA

## Ball Valves

Model / Series	Size	End Connection	Drilling / Schedule	Face-to-Face	Pressure Rating	Body Material	Ball Material	Stem Material	Seat Material	Sealing Material	Mounting Type	Actuation Type	Optional Feature 1	Optional Feature ...
RASF	0008	BG	W1	00	P3	CJ	S00	U0	RE	G0	I	L	NP1	TPZ



### Model / Series

Code	Description
RASF	Series RA, Standard, Full Bore
RASR	Series RA, Standard, Reduced Bore
RAFF	Series RA, Firesafe, Full Bore
RAFR	Series RA, Firesafe, Reduced Bore
RACF	Series RA, Cryogenic, Full Bore
RACR	Series RA, Cryogenic, Reduced Bore

### Size

Code	Description
0008	DN 8 / NPS ¼
0010	DN 10 / NPS ¾
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
ZZZZ	Special

### End Connection

Code	Description
1F	Socket Weld - ASME / Screwed Ends
3D	Screwed Ends / Socket Weld - ASME
3S	Screwed Ends / Butt Weld - ISO 1127
5F	ISO 1127 / Screwed Ends
5G	Screwed Ends (Different Threads)
5M	Butt Weld - 100 mm (4 in) Pipe Pup / Screwed Ends
6H	Butt Weld - ANSI B36.10 / Screwed Ends
B9	Butt Weld - DIN 11850 ROW 1
BA	Butt Weld - DIN 11850 ROW 2
BC	Butt Weld - DIN 2559
BD	Butt Weld - ISO 1127
BG	Butt Weld - ANSI B36.10
BK	Butt Weld - 100 mm (4 in) Pipe Extension
CT	Valve Center Only (No Ends)
H3	Hub / Clamp - Tri-Clamp
S3	MSN SAE A5202 Threaded
SE	Screwed Ends (Threaded)
SW	Socket Weld - ASME B16.11
ZZ	Special

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**Drilling / Schedule**

Code	Description
00	End Thickness (Standard)
1A	BSPT / Schedule 40
1C	BSPT / BSPP
1D	BSPT / Schedule 5
1H	Socket Weld / BSPT
1J	Socket Weld / NPT
1K	Socket Weld / BSPP
1L	NPT / Schedule 5
1M	NPT / Schedule 10
1N	NPT / Schedule 40
1Q	NPT / BSPT
1R	NPT / BSPP
1V	Schedule 10 / BSPT
1W	Schedule 10 / NPT
1X	Schedule 10 / BSPP
2C	Schedule 40 / BSPT
2D	Schedule 40 / NPT
2E	Schedule 40 / BSPP
2N	BSPP / Schedule 10
2R	BSPP / BSPT
2S	BSPP / NPT
2T	BSPP / Schedule 5
2U	BSPP / Socket Weld
2W	BSPT / Schedule 10
3B	100 mm (4 in) Pipe Pup / BSPT
3C	100 mm (4 in) Pipe Pup / NPT
3D	100 mm (4 in) Pipe Pup / BSPP
3F	BSPP / 100 mm (4 in) Pipe Pup
3G	BSPT / 100 mm (4 in) Pipe Pup
3J	NPT / 100 mm (4 in) Pipe Pup
BN	BSPT x NPT
BP	BSPP (Female)
BS	BSPT x Socket Weld
BT	BSPT (Female)

Code	Description
KY	100 mm (4 in) Pipe Pup / Schedule 5
NA	Not Applicable (For Valve Center Section only)
NS	NPT x Socket Weld
NT	NPT (Female)
SE	SAE (Female)
SW	Socket Weld End
W1	Schedule 10
W4	Schedule 40
W5	Schedule 5
ZZ	Special

**Face-to-Face**

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

**Pressure Rating**

Code	Description
P3	PN 16
P4	PN 20 / Cl150 Metric
P6	PN 40
P7	PN 50 / Cl300 Metric
P8	PN 63
P9	PN 110
30	30 bar / 435 psi
70	70 Bar
80	80 Bar
ZZ	Pressure Rating Not Specified

**Body Material**

Code	Description
CJ	Carbon Steel EN 1.0619 (GP240GH)
J1	Stainless Steel 1.4408 (GX5CrNiMo 19-11-2)
ZZ	Special

**Ball Material**

Code	Description
S00*	Stainless Steel 316
SM5	Stainless Steel 316Ti / ISN 05.11
ZZZ	Special

**Stem Material**

Code	Description
U0*	Duplex
J6	Stainless Steel EN 1.4404 (X2CrNiMo 17-12-2)
ZZ	Special

**NOTE**

\* Indicates standard configuration.

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**Seat Material**

Code	Description
RE	RPTFE (Glass Filled)
TH	PTFE - TF4215
U8	UHMWPE
T4*	TFM 1600
MH	Stainless Steel 316Ti (ISN 05.11)
A0	PEEK (Arlon 1330 or equivalent)
ZZ	Special

**Sealing Material**

Code	Description (Packing / Body Gasket / Retainer Seal)
G0	Graphite
TH	PTFE - TF4215
RA	RPTFE (Glass) - No Anti-Static Packing (NAP)
R7	RPTFE (Glass) + Anti-Static Packing
U1	UHMWPE
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>Ball Options</b>	
BVG	Degassing Ball (Body Cavity)
BVE	Vented Ball (Upstream Hole)
BVA	BVG + BVE
<b>Valve Extension Options</b>	
EC6	150 mm Cryogenic Extension
ECC	300 mm Cryogenic Extension
<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)
NPZ	Special Tag / Nameplate (per Customer PO)
<b>Cleaning Procedure</b>	
CLD	Oxygen Service Cleaning
CLE	Oil and Grease Surface Cleaning (GS-40)
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...)

Code	Description
<b>Material Certificates / Traceability</b>	
MC1	CMTRs (Manufacturer Standard)
MCJ	DIN 2.2 Material Test Reports (EN)
MCZ	Special CMTRs (per Purchase Order)
<b>Positive Material Identification</b>	
ME6	PMI (Body / Shell, Ball, Stem)
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>Other Testing</b>	
LTI	Low Temp Impact Test as User Statement

**NOTES**

\* Indicates standard configuration.  
For more details on the optional features, consult your local Emerson representative.

**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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