

# BOAX-CBV type CBV13

## Centered disc Butterfly valve

**PN 10 / 16**  
**DN 50 - 1200**



### Benefits at a glance

- Flanged type body T7: suitable for downstream dismantling and dead-end service
- Permanent and reliable shut-off and sealing to atmosphere
- Contains no asbestos, CFC, PCB or substances impairing paint adhesion
- Approved for drinking water applications (rubber and painting WRAS certified)
- Manual gearbox operated

### Applications

- Flow shut-off or regulation
- For water supply, treatment, distribution, sewage, irrigation, potable water, high pure water, sea water, air, gas, oil

### Operating data

- Maximum permissible pressure: 16 bar
- Maximum permissible temperature: 115 °C

### Materials

- Body: ductile iron
- Disc: stainless steel
- Shaft: stainless steel 316
- Liner: EPDM: from -10 °C to +115 °C  
NBR: from -10 °C to +80 °C

### Design

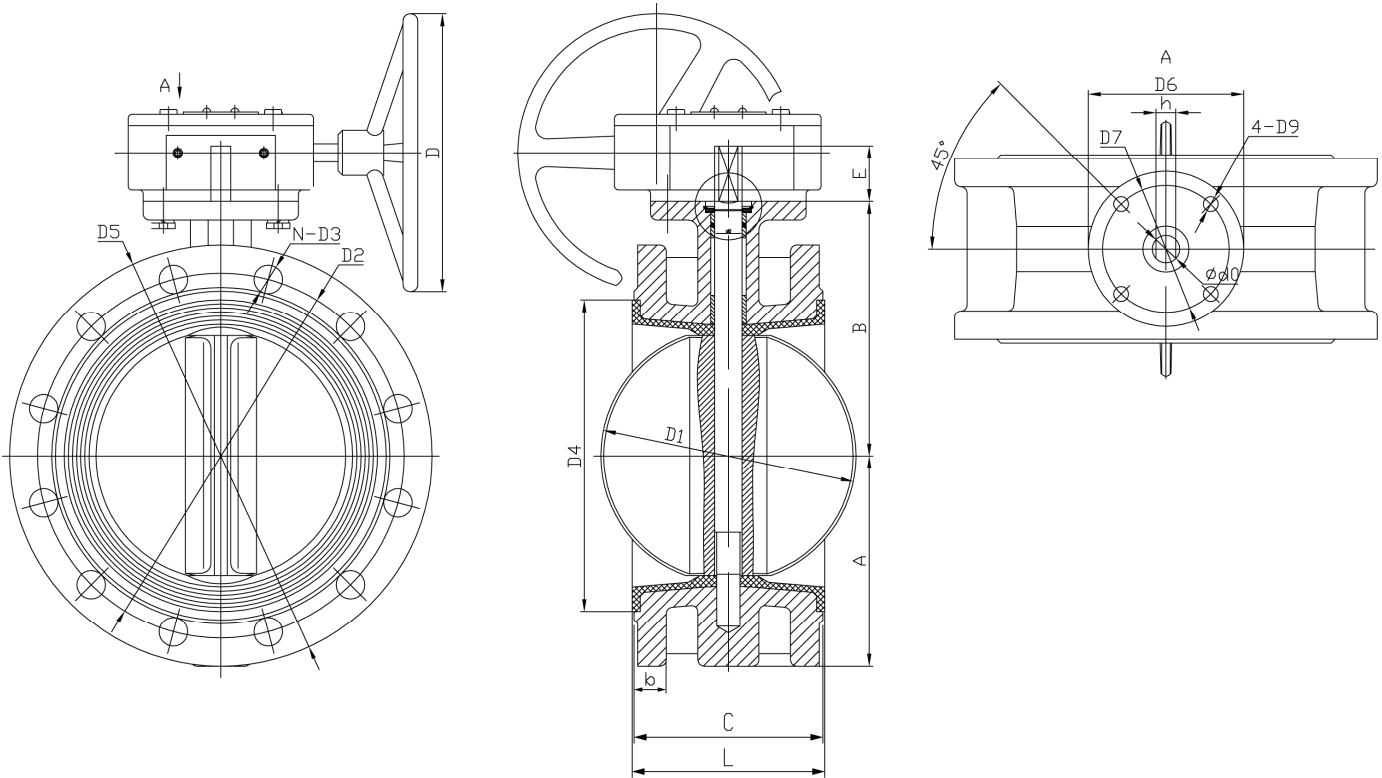
- Valve perfectly tight shut-off (no visible leakage at the naked eye) in either flow direction
- In accordance with API 598 – AWWA C504
- Flanged type body with raised faces (T7)
- Top flange to ISO 5210
- Face-to-face length to ISO 5752 EN 558 series 13 (Double flanged short) / BS 5155
- Design to BS5155 – AWWA C504
- Pressure rating PN 10/16 bar
- Line connection to EN 1092 PN 10/16
- Marking to EN 19

### Standard variants

- Pneumatic actuators
- Electric actuators
- Limit switches

**Other DN's, materials, variants, .....? Please contact us for your personal quotation**

Overall dimensions



Standard Model

DN	PN	Dimensions (mm)														N	Weight (kg)						
		D1	D2	D3	D4	D5	D6	D7	D9	d0	h	A	B	C	E			L	b				
50	10/16	52.9	125	19	95	165	90	70	10	12.6	9	83	120	108	32	111	19.0	4	12.9				
65		64.5	145		114	185						93	130	112		115			14.9				
80		78.8	160		128	200						100	145	114		117			16.6				
100		104	180		150	220						114	155	127		130			19.3				
125		123.3	210	180	250	14	170	140	143	28.2													
150		155.6	240	200	285						18.9	143	190	140	28.2								
200		202.5	295	23	262	340	125	102	12	22.1	17	170	205	152	40	155	20.0	8	44.8				
250		250.5	350		310	395				28.5	22	198	235	165		168	22.0		12	64.0			
300		301.6	400		364	445				31.6	-	223	280	176		182	24.5		16	73.7			
350		333.4	460		415	505															150	125	14
400		389.7	515	28	460	565	175	140	18	38	-	300	340	216	52/72	221	25.5	20	137.0				
450		440.7	565		510	615				42.9	-	345	375	222		227			190.4				
500		491.6	620		560	670				41.1	-	355	430	229		64/82			234	26.5	20	240.2	
600		592.5	725		31	660																	780
700		10	695.0	840	34	770	895	300	254	18	63.4	-	478	560	292	66/82	299	32.5	24	417.6			
800			794.7	950		871	1015						-	560	640		318	325		35.0	580.0		
900	864.7		1050	972		1115	75						-	584	665		330	118		338	37.5	28	763.0
1000	965.0		1160	37		1080																	
1200	1160.6		1380	41	1270	1455	350	298	22	105	-	799	917	470	150	478	45.0	32	1560.0				

## Hydraulic characteristics

DN	NPS	Flow coefficient valve in fully open position		Zeta
		Kvo	Cvo	
50	2	116.4	135	0.74
65	2 ½	189.7	220	0.79
80	3	260.3	302	0.97
100	4	517.2	600	0.60
125	5	881.0	1022	0.50
150	6	1361.2	1579	0.44
200	8	2703.4	3136	0.35
250	10	4603.4	5340	0.29
300	12	7112.1	8250	0.26
350	14	10273.3	11917	0.23
400	16	14127.6	16388	0.20
450	18	18711.2	21705	0.19
500	20	21058.6	27908	0.23
600	24	37169.0	43116	0.15
700	28	42672.4	49500	0.21
800	32	58836.2	68250	0.19
900	36	74461.2	86375	0.19
1000	40	103232.8	119750	0.15
1200	48	147623.3	171243	0.15

## Operating torques \*)

DN	NPS	Operating torques *) (in Nm)	
		10 bar (lubricated)	16 bar (lubricated)
50	2	17.5	17.5
65	2 ½	25.0	25.0
80	3	33.8	33.8
100	4	62.5	62.5
125	5	106.3	106.3
150	6	156.3	156.3
200	8	297.5	297.5
250	10	525.0	525.0
300	12	837.5	837.5
350	14	1217.5	1217.5
400	16	1641.3	1641.3
450	18	2243.8	2243.8
500	20	2897.5	2897.5
600	24	4658.8	4658.8
700	28	6162.5	
800	32	8113.8	
900	36	9901.3	
1000	40	16811.3	
1200	48	23646.3	

\*) The safety coefficient to define the adapted actuator is included in the torque value.