

STANDARDS

(API) American Petroleum Institute

Spec 6D, Specification for Pipeline
Valves Gate, Plug, Ball, and Check Valves)
598, Valve Inspection and Testing

American Society of Mechanical Engineers (ASME)

B16.1, Cast Iron Pipe Flanges and
Flanged Fittings
B16.4, Gray Iron Threaded Fittings
B16.5, Pipe Flanges and Flanged
Fittings for steel, nickel-based alloys and other alloys
B16.10, Face-to-Face and End-to-End
Dimensions of Valves (see ISA standards for dimensions for most control valves)
B16.24, Cast Copper Alloy Pipe
Flanges and Flanged Fittings
B16.25, Buttwelding Ends
B16.34, Valves - Flanged, Threaded,
and Welding End
B16.42, Ductile Iron Pipe Flanges and
Flanged Fittings
B16.47, Large Diameter Steel Flanges
(NPS 26 through NPS 60)

European Industrial Valve Standards

EN 19, Marking
EN 558-1, Face-to-Face and
Centre-to-Face Dimensions of Metal
Valves for Use in Flanged Pipe
Systems - Part 1: PN-Designated Valves



EN 558-2, Face-to-Face and

Centre-to-Face Dimensions of Metal

Valves for Use in Flanged Pipe

Systems - Part 2: Class-Designated Valves

EN 593, Butterfly valves

EN 736-1, Terminology - Part 1: Definition of types of valves

EN 736-2, Terminology - Part 2 Definition of components of valves

EN 736-3 Terminology - Part 3 Definition of terms

EN 1349, Industrial Process Control Valves

EN 12266-1, Testing of valves - Part 1 Tests, test procedures and acceptance criteria

EN 12516-1, Shell design strength -Part 1: Tabulation method for steel valves

EN 12516-2, Shell design strength -Part 2: Calculation method for steel valves

EN 12516-3, Shell design strength -Part 3: Experimental method

EN 12627, Butt weld end design

EN 12760, Socket weld end design

EN 12982, End to end dimensions for butt welding end valves

European Material Standards

EN 10213-1, Technical conditions of delivery of steel castings for pressure

purposes - Part 1: General

EN 10213-2, Technical conditions of delivery of steel castings for pressure purposes - Part 2: Steel grades for use at room temperature and elevated temperatures

EN 10213-3, Technical conditions of delivery of steel castings for pressure purposes Part 3: Steel grades for use at low temperatures

EN 10213-4, Technical conditions of delivery of steel castings for pressure purposes

Part 4: Austenitic and austeno-ferritic steel grades

EN 10222-2, Technical conditions of delivery of steel forgings for pressure Purposes

Part 2: Ferritic and martensitic steels for use at elevated temperatures

EN 10222-3, Technical conditions of delivery of steel forgings for pressure

Part 3: Nickel steel for low temperature

EN 10222-4, Technical conditions of delivery of steel forgings for pressure purposes

Part 4: Fine grain steel

EN 10222-5, Technical conditions of delivery of steel forgings for pressure purposes

Part 5: Austenitic martensitic and austeno-ferritic stainless steel

European Flange Standards

EN 1092-1, Part 1: Steel flanges PN designated

EN 1092-2 (September 1997), Part 2 Cast iron flanges PN designated

EN 1759-1, Part 1: Steel flanges Class designated

Fluid Controls Institute (FCI)

Leakage70-2-1991, Control Valve Seat

Instrument Society of America(ISA(

S51.1, Process Instrumentation Terminology

S75.01, Flow Equations for Sizing Control Valves

S75.02, Control Valve Capacity Test Procedures

S75.03, Face-to-Face Dimensions for Flanged Globe-Style Control Valve Bodies (Classes 125, 150, 250, 300 and 600)

S75.04, Face-to-Face Dimensions for Flangeless Control Valves Classes 150, 300, and 600

S75.05, Terminology

S75.07, Laboratory Measurement of Aerodynamic Noise Generated by Control Valves

S75.08, Installed Face-to-Face

Dimensions for Flanged Clamp or Pinch Valves

S75.11, Inherent Flow Characteristic and Rangeability of Control Valves

S75.12, Face-to-Face Dimensions for Socket Weld-End and Screwed-End Globe-Style Control Valves Classes)150, 300, 600, 900, 1500, and 2500)

S75.13, Method of Evaluating the Performance of Positioners with Analog Input Signals

S75.14, Face-to-Face Dimensions for Buttweld-End Globe-Style Control Valves (Class 4500)

S75.15, Face-to-Face Dimensions for Buttweld-End Globe-Style Control Valves (Classes 150, 300, 600, 900 1500, and 2500)

S75.16, Face-to-Face Dimensions for Flanged Globe-Style Control Valve Bodies (Classes 900, 1500, and 2500)

S75.17, Control Valve Aerodynamic Noise Prediction

S75.19, Hydrostatic Testing of Control Valves

S75.20, Face-to-Face Dimensions for Separable Flanged Globe-Style Control Valves (Classes 150, 300 and 600)

S75.22, Face-to-Centerline

Dimensions for Flanged Globe-Style Angle Control Valve Bodies (Classes 150, 300, and 600)

RP75.23, Considerations for Evaluating Control Valve Cavitation International Electrotechnical Commission (IEC)

The majority of International Electrotechnical Commission (IEC) standards for control valves, several of which are based on ISA standards. have been re-published as EN standards and utilize an EN prefix. The IEC encourages national committees to adopt them and to withdraw any corresponding

national standards. IEC standards are increasingly being applied by manufacturers and purchasers. Below is a list of IEC industrial process control valve standards (60534 series).

terminology and general considerations 60534 -1, Part 1: Control valve

60534-2-1, Part 2: Flow capacity -Section One: Sizing equations for

incompressible fluid flow under installed conditions (based on ISA S75.01)

60534-2-3, Part 3: Flow capacity -Section Three: Test procedures

(based on ISA S75.02)

routine testing 60534 -4, Part 4: Inspection and

60534-5, Part 5: Marking

60534-6-1, Part 6: Mounting details

for attachment of positioners to control valve actuators-Section One positioner mounting on linear actuators

60534-6-2, Part 6: Mounting details

for attachment of positioners to control

valve actuators - Section Two:

Positioner mounting on rotary actuators

60534-7, Part 7: Control valve data Sheet

60534-8-1, Part 8: Noise

considerations - Section One:

Laboratory measurement of noise generated by aerodynamic flow through control valves based on ISA S75.07))

60534-8-2, Part 8: Noise

considerations - Section Two:

Laboratory measurement of noise generated by hydrodynamic flow through control valves

60534-8-3, Part 8: Noise

considerations - Section Three:

Control valve aerodynamic noise prediction method (based on ISA S75.17)

60534-8-4, Part 8: Noise

considerations - Section Four:

Prediction of noise generated by hydrodynamic flow International Standards Organization (ISO)

5752, Metal valves for use in flanged

pipe systems - Face-to-face and center-to-face dimensions

