

## Butterfly Valve K4 Lug-Type Electric Actuators ER35 / ER60



### **General:**

- Sealing materials: EPDM, FPM
- Body material: PP-GF
- Flap materials: 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 PVC-U  
DIN 2501 PN10
- Insert material: INOX A4
- Pin material: INOX A2

### **Operating pressure:**

PVC-C

Used as intermediate butterfly valve: PN10

### **Actuator material:**

- ER – plastic enclosure

### **Technical features:**

- only sleeve gasket and disc in touch with medium
- double sealed shaft
- integrated bracket for fix point mounting
- direct mounting of the actuator without additional adapter or screws
- mechanical limit stops
- emergency manual override
- protection class ER IP65 or VS IP67
- position indication
- torque and force limiters
- 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

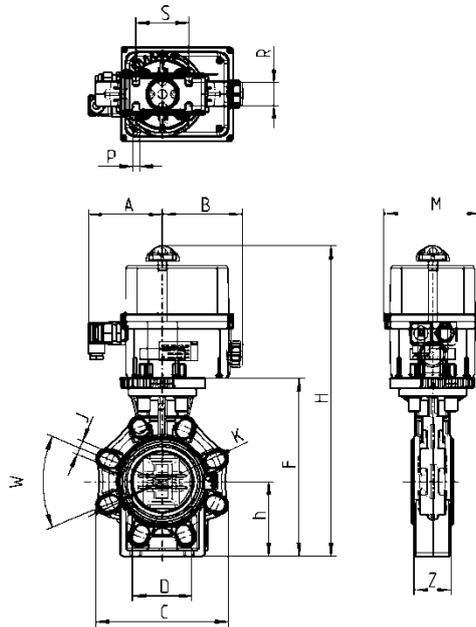
Only temporary usage

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# Butterfly Valve K4 Lug-Type Electric Actuators ER35 / ER60



**Dimensions:**



	ER35	ER60	ER60
DN	65	80	100
d	75	90	110
G	2 1/2"	3"	4"
D	65	80	100
C	133	176	206
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
H	409	416	446
h	100	100	115
A	98	98	98
B	107	107	107
M	128	128	128
N	-	-	-
Z	46	49	56
S	55	70	85
R	25	30	35
P	7	9	9
F	232	239	269
E	-	-	-

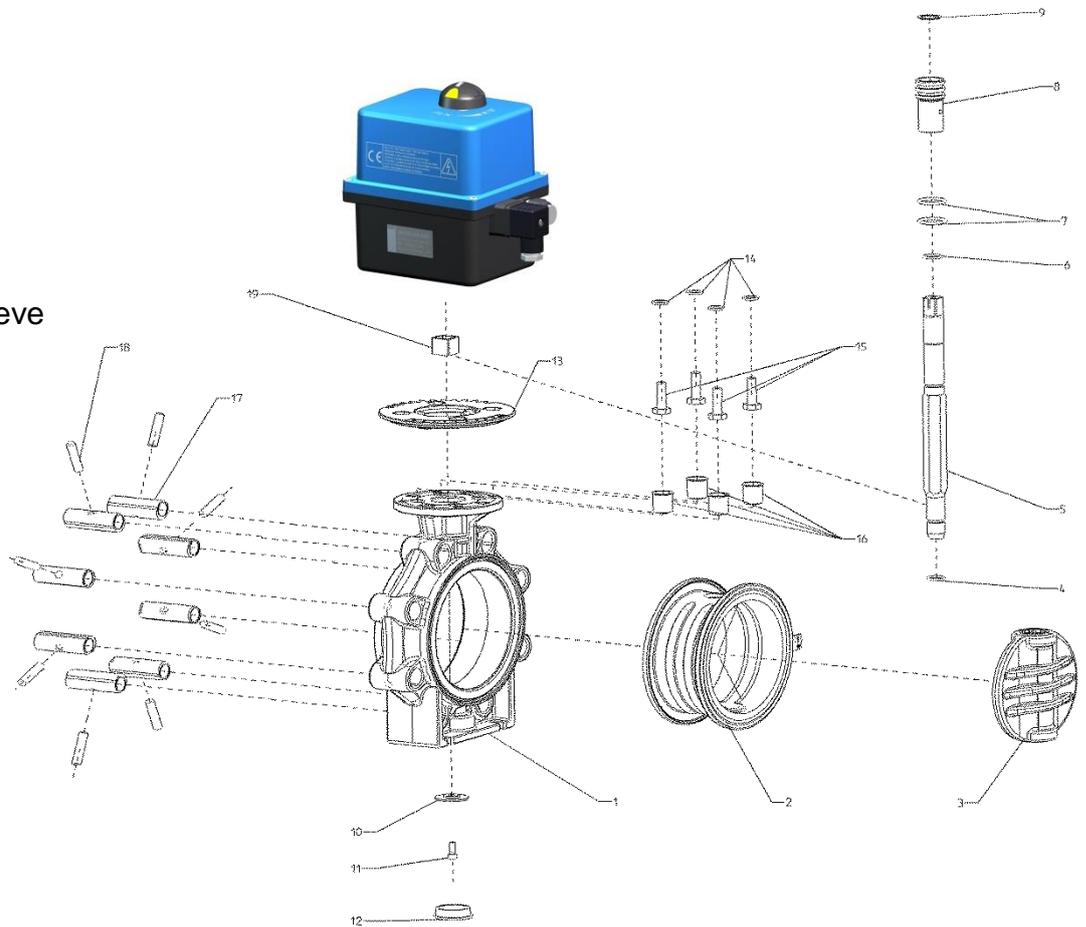
Dimensions in mm

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**Exploded drawing:**

- 01. Body
- 02. Sleeve
- 03. Flap
- 04. Sealing shaft below
- 05. Shaft
- 06. Sealing shaft above
- 07. Sealing pilot bushing
- 08. Pilot bushing
- 09. Retaining ring
- 10. Holding disc
- 11. Screw
- 12. Cap
- 13. Cover plate
- 14. Tooth wheels
- 15. Screws
- 16. Caps
- 17. Inserts
- 18. Pins
- 19. Reducing sleeve

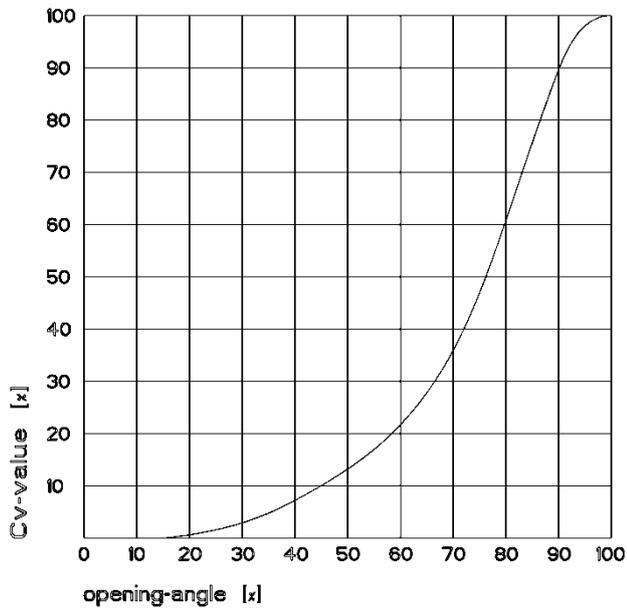


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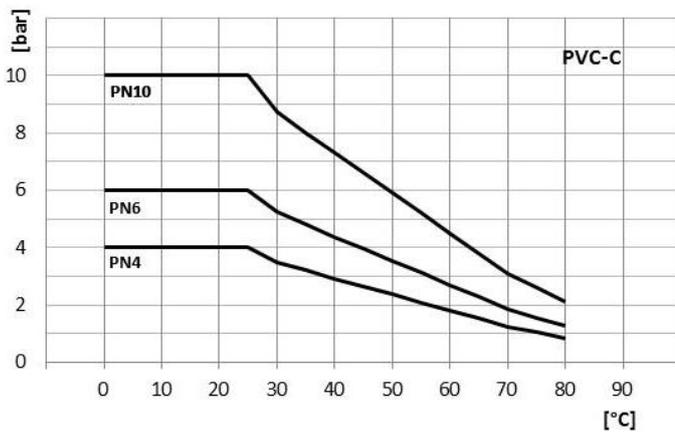


## Diagrams:

### Flow - characteristic



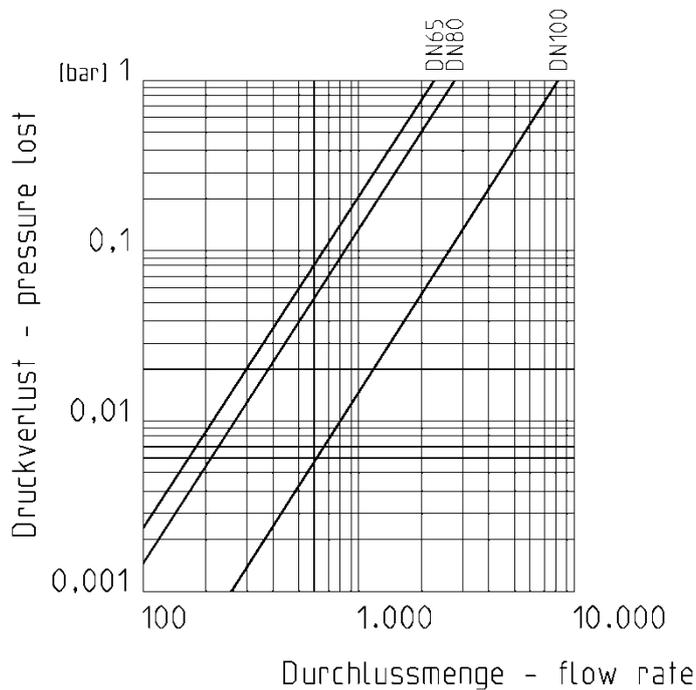
### Pressure – temperature - diagram



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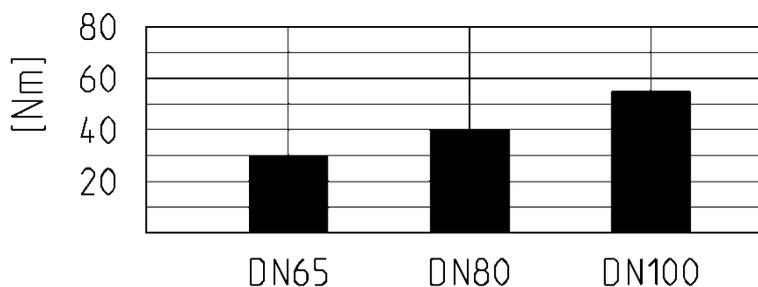
### Pressure – loss - diagram



### 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



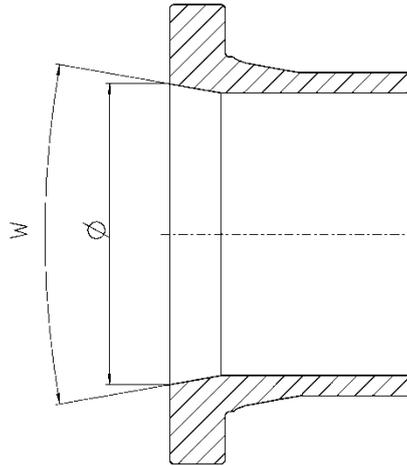
### Tightening torque of screws for flange connections

DN	65	80	100
Nm	15	18	20

## Butterfly Valve K4 Lug-Type Electric Actuators ER35 / ER60

### 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.



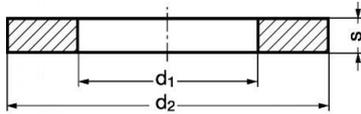
DN	d	Ø (mm)	w (°)
DN50*	d63*	60	40
DN65	d75	60	40
DN80	d90	77	40
DN100	d110	96,5	40

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

## Butterfly Valve K4 Lug-Type Electric Actuators ER35 / ER60

### 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).

### **Technical Data Actuator:**

#### Electric Actuator ER

- 2 preset limit switches
- 2 position feedbacks
- Mechanical stop at 90°
- 180° or 270° without mechanical stop
- Duty cycle 30%
- Protection class IP65
- Ambient temperatur -10 bis 50°C
- ISO connection F05 / F07
- Octagon 22 mm
- Weight 2,1 kg

Type	ER35	ER60
Torque	35Nm	60Nm
Tensions	24V AC/DC, 90-240V AC	
Operating time	10s	15s
Power	15W	45W