

PRODUCT BALL VALVE RANGE

- FB = Floating split body
- MB = Floating threaded body
- MK = Floating double block & bleed
- MKQ = Floating double block & bleed with Quill
- FJ = Floating with integral jacket
- SE = Trunnion side entry
- TW = Trunnion 3 way
- TB = Trunnion twin balls

-Two or three pieces body.

-Full and reduce bore.

- Valve according to BS 5351– ASME B16.34 - ASME VIII Div.1.

-Automatic self relieving seat design. -Soft and metal seated version.

-Anti blow-out stem design system.

-Face to face according to ASME B16.10.

-Antistatic device according to BS 5351.

-Flanges according to ASME B16.5.

-BW ends in acc. to ASME B16.25.

-NPT ends in acc. to ASME B1.20.1.

-SW ends in acc. with ASME B16.11.

-Fire safe according to BS-6755 pt.2°/API6FA



EMMECI Valves can be furnish with manual operator : lever/hand wheel/gearbox/ bare stem or complete with actuated operator.

Elastomer seal design





											PO	S. PART. NAME	MATERIAL	MDS	EDS	
• D •												BODY	ASTM B381 Gr.2	T01		
												SEAT	PTFE		NSS1	
												BALL	ASTM B381 Gr.5			
											04	STEM	ASTM B381 Gr.5			
-												STEMCOVER	ASTM B381 Gr.2			
(02)(ASTM B381 Gr.2			
\perp													AISI 316			
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		$\sim / U $	the second se	, />	17	STEM LIP SEAL RING	ASTM B381 Gr.2									
			┢╍┙┷╸		51	STUD	ASTM A193 B7+HDG		NBO2							
													ASTM A194 2H+HDG		NBO2	
												LEVER NUT	AISI 316			
												SCREW	AISI 316			
												1 SCREW	ASTM A193 B7+HDG			
													PTFE			
												BEARING	AISI 316+PTFE		NSM1	
												LIP SEAL	PTFE+ELGILOY			
												GASKET	GRAPHITE			
			(66				\sim				64	GASKET SWT	AISI 316+GRAPHITE			
										.	66	SPRING	INCONEL 625			
												NOTE: - Dimension in mm, weight in kg - Valves according to BS 5351 - B16.34 - ASME VIII Div.1 - Flanges according to ASME B16.5 - Face to face according to API 6D - ASME B16.10 - Antis tatic device according to BS. 5351 - Fire safe according to BS-6755 Pt.2*/API6FA - Materials according to Norsok M660 - SPEC. BLAT10R				
ITEM:	QTY:	SIZE:	CLASS:	ENDS:	А	в	с	D	Weight:	TOP FLANGE		4				
1	20	1/2"	150	RF	108	13	77	185	3	F04		EMMECI _ VALNO	BALL SPLIT BOD			
2	20	1"	150	RF	127	25	104	185	5	F04		RN.	GENERAL	ASSEMBLY		
3	10	1-1/2"	150	RF	165	38	124	275	12	F05		R.S. 06.03	15 8	745		
	20	2"	150	RF	178	49	138	275	15	F05		06.03				

Cryo low temp. design



Metal seated High temp. design



MB = Floating threaded body

-Two or three pieces body.

- -Full and reduce bore.
- Valve according to BS 5351.
- -Automatic self relieving seat design.
- -Face to face according to manufacturer std.
- -Anti blow-out stem design system.
- -Antistatic device according to BS 5351.
- -BW ends in acc. to ASME B16.25.
- -NPT ends in acc. to ASME B1.20.1.
- -SW ends in acc. with ASME B16.11.

-Fire safe according to BS-6755 pt.2°/API6FA



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MK = Floating double block & bleed

-Full and reduce bore.

- Valve according to BS 5351– ASME B16.34 - ASME VIII Div.1.

-Automatic self relieving seat design.

-Soft and metal seated version.

-Anti blow-out stem design system.

-Face to face according to manufacturer standard or customer data sheet.

-Antistatic device according to BS. 5351.

-Flanges according to ASME B16.5.

-BW ends in acc. to ASME B16.25.

-NPT ends in acc. to ASME B1.20.1.

-SW ends in acc. with ASME B16.11.

-Fire safe according to BS-6755 pt.2°/API6FA



MK = Floating double block & bleed

Elastomer seal design





MK = Floating double block & bleed

Metal seated High temp. design



MKQ = Floating double block & bleed with Quill

-Full and reduce bore.

- Valve according to BS 5351– ASME B16.34 - ASME VIII Div.1.

-Automatic self relieving seat design.

-Soft and metal seated version.

-Anti blow-out stem design system.

-Face to face according to manufacturer standard or customer data sheet.

-Antistatic device according to BS. 5351.

-Flanges according to ASME B16.5.

-BW ends in acc. to ASME B16.25.

-NPT ends in acc. to ASME B1.20.1. -SW ends in acc. with ASME B16.11.

-Fire safe according to BS-6755 pt.2°/API6FA -Quill dimensions in according customer data sheet.



MKQ = Floating double block & bleed with Quill



FJ = Floating with integral jacket

-Full and reduce bore.

- Valve according to BS 5351– ASME B16.34 - ASME VIII Div.1.

-Automatic self relieving seat design.-Metal seated version or Solid graphite seat for HT temperature service.

-Anti blow-out stem design system.

-Face to face according to ASME B16.10.

-Antistatic device according to BS 5351.

- -Flanges according to ASME B16.5.
- -BW ends in acc. to ASME B16.25.
- -NPT ends in acc. to ASME B1.20.1. -SW ends in acc. with ASME B16.11.
- -Sw ends in acc. with ASME B10.11. -Fire safe according to BS-6755 pt.2°/API6FA

-Integral jacket on body with camera for inlet and outlet steam.



FJ = Floating with integral jacket

Metal seated High temp. design



-Two or three pieces body.

- -Full and reduce bore.
- Valve according to API 6D– ASME B16.34 ASME VIII Div.1.
- -Automatic self relieving seat design.
- -Soft and metal seated version.
- -Double piston effect (on request).
- -Double block & bleed seat design.
- -Soft and metal seated version.
- -Anti blow-out stem design system.
- -Face to face according to ASME B16.10/API 6D.
- -Antistatic device according to API 6D.
- -Flanges according to ASME B16.5.
- -BW ends in acc. to ASME B16.25.
- -SW ends in acc. with ASME B16.11.
- -Fire safe according to BS-6755 pt.2°/API6FA

EMMECI Valves can be furnish with manual operator : lever/hand wheel/gearbox/ bare stem or complete with actuated operator.

Elastomer seal design







Cryo low temperature design







-Full and reduce bore.

- Valve according to BS 5351– ASME B16.34 - ASME VIII Div.1.

-Automatic self relieving seat design on inlet way and double piston effect on outlet ways. -Soft and metal seated version.

-Anti blow-out stem design system.

-Face to face according to manufacturer standard or customer data sheet.

-Antistatic device according to BS 5351.

- -Flanges according to ASME B16.5.
- -BW ends in acc. to ASME B16.25.
- -SW ends in acc. with ASME B16.11.

-Fire safe according to BS-6755 pt.2°/API6FA



EMMECI Valves can be furnish with manual operator : lever/hand wheel/gearbox/ bare stem or complete with actuated operator.

Elastomer seal design





Metal seated High temp. design



TB = Trunnion twin balls

-Full and reduce bore.

- Valve according to API 6D– ASME B16.34 - ASME VIII Div.1.

-Automatic self relieving seat design.

-Soft and metal seated version.

-Double piston effect (on request).

-Double block & bleed seat design.

-Soft and metal seated version.

-Anti blow-out stem design system.

-Face to face according to ASME B16.10/API 6D.

-Antistatic device according to API 6D.

-Flanges according to ASME B16.5.

-BW ends in acc. to ASME B16.25.

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-Fire safe according to BS-6755 pt.2°/API6FA



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TB = Trunnion twin balls

Elastomer seal design





Special request coating on Ball/seat

Applied thickness :

- Tungsten Carbide : 150 \div 400 μ mm. (wear, corrosion)
- Chromium Carbide : 150 μ mm. (wear, corrosion, temperature)







Seals design (temp. range -29°C to 180°C)

Primary Static & Dynamic O-Ring Seal



Secondary gasket : Fire Safe Graphite



Fire Safe Test Qualification

ball valves have been designed to comply with the ire safety standard of API 607 e API 6FA as well as ISO 10497. Fire safe qualification tests are witnessed by independent inspection authority and cover the whole production range.



Seals design (temp. range -196°C to 200°C)

Primary Static & Dynamic Lip Seal spring energized gasket



Fire Safe Seals Graphite



Metallic materials and seals are selected to maximise valve performance at the specified temperatures. Extended bonnet is provided for the lowest temperature. Special spring energised lip seals are used to guarantee fugitive emission control even on gas service at -196°C.



Seals design (temp. range 220°C to 400°C)

STATIC SEAL Spiral wound gasket



Fire Safe Seals Graphite



DYNAMIC SEAL

Energized «V» Pack for seat and stem seal area



Special threatment anti-corrosion (only if Request) (Electroless Nickel Plated on TRIM components)

E.N.P. is normally applied to obtain :

- wear resistance
- corrosion resistance
- low friction

Applied thickness :

- 0.025 μ mm.
- 0.050 μ mm.
- 0.075 μ mm.

Obtainable hardness :

- 500 HV (49 HRC) without H.T.
- 600 HV (55 HRC) with 200 °C H.T.
- 700 HV (60 HRC) with 300 °C H.T.
- 800 HV (64 HRC) with 520 °C H.T.
- 950 HV (68 HRC) with 400 °C H.T









On request possible cladding body/closure an all wetted surfaces.

WELD OVERLAY MATERIALS: -316L / 304L -Inconel 625, Incoloy 825