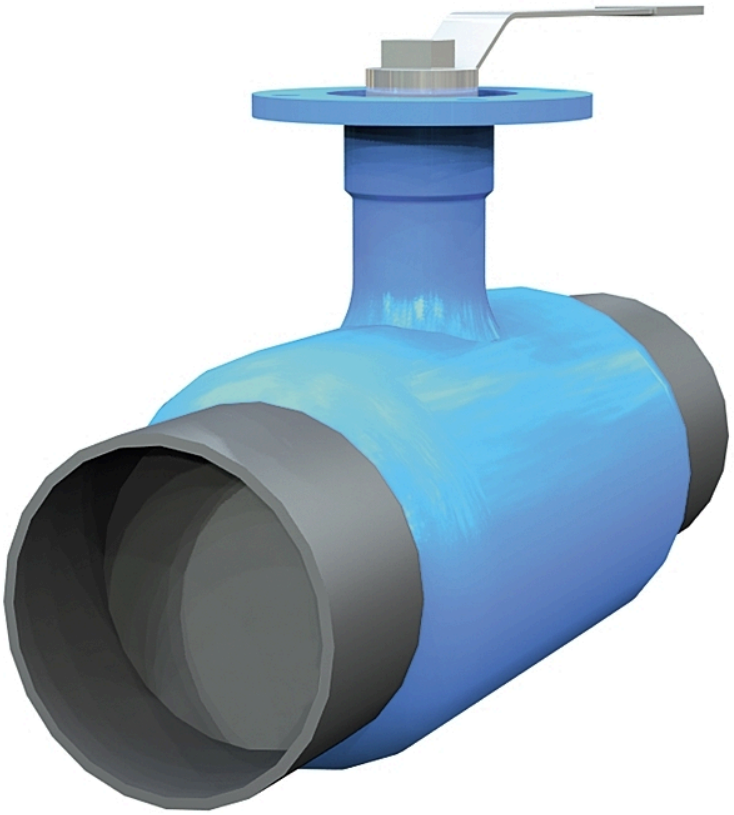


Product information

Fully welded pipe construction with welded ends, the ball is fully closed. Designed for direct welding into pipe systems. Shut-off valve for hot and cold water systems as well as compressed air and gases. The ball is clamped between two seat rings of carbon-filled PTFE. All dimensions are equipped with ISO tops.

Dimension range (DN)	10 - 300
PN	25 - 40
Temperature (°C)	-20 - 200
Main material	Steel

Area of use

Shut-off valve for hot and cold water systems as well as compressed air and gases. Full open.

Tender text

PSB.1 Ball valves
For DN 15-150 with lever; Ball valve AT 3594S, DN ... Steel body with welded ends. With high spindle neck for over-insulation. Full bore.
For DN 100-400 with gearbox; Ball valve AT 3594V, DN ... Steel body with welded ends. With high spindle neck for over-insulation. Full bore.
Ball valve AT 3591S with lever, DN ... Steel body with one welded end and one internal threaded connection. With spindle neck adapted for over-insulation.

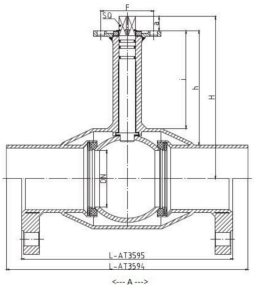
Quality assurance

AFS 2023:5, PED 2014/68/EU
Product marking: DN, PS, material in pressure-bearing parts, manufacturing year and month, and AT number are indicated on the valve's nameplate.

Energy and environment declaration

Reach date: 6/19/2025 12:51:00 PM

Pos	Component	Material



Measurements and weight

Dimension range (DN): 10 - 300

Item number	A	B	Net weight (kg)
3594S-015	230	134	0.7
3594S-040	240	151	1.7
3594S-050	250	158	2.5
3594S-065	270	169	3.5
3594S-080	280	216	5.7
3594V-150	350	291	35
3594V-200	400	327	56
3594V-300	900		270
3594-400	950		270
3594S-125	325	253	16.7

Function and design

Fully welded pipe construction with welded ends, suitable for direct welding into pipe systems. The ball is fully enclosed. The ball is clamped between two PTFE seat rings. The valve is supplied as standard with an ISO top and a high spindle neck for over-insulation. The upper part of the spindle is always visible and inspectable.

Technical data

Main material: Steel
Included materials: Stainless steel, Steel, Other
Included material code: Stainless steel AISI 304 (1.4301), PTFE (polytetrafluoroethylene)
Temperature (°C): -20 - 200
PN: 25 - 40
Connection: ISO 1127, weld end

ETIM classification: EC011343 - Ball valve
BK04 code: 20702 Ball valves
Product colour: RAL 5005 - Signal blue

Item number	KVS	Execution	Connection 1 - spec.	Connection 2 - spec.	Connection according to ISO 5211	Stem measurments	Required torque (Nm)
3594S-015	19		DN15-Dy 21,3mm	DN15-Dy 21,3mm	F05	11x11mm	4
3594S-040	202		DN40-Dy 48,3mm	DN40-Dy 48,3mm	F07	11x11mm	48
3594S-050	316		DN50-Dy 60,3mm	DN50-Dy 60,3mm	F07	14x14mm	68
3594S-065	597		DN65-Dy 76,1mm	DN65-Dy 76,1mm	F07	14x14mm	93
3594S-080	947		DN80-Dy 88,9mm	DN80-Dy 88,9mm	F10	17x17mm	
3594V-150	4024		DN150-Dy 168,3mm	DN150-Dy 168,3mm			
3594V-200	7804		DN200-Dy 219,1mm	DN200-Dy 219,1mm	F16	27x27mm	
3594V-300			DN300-Dy 323,9mm	DN300-Dy 323,9mm			
3594-400			PN25	PN25			

Installation and maintenance

Flowdirection: Bi-directional
Possible mounting position: Vertical, Horizontal
The valve can be installed in any position, regardless of the direction of the medium flow. Welding should be done with the ball in the fully open position. When gas welding, it is especially important to cool the valve housing at the same time so that the seat rings are not damaged.

Please feel free to contact us

We answer your questions by e-mail and telephone. No question is too small, no challenge is too big. You are always welcome at Armatec.

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THE COMPANY'S MANAGEMENT SYSTEM
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ISO 9001 • ISO 14001