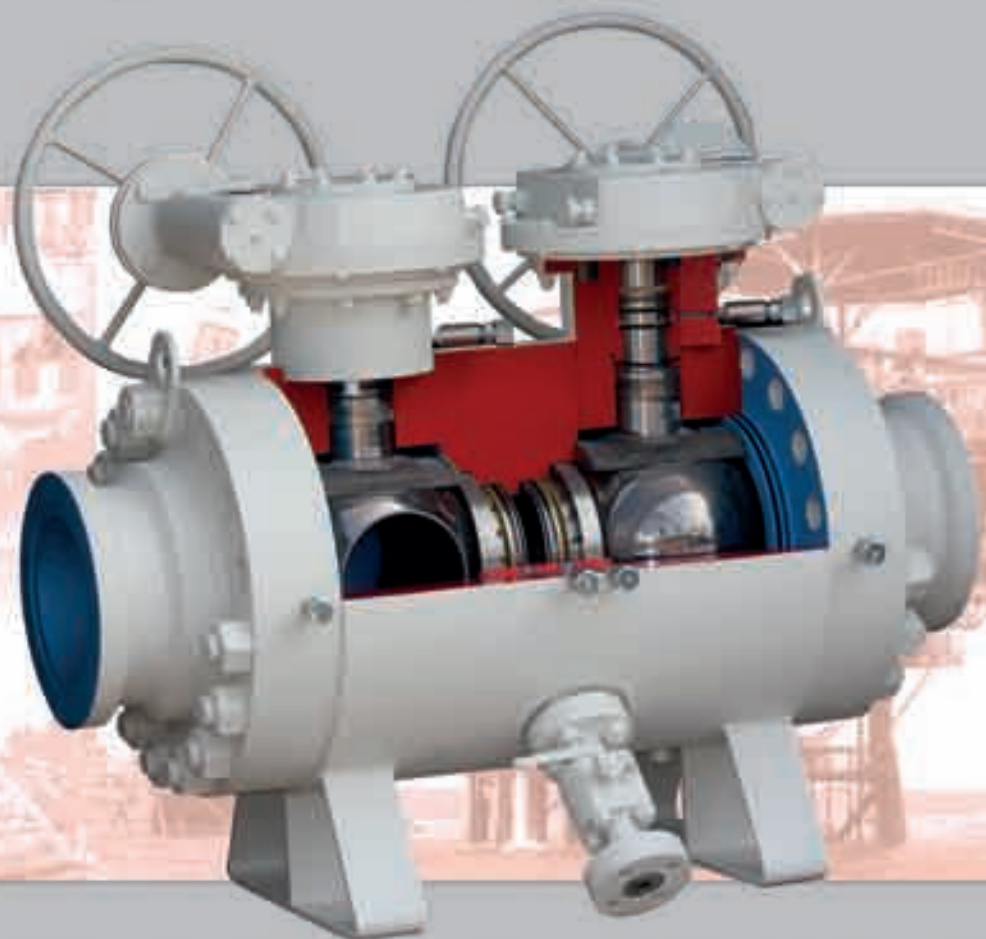


DAFRAM



**Twin ball double block  
and bleed valves**

**Trunnion mounted & floating**



**T/D**



TRUNNION MOUNTED DBB BALL VALVE CARTRIDGE TYPE



FLOATING BALL VALVE BOLTED TYPE





TRUNNION MOUNTED DBB BALL VALVE BOLTED TYPE

## Double Block and Bleed Valves

Double Block and Bleed valves assure double isolation function thanks to two obturators inserted in a single body and they provide the bleed function by means of a bleed/vent system located between obturators (body port and ball, gate or needle valve). From the trunnion mounted and floating ball valve design, Dafram derived a series of DBB valves with several different constructions and features to meet Customer requirements. Dafram DBB solutions lead to several advantages such as:

- A Twin Ball Double Block and Bleed valve can have the same face-to-face dimension of a standard ball valve
- Weight and costs saving
- Same characteristics of Dafram standard series (split body or fully welded construction; onshore, offshore or subsea configuration available; fire-safe, anti-static, anti-blow-out design; self-relieving or double piston effect seat design; grease injection system for ball/stem on request)
- Reduced leak paths to the environment and ease of in-line leak detection
- Increased reliability for the system (SIL, Fugitive emissions)



# DAFRAM



## Certifications & Approvals

- ISO 9001-2000
- API Spec. Q1
- 97/23/EC PED
- TA-LUFT
- SIL 3
- 94/9/EC ATEX
- Fire-Safe to API 6FA and ISO 10497
- Quality and HSE Integrated Management System according to ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007



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