double flange-butterfly valve
series BUU

Body design Double flanged	Body with threaded / tapped holes
Design performance	Series „U" Short face-to-face length, Series 20 According to ISO 5752-20
Nominal size Design „U"	DN700 - DN1600
Working pressure	1,0 MPa - 1,6 MPa (PN10 / PN16)
Leak test	1,1 MPa - 1,76 MPa
Working temperature	NBR -10 °C / +90 °C Seat EPDM -20 °C / +125 °C *)
Features	**Concentric design** Top flange according to ISO 5211 Flange connection according to BS4504/DIN/ANSI Design complies with API609

**) other alternatives upon request*

1. International Standard compatibility

- according to the standard ISO 5211 the top flange enables to directly assemble any manual operators and actuators. Valves are usually delivered with worm gear actuators. A wide scale of pneumatic or electric actuators can be assembled, too.

2. Blow-out proof system

- a retaining washer disables shaft movement upwards.

3. Lenghtened neck

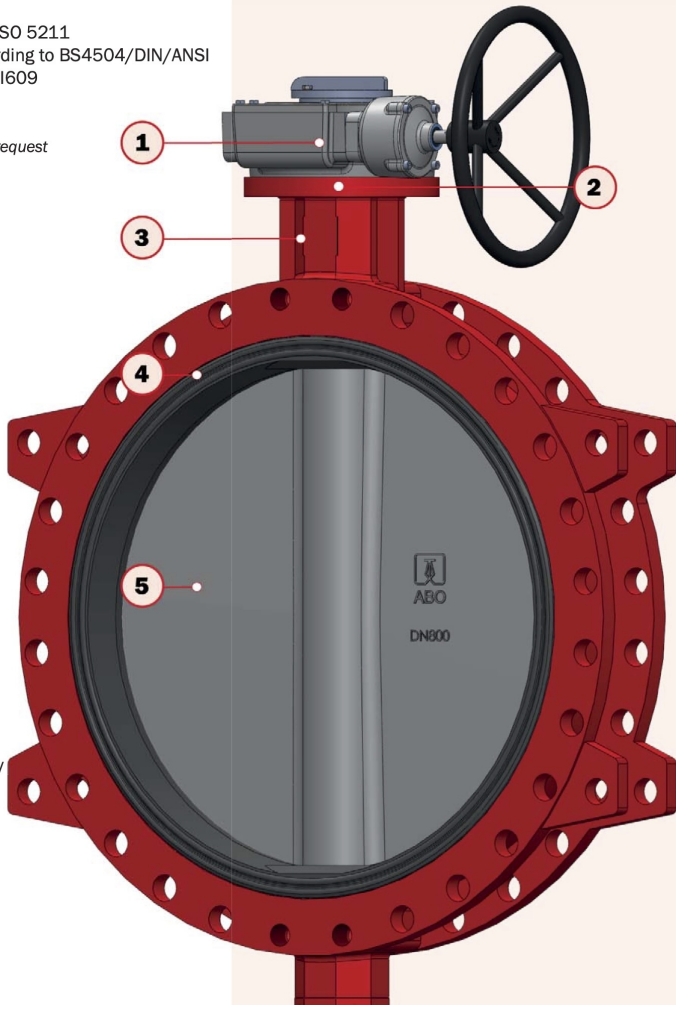
- enables to insulate the actuator from conveyed media warm effects and thus meets requirements on heating systems controls

4. Seat design

- seat movement or incorrect position is impossible - seat can be vulcanized. Vulcanizaton leads to decreasing torque values needed to handle the valve. Valve inner part is fully rubber lined and thus protected against corrosive effects.

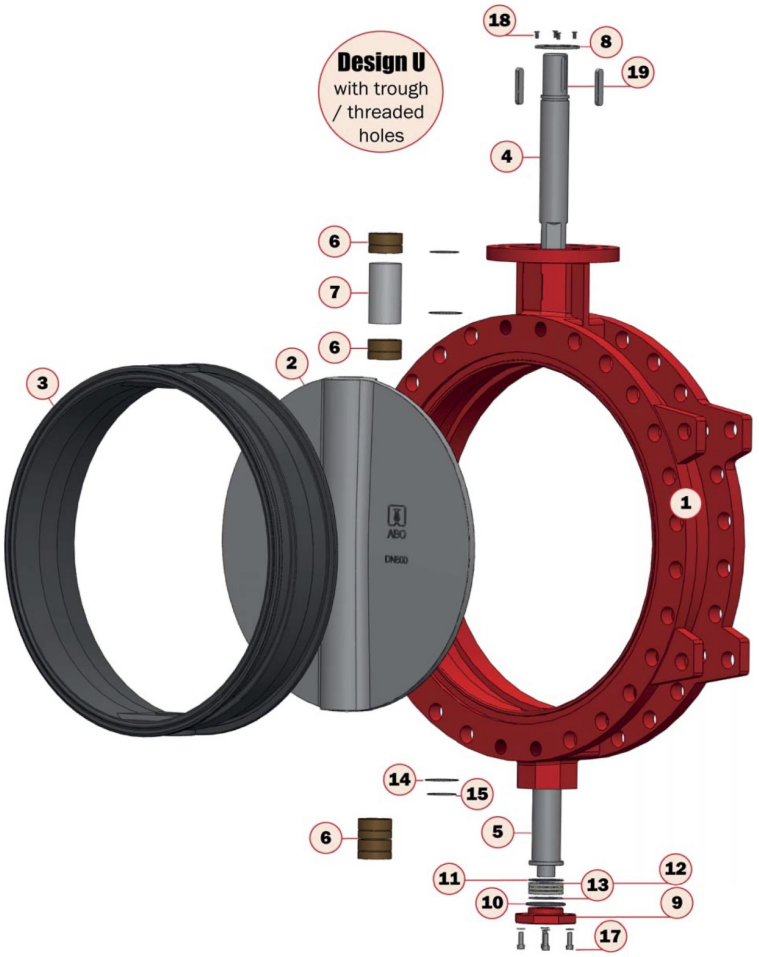
5. Disc design

- disc with polished edges is protective to seat and provides a long lifespan. Symmetric disc profile improves valve performance by increasing Kv (Cv) values, decre ases turbulence and minimizes pressure loss



DN700-DN1600 / PN10

Pos	Name	Material
1	**Body**	0.7040
2	**Disc**	upon request
3	**Seat**	upon request
4	**Shaft**	1.4021
5	**Pivot**	1.4021
6	**Bushing**	Bronze
7	**Supporting liner**	1.4301
8	**Retaining ring**	1.4401 (316)
9	**Cover**	0.7040
10	**Washer**	1.4301 (304)
11	**Washer**	1.4301 (304)
12	**Bearing**	upon standard
13	**O-ring**	upon request
14	**O-ring**	upon request
15	**O-ring**	upon request
16	**Washer**	A4
17	**Bolt**	A4
18	**Bolt**	A4
19	**Spring**	A4



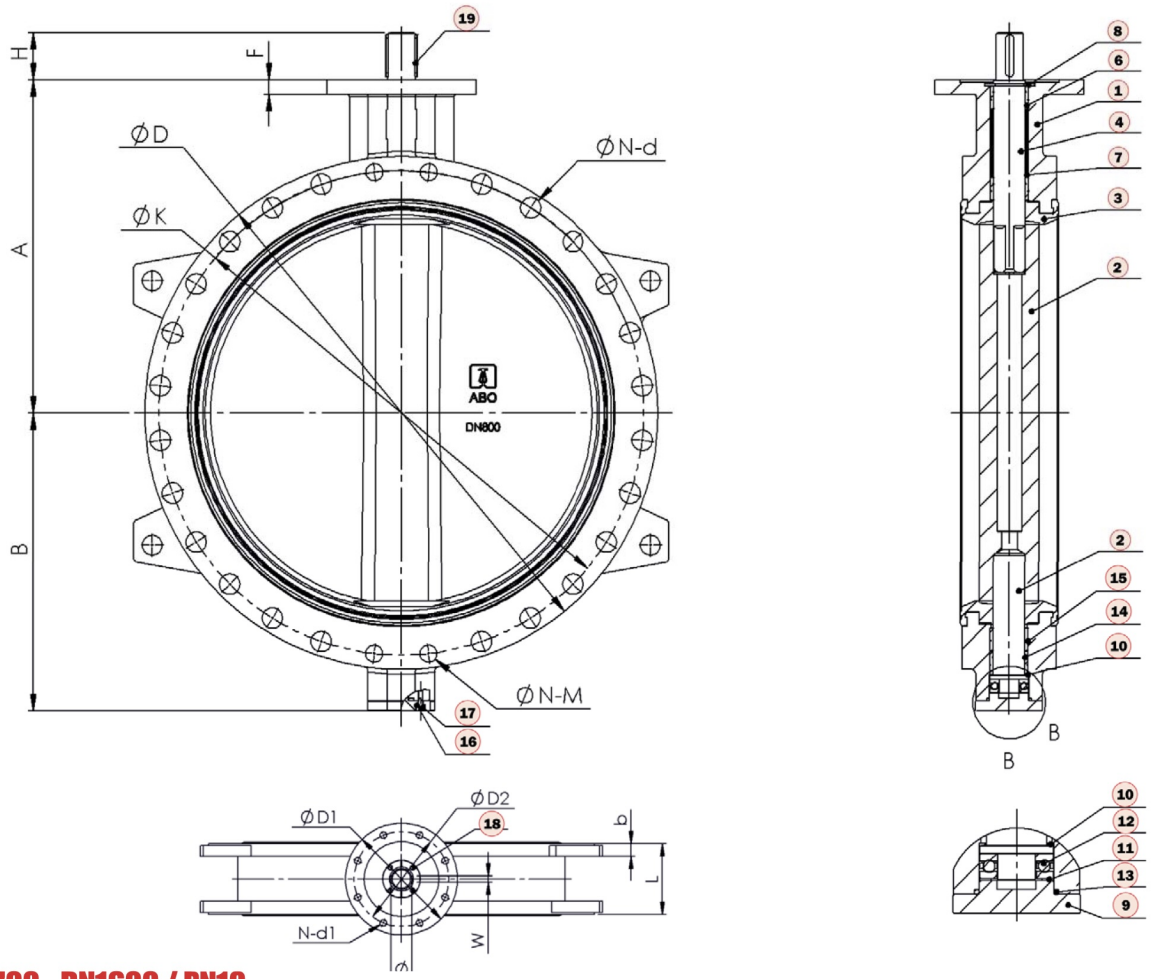
Advantages of concentric shut-off valve double-flanged design

- 100 % tightness
- 0% leakinesst
- vulcanized seat
- actuation by various actuator types - manual, electric, pneumatic or special types
- on/off and for regulation
- fully sealed stem, medium is not in contact with stem and body
- bi-directional tightness
- low body weight
- disc aerodynamic design minimising pressure loss
- disc with polished edges, high through put profile

Material options
Body / Disc / Seat/ Shaft

Body	Grey cast iron / Ductile iron / Carbon steel / Stainless steel / Epoxy coating / Coating C4, C5
Disc	Ductile iron / Stainless steel / Aluminium Bronze / Duplex / Super Duplex / HC276 / RILSAN, HALAR coating
Seat	NBR / EPDM / EPDM for potable water/FPM/Silicone
Shaft	AISI420 / AISI431 / F51/ F55 or

**) special materials upon request*



DN700 - DN1600 / PN10

	700	800	900	1000	1100	1200	1400	1600
A	624	672	720	800	900	941	1040	1150
B	535	606	670	735	830	978	1009	1138
H	95	95	130	130	135	150	150	180
D	910	1025	1125	1255	1355	1485	1685	1930
K	840	950	1050	1160	1270	1380	1590	1820
N-d	20-31	20-34	24-34	24-37	28-37	28-41	32-44	36-50
N-m	4-M27	4-M30	4-M30	4-M33	4-M33	4-M36	4-M39	4-M45
L	165	190	203	216	254	254	279	318
b	32,5	35	37,5	40	42,5	45	46	49
D1	300	300	300	300	350	350	415	415
D2	254	254	254	254	298	298	356	356
N-d1	8-18	8-18	8-18	8-18	8-22	8-22	8-33	8-33
F	30	30	34	34	34	34	40	40
Ø	55	55	75	85	105	105	120	160
W	16	16	20	22	28	28	32	40

Dimensions are mentioned in mm.
PN16 / Class 150 upon request

illustrations are non-binding
all designs, configurations, measurements and materials are subject to change without prior notice