

# Internet\_Variants

Dimension range	PN	Temperature range	Material	
DN 8-100	125-64	-10°C to + 260 °C	Carbon steel	

# **Range of Application**

Shut-off valve mainly for:

- Natural gas and petroleum products.
- Warm and cold water, compressed air.
- Saturated steam



#### PSB.1 Ball Valves

Ball valve Carbon steel AT 3545 ..., with full bore, weld ends and stainless steel lever. Packing of carbon filled PTFE.

Ball valve Carbon steel AT 3565 ..., with full bore, threads and stainless steel lever. Packing of carbon filled PTFE.



### **Quality Assurance**

Tested according to SS-ISO 5208. Leakage class A applies to this valve type. The valves are approved by TA-luft.

Certificate SS-EN 10204, type 2.2 and 3.1, has to be specified when ordering.

# **CE-marking**

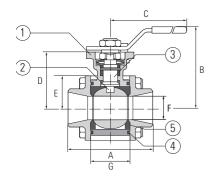
The valves meet the requirements of PED, AFS 2016:1 acc. to category III group 1 and 2. Dimensions to DN 25 satisfies § 8 of the PED, AFS 2016:1.

#### Surface

Standard surface finish below 3.1  $\mu m$  for body & ball. Finer surface finish on request.

# **Material specification**

	Components	AT 3545/3565				
		Carbon Steel				
		1.0619				
1	Body					
		Stainless steel				
2	Ball	1.4401				
		Stainless steel				
3	Stem	1.4401				
4	Body gasket	PTFE				
5	Seat ring*	PTFE, carbon filled				
6	Stem gasket	PTFE, glass-reinforced				
7	Box gasket	PTFE, carbon-filled				
8	Centering ring	PTFE, glass-reinforced				
		Stainless steel				
		Carbon Steel				
9	End piece	1.0619				
1						
0	Lever	Stainless steel				
	*Seats in other material on request, such as glass-reinforced PTFE or PEEK.					



# Dimension and weight, full bore AT 3505, 3525

Α	72,5	85,4							100
• •		00,4	99,3	110,4	126,3	142,6	169,5	214	277
В	100	120	125	135	140	150	154	169	183
С	145	185	185	200	200	250	480	480	480
D	42	53	58	71	76	86	153	168	182
E	32	38	36	42	46	70	99	114	128
F	14,2	20,6	25,4	31,7	38	50	62	82,4	100
G	5,4	7,5	7,5	8,9	8,9	8,9	19	19	19
Н	36	42	41,5*	48,5*	54	70	90	125	125
1	36	42	42	50	50	70	70	102	105
J	M5	M5	M5	M6	M6	M8	M8	M10	M10
K	9,5	11	11	14,3	14,3	14,3	22,5	22,5	22,5
L	22	25	25	30	30	45	-	-	-
M	25	30	30	35	35	55	55	70	70
ISO flange	F03	F04	F04	F05	F05	F07	F07	F10	F10
Weight  Measurements in mm v	0,8	1,3	1,8	2,8	3,8	7,0	12,0	21,0	35,0

#### **Function and Design**

Three-piece ball valve in antistatic design for simple service and maintenance. Homogenous floating ball for tight shut-off and low pressure drop.

Self-compensating stem packing gives a tight valve also with high operation frequency.

The design with blow-out safe stem prevents the stem to blow out at pressure hammer.

Mounting flange according to ISO 5211 for actuators.

No dismantling of valve at service and maintenance.

Valves from DN50 have round body and end piece.

Rätten till ändringar utan föregående meddelande förbe! Amratec ansvarar inte för eventuella tryckfel eller missfi Dokumenten får kopieras endast i sin helhet.



# **Technical Information**

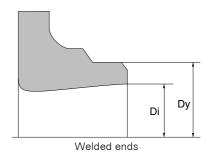
Pressure and temperature, valves with full bore 3545, 3565								
Seat material		8-25	32-40	50-100				
Standard, carbon filled PTFE 25%	Max. working pressure bar(e)*	125 (T ≤ 50°C) 205 (P ≤	100 (T ≤ 80°C) 205 (P ≤	70 (T ≤ 80°C) 200 (P ≤				
	Max. temperature °C**	10 bar)	10 bar)	10 bar)				
PEEK	Max. working pressure bar(e)*	125 (T ≤ 100°C) 250 (P ≤	100 (T ≤ 100°C) 245 (P ≤	70 (T ≤ 100°C) 235 (P ≤				
PTFE, glass-reinforced	Max. temperature °C** Max. working pressure bar(e)* Max. temperature °C**	10 bar)	10 bar)	10 bar)				

Pressure and temperature acc. to applied standards. Note that the pressure- and temperatures above is not related.

# Torque

Torqu	е										
DN	8	10	15	20	25	32	40	50	65	80	100
Nm	9	9	11	12	19	28	37	52	68	100	112
Tor	Torque above applies for: Carbon filled PTFE, PEEK and glass-reinforced PTFE.										

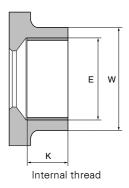
Kv-va	lue											
DN	8	10	15	20	25	32	40	50	65	80	100	
Kve	6.9	6.9	12.7	29.2	48.2	73.1	107.5	215.0	275.2	498.8	877.2	



AT 3545 Meassurements weld ends											
DN	8	10	15	20	25	32	40	50	65	80	100
Dy	13,7	17,5	21,7	27,2	34	42,7	48,6	60,5	76,6	88,9	114,3
Di	9,24	12,53	15,76	20,96	26,64	35,08	40,94	52,51	69,7	81,2	106,3
Material thickness	2,23	2,485	2,97	3,12	3,68	3,81	3,83	3,995	3,45	3,85	4

<sup>\*</sup>Max pressure bar(g) up to specified temperature.

<sup>\*\*</sup>Max temperature °C up to the specified pressure.



#### Measurements internal threads

AT 3565 Measurements BSP threads								
DN	15	20	25	32	40	50		
G	1/2	3/4	1	1 1/4	1 1/2	2		
E	20,95	26,44	33,25	41,91	47,8	59,61		
K	16,5	17,5	20,5	20,5	24,5	25,5		
W	27	33	41	51	56	68		
No. of threads	14	14	11	11	11	11		
Measurements in mr	n.							

#### **Accessories and Options**

Can be provided with different types of actuators and limit switches. (See separate datasheet AT 3830, AT 3831, AT3840, AT3841, AT 3940, AT 3941, AT 3910, AT 3911). Can also be supplied with stem extensions and dead-mens handle (open or close).

#### Other ends available:

#### Weld ends:

- ISO1127-1
- Costumer specific weld ends on request
- •
- <U>
  - </U>
- NPT
- BSPT
- Firesafe acc. API607 and ISO 10497
- Heating jacket
- V-port ball with 30, 60 or 90 degree angle.

#### Installation

See separate manual.

# **Maintenance and Spare parts**

The valve construction permit a simple exchanging of all parts. See separate installation- and maintenance instructions.

# Marking

Manufacturer, DN, PN, material, CE and on special valves flow direction arrow.

#### How to order

DN	AT 3545, weld ends	AT 3565, threads
	Article No.	Article No.

#### How to order cont.

Options:

Seals:

Rätten till ändringar utan föregående meddelande fi Armatec ansvarar inte för eventuella tryckfel eller n Dokumenten får kopieras endast i sin helhet.

# AT 3545, 3565

# Ball valve Full bore

FS = Fire-safe

GF = 25% glass-filled PTFE

PEEK = Seats in PEEK-material

See separate Pressure/temperature diagrams for differents seats.

Anslutningar:

ISO = weld ends acc. ISO1127-1

NPT = NPT-threads

# Exemple:

AT 3545-25FS (Fire-safe execution)

AT 3545-25GF (Seats of glass-filled PTFE)

AT 3545-25PEEK (Seats of PEEK)

AT 3545-25SMS (Weld ends acc. SMS3008)

AT 3565-25NPT (NPT-threads)