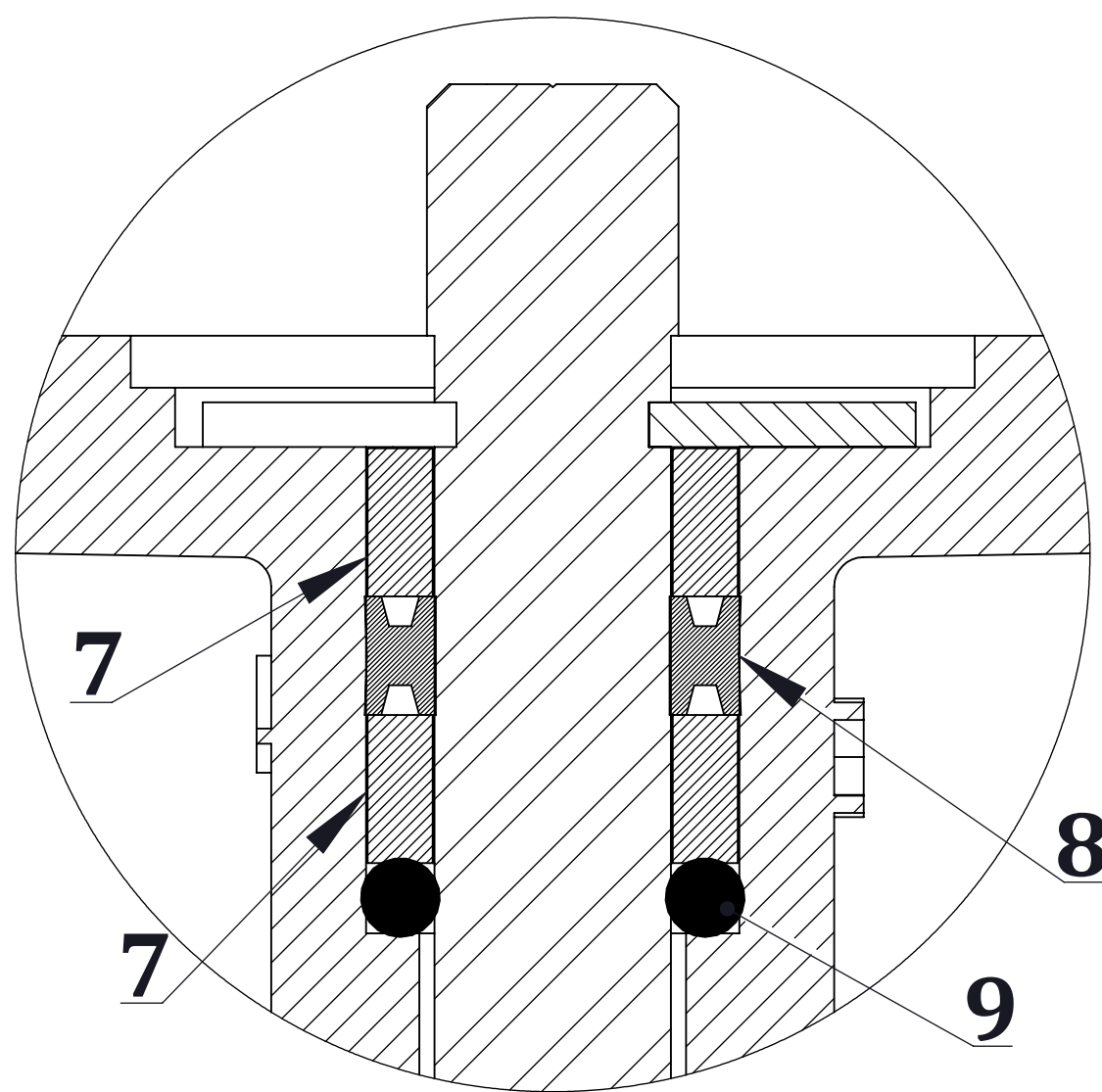
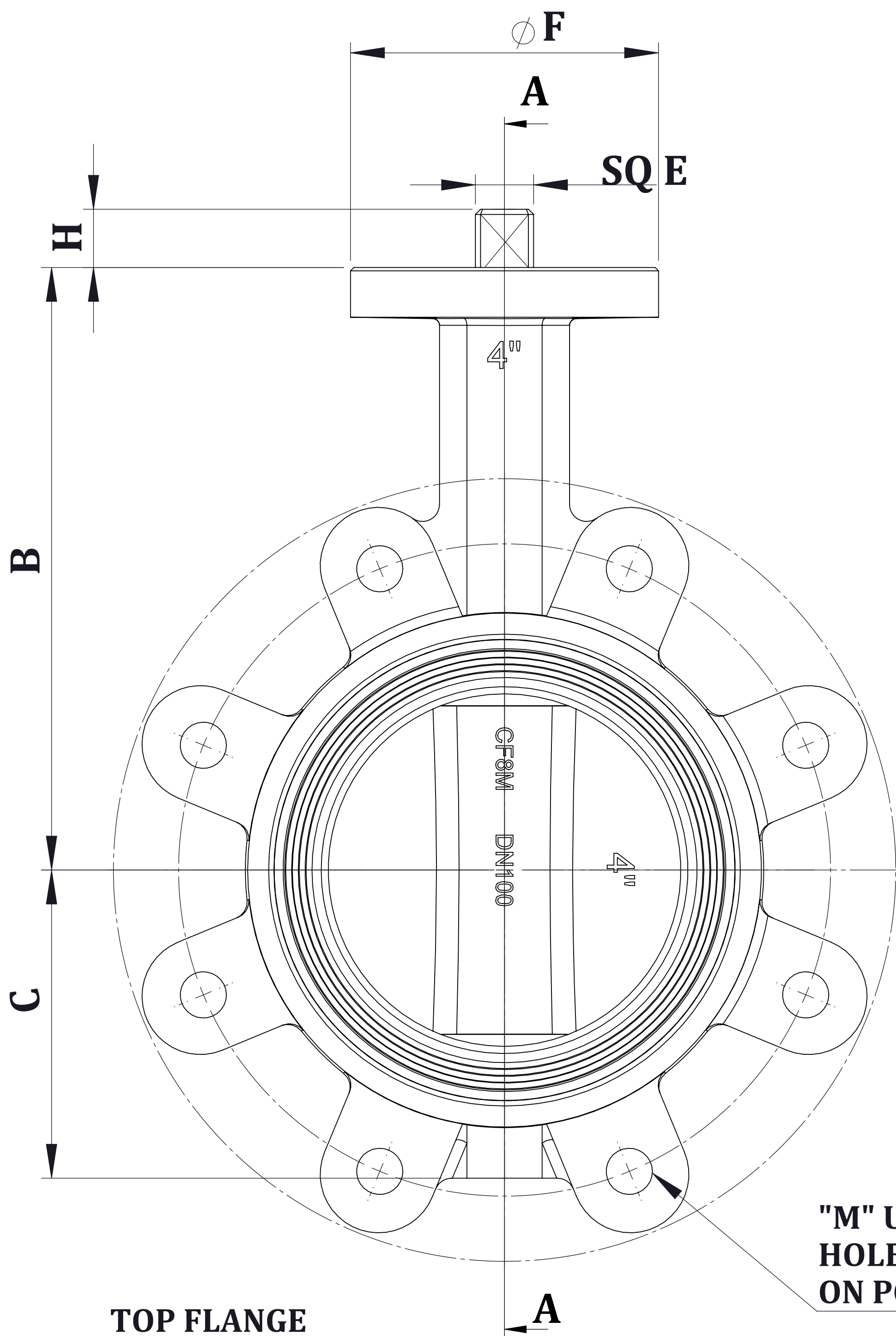
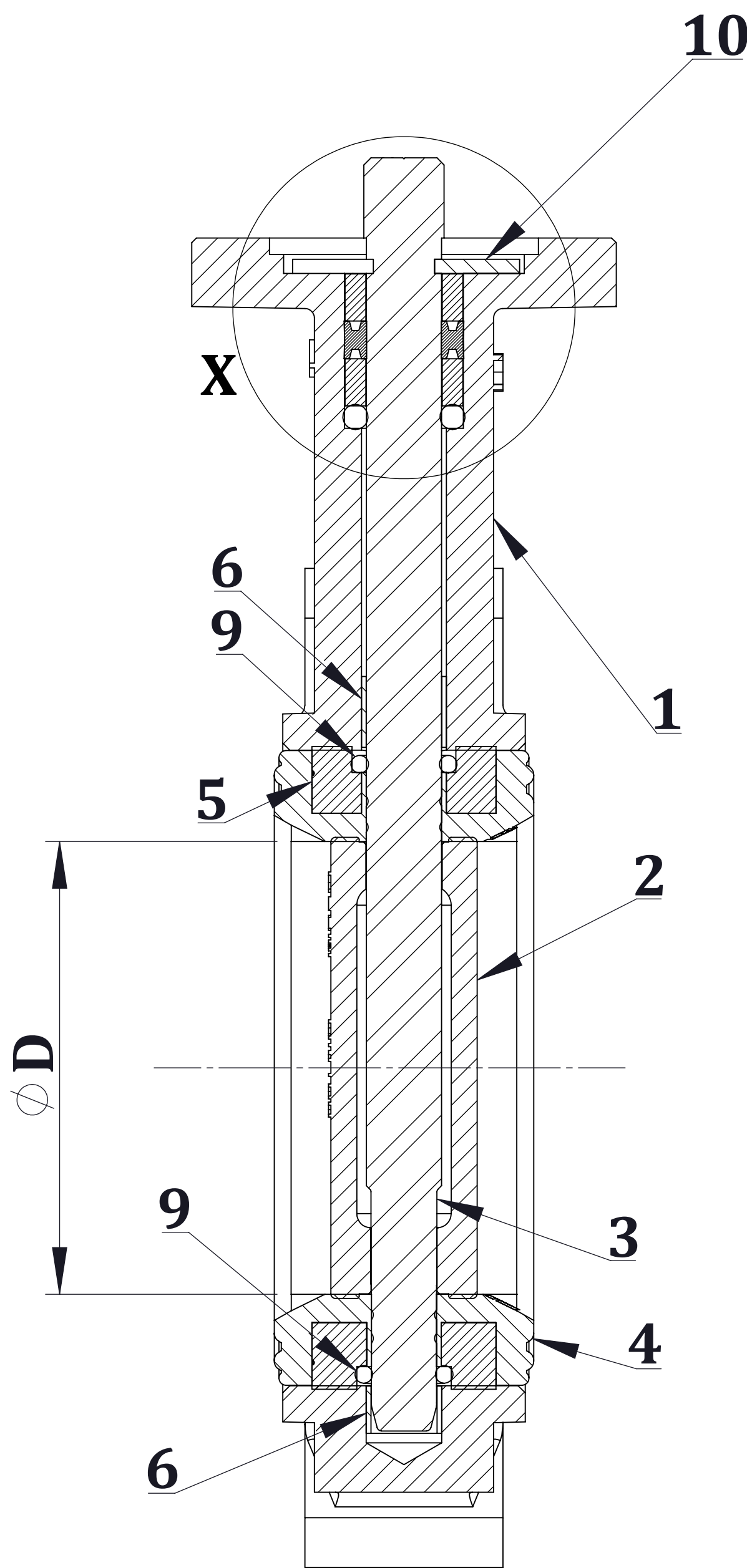


REVISIONS					
REV	ECN.NO	ECN.DATE	DESCRIPTION	CHK.BY	APP.BY

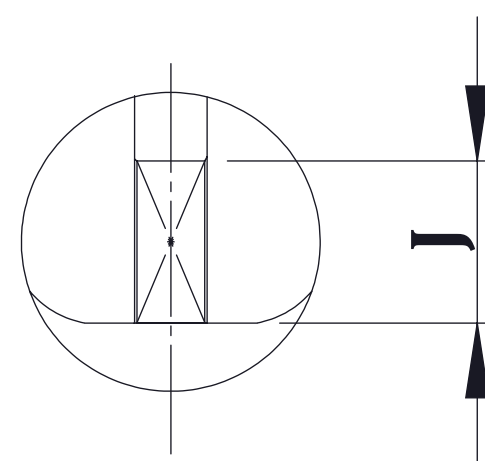


DETAIL X



SECTION A-A

TEST PRESSURE (PSI)		
PRESSURE RATING		230 PSI
HYDRO STATIC TEST PRESSURE	BODY	348 PSI
	SEAT	255 PSI

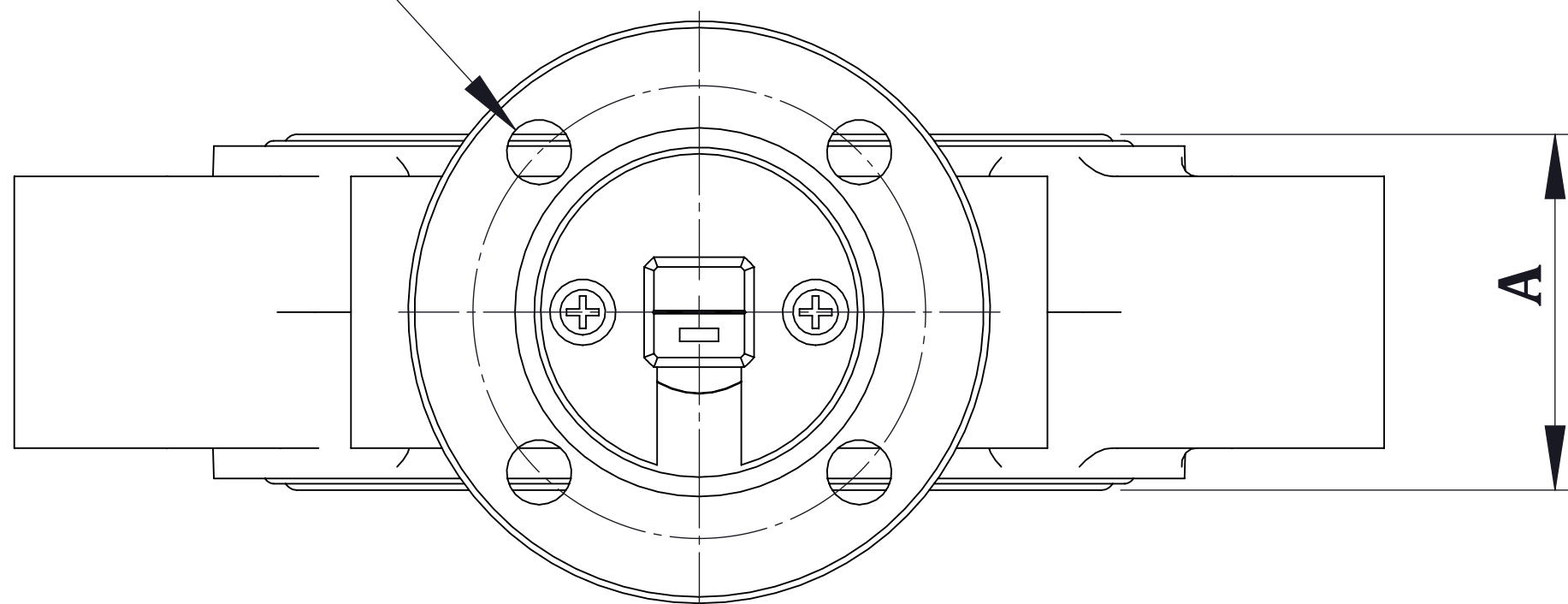


DISC STEM
ENGAGEMENT

NO	DESCRIPTION	MATERIAL	QUANTITY
1	BODY	ASTM A536 65-45-12	1
2	DISC	CF8M	1
3	STEM	420 STAINLESS STEEL	1
4	SEAT	NBR/EPDM/VITON	1
5	BACKUP RING**	BAKELITE/ALUMINIUM	1
6	SHAFT BUSHING	PTFE	2
7	BUSHING	NYLON	2
8	U-SEAL	NBR/EPDM/VITON	1
9	O-RING	NBR/EPDM/VITON	3
10	RETAINING RING	STEEL	1

******- UPTO 6" BAKELITE AND ABOVE 6" ALUMINIUM BACKUP RING USED

TOP FLANGE
DRILLING



DIM: INCH (MM)

ND	Ø D	A	B	C	H	SQ. E	Ø F	J	LUG DRILLING			TOP FLANGE DRILLING		
									M	N	K	PCD	HOLE QTY	HOLE DIA
2"	1.34 [34.0]	1.81[46.0]	5.55[141.0]	2.56[65.0]	0.51[13.00]	0.43[11.0]	3.54[90.0]	0.53[13.50]	5/8-11 UNC	4	4.75[120.6]	2.76[70.0]	4	0.39[10.0]
2 ½"	1.85 [47.0]	1.93[49.0]	6.02[153.0]	2.80[71.0]	0.51[13.00]	0.43[11.0]	3.54[90.0]	0.55[[14.00]	5/8-11 UNC	4	5.50[139.7]	2.76[70.0]	4	0.39[10.0]
3"	2.60 [66.0]	1.93[49.0]	6.22[158.0]	3.70[94.0]	0.67[17.00]	0.55[14.0]	3.54[90.0]	0.55[14.00]	5/8-11 UNC	4	6.00[152.5]	2.76[70.0]	4	0.39[10.0]
4"	3.62 [92.0]	2.17[55.0]	6.93[176.0]	4.25[108.0]	0.67[17.00]	0.55[14.0]	3.54[90.0]	0.55[14.00]	5/8-11 UNC	8	7.50[190.5]	2.76[70.0]	4	0.39[10.0]
5"	4.65 [118.0]	2.32[59.0]	7.52[191.0]	4.40[112.0]	0.67[17.00]	0.55[14.0]	3.54[90.0]	0.55[14.00]	3/4-10 UNC	8	8.50[215.9]	2.76[70.0]	4	0.39[10.0]
6"	5.75 [146.0]	2.32[59.0]	7.99[203.0]	5.28[134.0]	0.79[20.00]	0.67[17.0]	3.54[90.0]	0.53[13.50]	3/4-10 UNC	8	9.50[241.3]	2.76[70.0]	4	0.39[10.0]
8"	7.68 [195.0]	2.48[63.0]	9.61[244.0]	6.50[165.0]	0.79[20.00]	0.67[17.0]	5.91[150.0]	0.89[22.50]	3/4-10 UNC	8	11.74[298.0]	4.92[125.0]	4	0.59[15.0]
10"	9.65 [245.0]	2.80[71.0]	10.75[273.0]	7.76[197.0]	0.98[25.00]	0.87[22.0]	5.91[150.0]	0.89[22.50]	7/8-9 UNC	12	14.23[361.4]	4.92[125.0]	4	0.59[15.0]
12"	11.61[295.0]	3.25[82.5]	12.24[311.0]	9.17[233.0]	0.98[25.00]	0.87[22.0]	5.91[150.0]	0.89[22.50]	7/8-9 UNC	12	17.00[431.8]	4.92[125.0]	4	0.59[15.0]

- NOTE:
- Design Std as per API609 CAT A
 - Drilling Standard as per ANSI B16.5 #150
 - Testing Std as per API 598
 - Body : Powder Coating NSF Approved
 - All Dimensions are in inches [mm]

DO NOT SCALE DRAWING				MATERIAL:		WEIGHT:		HARDNESS:		♦ INDICATES CRUCIAL DIMENSIONS	
DIMENSIONS ARE IN INCHES (MM)				NAME	SIGNATURE	DATE	SCALE:	NTS	TITLE MODEL: BBFL LUG TYPE		
TOLERANCES UNLESS OTHERWISE SPECIFIED				DRAWN	D.D	08.09.22			2"- 12" [DN50-DN300] BUTTERFLY VALVE BARE STEM		
DIM.	TOL.	DIM.	TOL.	CHK'D	S.R	09.09.22					
				APP'VD	S.P	09.09.22					
0.0 [0.0]	±0.76[0.30]	ANGLE	± 1.0°								
0.00 [0.000]	±0.13 [0.005]										
ENG.RELEASE NO.											
ENG.RELEASE DATE:											
							DWG NO.		Rev. No	-	
							191 000 99 001 A		SHEET	01	