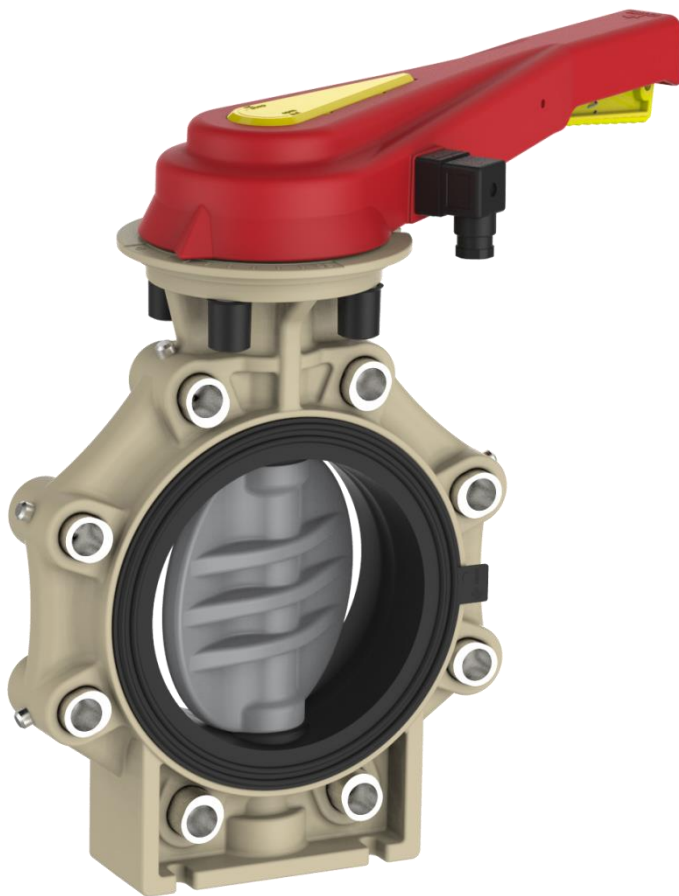


Butterfly valve K4 Lug-Type with hand lever and position feedback



General:

- Sealing material: EPDM, FPM
- Body material: PP-GF
- Flap material: PVC-U, PP-H, PVDF
- Dimensions: DN65 – DN200
d75 – d225
2 1/2" – 8"
- Flange connections: DIN 2501 PN 10
ANSI B 16,5 Class150
- Additional dimensions: DN65/d63
DIN 2501 PN 10
- Material insert: INOX A4
- Material pin: INOX A2

Operating pressure:

PVC-U, PP-H, PVDF

Used as intermediate butterfly valve: PN10

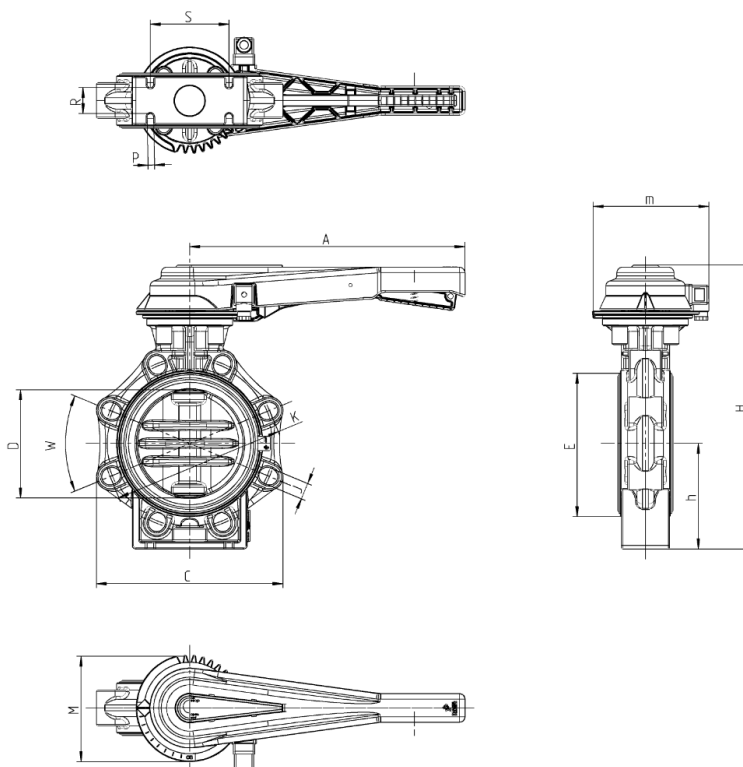
Technical characteristics

- only sleeve gasket and disc in touch with medium
- double sealed shaft
- integrated bracket for fix point mounting
- simple and quick assembling of the actuator without any extra parts
- 10 different disc locking position
- Reliable „locking-handle-system“
- Hand lever with marking plate (different colours available)
- Metal adapter between handle and shaft avoids abrasion of the handle
- 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
- integration position feedback in hand lever
 - Limit switch IP67
 - mechanical
 - AG-NI NO
 - AG-NI NC (on request)
 - AU NO (on request)
 - AU NC (on request)
 - inductive (on request)
 - NPN/PNP
 - Namur (on request)
 - adjustable
 - incl. stainless steel bolts
 - incl. device plug

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!

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

Dimensions:



DN	65	80	100	125	150	200
d	75	90	110	140	160	225
G	2 ½"	3"	4"	5"	6"	8"
A	230	230	300	300	386	386
D	65	80	100	125	150	200
C	133	176	206	234,5	261	314
W	90°	45°	45°	45°	45°	45°
J	19	19	19	23	23	23
K	127 – 145	146 – 160	175 – 190,5	209,5 – 216	234,5 – 241,3	290 – 298,45
K-DIN	145	160	180	210	240	295
K-ANSI	139,7	152,4	190,5	215,9	241,3	298,45
H	285	292	322	358	396	458
h	100	100	115	130	147,5	175
E	98	116	146	170	196	251
M	114	114	114	114	150	150
Z	46	49	56	64	70	71
S	55	70	85	100	110	145
R	25	30	35	45	45	40
P	7	9	9	9	9	9

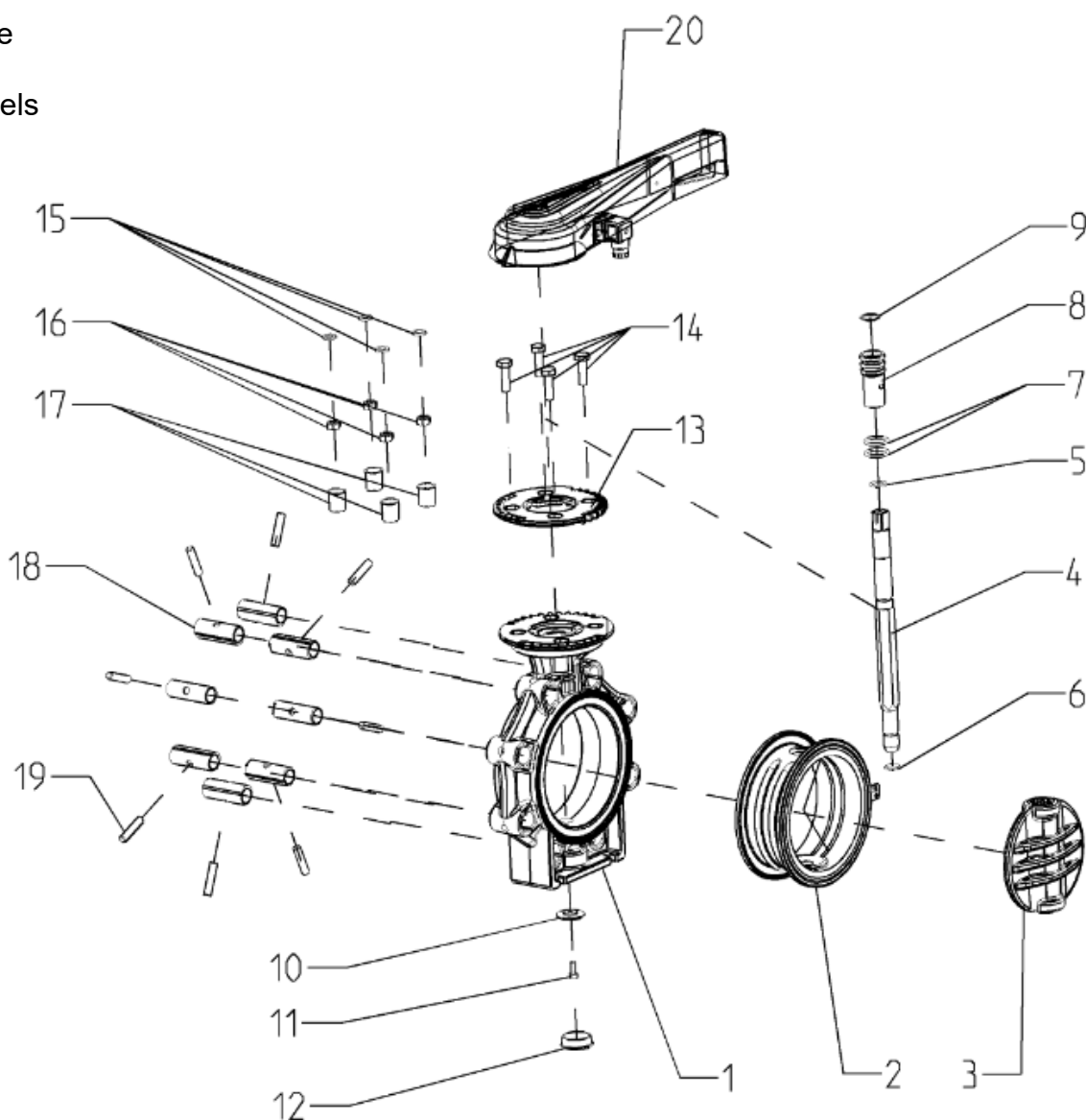
Dimensions in mm

Butterfly valve K4 Lug-Type

with hand lever and position feedback

Exploded drawing:

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

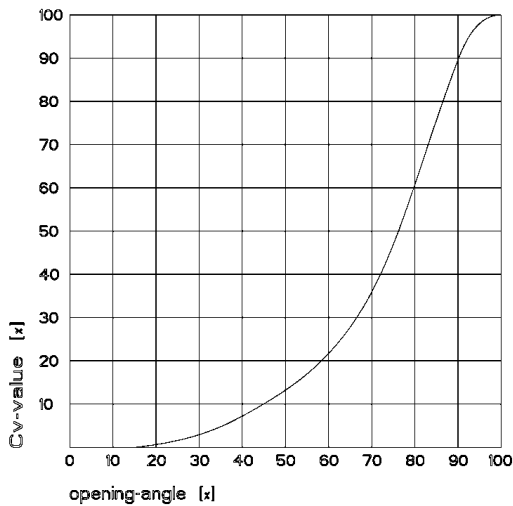


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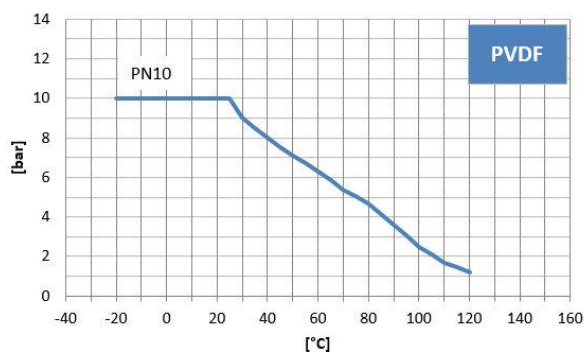
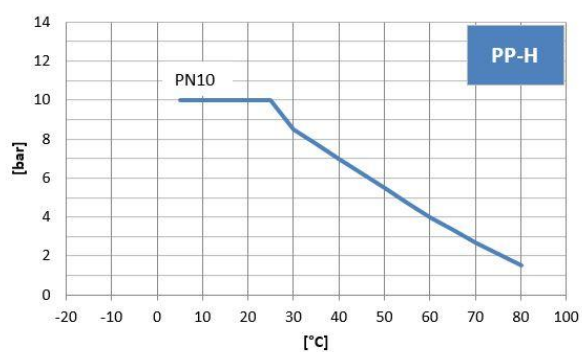
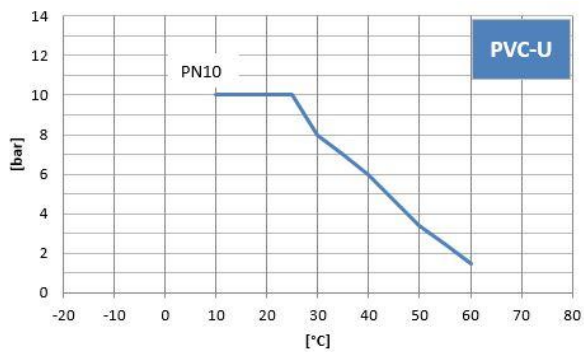
Butterfly valve K4 Lug-Type with hand lever and position feedback

Diagrams:

Flow - characteristics



Pressure – Temperature – Diagrams

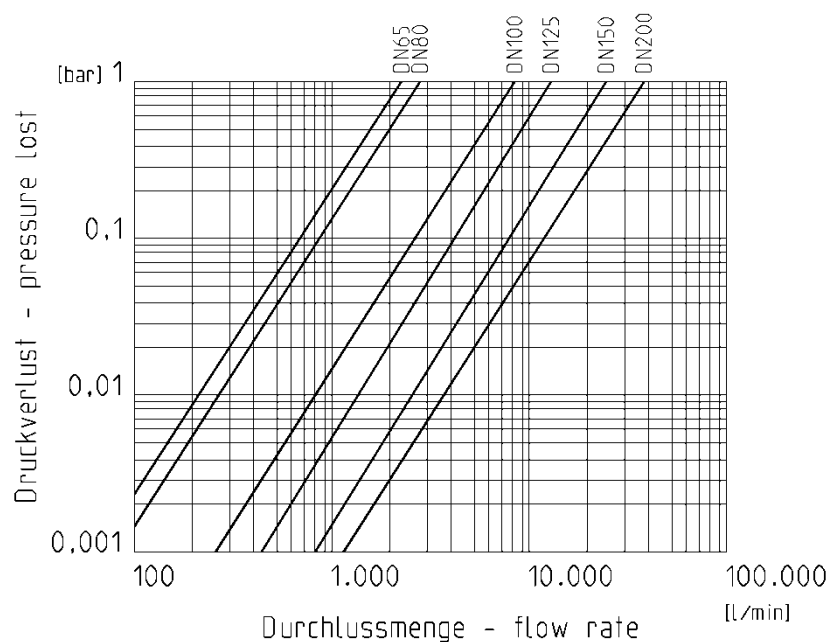


Butterfly valve K4 Lug-Type

with hand lever and position feedback



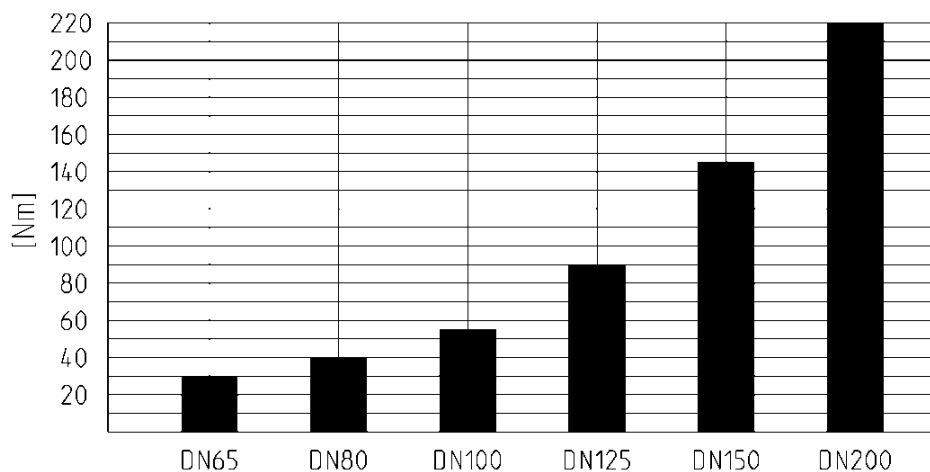
Pressure loss - diagram



Cv value table

Pressure loss	DN65	DN80	DN100	DN125	DN150	DN200
0,001 bar	73 l/min	88 l/min	260 l/min	433 l/min	805 l/min	1200 l/min
1 bar	2300 l/min	2800 l/min	8200 l/min	13700 l/min	25500 l/min	38000 l/min

Torque



Tightening torque of screws for flange connection

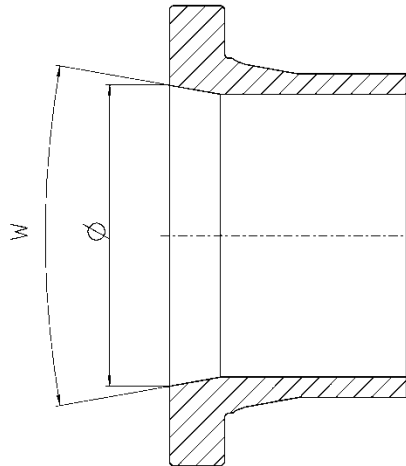
DN	65	80	100	125	150	200
Nm	15	18	20	30	40	55

Butterfly valve K4 Lug-Type

with hand lever and position feedback

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
DN125	d140	121,5	40
DN150	d160	146,5	40
DN200	d225	203	40

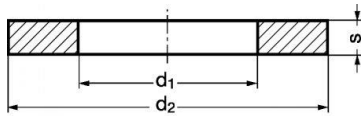
* Suitable only for DIN DN50 d63 sockets and stub flanges.

Butterfly valve K4 Lug-Type

with hand lever and position feedback

General installation instructions:

- Use suitable washers in accordance with DIN125A.



DN	65	80	100	125	150	200
Thread	M16	M16	M16	M16	M20	M20
d1	17	17	17	17	21	21
d2	30	30	30	30	37	37
s	3	3	3	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).

Butterfly valve K4 Lug-Type

with hand lever and position feedback

Technical data position feedback:

Limit switch mechanical		
Type	Silver nickel (Ag-Ni) NO/NC*	Gold contact (Au) NO*/NC*
Voltage max.	15-250V AC (15-30V DC)	5-250V AC (5-30V DC)
Current max.	100mA-5A	1mA-3A
Protection class limit switch	IP67	
Protection class DIN connector plug	IP65	
Ambient temperature	-10°C to +50°C	
Connection diagram	NO NC 	

* on request

Limit switch inductive*		
Typ	NPN*/PNP*	NAMUR* EMV as per IEC / EN 60947-5-2:2004; NE 21 DIN EN 60947-5-6
Voltage max.	10-30V DC	8V DC
Current max.	0-100mA	NAMUR intrinsically safe
Protection class limit switch	IP67	
Protection class DIN connector plug	IP65	
Ambient temperature	-10°C to +50°C	
Connection diagram		

* on request