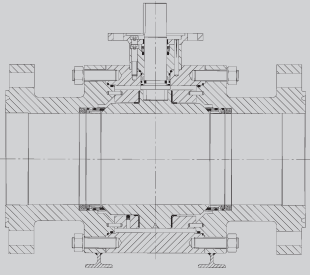




Shut-Off Ball Valve Type **IS-E**

The economical split body valve
from 4" to 36"





Introduction

ITAG manufactures two types of vertically split body ball valves, the IS-E for standard applications and the IS-H for severe requirements with a wide range of material selection and sealing technology.

This folder describes the standard type IS-E valve. Please contact us if different sizes or materials are required.

Application

ITAG's split body ball valve type IS-E is an economical shut-off valve for pipelines and other industrial applications.

It is suitable for a wide range of liquid and gaseous flow media.

Sizes, Operating Ranges & Valve Ends

The IS-E program covers the following sizes and operating ranges:

Nominal Sizes	4 in. – 36 in. (DN 100 – DN 900)
Pressure Classes	ANSI Class 600 – Class 1500 (PN 100 – PN 250)
Operating Temperatures	-10 °C – + 80 °C (14 °F – 176 °F)
Valve Ends	Flanges acc. to ASME B16.5 / B16.47

For available size–pressure combinations and other technical data please ask for detailed data sheets.

Materials

Body	Forged carbon steel (ASTM A 105)
Ball	13% chrome steel (AISI 410)
Seat Rings	13% chrome steel (AISI 410)
Seat Sealing System	Reinforced PTFE compound
Seat-to-Body Sealing System	FKM/FPM o-ring plus graphite seal
Stem	13% chrome steel (AISI 410)
Stem Packing	FKM/FPM o-ring plus graphite seal
Body Seals	FKM/FPM o-ring plus graphite seal

Standards

The IS-E valves are designed, manufactured and tested according to API Specification 6D.

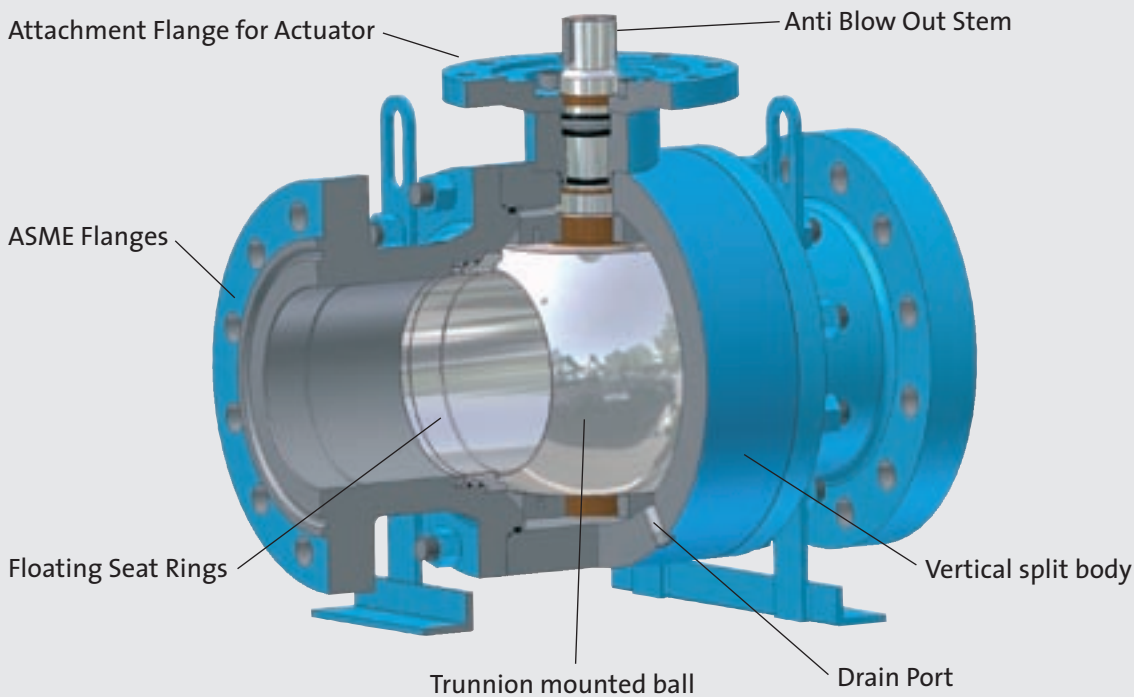
Materials for wetted parts meet NACE MR0175 requirements.

Fire safe design tested according to API 6FA and EN ISO 10497.

Actuators

The ball valve type IS-E can be equipped with a variety of actuator types (electric, hydraulic or pneumatic).

Dependent on size and pressure class also manually operated versions (lever, gearbox with hand wheel) are available.



Design Features

- **Vertical split three piece body**
Can be disassembled without special tools, allows maintenance and repair of all inner parts.
- **Trunnion mounted ball**
Maintenance-free PTFE-coated bearings give low operating torque.
- **Floating pressure-supported single piston self relieving seat rings, soft seated**
The self relieving seat ring design prevents inadmissible overpressure in the body cavity.
- **Anti Blow out Stem**
Prevents stem ejection by internal pressure when the stem packing retainer has been removed.
- **Double Block and Bleed**
Both in open and closed position of the ball the body cavity is isolated from up- and downstream line pressure. This allows double block and bleed testing of the valve seals.
- **Drain Port**
Enables draining the cavity and double block and bleed testing.
- **Anti Static Design**
Prevents the building up of static electricity. This allows to use the valve also in explosive atmospheres.
- **Fire Safe Design, Fire Tested**
Seat-to-body seals, stem packing and body seals are backed up with graphite seals. Fire tested according to international standards.

Options

The following options are available on request:

- **Extended Temperature Range**
-30 – +120 °C (-22 – 248 °F), body material ASTM A 350 LF2
- **PMSS Seat Rings**
Seat rings with primary metal, secondary soft sealings.
- **Vent Port**
- **Secondary Sealant System at Stem and Seat Rings**
Emergency sealant system. In the case that seals are damaged, suitable sealant can be injected into the relevant ports.

ITAG

Valves & Oilfield Products

Company Profile

ITAG Valves & Oilfield Products GmbH (IVOP) is a company division of the privately owned Hermann von Rautenkranz Internationale Tiefbohr GmbH & Co. KG – ITAG.

ITAG was founded in 1912 and is involved in drilling for oil and gas, warehousing & logistics, gas & oil concessions, specialist machining and product design and manufacturing, predominantly for the oil and gas industry.

IVOP, ITAG's valves and oilfield products division, develops and manufactures top entry, fully welded and split body ball valves, subsea and pig valves and other oilfield related equipment.

IVOP's quality management system is certified according to ISO 9001, API Q1 and the European Pressure Equipment Directive 97/23/EC.

IVOP is official licensee of the API Monogram Program for API Specs 6A, 6D and 7.

Production Facilities

ITAG Valves & Oilfield Products runs a manufacturing plant in Germany with CNC machines, weld shop and equipment according to the latest state of the art. Test benches enable pressure test of valves with sizes up to 60 in.

IVOP may source products and components from other suppliers where the required quality can be obtained more cost effectively. Such suppliers will be certified equivalent to ISO 9000 as a minimum. IVOP will have close control over material and dimensional specification conformance of such components.



Fire Safe Test

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