



Side Entry, Top Entry, Double Ball Trunnion Valves







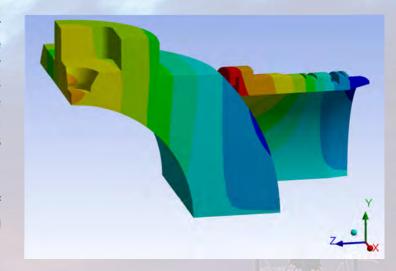


COMPANY PROFILE

DAFRAM S.p.A., founded in 1956, was the first company to manufacture floating ball valves in Italy. The long experience gathered during more than 60 years of activity ensures that DAFRAM is one of the most famous and competitive ball valve companies in the world. Today DAFRAM is a specialized manufacturer of high quality ball valves for Chemical, Petrochemical, Oil&Gas, Power Generation, both for on-off and flow control applications.

DAFRAM's factory is located in Urbisaglia (Macerata), in the center of Italy, on an industrial complex of more than 32000 square meters, 12000 of which are covered workshops. The company departments include commercial, technical and engineering offices and the factory consists of two extremely modern workshops. These extensive facilities provide design, production, assembling, testing, painting and welding of ball valves up to large sizes and weights under one roof.

In today's competitive market, DAFRAM is an excellent example of how to integrate the principles of continuous improvement through a widespread application of **lean philosophy** at all levels.











API 6A APPLICATION – TECHNICAL DESCRIPTION



The use of API 6A Ball Valves is becoming more and more popular in many Offshore applications (Topside and Subsea) and Onshore Production and Process equipment. Special design solutions and high performance materials allow trunnion ball valve construction to be the best technical and efficient solution for Safe Isolation of pipeline and process as SDV, ESDV, HIPPS and MOV valves.

DAFRAM long experience and proven quality are fully employed to perform engineering and manufacturing of these very critical valves. Different construction typologies and material combinations are available in order to best fit demanding process conditions and Customer requirements.

STANDARD FEATURES

- Side-entry construction: 2 pieces split bolted body, easily removable from the line and easy to maintain
- Top-entry construction: full in-line maintenance (also in vertical installations, on request)
- Double Ball construction DBB: two obturators (balls) with overall space and weight saving, several bleed configurations available
- Double Block & Bleed function (stem seals in-line maintenance)
- Self-relieving seat design
- Antistatic device
- Anti blow-out stem
- Fire safe certification according to API 6FA. Fire safe design design according to API 6FA API 607 BS 6755 Part 2

OPTIONAL FEATURES

- Double Piston Effect seats (DIB-1 or DIB-2 valves)
- Emergency sealant injection system
- Weld overlay on sealing areas or integral on wetted parts
- Metal-to-metal seat design, no leakage PSL 3G / PSL 4 with DAFRAM compact design (minimum weight)
- Extended bonnet for High Temperature or Cryogenic service
- Vent/drain configuration according to Customer requirements
- Bleed valve of Double Ball Valves according to Customer requirements

PRODUCTION RANGE

Pressure rating:

API 2000, 3000, 5000, 10000, 15000

Sizes:

From 1/2" to 13". Full or Reduced Bore. Other sizes available upon request

Construction:

Side-entry, Top-entry, Double Ball (Double Block&Bleed)

End Connections:

Ring Joint Type 6B/6BX. Butt weld, Hub End, Custom flange types available upon request

End-to-end and overall dimensions:

According to valve type and Customer requirements (API 6A as reference)

Materials:

Body (API 60K-75K) and Trim: Carbon Steel, Low-alloy Steel, Martensitic SS, Duplex or Superduplex SS, Nickel Alloys, Titanium

Weld Overlay:

On sealing areas or wetted surfaces on request. Inconel or duplex overlay.

Seat:

Peek, Metal (TCC hardfacing)

Material Class:

AA, BB, CC, DD, EE, FF, HH, ZZ

Seals:

Triple barrier stem seal, double barrier body and seat ring seals, fire-safe secondary seals

Temperature Class:

K, L, N, P, R, S, T, U, V, X, Y

Product Specification Level:

PSL 1, PSL 2, PSL 3, PSL 3G, PSL 4

Performance Requirements:

PR1, PR2

Low Fugitive Emissions:

Up to ISO 15848-1 & 2 class AH / Shell MESC SPE 77/300 & 312 class A(HS)

DAFRAM APPROVALS

DAFRAM obtained the first API 6A monogram license in 2010, certificate 6A-1175



Certificate of Authority to use the Official API Monogram License Number: 6A-1175 ORIGINAL

The American Petroleum Institute hereby grants to

DAFRAM S.P.A. Contrada Montedoro N°13 (Ex SP78 Km 6) Urbisaglia, Macerata Italy

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-6A** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **6A-1175**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Gate, Ball, Plug Valves at PSL 1, PSL 2, PSL 3, PSL 4

QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: MARCH 31, 2024 Expiration Date: MARCH 31, 2027

To verify the authenticity of this license, go to www.api.org/compositelist.

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DNV-GL

PR2 test certificate by DNV-GL

API 6A license certificate up to PSL 4

DAFRAM EXPERIENCE - Case studies



Valve size & class: 5.1/8" API 15000

Construction: side entry

PSL: 3

Body/trim material: F51/S31803 + TCC

Seat material: TCC

Service: HIPPS - Sour

Project: BIEN DONG 1 PROJECT - HIPPS

VALVES



Valve size & class: 4.1/16" API 10000

Construction: top entry

PSL: 3G

Body/trim material: F55/S32760 + TCC

Seat material: TCC

Service: Sour gas

Project: ASSIL&KARAM PROJECT



Valve size & class: 4.1/16" API 10000

Construction: DBB

PSL: 3

Body/trim material: 4130/F51

Seat material: PEEK

Service: FPSO production

Project: HI39621 FPSO ALFA

Complete reference list is available upon request



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