

Butterfly valve K4 Lug-Type with hand wheel



General:

- Sealing materials: EPDM
FPM
- Body material: PP-GF
- Klappenwerkstoffe: PVC-C
- Dimensions: DN65 – DN100
d75 – d110
2 ½" – 4"
- Flange standards: DIN 2501 PN10
ANSI B 16,5 Class 150
- Additional dimensions: DN65/d63
DIN 2501 PN10
- Insert material: INOX A4
- Pin material: INOX A2

Operating pressure:

PVC-C

Used as intermediate butterfly valve: PN10

Technical features

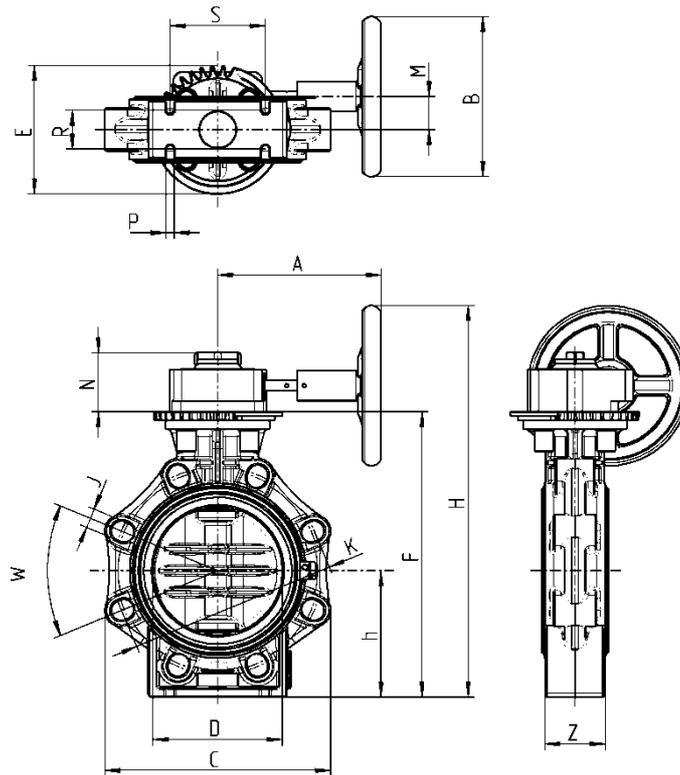
- only sleeve gasket and flap in touch with medium
 - double sealed shaft
 - integrated bracket for fix point mounting
 - variable locking positions
90° ±5° adjustable
 - fixed position of the disc due to self-locking gear mechanism
 - smooth running of gear wheel due to high coefficient worm gear
 - less space needed compared to hand lever
 - gear protection IP67
 - ambient temperature range for gear mechanism - 20°C bis +80°C
 - Optional available with position feedback
 - If used as End-of-line valve a blind flange has to be mounted on the free connection side.
 - Pressure has to be reduced if a flange is disassembled on one side
 - DN65 to DN125 → max. 6bar
 - DN150 to DN200 → max. 4bar
- Only temporary usage

This document does not constitute a guarantee, it is for initial information purposes only. The product range is continually upgraded, the designs and types therefore only reflect the state of the art at the time of printing. Subject to technical modifications!

Butterfly valve K4 Lug-Type with hand wheel



Dimensions:



DN	65	80	100
D	75	90	110
G	2 1/2"	3"	4"
W	90°	45°	45°
J	19	19	19
K	127 – 145	146 – 160	175 – 190,5
K-DIN	145	160	180
K-ANSI	139,7	152,4	190,5
D	65	80	100
C	133	176	206
Z	46	49	56
S	55	70	85
R	25	30	35
P	7	9	9
h	100	100	115
F	232	239	269
N	52	52	52
H	308	315	357,5
A	120	120	121
B	100	100	125
M	42,5	42,5	42,5
E	114	114	114

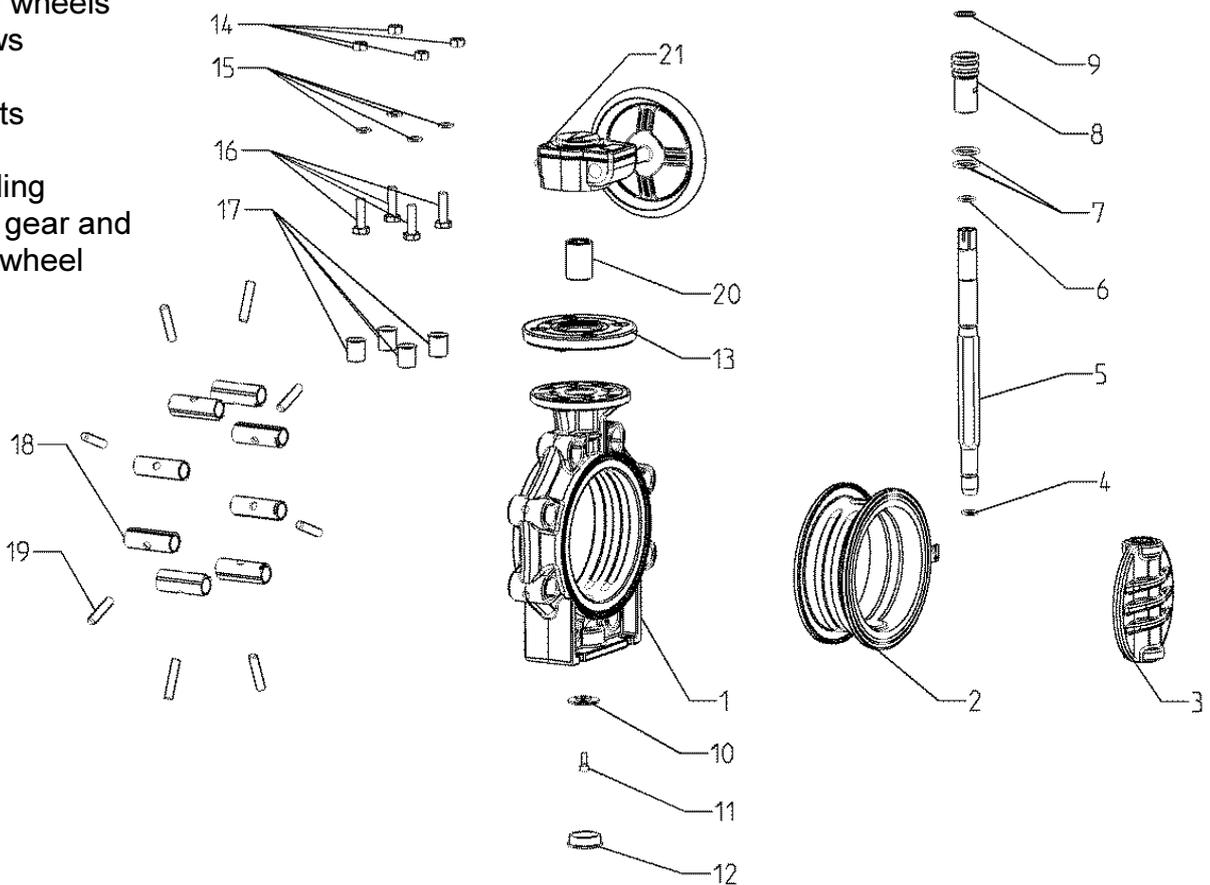
Dimensions in mm

Butterfly valve K4 Lug-Type with hand wheel



Exploded Drawing:

1. Body
2. Sleeve
3. Flap
4. Sealing shaft below
5. Shaft
6. Sealing shaft above
7. Sealing pilot bushing
8. Pilot bushing
9. Retaining ring
10. Holding disc
11. Screw
12. Cap
13. Cover plate
14. Nuts
15. Tooth wheels
16. Screws
17. Caps
18. Insterts
19. Pins
20. Coupling
21. Hand gear and hand wheel

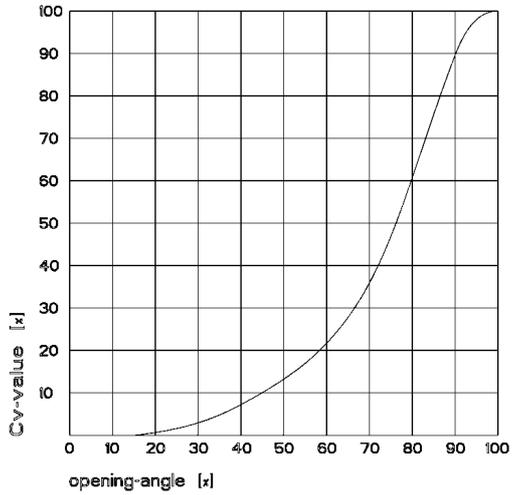


Butterfly valve K4 Lug-Type with hand wheel

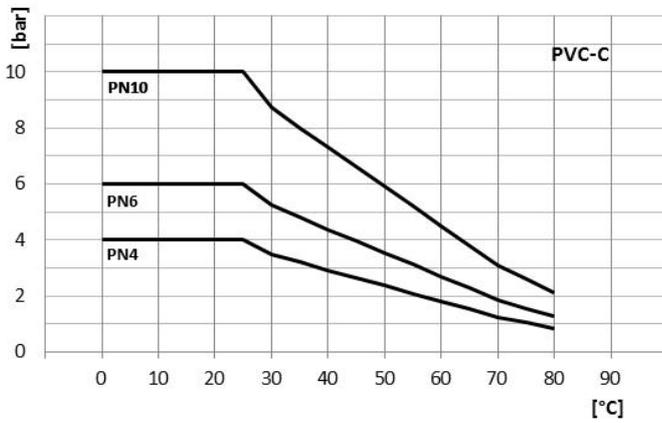


Diagrams:

Flow - characteristic

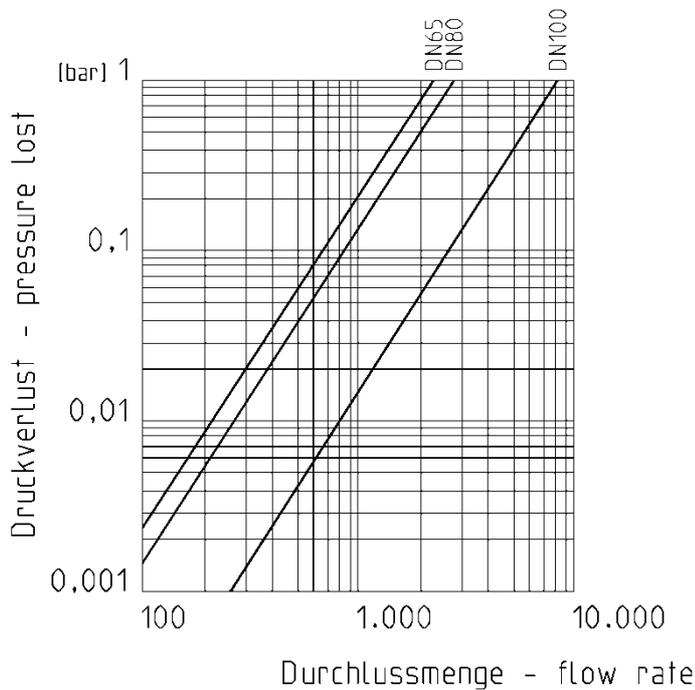


Pressure – temperature - diagram



Butterfly valve K4 Lug-Type with hand wheel

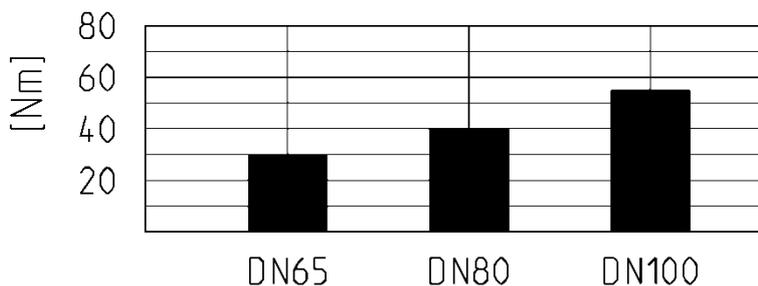
Pressure – loss - diagram



Cv value table

Pressure los	DN65	DN80	DN100
0,001 bar	73 l/min	88 l/min	260 l/min
1 bar	2300 l/min	2800 l/min	8200 l/min

Torque



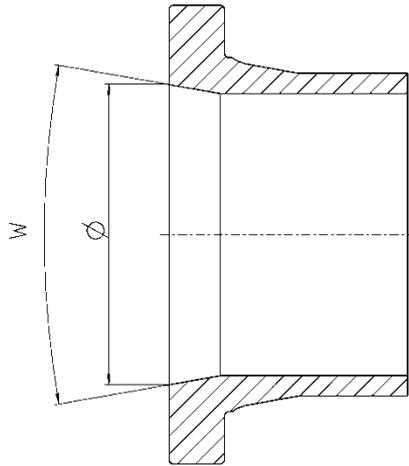
Tightening torque of screws for flange connections

DN	65	80	100
Nm	15	18	20

Butterfly valve K4 Lug-Type with hand wheel

Installation in piping:

For a correct and complete opening of the flap, it is necessary that the used sockets and stub flanges have at least an inner diameter according to the table.



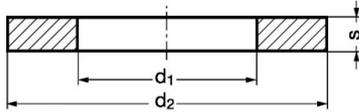
DN	d	Ø (mm)	w (°)
DN50*	d63*	60	40
DN65	d75	60	40
DN80	d90	77	40
DN100	d110	96,5	40

* Suitable only for **DIN** DN50 d63 sockets and stub flanges.

Butterfly valve K4 Lug-Type with hand wheel

General installation instructions:

- Use suitable washers in accordance with DIN125A.



DN	65	80	100
Thread	M16	M16	M16
d1	17	17	17
d2	30	30	30
s	3	3	3

Dimensions in mm

- Adapt screw length to flange or stub flange.
- Check torque of screws on the opposite side, when one-side is removed (see torque of screws at flange connections).