

KTM MECAFRANCE SERIES RA BALL VALVES

MODEL CODE OPTIONS AND DESCRIPTIONS - EUROPE ONLY

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 ...		Actuation Option
RASF	-	0008	BG	W1	00	P3	CJ	-	S00	U0	T4	G0	I	L	-	ENC	JKF	+	GS-000



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
RAHF	Series RA, High Temp, Full Bore
RAHR	Series RA, High Temp, 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
ZZ	Special

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END CONNECTION

Code	Description	Code	Description	Code	Description
B9	Butt Weld - DIN 11850 ROW 1	1A	Socket Weld - ASME / Flange - ASME Raised Face (Standard)	2G	Flange - ASME Flat Face (Standard) / Butt Weld - DIN 2559
BA	Butt Weld - DIN 11850 ROW 2	1B	Socket Weld - ASME / Flange - EN Raised Face (B1)	2H	Flange - ASME Flat Face (Standard) / Butt Weld - ISO 1127
BB	Butt Weld - DIN 11850 ROW 3	1C	Socket Weld - ASME / Flange - ASME Flat Face (Standard)	2K	Flange - EN Flat Face (B1) / Socket Weld - ASME
BC	Butt Weld - DIN 2559	1D	Socket Weld - ASME / Flange - EN Flat Face (B1)	2M	Flange - EN Flat Face (B1) / Screwed Ends
BD	Butt Weld - ISO 1127	1E	Socket Weld - ASME / Flange - RTJ	2N	Flange - EN Flat Face (B1) / Butt Weld - DIN 11850 ROW 1
BG	Butt Weld - ANSI B36.10	1F	Socket Weld - ASME / Screwed Ends	2P	Flange - EN Flat Face (B1) / Butt Weld - DIN 11850 ROW 2
BK	Butt Weld - 100 mm (4 in) Pipe Extension	1G	Flange - ASME Raised Face (Standard) / Socket Weld - ASME	2S	Flange - EN Flat Face (B1) / Butt Weld - DIN 2559
CT	Valve Center Section Only (No Ends)	1H	Flange - ASME Raised Face (Standard) / Screwed Ends	2T	Flange - EN Flat Face (B1) / Butt Weld - ISO 1127
EC	Flange - EN Tongue (Type C)	1K	Flange - ASME Raised Face (Standard) / Butt Weld - DIN 11850 ROW 1	2U	Flange - RTJ / Socket Weld - ASME
ED	Flange - EN Groove (Type D)	1M	Flange - ASME Raised Face (Standard) / Butt Weld - DIN 11850 ROW 2	2V	Flange - RTJ / Screwed Ends
EE	Flange - EN Spigot (Type E)	1P	Flange - ASME Raised Face (Standard) / Butt Weld - DIN 2559	2W	Flange - RTJ / Butt Weld - DIN 11850 ROW 1
EF	Flange - EN Recess (Type F)	1R	Flange - ASME Raised Face (Standard) / Butt Weld - ISO 1127	2Y	Flange - RTJ / Butt Weld - DIN 11850 ROW 2
F1	Flange - ASME Flat Face (FF) - 32 to 63 AARH (Smooth)	1S	Flange - EN Raised Face (B1) / Socket Weld - ASME	3B	Flange - RTJ / Butt Weld - DIN 2559
F3	Flange - ASME Flat Face (FF) - 125 to 250 AARH	1T	Flange - EN Raised Face (B1) / Screwed Ends	3C	Flange - RTJ / Butt Weld - ISO 1127
F4	Flange - ASME Flat Face (FF) - 250 to 500 AARH	1U	Flange - EN Raised Face (B1) / Butt Weld - DIN 11850 ROW 1	5G	Screwed Ends (Different Threads)
F6	Flange - EN Flat Face (FF) - 32 to 63 AARH (Smooth)	1V	Flange - EN Raised Face (B1) / Butt Weld - DIN 11850 ROW 2	3D	Screwed Ends / Socket Weld - ASME
F8	Flange - EN Flat Face (FF) - 125 to 250 AARH	1Y	Flange - EN Raised Face (B1) / Butt Weld - DIN 2559	3E	Screwed Ends / Flange - ASME Raised Face (Standard)
F9	Flange - EN Flat Face (FF) - 250 to 500 AARH	2A	Flange - EN Raised Face (B1) / Butt Weld - ISO 1127	3F	Screwed Ends / Flange - EN Raised Face (B1)
EF	Flange - EN Recess (Type F)	2B	Flange - ASME Flat Face (Standard) / Socket Weld - ASME	3G	Screwed Ends / Flange - ASME Flat Face (Standard)
H3	Hub / Clamp - Tri-Clamp ASME Flat Face (Standard) EN Flat Face (B1)	2C	Flange - ASME Flat Face (Standard) / Screwed Ends	3H	Screwed Ends / Flange - EN Flat Face (B1)
R1	Flange - ASME Raised Face (RF) - 32 to 63 AARH (Smooth)	2D	Flange - ASME Flat Face (Standard) / Butt Weld - DIN 11850 ROW 1	3K	Screwed Ends / Flange - RTJ
R3	Flange - ASME Raised Face (RF) - 125 to 250 AARH	2E	Flange - ASME Flat Face (Standard) / Butt Weld - DIN 11850 ROW 2	3M	Screwed Ends / Butt Weld - DIN 11850 ROW 1
R4	Flange - ASME Raised Face (RF) - 250 to 500 AARH			3N	Screwed Ends / Butt Weld - DIN 11850 ROW 2
R6	Flange - EN Raised Face (RF) - 32 to 63 AARH (Smooth)			3R	Screwed Ends / Butt Weld - DIN 2559
R8	Flange - EN Raised Face (RF) - 125 to 250 AARH			3S	Screwed Ends / Butt Weld - ISO 1127 Raised Face (Standard)
R9	Flange - EN Raised Face (RF) - 250 to 500 AARH				
RJ	Flange - Ring Type Joint (RTJ)				
SE	Screwed Ends (Threaded)				
SW	Socket Weld - ASME B16.11				

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END CONNECTION (continued)

Code	Description	Code	Description
3T	Butt Weld - DIN 11850 ROW 1 / Flange - ASME Raised Face (Standard)	5D	Butt Weld - ISO 1127 / Flange - EN Flat Face (B1)
3U	Butt Weld - DIN 11850 ROW 1 / Flange - EN Raised Face (B1)	5E	Butt Weld - ISO 1127 / Flange - RTJ
3V	Butt Weld - DIN 11850 ROW 1 / Flange - ASME Flat Face (Standard)	5F	Butt Weld - ISO 1127 / Screwed Ends
3W	Butt Weld - DIN 11850 ROW 1 / Flange - EN Flat Face (B1)	5J	Butt Weld - 100 mm (4 in) Pipe Pup / Flange - ASME Flat Face (Standard)
4A	Butt Weld - DIN 11850 ROW 1 / Screwed Ends	5K	Butt Weld - 100 mm (4 in) Pipe Pup / Flange - EN Flat Face (B1)
4B	Butt Weld - DIN 11850 ROW 2 / Flange - ASME Raised Face (Standard)	5L	Butt Weld - 100 mm (4 in) Pipe Pup / Flange - RTJ
4C	Butt Weld - DIN 11850 ROW 2 / Flange - EN Raised Face (B1)	5M	Butt Weld - 100 mm (4 in) Pipe Pup / Screwed Ends
4D	Butt Weld - DIN 11850 ROW 2 / Flange - ASME Flat Face (Standard)	5N	Butt Weld - 100 mm (4 in) Pipe Pup / Flange - ASME Raised Face (Standard)
4E	Butt Weld - DIN 11850 ROW 2 / Flange - EN Flat Face (B1)	5P	Butt Weld - 100 mm (4 in) Pipe Pup / Flange - EN Raised Face (B1)
4F	Butt Weld - DIN 11850 ROW 2 / Flange - RTJ	6C	Butt Weld - ANSI B36.10 / Flange - ASME Raised Face (Standard)
4G	Butt Weld - DIN 11850 ROW 2 / Screwed Ends	6D	Butt Weld - ANSI B36.10 / Flange - EN Raised Face (B1)
4S	Butt Weld - DIN 2559 / Flange - ASME Raised Face (Standard)	6E	Butt Weld - ANSI B36.10 / Flange - ASME Flat Face (Standard)
4T	Butt Weld - DIN 2559 / Flange - EN Raised Face (B1)	6F	Butt Weld - ANSI B36.10 / Flange - EN Flat Face (B1)
4U	Butt Weld - DIN 2559 / Flange - ASME Flat Face (Standard)	6G	Butt Weld - ANSI B36.10 / Flange - RTJ
4V	Butt Weld - DIN 2559 / Flange - EN Flat Face (B1)	6H	Butt Weld - ANSI B36.10 / Screwed Ends
4W	Butt Weld - DIN 2559 / Flange - RTJ	ZZ	Special
4Y	Butt Weld - DIN 2559 / Screwed Ends		
5A	Butt Weld - ISO 1127 / Flange - ASME Raised Face (Standard)		
5B	Butt Weld - ISO 1127 / Flange - EN Raised Face (B1)		
5C	Butt Weld - ISO 1127 / Flange - ASME Flat Face (Standard)		

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DRILLING / SCHEDULE

Code	Description	Code	Description	Code	Description
1A	BSPT / Schedule 40	4G	Schedule 10 / PN 10	6M	Socket Weld / ASME 150
1C	BSPT / BSPP	4H	Schedule 10 / PN 16	6N	Socket Weld / ASME 300
1D	BSPT / Schedule 5	4J	Schedule 10 / PN 25	6P	Socket Weld / ASME 600
1H	Socket Weld / BSPT	4K	BSPT (Female) / PN 16	6Q	Socket Weld / ASME 900
1J	Socket Weld / NPT	4M	BSPT (Female) / PN 25	6R	Socket Weld / PN 10
1K	Socket Weld / BSPP	4N	BSPT (Female) / PN 40	6S	Socket Weld / PN 16
1L	NPT / Schedule 5	4P	BSPT (Female) / PN 64	6T	Socket Weld / PN 25
1M	NPT / Schedule 10	4Q	BSPT (Female) / PN 100	6U	Socket Weld / PN 40
1N	NPT / Schedule 40	4R	NPT (Female) / ASME 150	6V	Socket Weld / PN 64
1Q	NPT / BSPT	4S	NPT (Female) / ASME 300	6W	Socket Weld / PN 100
1R	NPT / BSPP	4T	NPT (Female) / ASME 600	6X	100 mm (4 in) Pipe Pup / ASME 150
1V	Schedule 10 / BSPT	4V	NPT (Female) / PN 10	6Y	100 mm (4 in) Pipe Pup / ASME 300
1W	Schedule 10 / NPT	4W	NPT (Female) / PN 16	7A	PN 10 / BSPP (Female)
1X	Schedule 10 / BSPP	4X	NPT (Female) / PN 25	7B	PN 16 / BSPP (Female)
2C	Schedule 40 / BSPT	4Y	NPT (Female) / PN 40	7C	PN 25 / BSPP (Female)
2D	Schedule 40 / NPT	5K	Schedule 10 / PN 40	7D	PN 40 / BSPP (Female)
2E	Schedule 40 / BSPP	5M	Schedule 10 / PN 64	7E	PN 64 / BSPP (Female)
2N	BSPP / Schedule 10	5N	Schedule 10 / PN 100	7F	PN 100 / BSPP (Female)
2R	BSPP / BSPT	5P	Schedule 40 / ASME 150	7G	ASME 150 / BSPT (Female)
2S	BSPP / NPT	5Q	Schedule 40 / ASME 300	7H	ASME 300 / BSPT (Female)
2T	BSPP / Schedule 5	5R	Schedule 40 / ASME 600	7J	ASME 600 / BSPT (Female)
2U	BSPP / Socket Weld	5T	Schedule 40 / PN 10	7V	ASME 150 / BSPP (Female)
2W	BSPT / Schedule 10	5U	Schedule 40 / PN 16	7W	ASME 300 / BSPP (Female)
3B	100 mm (4 in) Pipe Pup / BSPT	5V	Schedule 40 / PN 25	7X	ASME 600 / BSPP (Female)
3C	100 mm (4 in) Pipe Pup / NPT	5W	Schedule 40 / PN 40		
3D	100 mm (4 in) Pipe Pup / BSPP	5X	Schedule 40 / PN 64		
3F	BSPP / 100 mm (4 in) Pipe Pup	5Y	Schedule 40 / PN 100		
3J	NPT / 100 mm (4 in) Pipe Pup	6A	100 mm (4 in) Pipe Pup / ASME 600		
3G	BSPT / 100 mm (4 in) Pipe Pup	6B	100 mm (4 in) Pipe Pup / ASME 900		
3X	BSPP (Female) / PN 10	6C	100 mm (4 in) Pipe Pup / PN 10		
3V	BSPP (Female) / ASME 600	6D	100 mm (4 in) Pipe Pup / PN 16		
3Y	BSPP (Female) / PN 16	6E	100 mm (4 in) Pipe Pup / PN 25		
4A	NPT (Female) / PN 64	6F	100 mm (4 in) Pipe Pup / PN 40		
4B	NPT (Female) / PN 100	6G	100 mm (4 in) Pipe Pup / PN 64		
4D	Schedule 10 / ASME 300	6H	100 mm (4 in) Pipe Pup / PN 100		
4E	Schedule 10 / ASME 600				

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DRILLING / SCHEDULE (continued)

Code	Description	Code	Description	Code	Description
8A	PN 25 / NPT (Female)	A1	ASME 150	NA	Not Applicable (For Valve Center Sections only)
8B	PN 40 / NPT (Female)	A2	ASME 300	NS	NPT x Socket Weld
8C	PN 64 / NPT (Female)	A3	ASME 600	NT	NPT (Female)
8D	PN 100 / NPT (Female)	BN	BSPT x NPT	P2	PN 10
8E	ASME 150 / Schedule 10	BP	BSPP (Female)	P3	PN 16
8F	ASME 300 / Schedule 10	BS	BSPT x Socket Weld	P5	PN 25
8G	ASME 600 / Schedule 10	BT	BSPT (Female)	P6	PN 40
8J	PN 10 / Schedule 10	FA	ASME 150 / 100 mm (4 in) Pipe Pup	P8	PN 64
8M	PN 10 / BSPT (Female)	FB	ASME 300 / 100 mm (4 in) Pipe Pup	P9	PN 100
8N	PN 16 / BSPT (Female)	FC	ASME 600 / 100 mm (4 in) Pipe Pup	PB	PN 10 / 16
8P	PN 25 / BSPT (Female)	FE	PN 10 / 100 mm (4 in) Pipe Pup	PG	PN 25 / 40
8Q	PN 40 / BSPT (Female)	FF	PN 16 / 100 mm (4 in) Pipe Pup	SE	SAE (Female)
8R	PN 64 / BSPT (Female)	FR	ASME 600 / Socket Weld	SW	Socket Weld End
8S	PN 100 / BSPT (Female)	FG	PN 25 / 100 mm (4 in) Pipe Pup	W1	Schedule 10
8T	ASME 150 / NPT (Female)	FH	PN 40 / 100 mm (4 in) Pipe Pup	W4	Schedule 40
8U	ASME 300 / NPT (Female)	FJ	PN 64 / 100 mm (4 in) Pipe Pup	W5	Schedule 5
8V	ASME 600 / NPT (Female)	FP	ASME 150 / Socket Weld	ZZ	Special
8X	PN 10 / NPT (Female)	FQ	ASME 300 / Socket Weld		
8Y	PN 16 / NPT (Female)	FT	PN 10 / Socket Weld		
9A	PN 64 / Schedule 40	FU	PN 16 / Socket Weld		
9B	PN 100 / Schedule 40	FV	PN 25 / Socket Weld		
9M	PN 25 / Schedule 10	FW	PN 40 / Socket Weld		
9K	PN 16 / Schedule 10	FX	PN 64 / Socket Weld		
9N	PN 40 / Schedule 10	FY	PN 100 / Socket Weld		
9P	PN 64 / Schedule 10	GA	BSPP (Female) / ASME 150		
9Q	PN 100 / Schedule 10	GB	BSPP (Female) / ASME 300		
9R	ASME 150 / Schedule 40	KA	BSPP (Female) / PN 25		
9S	ASME 300 / Schedule 40	KB	BSPP (Female) / PN 40		
9T	ASME 600 / Schedule 40	KC	BSPP (Female) / PN 64		
9V	PN 10 / Schedule 40	KD	BSPP (Female) / PN 100		
9W	PN 16 / Schedule 40	KF	BSPT (Female) / ASME 300		
9X	PN 25 / Schedule 40	KG	BSPT (Female) / ASME 600		
9Y	PN 40 / Schedule 40	KJ	BSPT (Female) / PN 10		
		KK	PN 100 / 100 mm (4 in) Pipe Pup		
		KM	ASME 150 / Schedule 5		
		KN	ASME 300 / Schedule 5		
		KY	100 mm (4 in) Pipe Pup / Schedule 5		

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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
30	30 bar / 435 psi
P6	PN 40
P7	PN 50 / Cl300 Metric
P8	PN 64
70	70 bar
80	80 bar
P9	PN 100
A1	ASME 150
A2	ASME 300
ZZ	Pressure Rating not Specified

BODY MATERIAL

Code	Description
CJ	Carbon Steel EN1.0619
J1	Stainless Steel EN1.4408
ZZ	Special

BALL MATERIAL

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

STEM MATERIAL

Code	Description
U0*	Duplex
J6	Stainless Steel EN 1.4404 (X2CrNiMo17-12-2)
ZZ	Special

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
R7	RPTFE (Glass) + Anti-Static Packing
RA	RPTFE (Glass) - No Anti-Static Packing (NAP)
U1	UHMWPE
ZZ	Special

OPERATOR MOUNTING TYPE

Code	Description
I	ISO 5211

ACTUATION TYPE

Code	Description
L	Default Handle / Lever
B	Bare Stem

NOTE

* Indicates standard configuration.

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OPTIONAL FEATURES

Code	Description
Special Application	
ENC	EN1626 (Valves for Cryogenic Service)
END	EN14432 (Transport of Dangerous Goods)
Jacket Options	
JKF	Full Jacket - Standard Connections
JKC	Center Jacket - Standard Connections
Ball Options	
BVG	Degassing Ball (Body Cavity)
BVE	Vented Ball (Upstream Hole)
BVA	BVG + BVE
Valve Extension Options	
EC6	150 mm Cryogenic Extension
ECC	300 mm Cryogenic 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)
NPZ	Special Tag / Nameplate (per Customer PO)
Cleaning Procedure	
CLD	Oxygen Service Cleaning
CLE	Oil and Grease Surface Cleaning (GS-40)
CLZ	Special Cleaning (per Purchase Order)

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	
MC1	CMTRs (Manufacturer Standard)
MCJ	DIN 2.2 Material Test Reports (EN)
MCZ	Special CMTRs (per Purchase Order)
Positive Material Identification	
ME6	PMI (Body / Shell, Ball, Stem)
MEZ	PMI (per Purchase Order)
Magnetic Particle Examination	
MPZ	Magnetic Particle Examination (per Purchase Order)
Liquid Penetrant Examination	
LPZ	Liquid Penetrant Examination (per Purchase Order)
Radiographic Examination	
RGZ	Radiographic Examination (per Purchase Order)
Pressure Testing	
TPZ	Hydrostatic Test Report (per Purchase Order)
Other Testing	
LTI	Low Temp Impact Test as User Statement

NOTE

Consult your local Emerson representative for additional options.

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