Butterfly Valve K4

Electric Actuators ER35 / ER60

General:

- Seal materials: EPDM, FPM
- Body material: PP-GF
- Flap material: PVC-C
- Dimensions: DN65 – DN100, d75 – d110, 2 ½“ – 4“
- Flange standards: DIN 2501 PN 10, ANSI B 16,5 Class150, JIS 10 K, BS Table D&E
- Additional dimension: DN65/d63 DIN 2501 PN 10

Operating pressure:

PVC-C	PN10

Actuator material:

- ER - plastic body

Technical features:

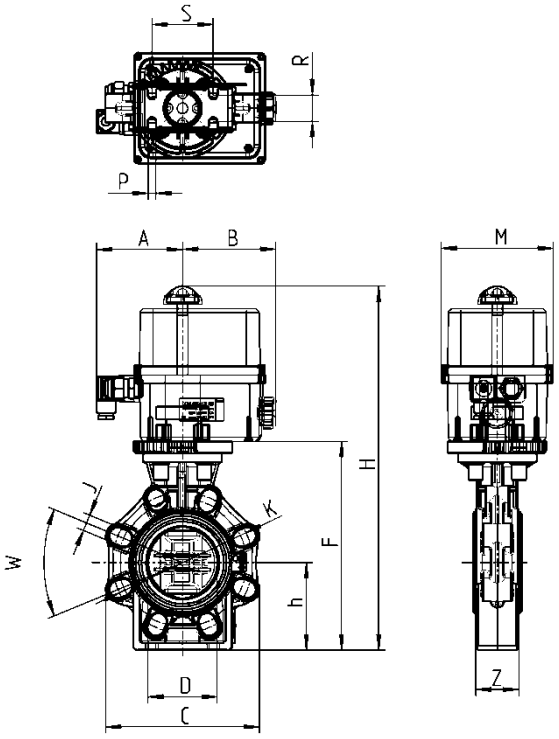
- only sleeve gasket and disc in touch with medium
- double sealed shaft
- integrated bracket for fix point mounting
- direct mounting of the actuator without additional adaptor or screws
- mechanical limit stops
- emergency manual override
- protection class ER IP65
- position indication
- torque and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

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!

© Praher Plastics Austria GmbH DB/DEEN/18/08/345/C Subject to technical modifications!

Butterfly Valve K4
Electric Actuators ER35 / ER60

Dimensions:



	ER35	*ER60*	*ER60*
DN	65	80	100
d	75	90	110
G	2 ½“	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
H	409	416	446
h	100	100	115
A	98	98	98
B	107	107	107
M	128	128	128
Z	46	49	56
S	55	70	85
R	25	30	35
P	7	9	9
F	232	239	269
PN	10	10	10

Dimensions in mm

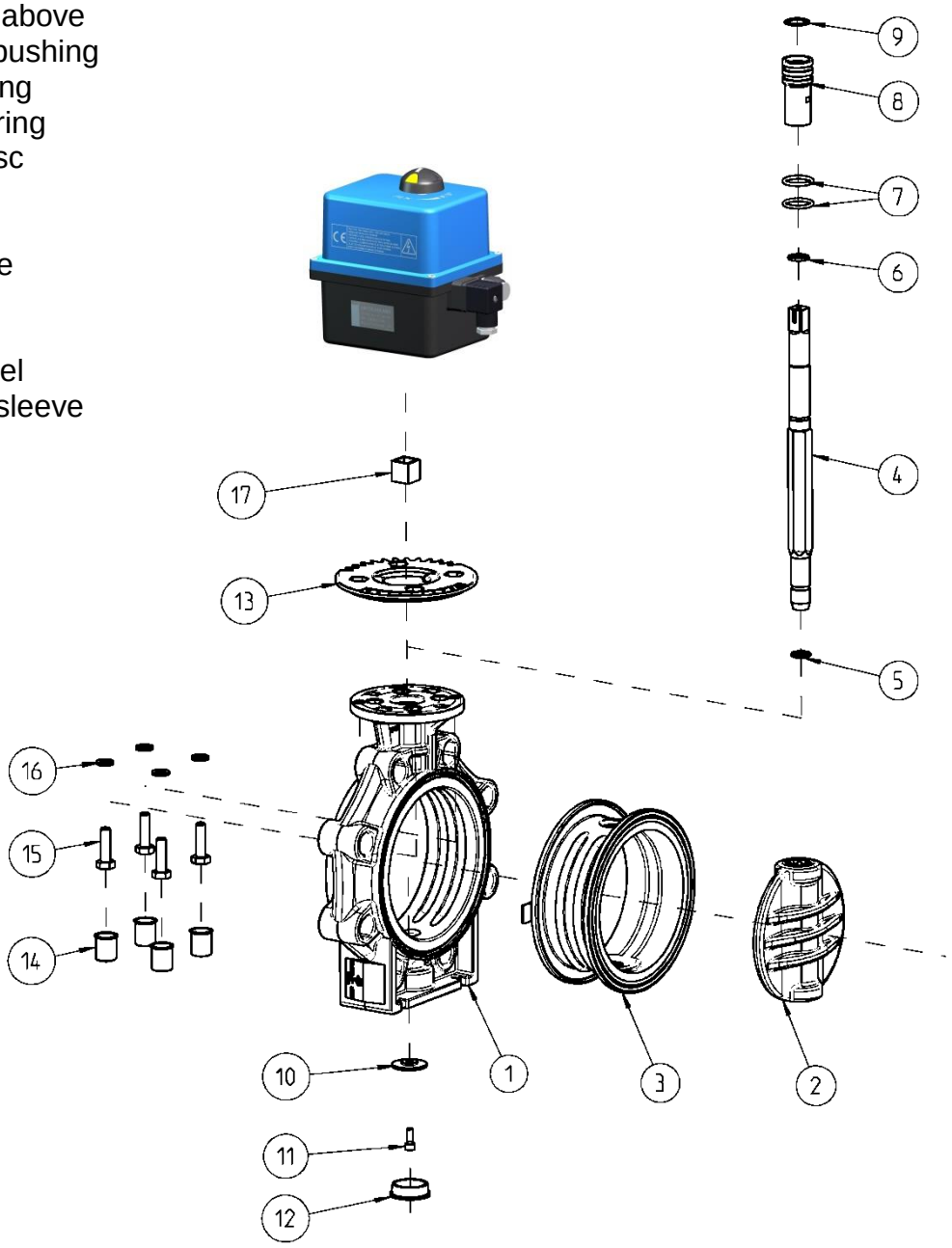
© Praher Plastics Austria GmbH DB/DEEN/18/08/345/C Subject to technical modifications!

Butterfly Valve K4

Electric Actuators ER35 / ER60

Exploded drawing:

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

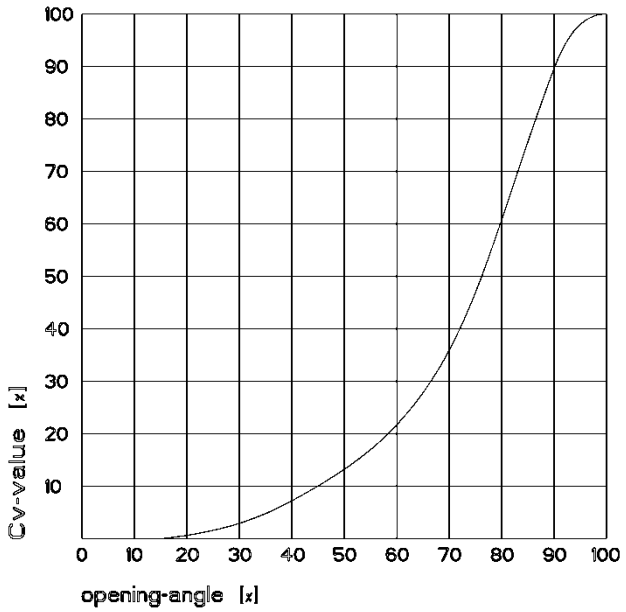


© Praher Plastics Austria GmbH DB/DEEN/18/08/345/C Subject to technical modifications!

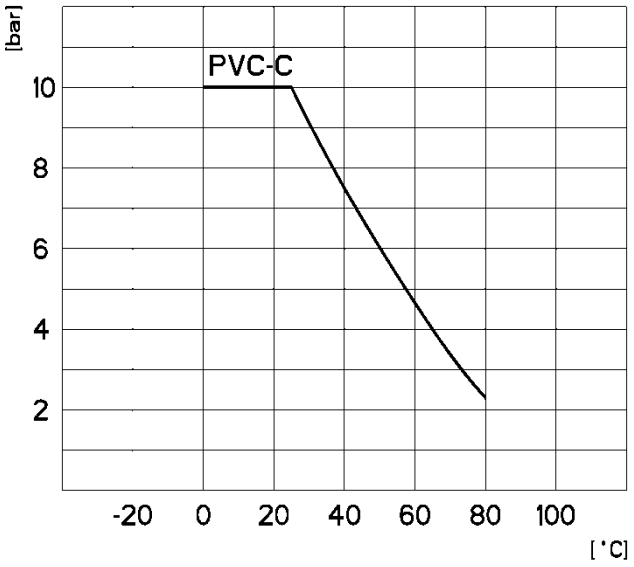
Butterfly Valve K4
Electric Actuators ER35 / ER60

Diagrams:

Flow - characteristic



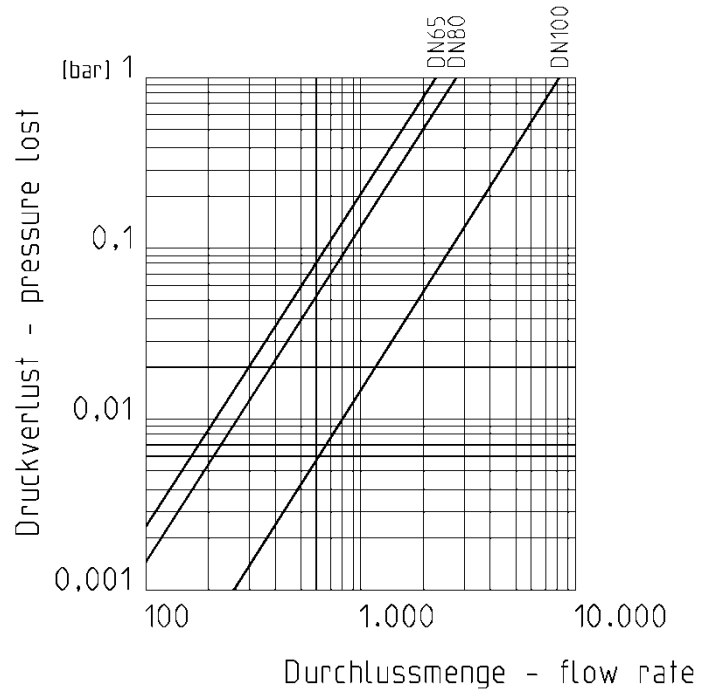
Pressure – temperature – diagram



© Praher Plastics Austria GmbH DB/DEEN/18/08/345/C Subject to technical modifications!

Butterfly Valve K4
Electric Actuators ER35 / ER60

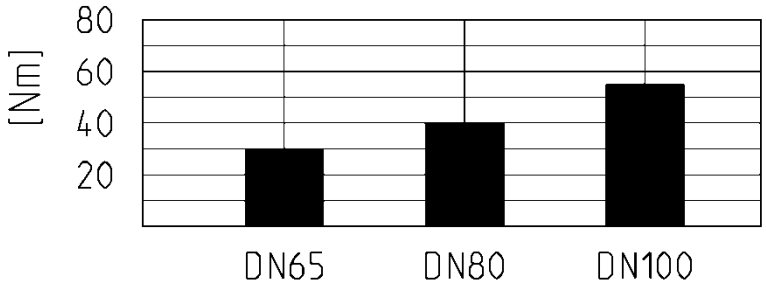
Pressure – loss - diagram



Kv 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



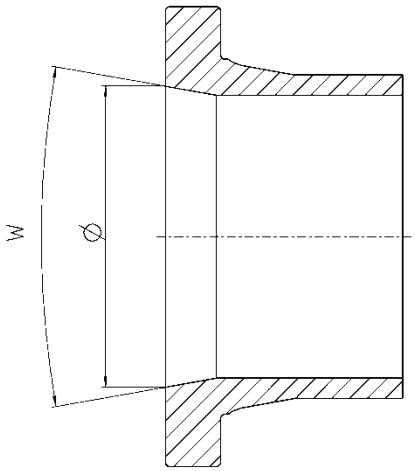
Tightening torque of screws for flange connections

DN	65	80	100
Nm	15	18	20

© Praher Plastics Austria GmbH DB/DEEN/18/08/345/C Subject to technical modifications!

Butterfly Valve K4
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.

© Praher Plastics Austria GmbH DB/DEEN/18/08/345/C Subject to technical modifications!

Butterfly Valve K4

Electric Actuators ER35 / ER60

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 temperature -10 to 50°C
- ISO connection F05 / F07
- Weight 2,1

Type	ER35	ER60
Torque	35Nm	60Nm
Tensions	24V AC/DC, 90-240V AC, 90-350V DC	
Operating time	10s	15s
Power	15W	45W

© Praher Plastics Austria GmbH DB/DEEN/18/08/345/C Subject to technical modifications!