

Butterfly valve K4 Lug-Type
with hand wheel and position feedback



General:

- Sealing materials: EPDM
FPM
- Body material: PP-GF
- Flap material: 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

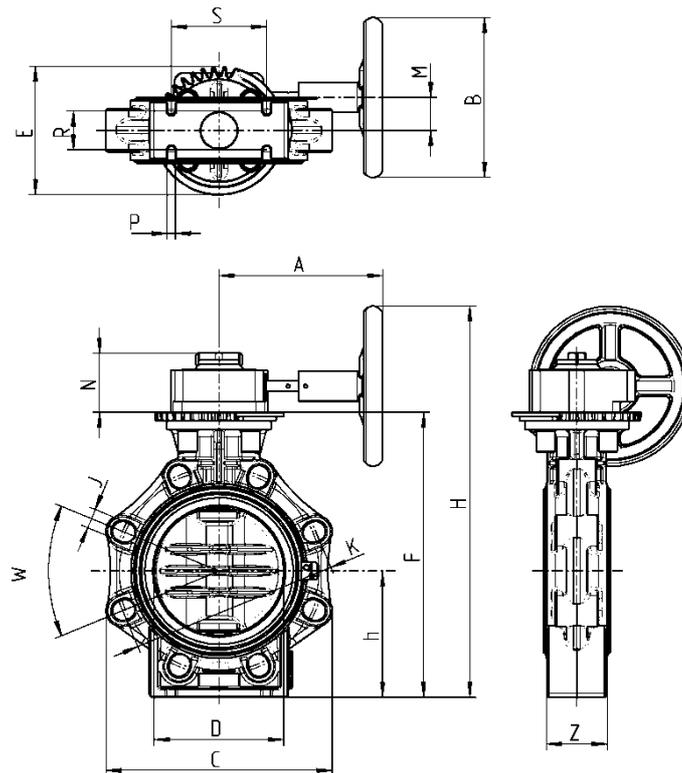
Technical features

- only sleeve gasket and disc 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 IP65
 - ambient temperature range for gear
-20°C to +120°C
 - 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 print contains no warranty promise, but it should give you some first information. The product range is extended continuously, therefore the versions and types correspond to the actual status of printing. Subject to technical modifications!

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Dimensions:



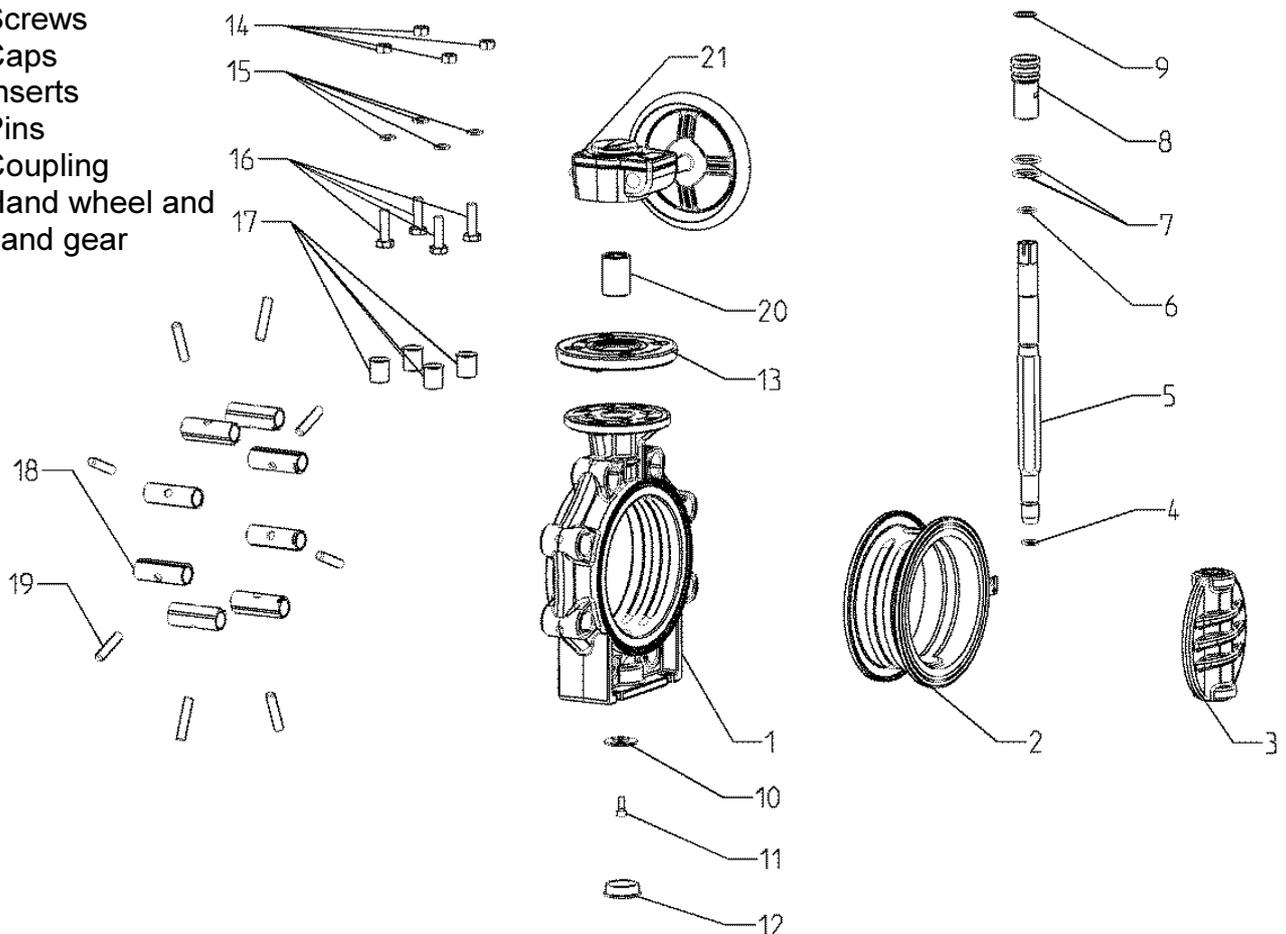
DN	65	80	100
D	75	90	110
G	2 1/2"	3"	4"
W	90°	45°	45°
J	19	19	19
K	127 – 145	146 – 160	175 – 190,5
K-DIN	145	160	180
K-ANSI	139,7	152,4	190,5
D	65	80	100
C	133	176	206
Z	46	49	56
S	55	70	85
R	25	30	35
P	7	9	9
h	100	100	115
F	232	239	269
N	52	52	52
H	308	315	357,5
A	120	120	121
B	100	100	125
M	42,5	42,5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

Dimensions in mm

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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. Inserts
19. Pins
20. Coupling
21. Hand wheel and hand gear

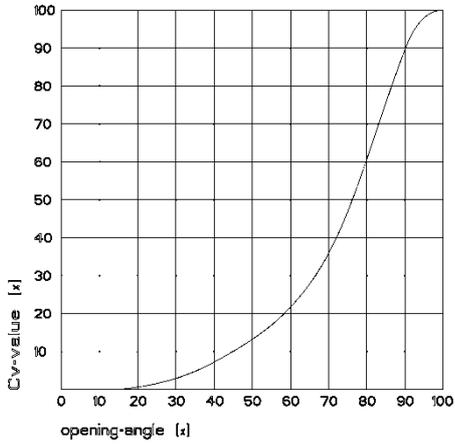


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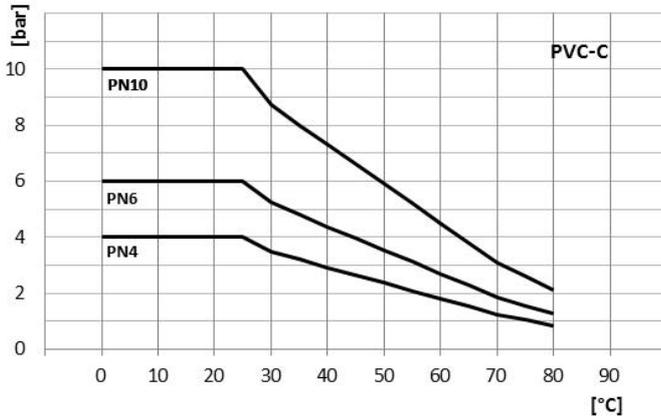


Diagrams:

Flow - characteristics



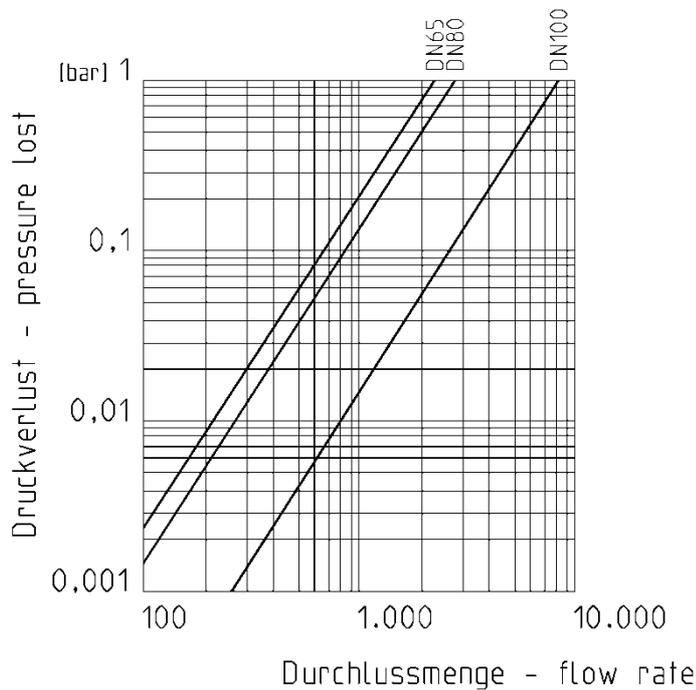
Pressure – temperature - diagram



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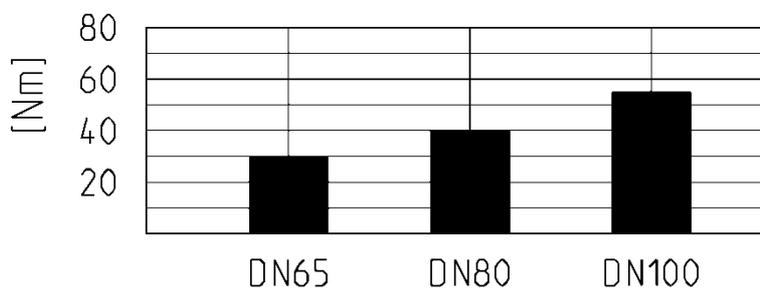
Pressure – loss - diagram



Cv value table

Pressure loss	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



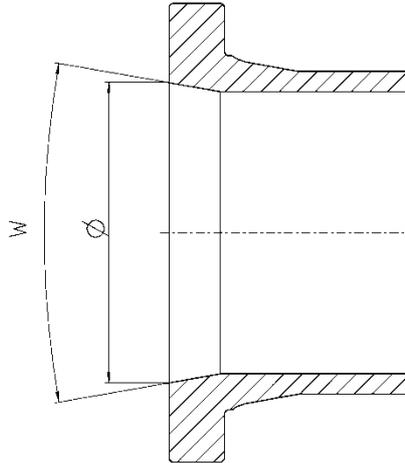
Tightening torque for screws for flange connections

DN	65	80	100
Nm	15	18	20

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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.



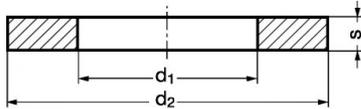
DN	d	Ø (mm)	w (°)
DN50*	d63*	60	40
DN65	d75	60	40
DN80	d90	77	40
DN100	d110	96,5	40

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

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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).

Wiring plan

