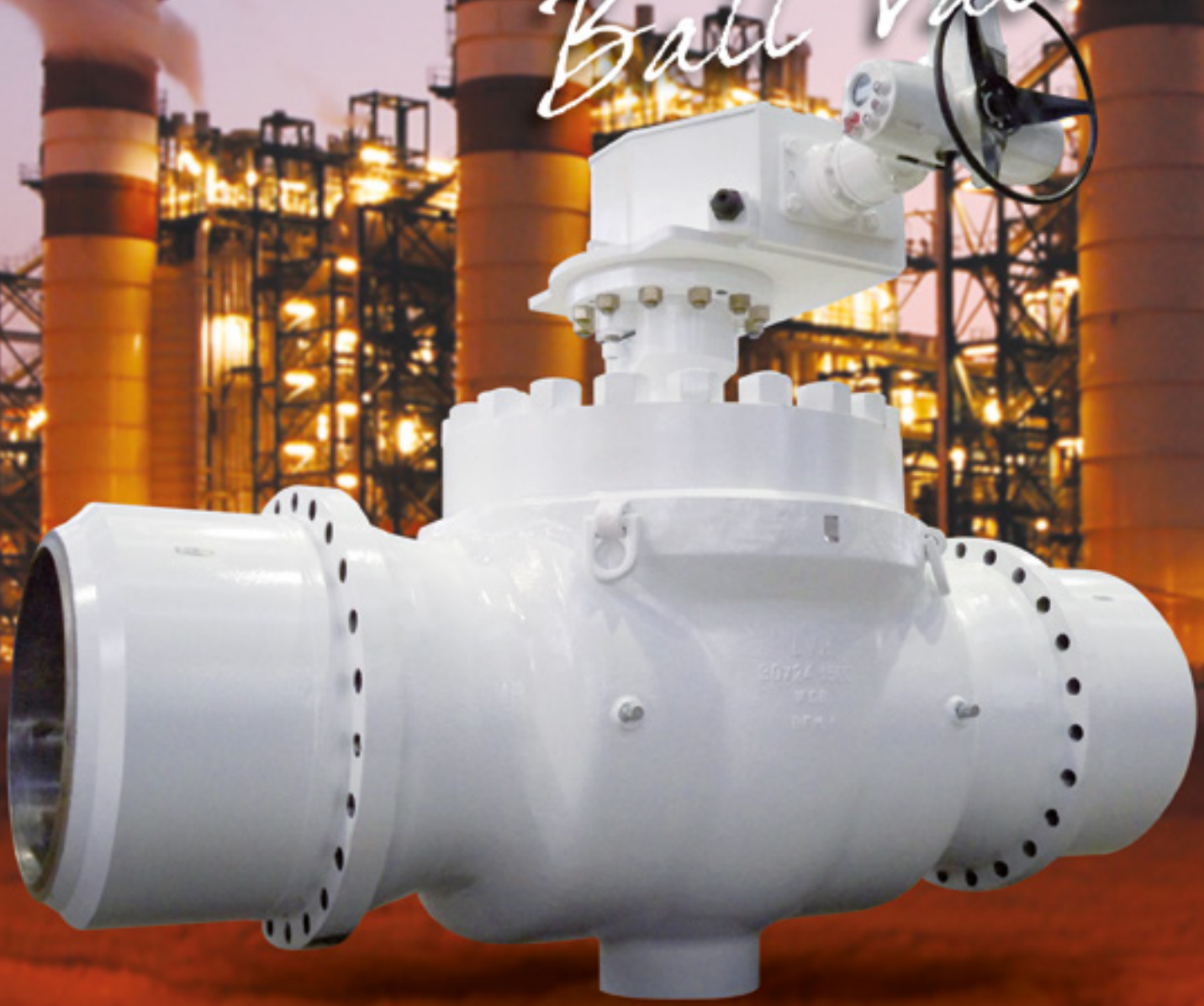
TTE

TOP-ENTRY

Ball Valves.



RMT Valvomeccanica

Trunnion **Top Entry** Ball Valves

High In-Time Reliability

- Critical Areas Protection from External Particles
- Partial or Full Internal C.R.A. Overlay (625).

Material Selection

- In Accordance with Dedicate International Standards and Additional Client Requirements.
- Soft and Metal-to-Metal Seat to Ball Design.


TTE
Fully
Customizable
Static &
Dynamic
Seal Design
Suitable
for any
Required
Operator

Material Specification

Parts	CARBON STEELS	AUSTENITIC SS	DUPLEX SS SUPERDUPLEX SS	OTHER SS	NICKEL ALLOYS
Body	A216-WCB A352-LCB / A352-LCC A105 / A350-LF2	A351-CF8 A351-CF8M A182-316 A182-F321	A890-J92205 A182 F51	-	-
Bonnet & Glandplate	A105 A350 LF2 (notes 1 -2)	AISI 316 AISI 321	A182 F51 A182 F53 A182 F55	-	-
Ball & Seats	A105 + ENP 75µm A350 LF2 + ENP 75 µm A350 LF3 + ENP 75 µm *(note 3)*	AISI 316 AISI 321 *(notes 3-4)*	A182 F51 A182 F53 A182 F55 *(notes 3-4)*	A564 Gr. 630 (17-4PH) *(notes 3-4)*	-
Seat Insert	**Soft Seated**: **Metal-to-Metal Seated**:	PTFE - RPTFE - Nylon 12 - Devlon - Peek - KEL-F - Vespel. Tungsten Carbide Coated (TCC) - Chromium Carbide Coated (CCC), 120 µm minimum thickness.			
Stem	AISI 4140 + ENP 75 µm	AISI 316 A182 F XM-19 *(note 4)*	A182 F51 A182 F53 A182 F55 *(note 4)*	A564 Gr. 630 (17-4PH) *(note 4)*	-
Bolting	A193 B7/A194 2H A193 B7M/A194 2HM A320 L7/A194 Gr.4 A320 L7M/A194 Gr.7M *(notes 5-6-7)*	A193 B8/A194 Gr.8 A193 B8M A194 GR.8M	A182 F51 A182 F53 A182 F55	A453 Gr. 660	-
Springs	-	-	-	-	Inconel X750 Inconel 718
Transition Pieces	API 5L X42-X52-X60 A694 F42-F52-F60				
Seals	**O-Rings** (Std Temp.): **Lipseals** (Low Temp.): **Graphite** or **Spiral Wound** (High Temp.):	A1) Fluoroelastomer (Viton® - Viton GLT®) / A2) Hydrogenate Nitrile (HNBR), A3) Perfluoroelastomer (Kalrez®) B1) RPTFE + ELGILOY® C1) Graphite 98% / C2) SS316 + Graphite.			

All combinations of the above materials are possible.

OPTIONAL FEATURES

1. 3mm. Inconel 625 weld overlay on dynamic seals areas.

2. 3mm. Inconel 625 weld overlay on all wetted parts.

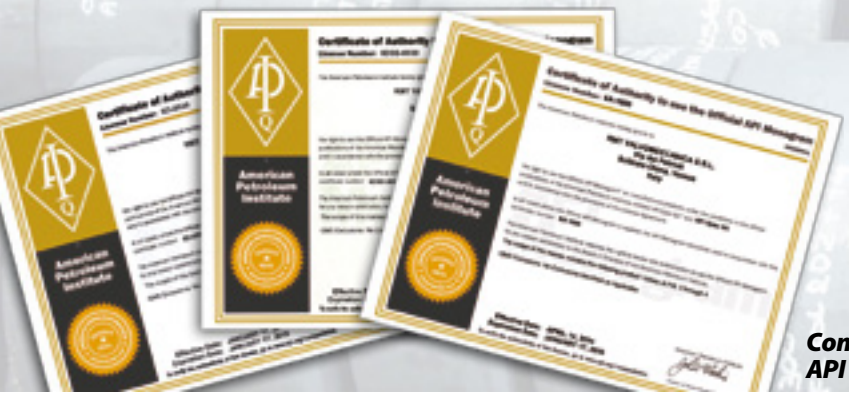
3. Hard coating (TCC-CCC) on ball and seat contact surfaces (metal-to-metal design), 120 µm minimum thickness.

4. ENP 25 µm

5. Zinc plated (10-20 µm)

6. Hot Dip Galvanized - HDG (ASTM A153 or ISO 1461)

7. Fluorocarbon Coated



Construction and testing in accordance with API 6D / API 6DSS / API 6A / ASME B16.34.

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