Ball Valve All-welded

Dimension range	PN	Temperature range	Material
DN 10-300	25	Max 200 °C	Steel

Range of Application

As shut-off valve for cooling and heating systems, compressed air and non combustible gases.

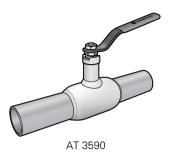
Quality Assurance

CE-marking

Fulfil 97/23/EC PED acc. to

DN 10-40 article 3.3.

DN 50-125: Category I group 2. DN 150-200: Category II group 2. DN 250-300: Category III group 2.



Material Specification

1	Body/weld ends	steel	RSt 37.2
2	Ball	stainless steel	X6CrNiTi18.10
3	Seat rings	carbon filled PTFE	
4	Stem	stainless steel	X30Cr13
5	Stem gasket	carbon filled PTFE	



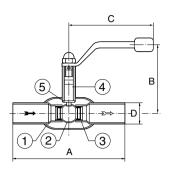
AT 3590V

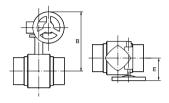


Dimension and Weight

Ans	sl.	10	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Α	AT 3590	230	230	230	230	260	260	300	300	300	325	325	350	390	520	620
Α																
	AT 3591	158	165	175	185	200	-	-	-	-	-	-	-	-	-	-
В		115	115	120	115	120	150	160	165	165	165	182	213	-	-	-
В	AT 3590V	-	-	-	-	-	-	-	-	-	-	-	390	410	600	700
С		140	140	140	140	140	200	200	200	320	320	320	570	570	-	-
D	AT 3590	17,2	21,3	26,9	33,7	42,4	48,3	60,3	76,1	88,9	114,3	139,7	168,3	219,1	273	323,9
Ε	AT 3590V	-	-	-	-	-	-	-	-	-	-	-	210	240	285	360
We	ight		1,4	1,5	1,8	2,0	2,4	3,5	4,2	5,2	8	15	34	39	70	120
	Measurements i	n mm, wei	ght in kg													

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Function and Design

Ball valve in all-welded construction with reduced bore and welding ends for welding in directly.

The ball is fixed between two seat rings of carbon filled PTFE.

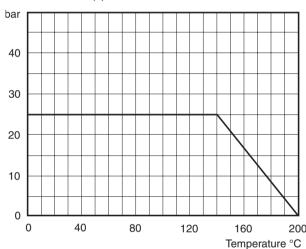
As standard, the valve is delivered with extended stem for full insulation and the upper part of stem is visible and inspectable.

Technical Information

Fig.no.	DN	Max. working pressure
AT 3590	10-300	25
AT 3591	10-32	25

Pressure and temperature

Pressure bar (e)



Kv-valu	e														
DN	10	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Kvs	10	10	15	26	41	67	105	164	276	419	655	1022	1472	2617	4090

Torque	at diff	erential 1	16 bar									
DN	25	32	40	50	65	80	100	125	150	200	250	300
Nm	6	8	20	27	40	80	140	200	380	550	1500	1800

Note: To make sure correct dimensioning, the torque has to be multiplied by a factor of 2,0.

Installation

The valve can be mounted in any position independent of the flow direction. The valve must be welded in with the valve in full open position.

Note, in the case of gas welding the valve must be cooled down to protect the seat rings from damage.

Accessories and Options

The valves can be equipped with locking device (AT 3619) for open and closed

Rätten till ändringar utan föregående meddek Armatec ansvarar inte för eventuella tryckfel Dokumenten får konieras endast i sin helhet



position.

Separate stem extensions (AT 3603) and lever of stainless steel (AT 3604RF) are available on request. Stem's square-measure has to be specified when ordering. Valve performed with external/internal threads AT 3640.

Maintenance and Spare parts

The valve is a shut-off valve and shall be in full open or closed position. The valve is maintenance free, but regular checking-up and operating control needs to secure a safe handling and function. The stuffing box is fallow-up draftable.

Marking

Manufacturer, DN, PN, type, year and month of manufacturing are marked on the identification label.

How to order

	Weld ends	Weld ends	Weld end/internal thread
		with warm gear	
DN	Fig. no.	Fig. no.	Fig. no.
10	3590-10		3591-10
15	-15		-15
20	-20		-20
25	-25		-25
32	-32		-32
40	-40		
50	-50		
65	-65		
80	-80		
100	-100		
125	-125		
150	-150	3590V150	
200		V200	
250		V250	
300		V300	

