

### Allowable nozzle loads

*Допустимые нагрузки на штуцера*

Nozzle Штуцер	Dimension Размер	$F_x$ [N]	$F_t$ [N]	$F_z$ [N]	$M_t$ [Nm]	$M_t$ [Nm]
N91	3" ASME B16.5 Cl. 150	2900	2000	2000	700	1000
N92	3" ASME B16.5 Cl. 150	2900	2000	2000	700	1000
N93	1 1/2" ASME B16.5 Cl. 300	750	750	750	180	220
N94	1" ASME B16.5 Cl. 300	500	500	500	150	200
N95	2" ASME B16.5 Cl. 300	1500	1100	1100	200	200
N97	2" ASME B16.5 Cl. 300	1500	1100	1100	200	300

1) LTF: large tongue facing / укл. поверхность с крупным шипом  
2) LGF: large groove facing / укл. поверхность с крупным пазом  
5) RF: raised face / "гладкая" поверхность

N99	Drain	1"	ASME B16.5 Cl. 300	WN LGF	2) with blind flange	1)	
N98	Vent Вентиляция	1"	ASME B16.5 Cl. 300	WN LGF	2) with blind flange	1)	
N97	Condensate конденсат	2"	ASME B16.5 Cl. 300	2) counter fl. LTF	1) с фланцевой фланцев		#57 x 5
N95	Vapour outlet выход пара 1	2"	ASME B16.5 Cl. 300	WN LGF	2) counter fl. LTF	1)	#57 x 5
N94	Vapour inlet 2 вход пара 2	1"	ASME B16.5 Cl. 300	WN LGF	2) counter fl. LTF	1)	#32 x 4,5
N93	Vapour inlet 1 вход пара 1	1 1/2"	ASME B16.5 Cl. 300	WN LGF	2) counter fl. LTF	1)	#45 x 5
N92	Cooling water outlet выход охлаждающей воды	3"	ASME B16.5 Cl. 150	WN RF	5) counter fl. RF	5)	#89 x 4
N91	Cooling water inlet вход охлаждающей воды	3"	ASME B16.5 Cl. 150	WN RF	5) counter fl. RF	5)	#89 x 4
Notes	Указания						
Штамп	Подпись	Исполнение	NPS	Standard-class Стандарт-класс	Type Тип	Remarks Примечание	OD x wall thickn. for conn. pipe Наружный Ø и толщина стенки соединительной трубы
Coast Surface Исполнение поверхности				LGF/RTF: Ra = max. 3,2 µm Ra = 3,2...6,3 µm			

Reference drawing:

1. List of Material M7
2. Spare parts list SP2
3. Design Calculation D7
4. Test and Examination Sequence Plan T7
5. WPS/POR W7
6. Tube layout section A-A drwg: 227000 645610 D
7. Bundle cage drwg: 227000 645611 D
8. Sliding sheet drwg: 227000 645625 B
9. Test ring and test flange drwg: 227000 645612 D

Прилагаемые документы

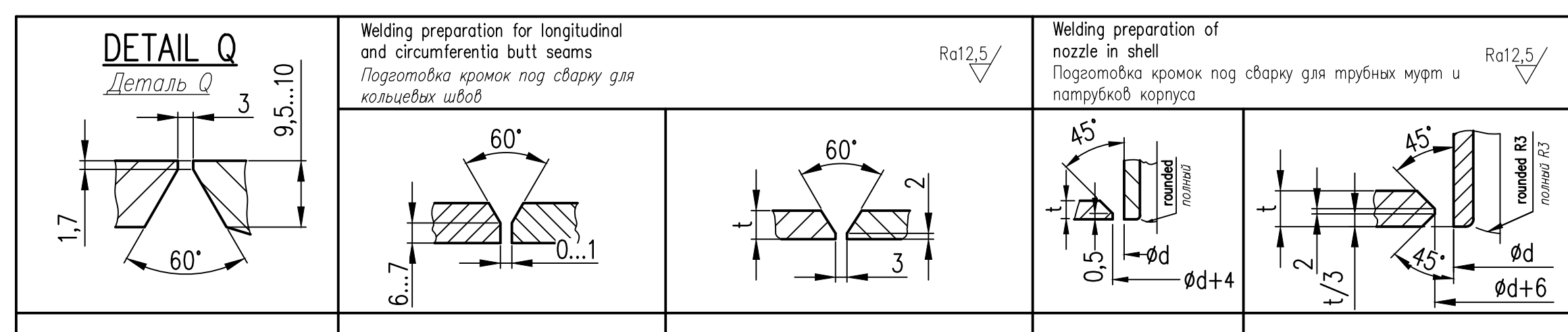
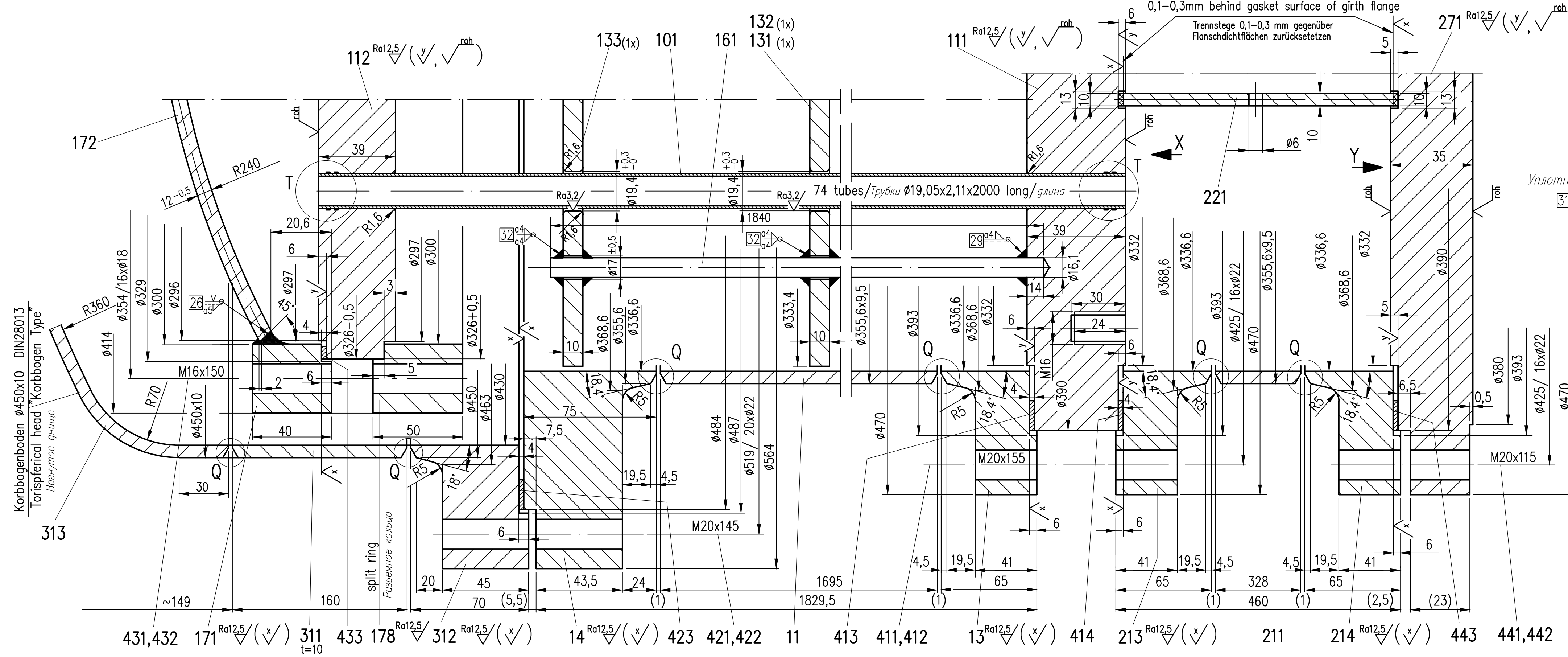
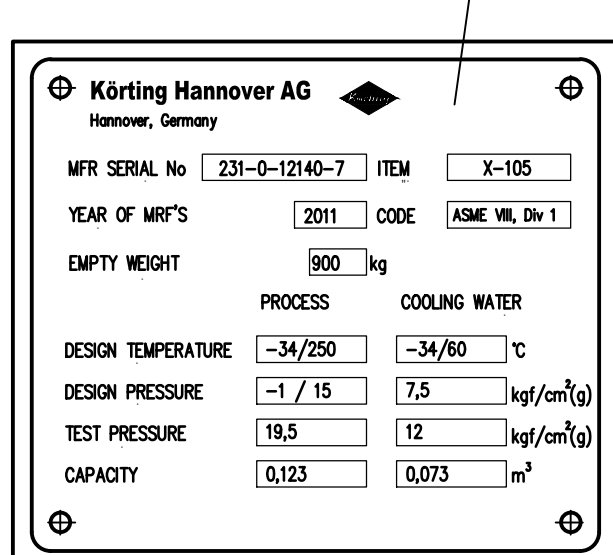
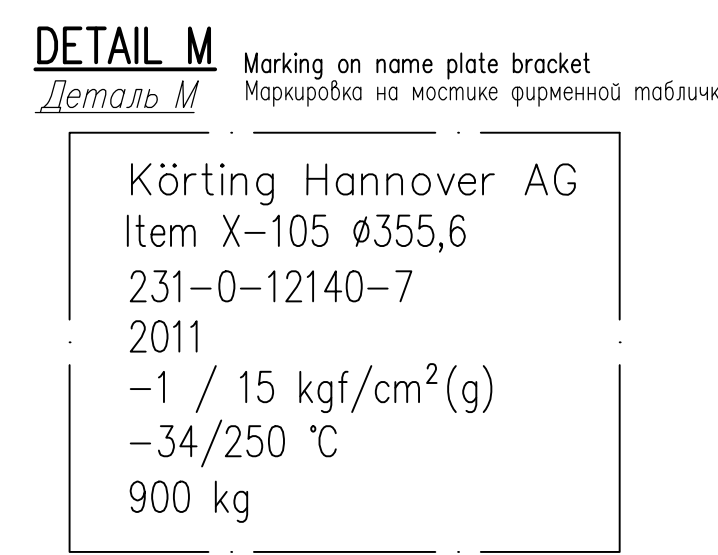
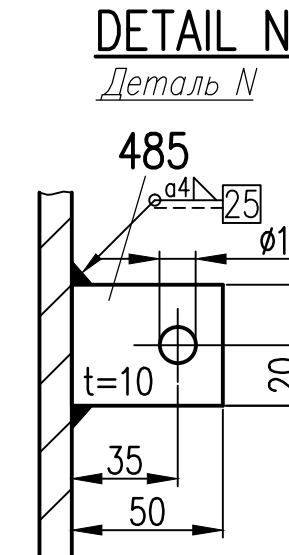
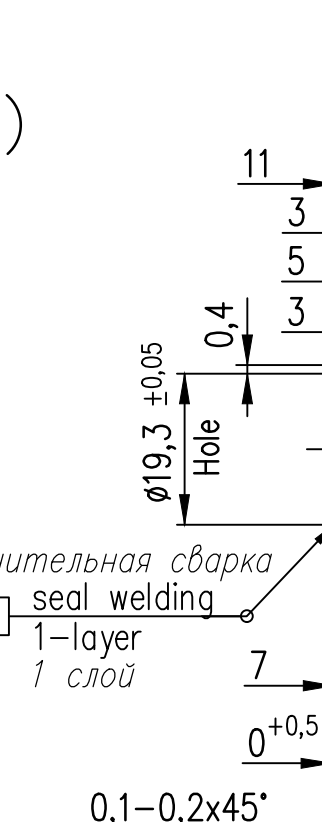
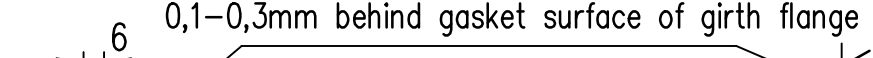
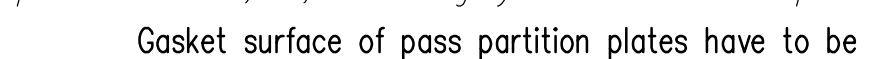
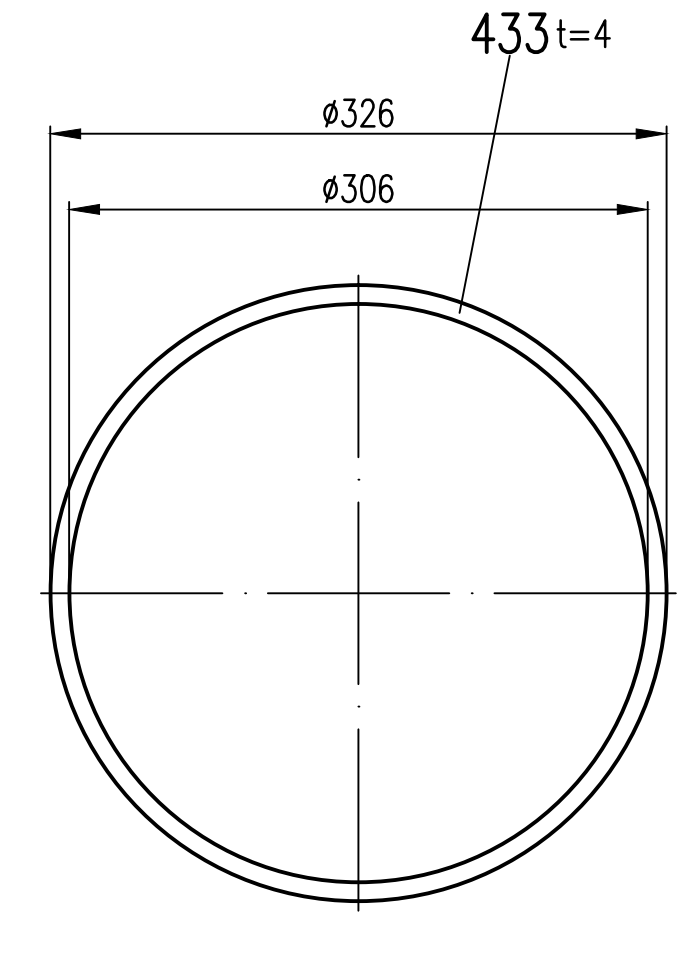
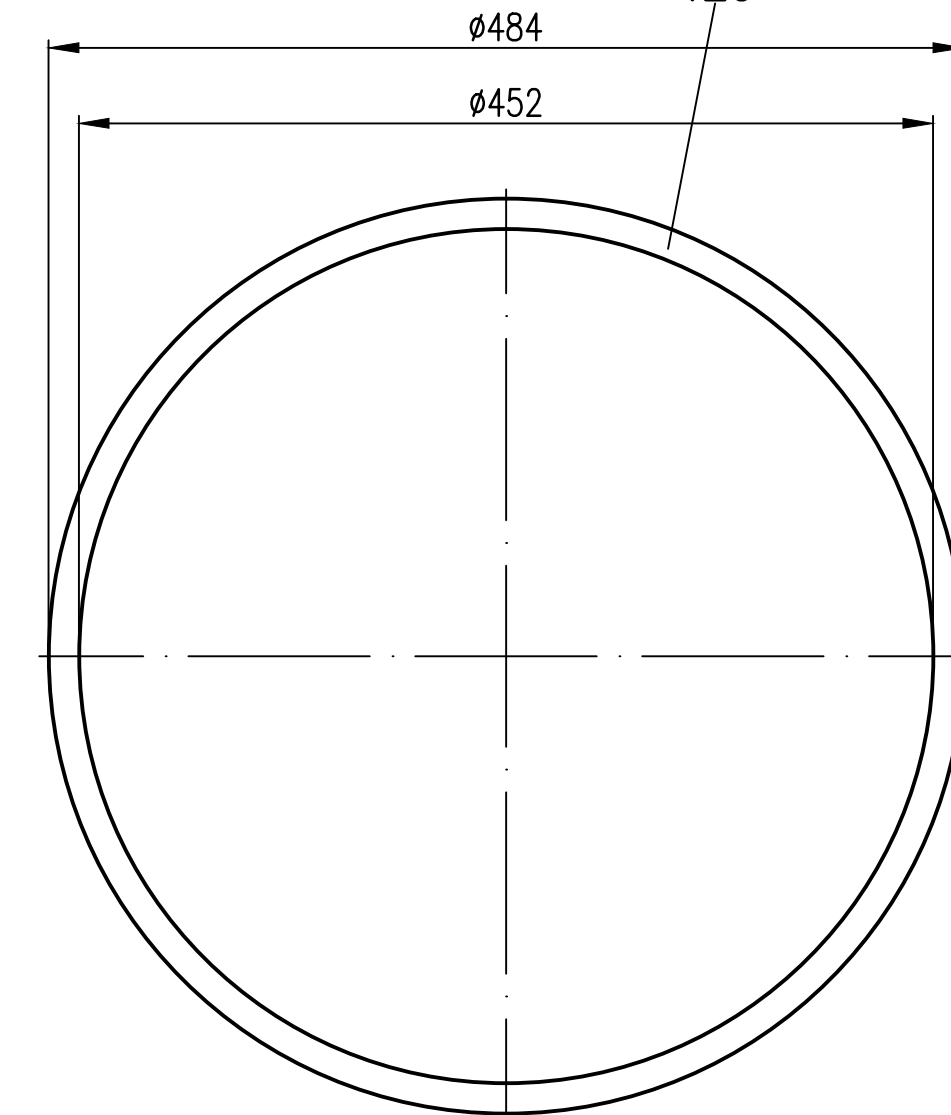
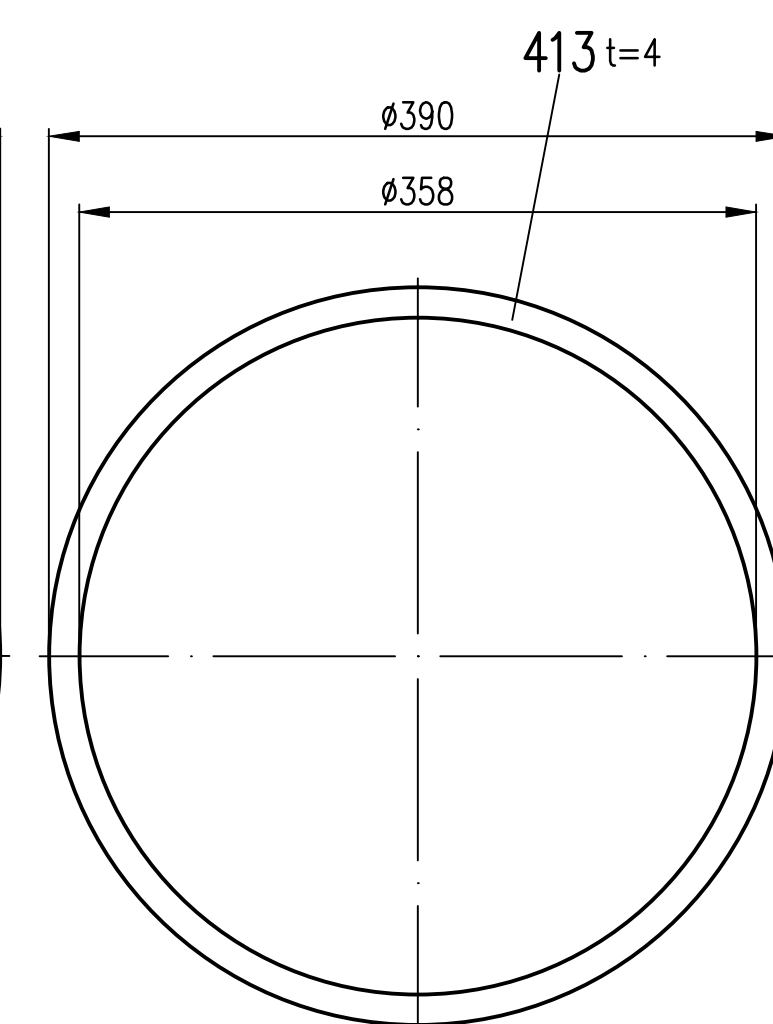
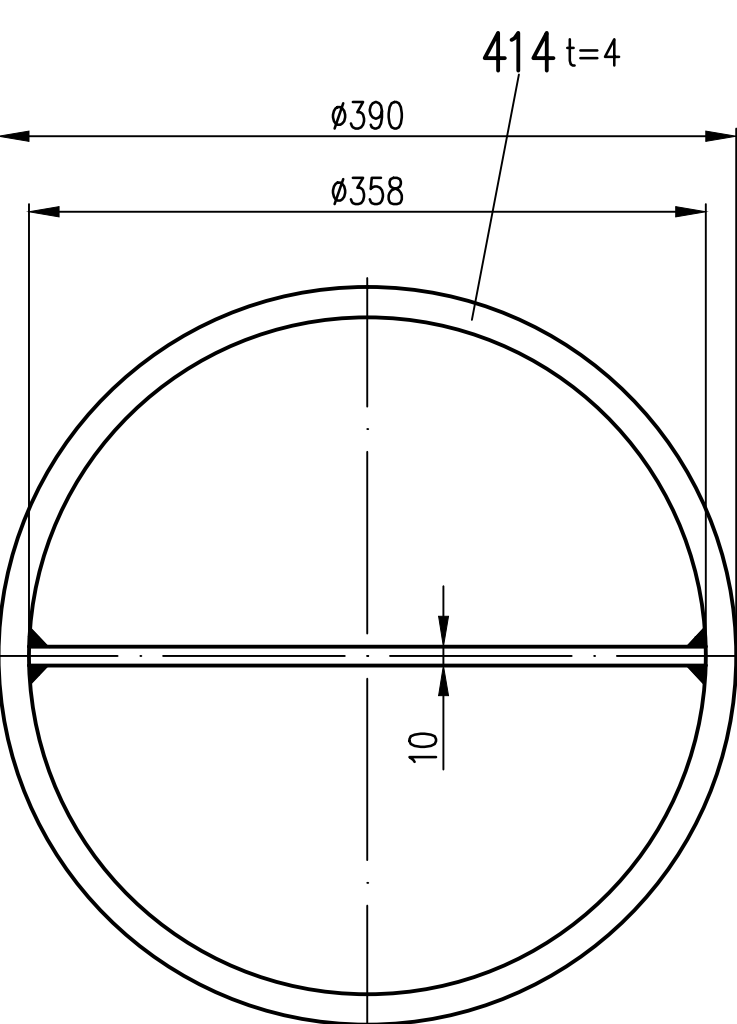
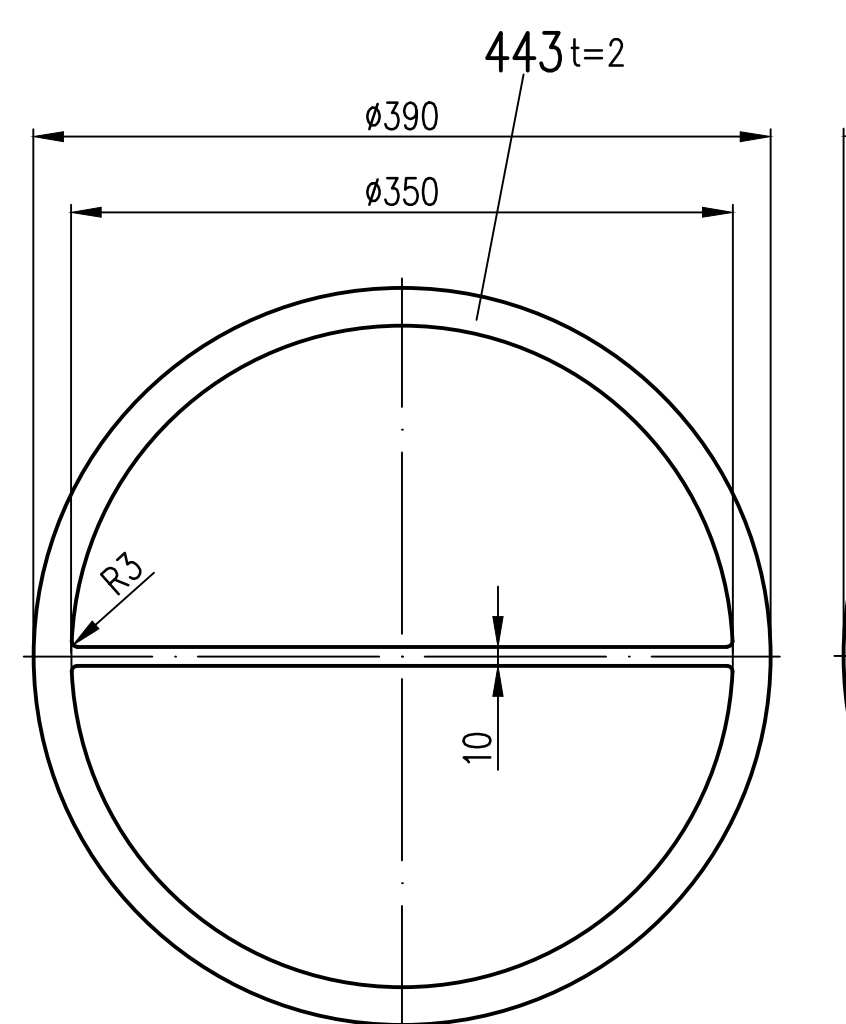
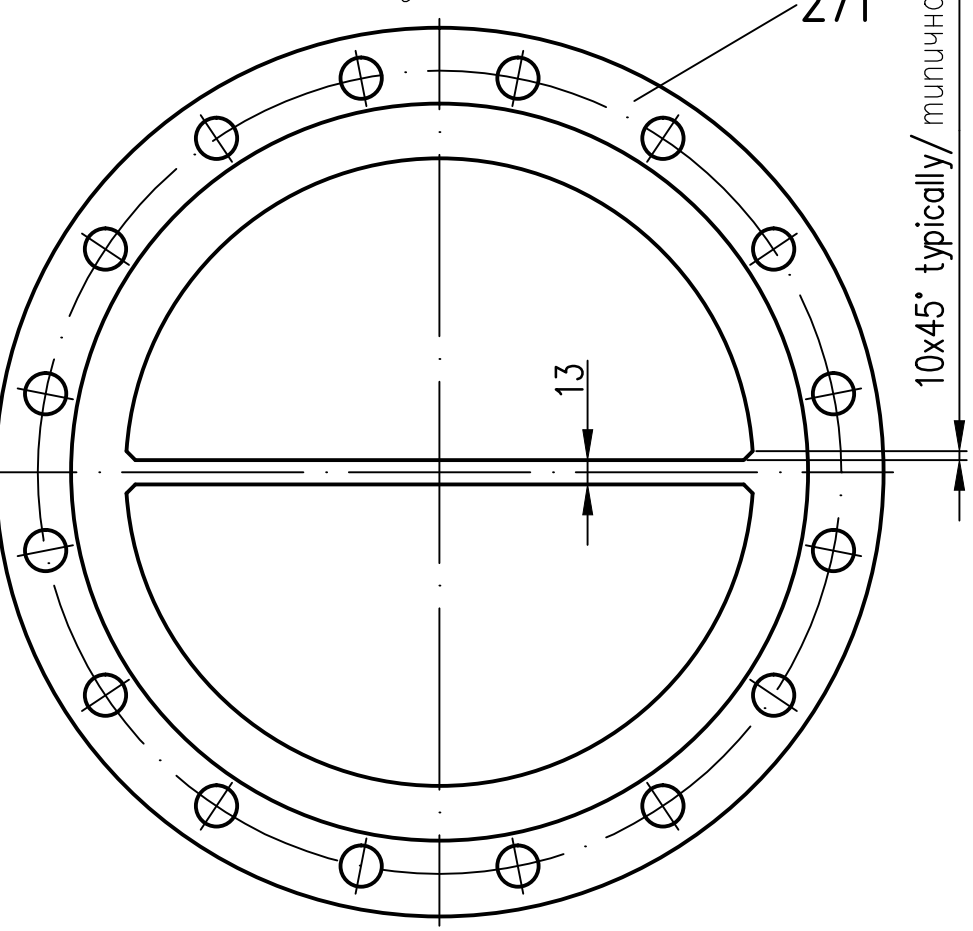
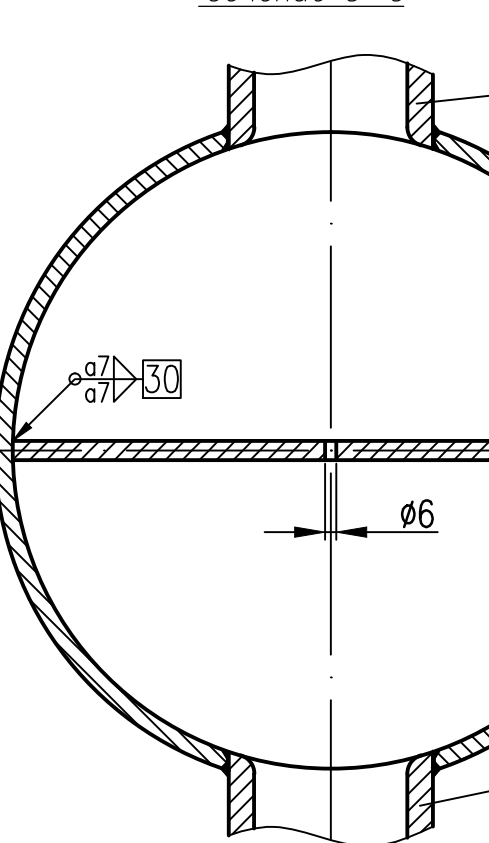
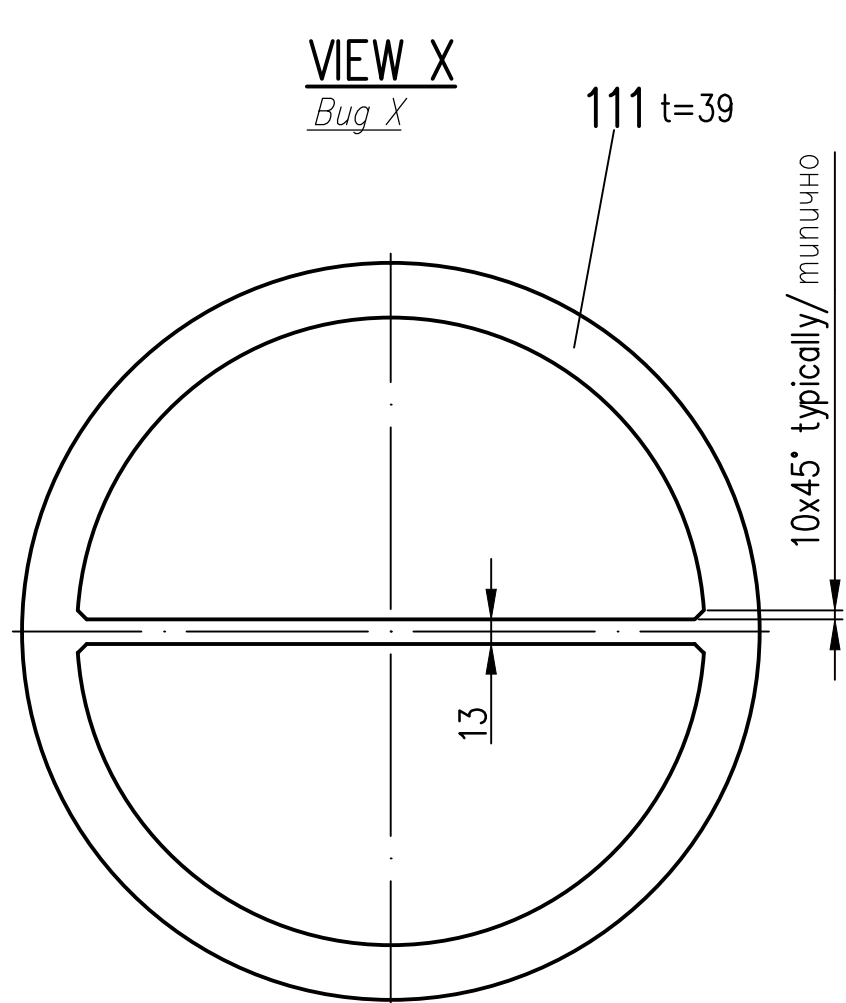
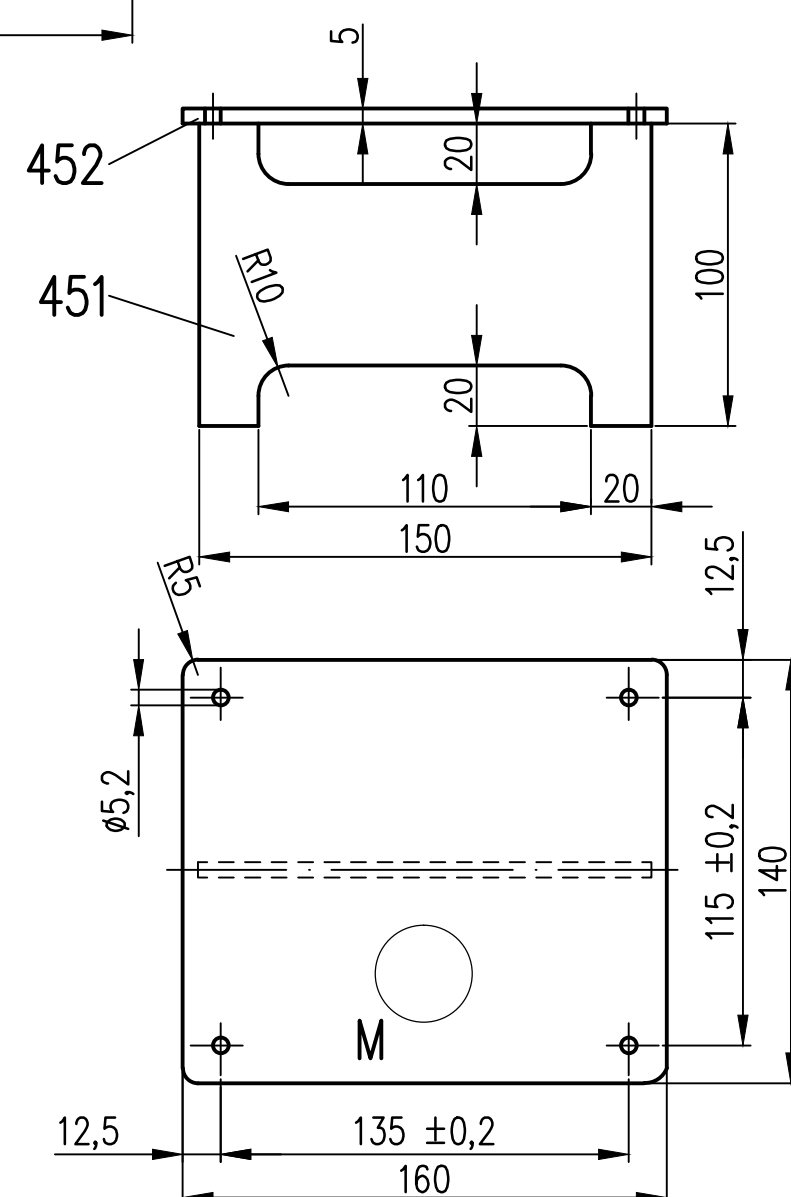
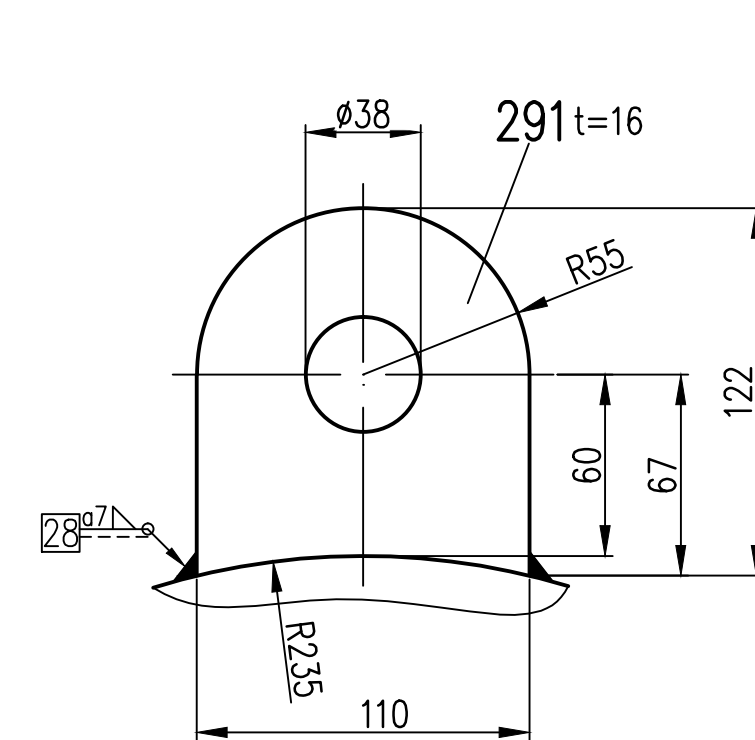
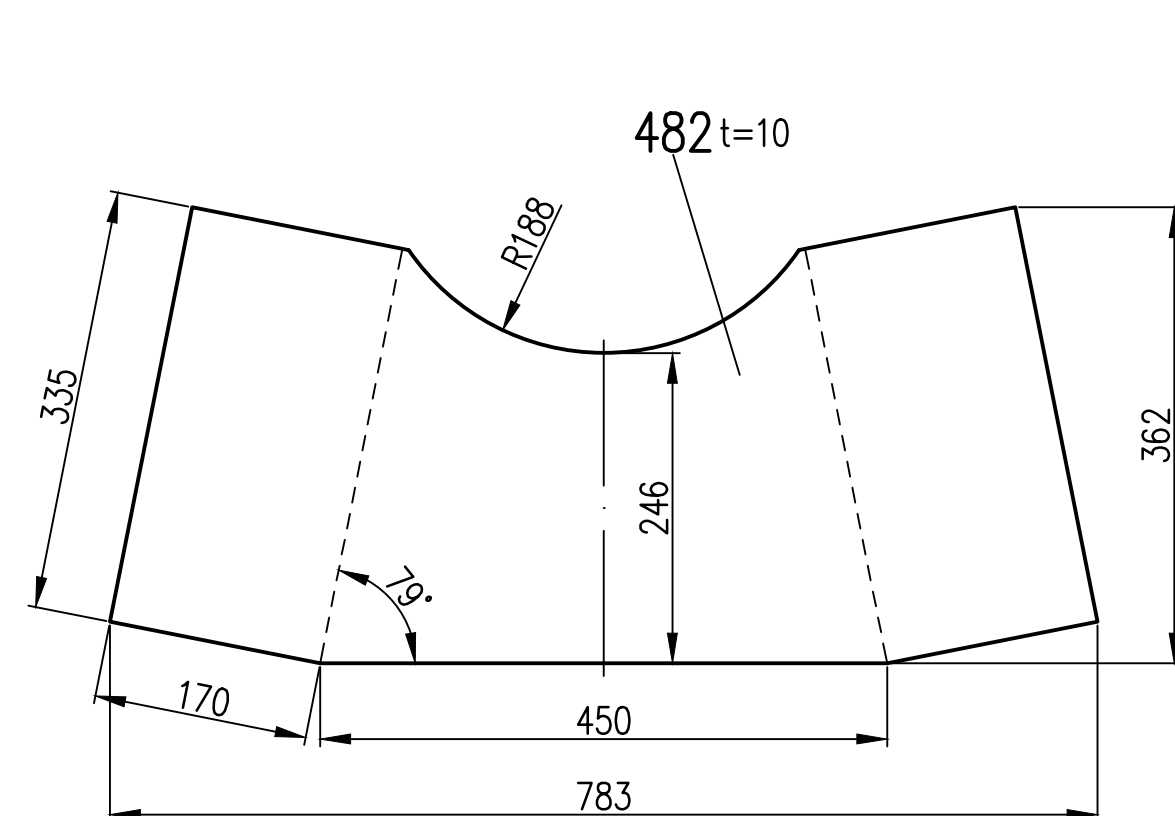
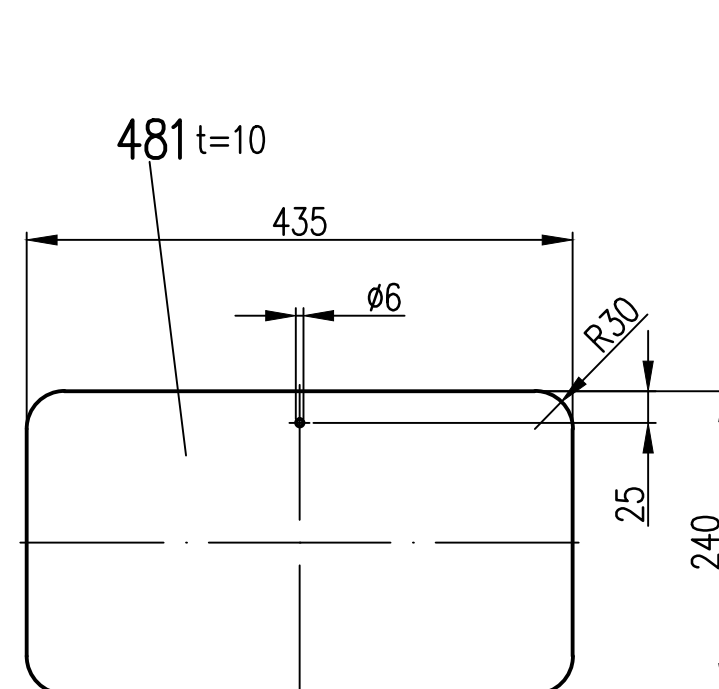
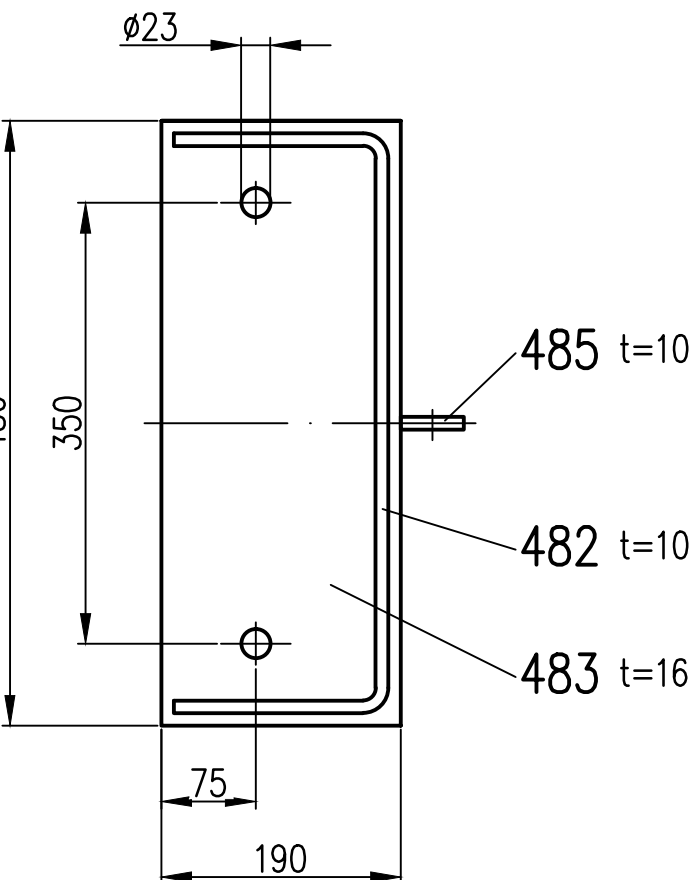
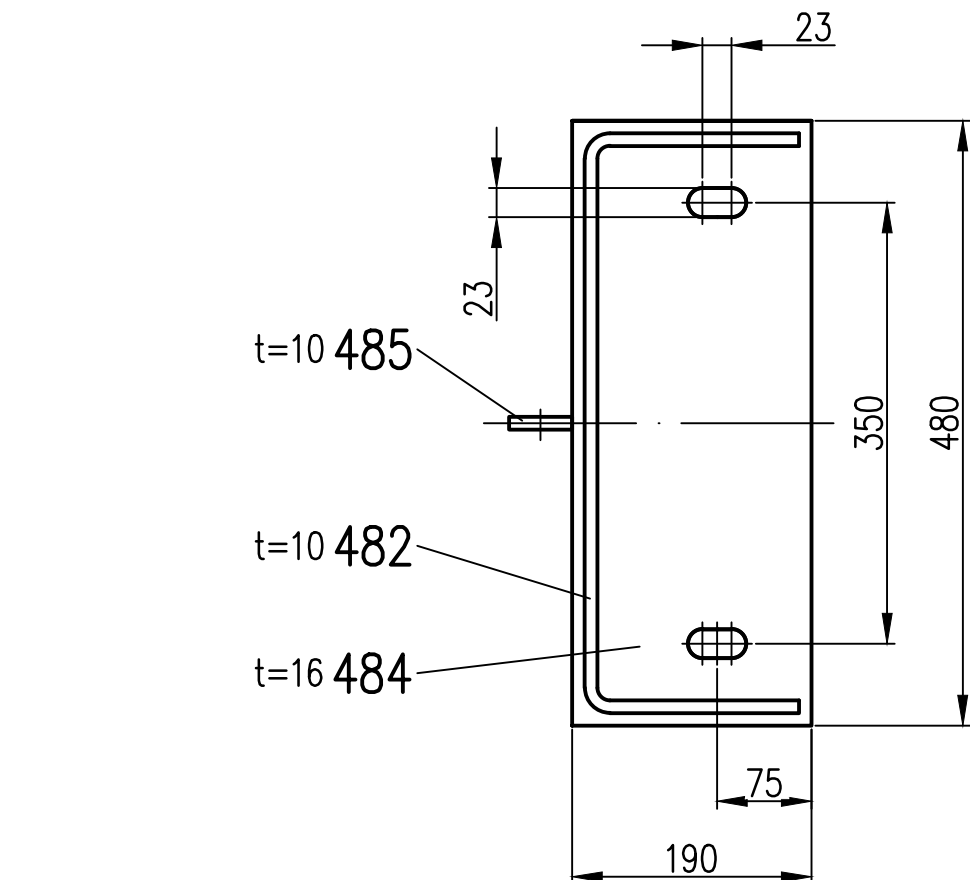
1. Перечень материалов М7
2. Перечень запасных частей SP2
3. Расчет на прочность D7
4. Производственный и испытательный план Т7
5. Технологическая карта сборки WPS/PPOR W7
6. Сечение А-А чертёж : 227000 645610 D
7. Пучок труб чертёж : 227000 645611 D
8. Плавающая плита чертёж : 360000 645625 B
9. Испытательное кольцо, испытательный фланец чертёж : 227000 645612 B

General notes:

1. Customer agreed with DIN/EN material
2. X-Ray examination:
  - 100 % of all butt welds (including T-joints)
3. Ultra sonic examination:
  - 100 % of weld between nozzle and shell at nozzle > 4"
4. Dye penetrant examination:
  - 100 % of all weld between nozzle and shell at nozzle < 4"
5. Shell head cover shall be stress relieved assembly with tubeshells as per cycle given below:
  - Loading: 300C (max.)
  - Time of heating: 200C/h (max.)
  - Rate of cooling: 200C/h (max.)
  - Soaking time: 620C ± 20C
  - Soaking time: 45 minutes (min.)
6. All flame stubout holes to stroddle center lines.
7. Outside surface treatment:
  - SS material: Pickled and passivated
  - CS material: shot blasting grade SA 2.5
8. One prime coat with inorganic zinc silicate primer: *mu* pm JFE (Dinostate 161 manufacturer Amer.)
9. Inside protection with SHELX SINO RP 1200

Основные примечания

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