

## Ball Valve C 200



### Advantages

- high-quality industrial valve up to DN 50
- ergonomic hand lever with position locking device
- performance base materials in PP/EPDM
- generously sized nuts featuring a connection thread suitable for plastic materials
- union ends with type-specific collar for secure transmissions

### Utilisation

- to shut off pipeline systems

### Flow media

- Neutral fluid or gaseous media, free of solids.  
With the planned use of aggressive media, please consult with a detailed specification of medium pressure and temperature.

### Examinations

- Shell test ISO 9393-2
- Seat and packing test ISO 9393-2

### Nominal pressure (H<sub>2</sub>O, 20°C)

- PP: PN 12,5

### Media temperature

- see pressure/temperature diagram

### Operating pressure

- see pressure/temperature diagram

### Size

- DN 15 - DN 50

### Body

- PP

### Steam

- PP

### Ball

- PP

### Ball seat

- PTFE

### Sealings

- EPDM

### Actuation

- Ergonomic hand lever with position locking device for »OPEN« or »CLOSED« ball position.

### Connection

- union ends with type-specific collar and integrated welding socket according to DIN ISO

### Mounting

- the direction of mounting is variable

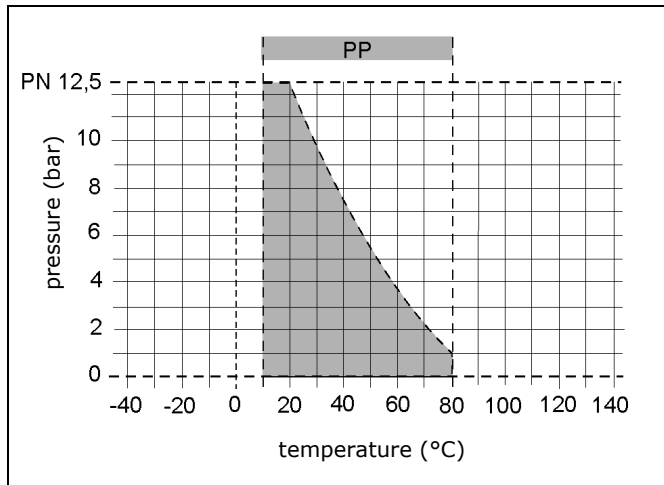
### Farbe

- body: PP, green
- lever: ABS, black RAL 9005
- lever inlay: ABS, green



# aquatherm

## Pressure/temperature diagram

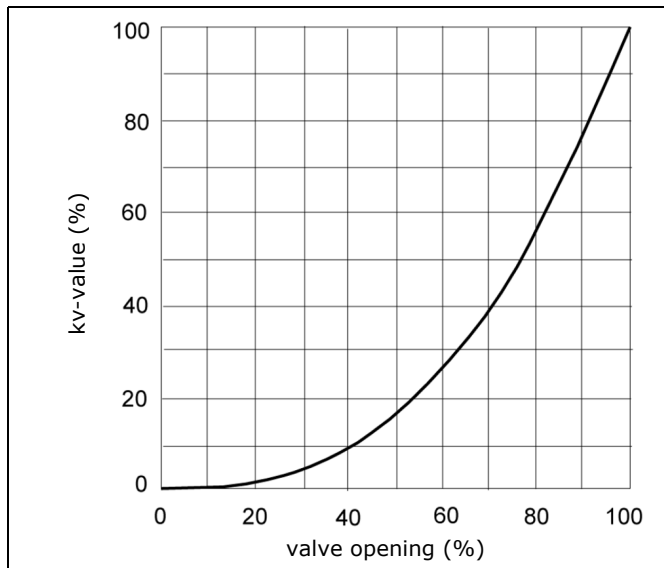


The values are a guide for harmless media (DIN 2403), to which the material of the valve is resistant.

The durability of wear and tear parts depends on the operating conditions of the application.

For temperatures < +10°C please specify the precise operating conditions of the application!

## Flow characteristic



## Torque (Nm) for valve opening (standard value)

d (mm)	16	20	25	32	40	50	63
PP	2,5	2,5	3,6	4,5	6,2	8,5	11,0

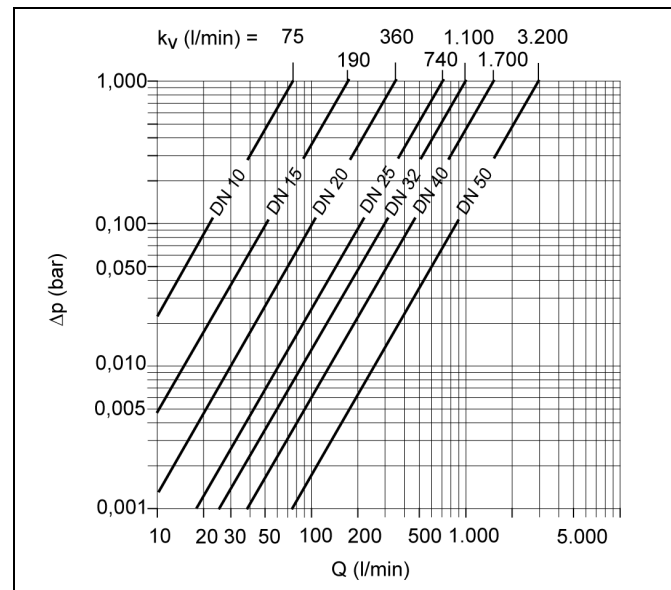
The stated torques are approximate values.

The values was determined immediately after the production with an operating pressure of 10 bar and H<sub>2</sub>O, 20°C.

Depending on the fluid the respective value can be higher or lower.

## Pressure loss curve

(standard values for H<sub>2</sub>O, 20°C)



## Pressure loss and kv-value

The diagram shows the pressure loss  $\Delta p$  over the flow  $Q$ .

### For calculation:

$$c_v = k_v \times 0,07$$

$$f_v = k_v \times 0,0585$$

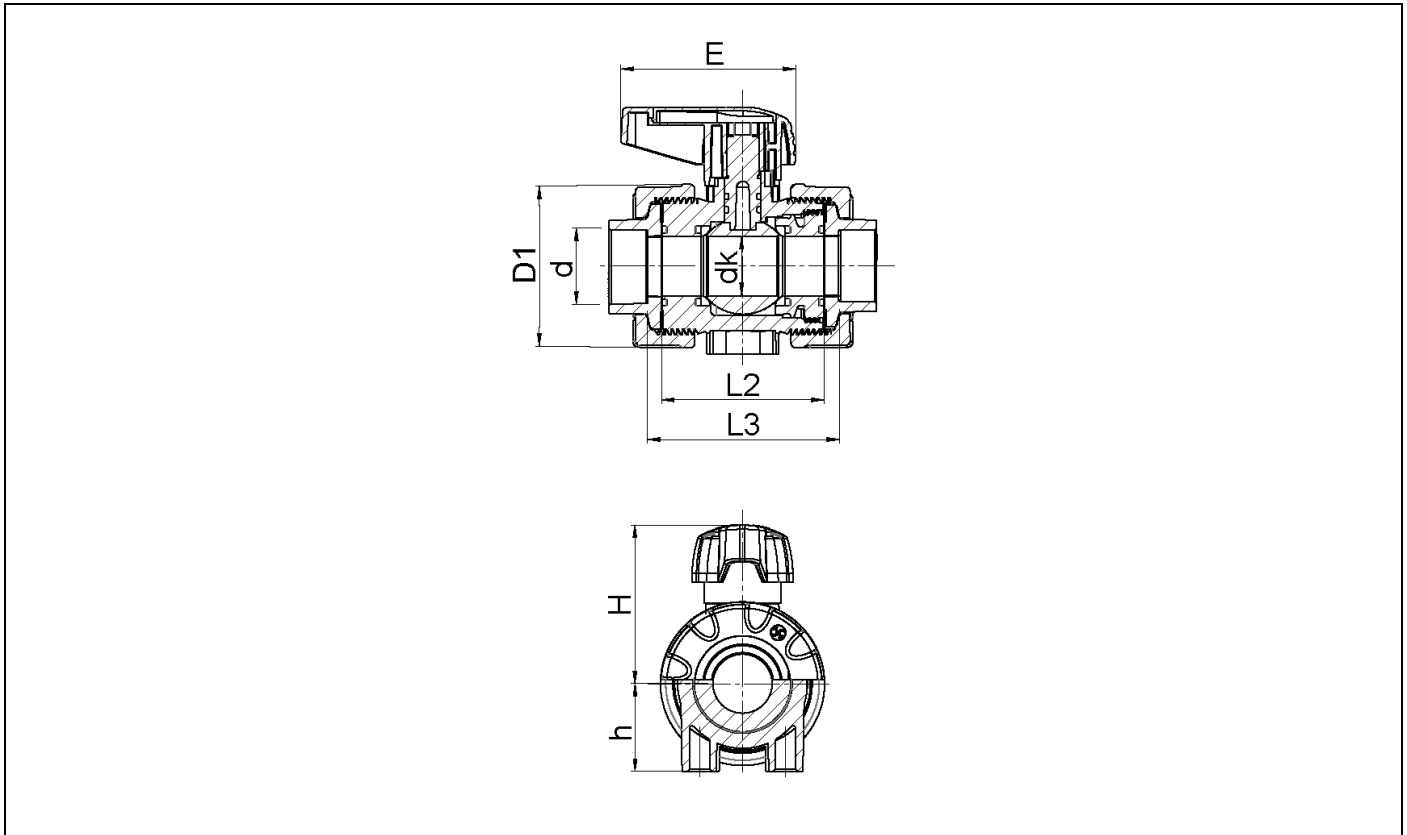
### Units:

$$k_v \text{ [l/min]}$$

$$c_v \text{ [gal/min]}$$

$$f_v \text{ [gal/min]}$$

## Dimensions

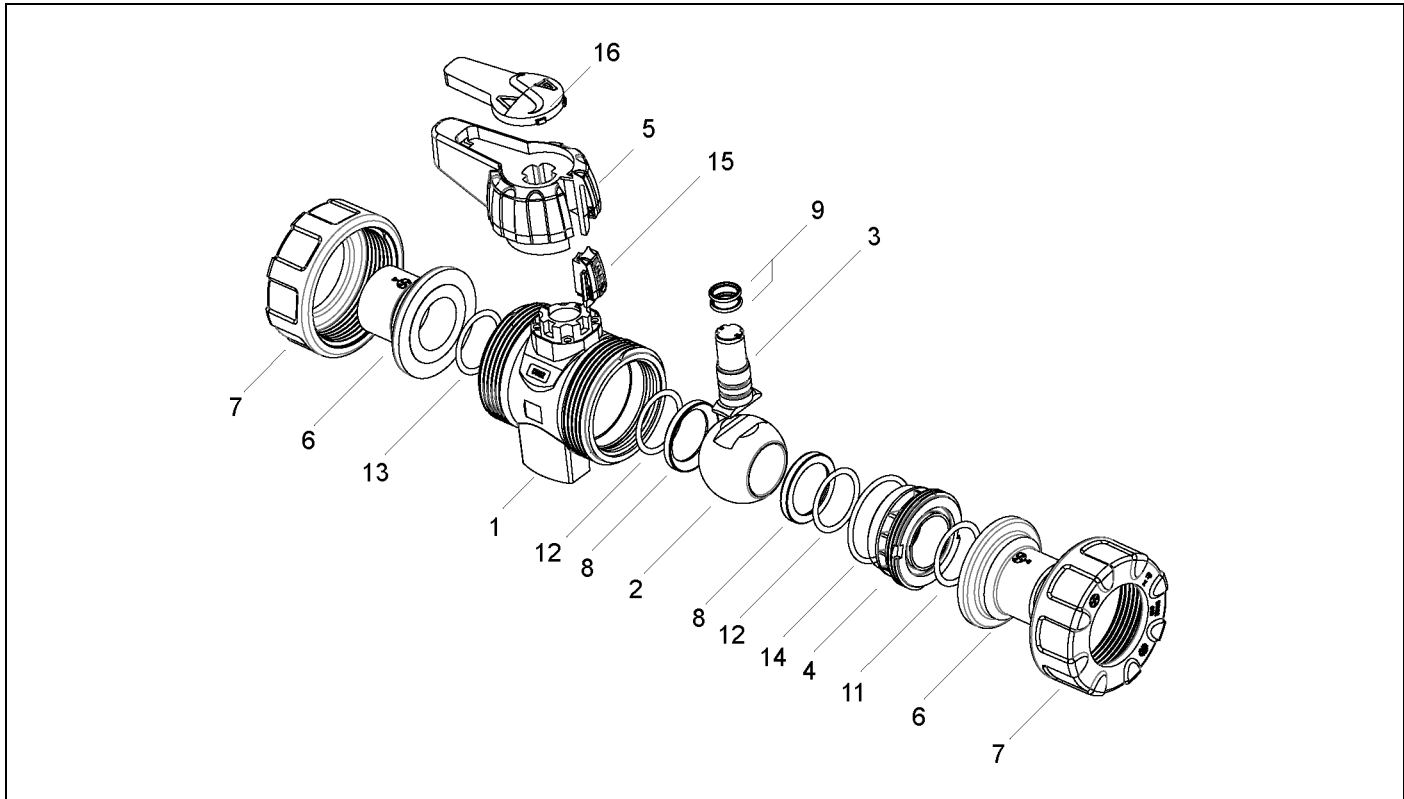


<b>dimensions</b>						
<b>d(mm)</b>	<b>20</b>	<b>25</b>	<b>32</b>	<b>40</b>	<b>50</b>	<b>63</b>
DN(mm)	15	20	25	32	40	50
DN(inch)	1/2	3/4	1	1 1/4	1 1/2	2
dimensions(mm)						
dk	13,5	18,5	23,9	31	38,5	50
D1	50,3	59	70,3	85,9	99,5	125,5
E	66	81	81	91,5	91,5	141,5
h	27	30	40	46	55	70
H	48	56,5	64,5	83,3	89,4	115
L2	56,5	65,5	72	85	89	101
L3	68	78,5	84,5	100	107	118
<b>weight(kg)</b>						
	0,115	0,180	0,280	0,470	0,640	1,200

## Ident-number

<b>boddy PP</b>	<b>d (mm)</b>	<b>20</b>	<b>25</b>	<b>32</b>	<b>40</b>	<b>50</b>	<b>63</b>
<b>connection</b>	<b>sealing</b>						
PP-socket	PTFE-EPDM	2002041101	2003041101	2004041101	2005041101	2006041101	2007041101

## Component summary



item	qty.	designation
1	1	body
2	1	ball
3	1	stem
4	1	union threaded neck
5	1	hand lever
6	2	union end
7	2	union nut
8	2	ball seat
9	2	O-ring
11	1	O-ring
12	2	O-ring
13	1	O-ring
14	1	O-ring
15	1	sliding catch
16	1	inlay for hand lever

Subject to technical modifications