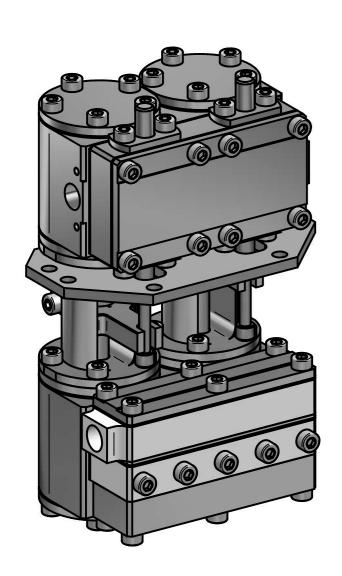
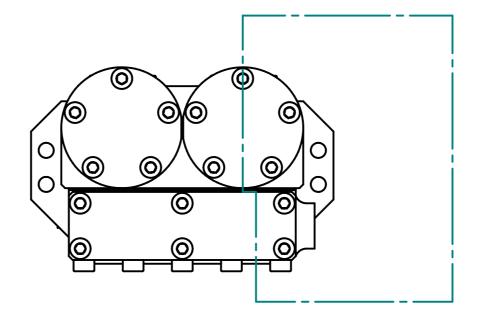
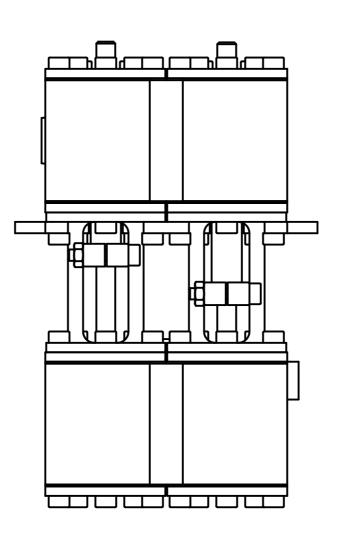


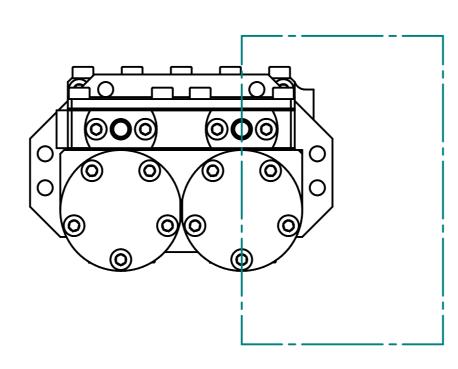
BROKEN OUT SECTION

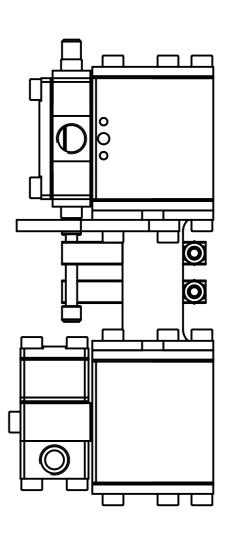


DIMETRIC VIEW

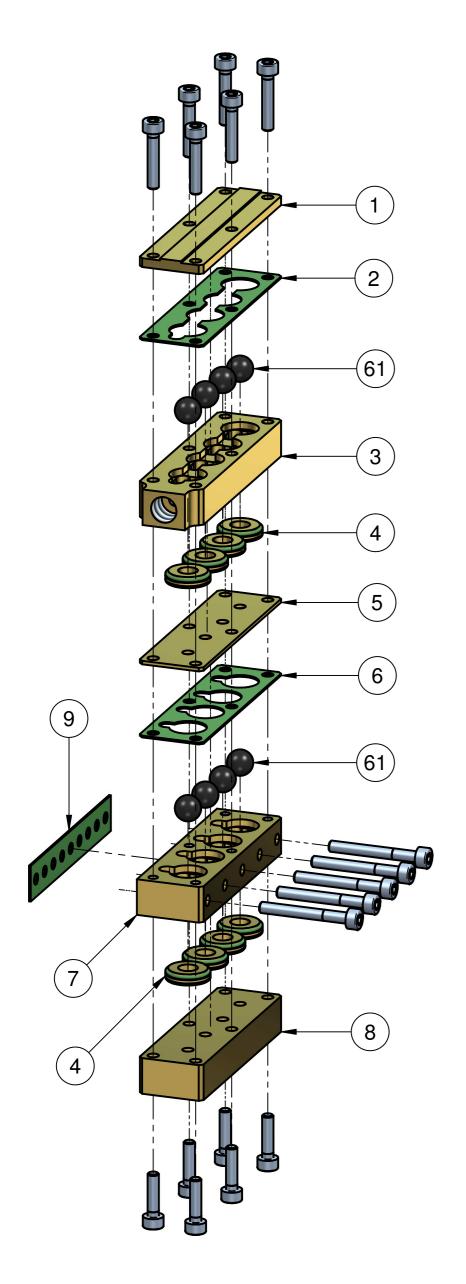








	NAME	DATE	10 5 11				
DRAWN	Joan Lluch	08/20/20	LS-Fornells				
CHECKED							
ENG APPR			TITLE Steam Pump				
MGR APPR					Siedili i dilip	J	
	OTHERWISE S NS ARE IN MIL		SIZE A2	DWG NO	Pump		REV 2.1
ANGLES ±X.X°		FILE NAME: SteamPump - GH.dft					
2 PL	±X.XX 3 PL ±	X.XXX	SCALE	:	WEIGHT:	SHEET 1 OF 18	

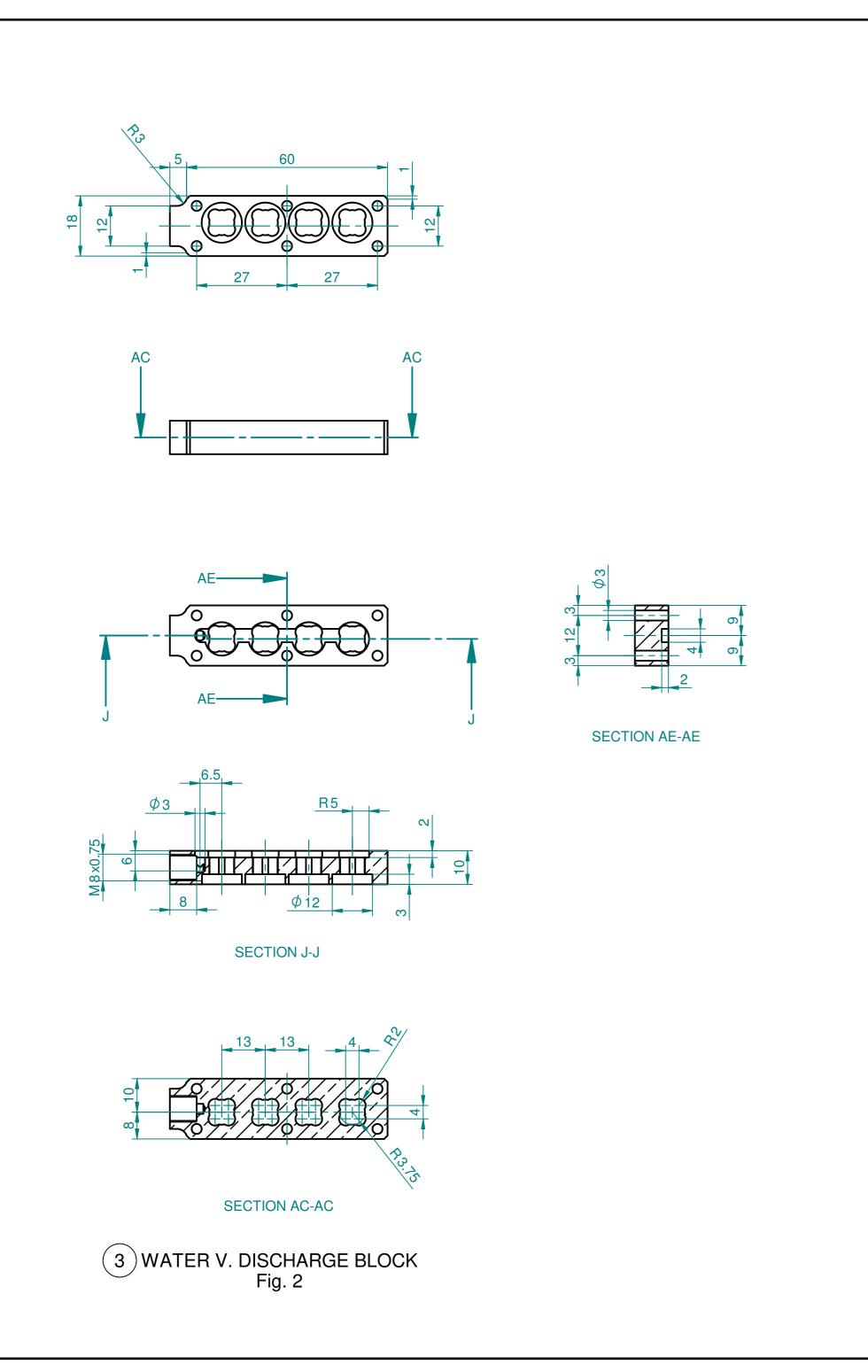


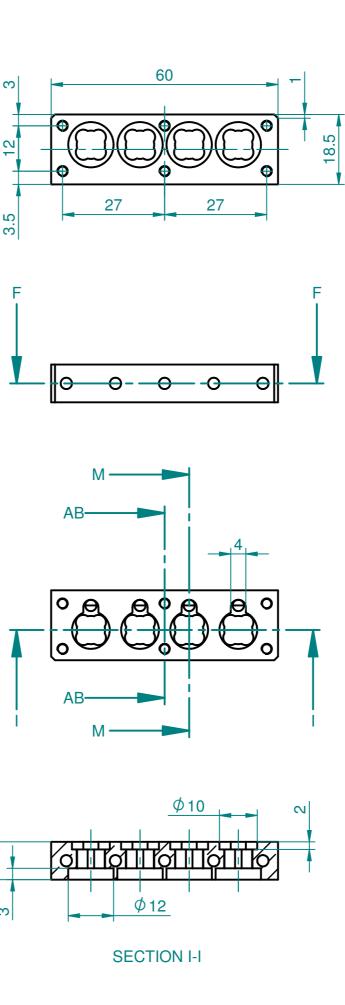
WATER VALVES ASSEMBLY, EXPLODED VIEW Fig. 1

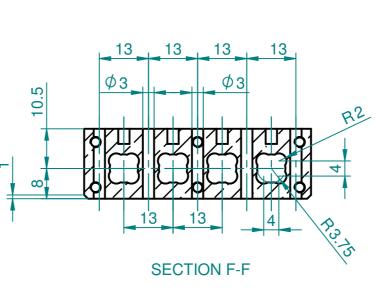
WATE	WATER VALVES							
POS	DESCRIPTION	QTY	COMMENTS					
1	WATER V. TOP COVER	Brass, yellow brass	1					
2	WATER V. TOP COVER GASKET	Aramide 0.5 mm Gasket	1					
3	WATER V. DISCHARGE BLOCK	Brass, yellow brass	1					
4	WATER V. BALL SEAT	Brass, yellow brass	8					
5	WATER V. SPACER SHEET	Brass, yellow brass	1					
6	WATER V. SPACER GASKET	Aramide 0.5 mm Gasket	1					
7	WATER V. INLET BLOCK	Brass, yellow brass	1					
8	WATER V. INLET MANIFOLD	Brass, yellow brass	1					
9	WATER VALVE GASKET	Aramide 0.5 mm Gasket	1					
61	Ball 7 mm	Silicon Nitride	8	Commercial Item				
62	O-Ring 10 x 1 mm	FKM	8	Commercial Item				
63	O-Ring 10 x 1 mm	FKM	8	Commercial Item				

WATER VALVES ASSEMBLY, PARTS LIST Table 1

	NAME	DATE	10 511-				
DRAWN	Joan Lluch	08/20/20		LS-Fornells			
CHECKED			TITLE				
ENG APPR							
MGR APPR				Steam Pump			
	OTHERWISE SI NS ARE IN MIL		SIZE A2	DWG NO	Pump		REV 2.1
ANGLES ±X.X°		FILE NAME: SteamPump - GH.dft					
2 PL	±X.XX 3 PL ±	X.XXX	SCALE: WEIGHT: SHEET 2 OF		SHEET 2 OF 18		





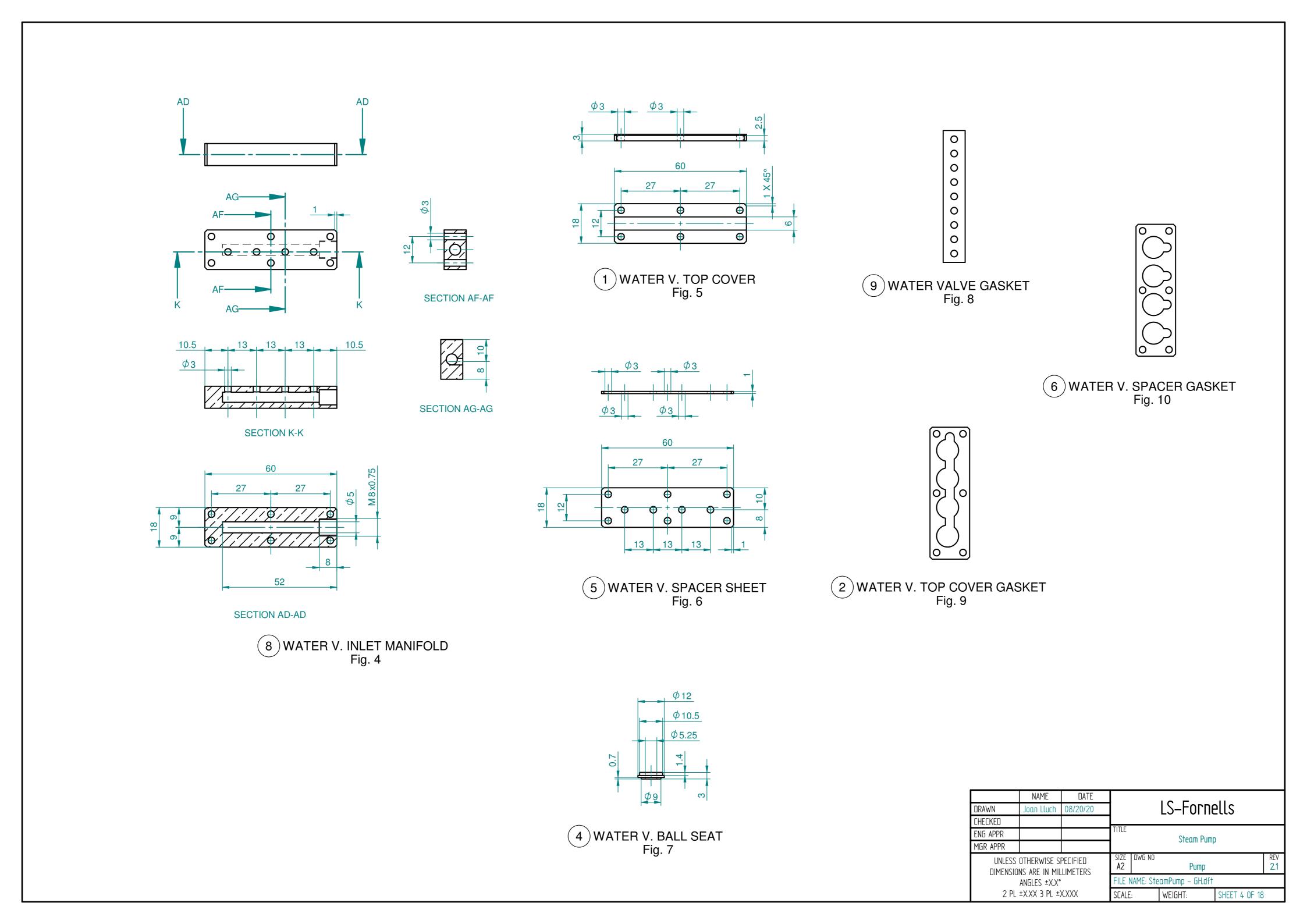


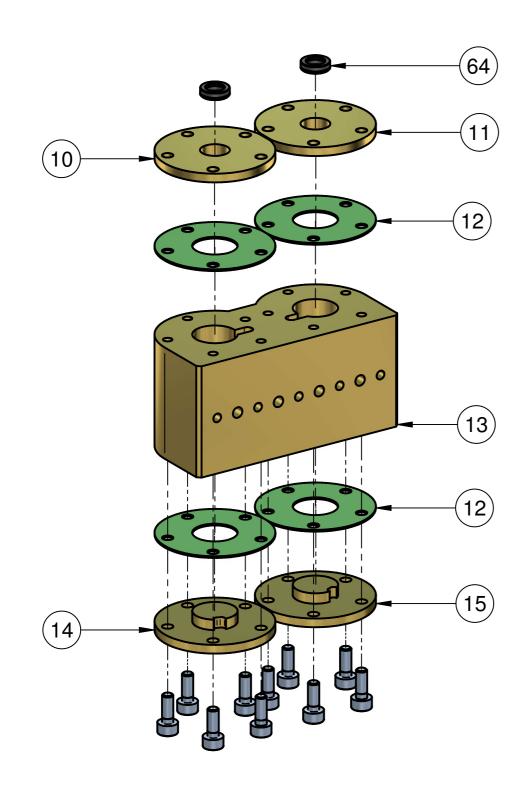
7 WATER V. INLET BLOCK Fig. 3

	NAME	DATE			10 5		
DRAWN	Joan Lluch	08/20/20]		LS-Forne	ells	
CHECKED							
ENG APPR			TITLE Stoom Pump				
MGR APPR				Steam Pump			
	OTHERWISE SI NS ARE IN MIL		SIZE A2	DWG NO	Pump		REV 2.1
	ANGLES ±X.X°		FILE NAME: SteamPump - GH.dft				
2 PL	±X.XX 3 PL ±	X.XXX	SCALE	SCALE: WEIGHT: SHEET 3 OF 18			

SECTION AB-AB

SECTION M-M



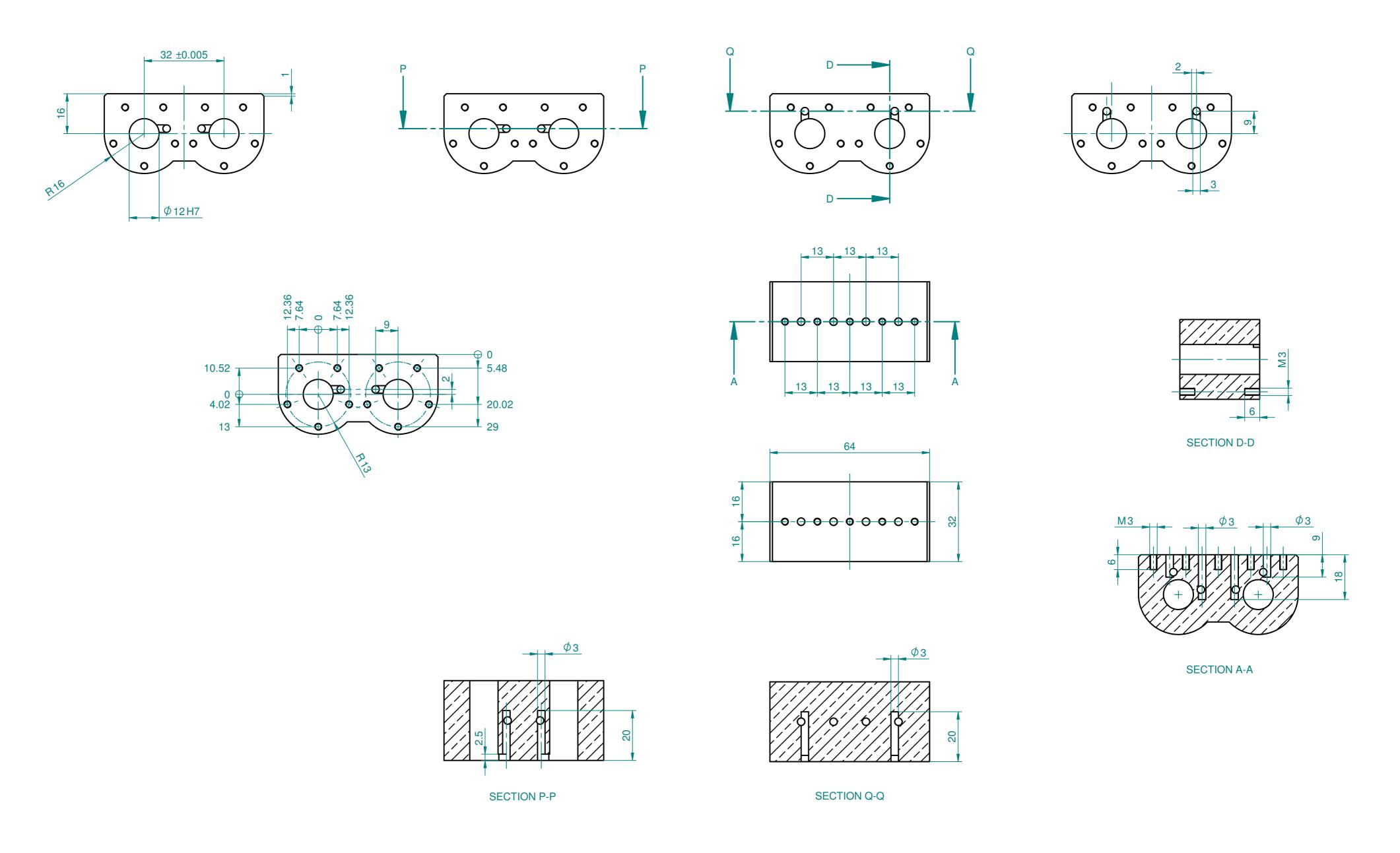


WATER CYLINDERS ASSEMBLY, EXPLODED VIEW Fig. 11

WATE	WATER CYLINDERS							
POS	DESCRIPTION	MATERIAL	QTY	COMMENTS				
10	WATER CYL. FLANGE LEFT	Brass, yellow brass	1					
11	WATER CYL. FLANGE RIGHT	Brass, yellow brass	1					
12	WATER CYL. GASKET	Aramide 0.5 mm Gasket	4					
13	WATER CYLINDERS BLOCK	Brass, yellow brass	1					
14	WATER CYL. COVER LEFT	Brass, yellow brass	1					
15	WATER CYL. COVER RIGHT	Brass, yellow brass	1					
64	Rod Seal (5 mm)		2	Commercial Item				

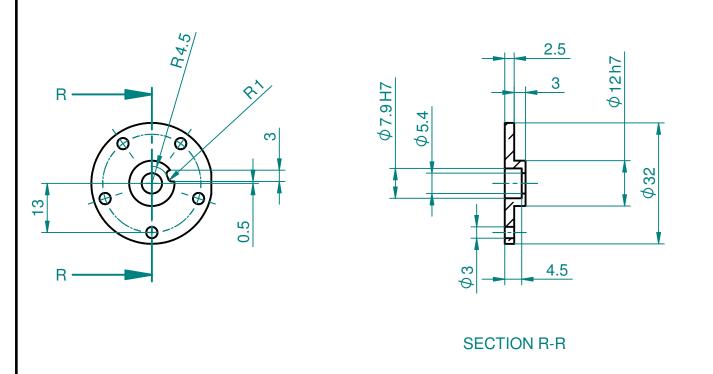
WATER CYLINDERS ASSEMBLY, PARTS LIST Table 2

	NAME	DATE	LS-Fornells				
DRAWN	Joan Lluch	08/20/20					
CHECKED			TITLE Steam Pump				
ENG APPR							
MGR APPR							
	OTHERWISE SI NS ARE IN MIL		SIZE A2	DWG NO	Pump		REV 2.1
ANGLES ±X.X°		FILE NAME: SteamPump - GH.dft					
2 PL	±X.XX 3 PL ±	X.XXX	SCALE	:	WEIGHT:	SHEET 5 OF 18	



(13) WATER	R CYLINDERS	BLOCK
	Fig. 12	

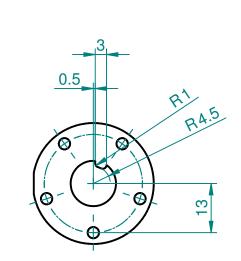
	NAME	DATE	10 5 11				
DRAWN	Joan Lluch	08/20/20	LS-Fornells				
CHECKED							
ENG APPR			TITLE Steam Pump				
MGR APPR					Siculi i ding	J	
	OTHERWISE SI NS ARE IN MIL		SIZE A2	DWG NO	Pump		REV 2.1
ANGLES ±X.X°		FILE NAME: SteamPump - GH.dft					
2 PL	±X.XX 3 PL ±	X.XXX	SCALE: WEIGHT: SHEET 6 OF 18				



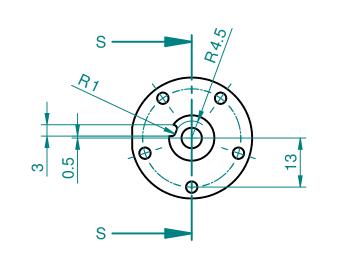
10 WATER CYL. FLANGE LEFT Fig. 13

5.5

Ø12h7



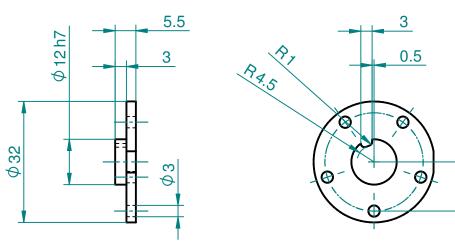
14) WATER CYL. COVER LEFT Fig. 15



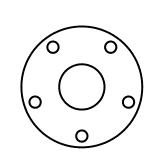
φ 7.9 H7 φ 5.4 φ 12 h7 φ 32

SECTION S-S

11) WATER CYL. FLANGE RIGHT Fig. 14

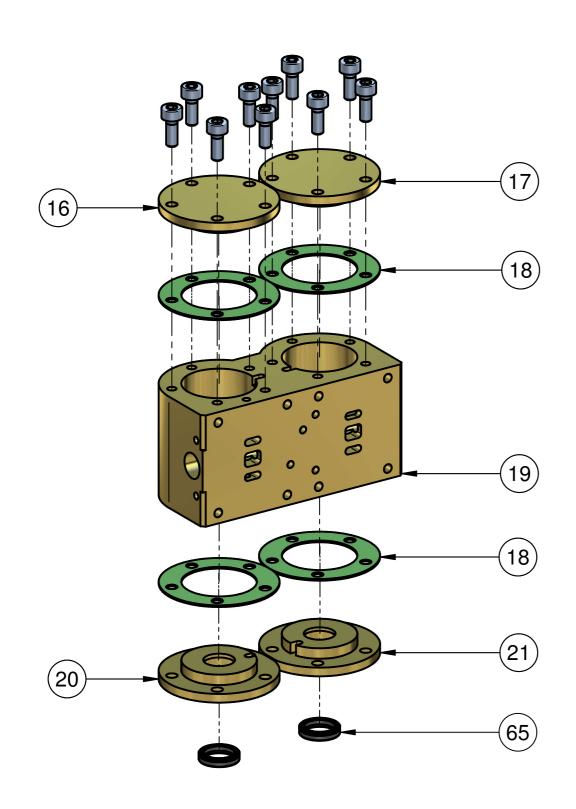


15) WATER CYL. COVER RIGHT Fig. 17



12 WATER CYL. GASKET Fig. 16

	NAME	DATE	IC FII.				
DRAWN	Joan Lluch	08/20/20	LS-Fornells				
CHECKED			TITIE				
ENG APPR			Steam Pump				
MGR APPR							
	OTHERWISE SI		SIZE A3	DWG NO	Pump		REV 2.1
DIMENSIONS ARE IN MILLIMETERS ANGLES ±X.X° 2 PL ±X.XX 3 PL ±X.XXX		FILE NAME: SteamPump - GH.dft					
		SCALE: WEIGHT: SHEET 7 OF 18					

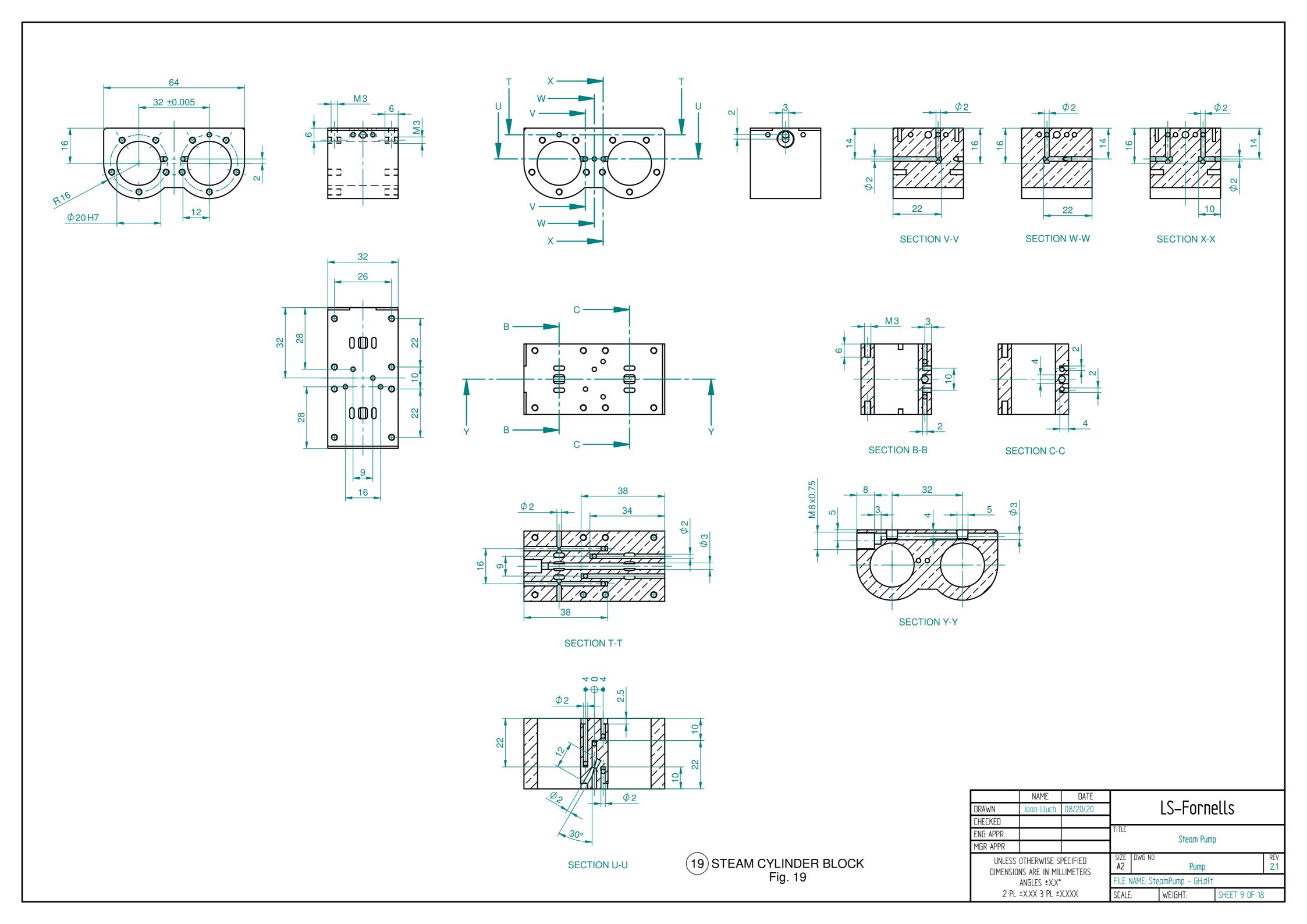


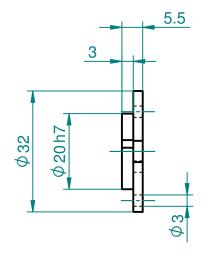
STEAM CYLINDERS ASSEMBLY, EXPLODED VIEW Fig. 18

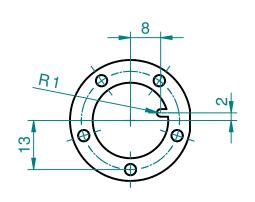
STEA	STEAM CYLINDERS							
POS	DESCRIPTION MATERIAL		QTY	COMMENTS				
16	STEAM CYL. COVER LEFT	Brass, yellow brass	1					
17	STEAM CYL. COVER RIGHT	Brass, yellow brass	1					
18	STEAM CYL. GASKET	Aramide 0.5 mm Gasket	4					
19	STEAM CYLINDER BLOCK	Brass, yellow brass	1					
20	STEAM CYL. FLANGE LEFT	Brass, yellow brass	1					
21	STEAM CYL. FLANGE RIGHT	Brass, yellow brass	1					
65	Rod Seal (8 mm)		2	Commercial Item				

STEAM CYLINDERS ASSEMBLY, PARTS LIST Table 3

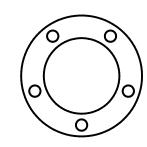
	NAME	DATE	IC Formalla					
DRAWN	Joan Lluch	08/20/20			LS-Forne	ells		
CHECKED								
ENG APPR			TITLE Steam Pump					
MGR APPR				Steam Pump				
	OTHERWISE SI		SIZE A2	DWG NO	Pump		REV 2.1	
DIMENSIONS ARE IN MILLIMETERS ANGLES ±X.X°		FILE NAME: SteamPump - GH.dft						
2 PL	±X.XX 3 PL ±	X.XXX	SCALE	:	WEIGHT:	SHEET 8 OF 18		



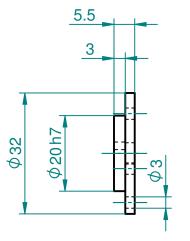


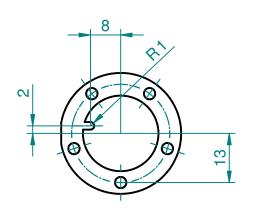




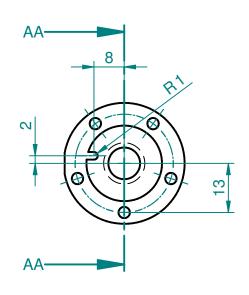


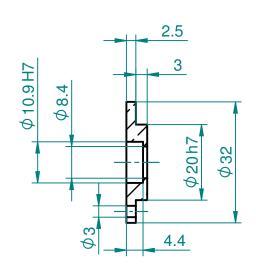
18) STEAM CYL. GASKET Fig. 21





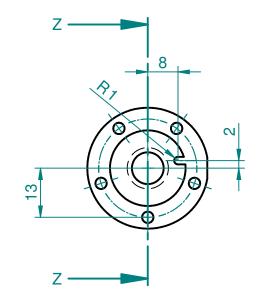
17 STEAM CYL. COVER RIGHT Fig. 22

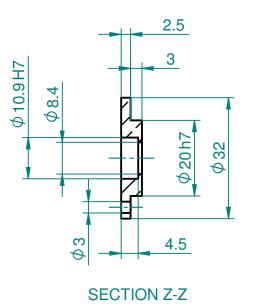




SECTION AA-AA

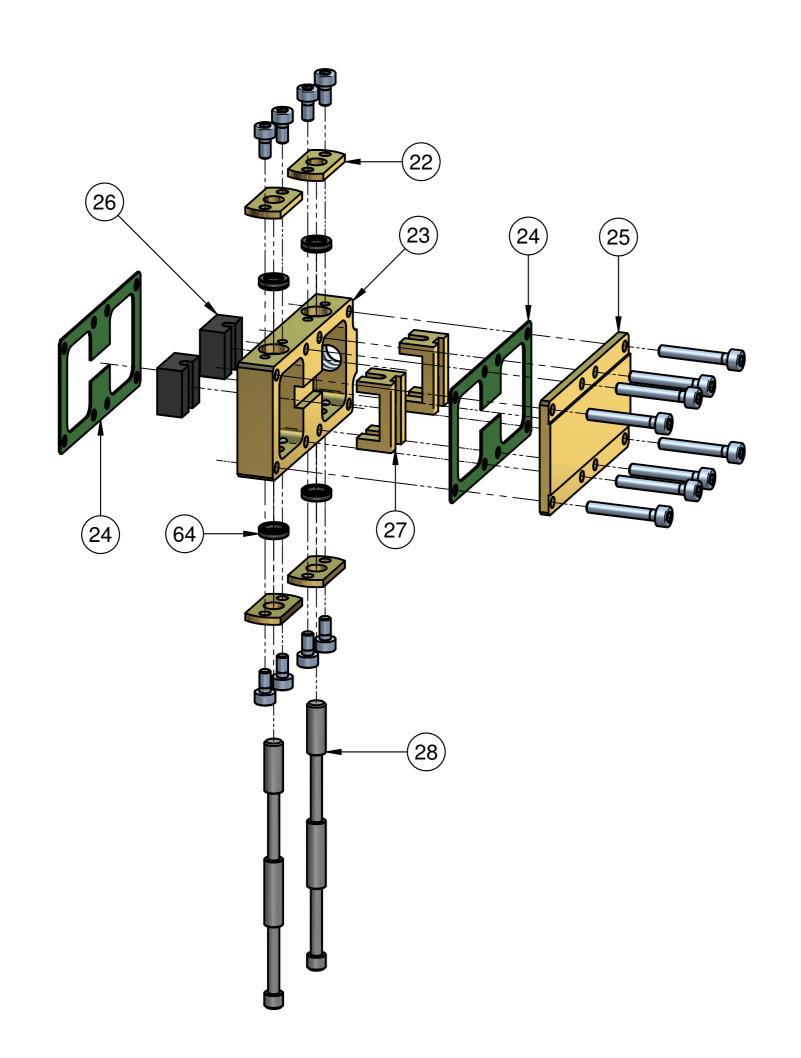
20 STEAM CYL. FLANGE LEFT Fig. 23





21) STEAM CYL. FLANGE RIGHT Fig. 24

	NAME	DATE		IC Farralla			
DRAWN	Joan Lluch	08/20/20	LS-Fornells				
CHECKED			TITLE Steam Pump				
ENG APPR							
MGR APPR					Steam rain,	J	
	OTHERWISE SI NS ARE IN MIL		SIZE A3	DWG NO	Pump		REV 2.1
ANGLES ±X.X°		FILE NAME: SteamPump - GH.dft					
2 PL ±X.XX 3 PL ±X.XXX		SCALE: WEIGHT: SHEET 10 OF 18			8		

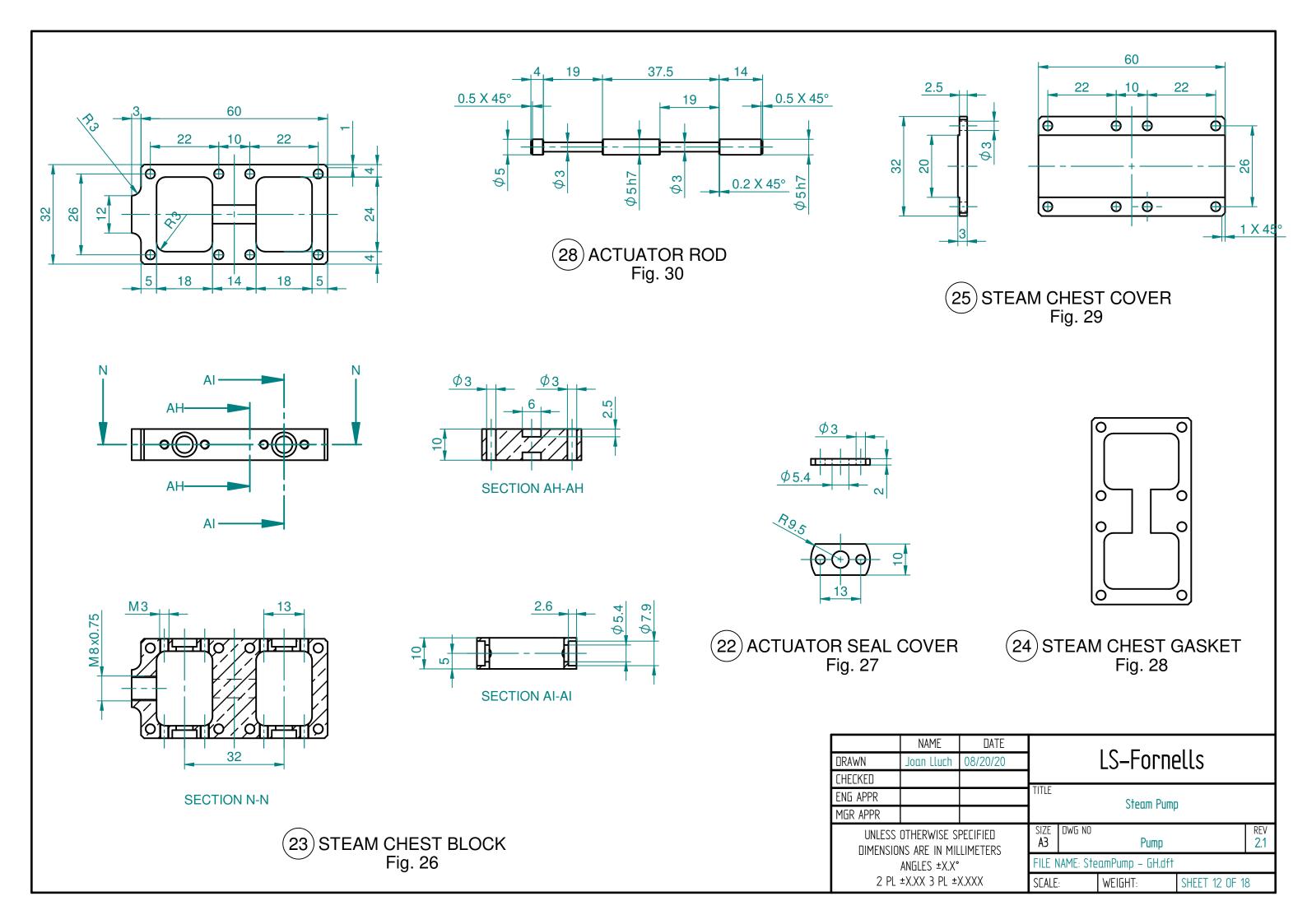


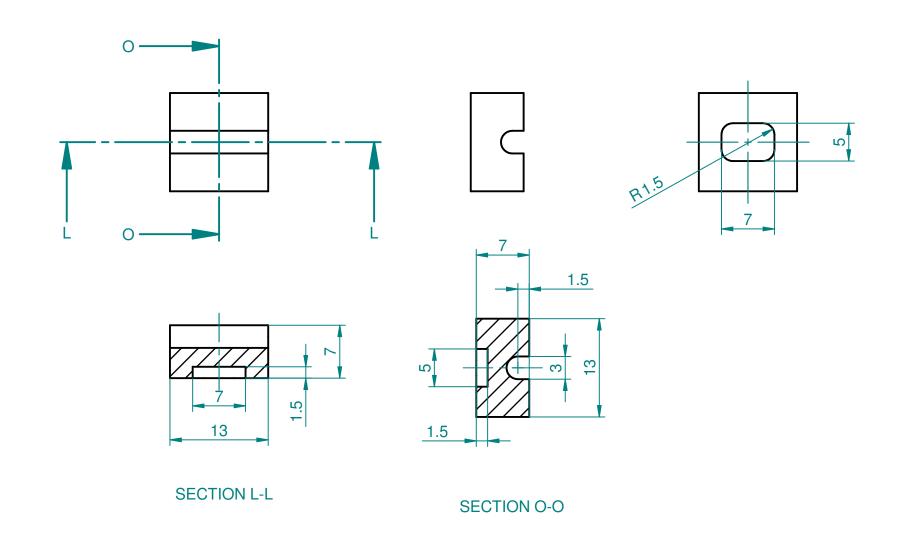
STEA	STEAM VALVES								
POS	DESCRIPTION	MATERIAL	QTY	COMMENTS					
22	ACTUATOR SEAL COVER	Brass, yellow brass	4						
23	STEAM CHEST BLOCK	Brass, yellow brass	1						
24	STEAM CHEST GASKET	Aramide 0.5 mm Gasket	2						
25	STEAM CHEST COVER	Brass, yellow brass	1						
26	STEAM SLIDE VALVE	PEEK HPV	2						
27	STEAM VALVE CLIP	Brass, yellow brass	2						
28	ACTUATOR ROD	Stainless Steel, 316	2						
64	Rod Seal (5 mm)		4	Commercial Item					

STEAM VALVES ASSEMBLY, PARTS LIST Table 4

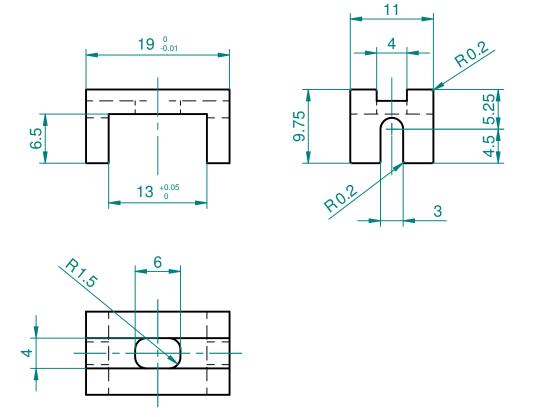
STEAM VALVES ASSEMBLY, EXPLODED VIEW
Fig. 25

	NAME	DATE	IC Farralla					
DRAWN	Joan Lluch	08/20/20	LS-Fornells					
CHECKED								
ENG APPR			TITLE Steam Pump					
MGR APPR			Sieuiii Fuilip					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES ±XX° 2 PL ±XXXX 3 PL ±XXXX		l I			REV 2.1			
		FILE NAME: SteamPump – GH.dft						
		SCALE: WEIGHT:		WEIGHT:	SHEET 11 OF 18			



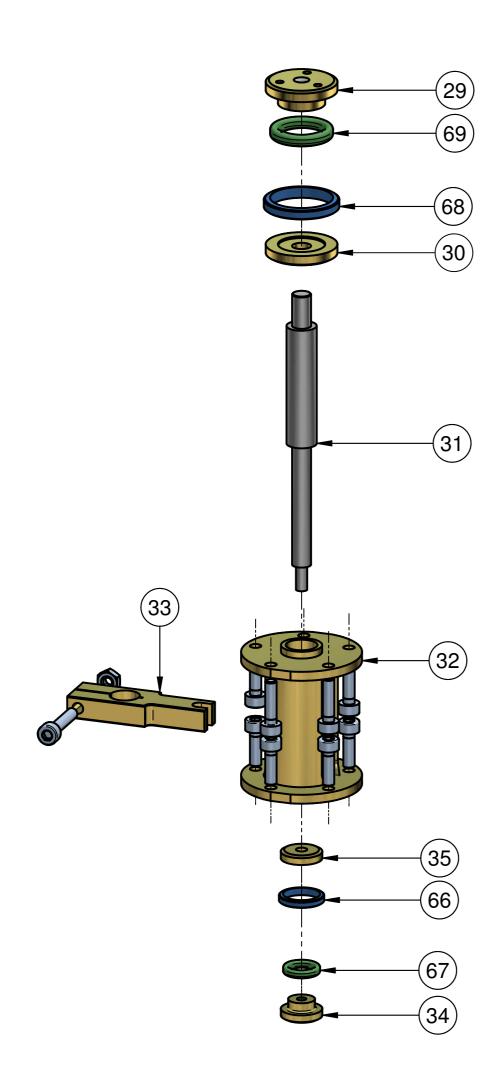


26 STEAM SLIDE VALVE E2:1 Fig. 31



27 STEAM VALVE CLIP E2:1 Fig. 32

	NAME	DATE	10 5 11					
DRAWN	Joan Lluch	08/20/20	LS-Fornells					
CHECKED								
ENG APPR			TITLE Steam Pump					
MGR APPR								
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES ±X.X° 2 PL ±X.XX 3 PL ±X.XXX		SIZE A3	DWG NO	Pump		REV 2.1		
		FILE NAME: SteamPump – GH.dft						
		SCALE:		WEIGHT:	SHEET 13 OF 18	3		

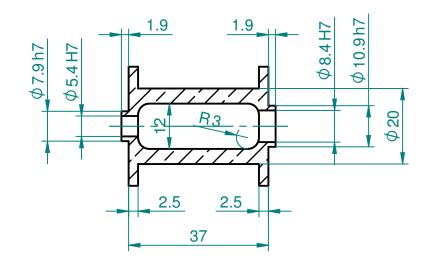


WATE	WATER/STEAM PISTON							
POS	DESCRIPTION	MATERIAL	QTY	COMMENTS				
29	STEAM PISTON NUT	Brass, yellow brass	1					
30	STEAM PISTON WASHER	Brass, yellow brass	1					
31	PISTON ROD	Stainless Steel, 316	1					
32	CYLINDER SPACER	Brass, yellow brass	1					
33	ACTUATOR ARM	Brass, yellow brass	1					
34	WATER PISTON NUT	Brass, yellow brass	1					
35	WATER PISTON WASHER	Brass, yellow brass	1					
66	Piston Seal (12 x 2.2 mm)	Filled PTFE	1	Commercial Item				
67	Piston Seal O-Ring 6.75 x 1.78 mm	FKM	1	Commercial Item				
68	Piston Seal (20 x 3.2 mm)	Filled PTFE	1	Commercial Item				
69	Piston Seal O-Ring 12.32 x 2.62 mm	FKM	1	Commercial Item				

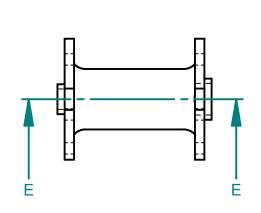
PISTON AND ACTUATOR ASSEMBLY, PARTS LIST (TWO SETS REQUIRED)
Table 5

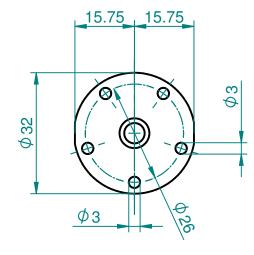
PISTON AND ACTUATOR ASSEMBLY, EXPLODED VIEW Fig. 33

	NAME	DATE	LS-Fornells TITLE Steam Pump				
DRAWN	Joan Lluch	08/20/20					
CHECKED							
ENG APPR							
MGR APPR							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS						REV 2.1	
ANGLES ±X.X° 2 PL ±X.XX 3 PL ±X.XXX		FILE NAME: SteamPump – GH.dft					
		SCALE:		WEIGHT:	SHEET 14 OF 1	8	

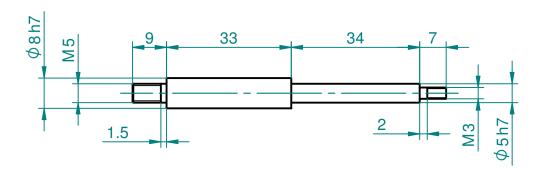


SECTION E-E

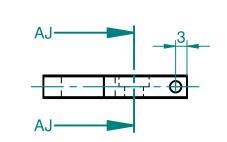


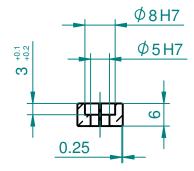


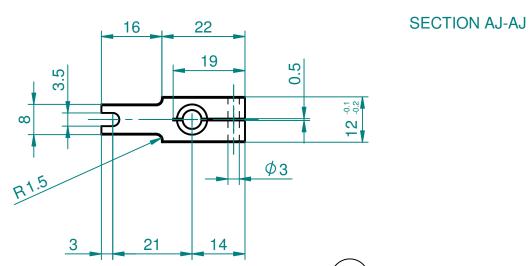
32 CYLINDER SPACER Fig. 34



31 PISTON ROD Fig. 35

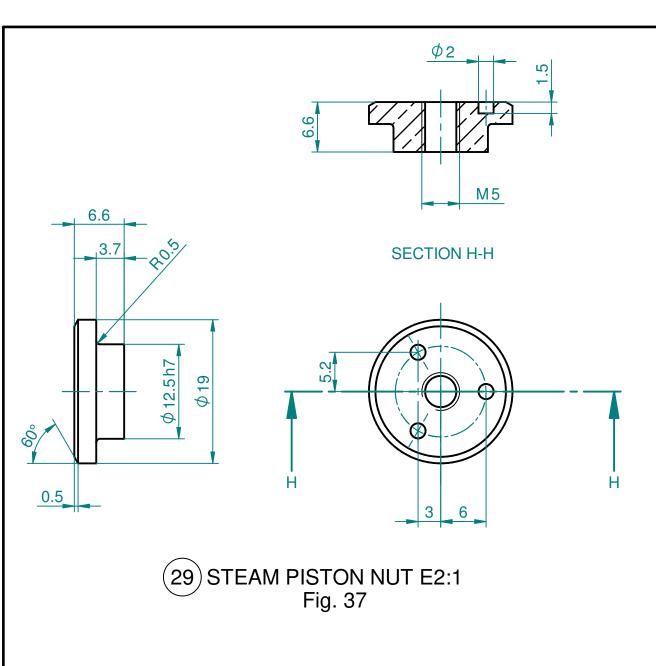


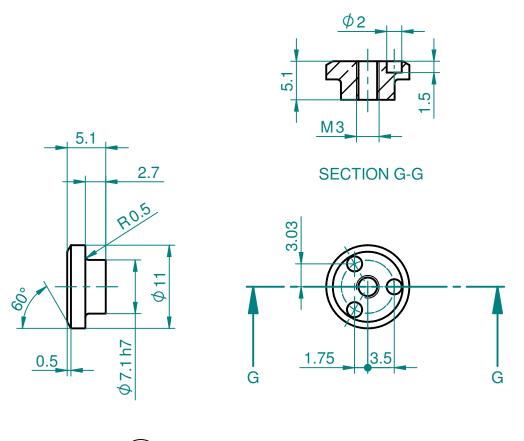




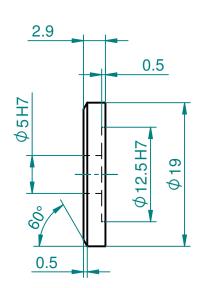
(33) ACTUATOR ARM Fig. 36

	NAME	DATE	LS-Fornells TITLE Steam Pump				
DRAWN	Joan Lluch	08/20/20					
CHECKED							
ENG APPR							
MGR APPR							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES ±X.X° 2 PL ±X.XX 3 PL ±X.XXX		SIZE A3	DWG NO	Pump		REV 2.1	
		FILE NAME: SteamPump – GH.dft					
		SCALE	:	WEIGHT:	SHEET 15 OF 18	8	

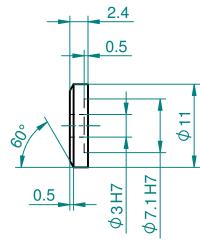




(34) WATER PISTON NUT E2:1 Fig. 39

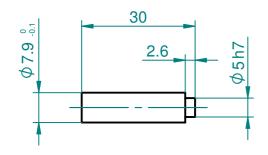


30 STEAM PISTON WASHER E2:1 Fig. 38

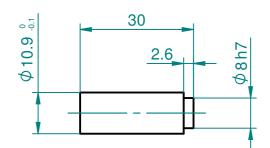


(35) WATER PISTON WASHER E2:1 Fig. 40

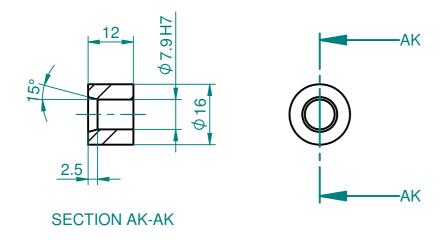
	NAME	DATE	IC Farralla					
DRAWN	Joan Lluch	08/20/20	LS-Fornells					
CHECKED								
ENG APPR			TITLE Steam Pump					
MGR APPR			1 STEWII PUIIIP					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		SIZE A3	DWG NO	Pump		REV 2.1		
ANGLES ±X.X°			FILE NAME: SteamPump – GH.dft					
2 PL ±X.XX 3 PL ±X.XXX		SCALE:		WEIGHT:	SHEET 16 OF 1	8		



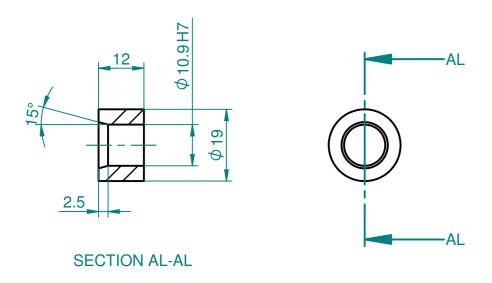
5 MM SEAL INSERTION TOOL SHAFT Fig. 41



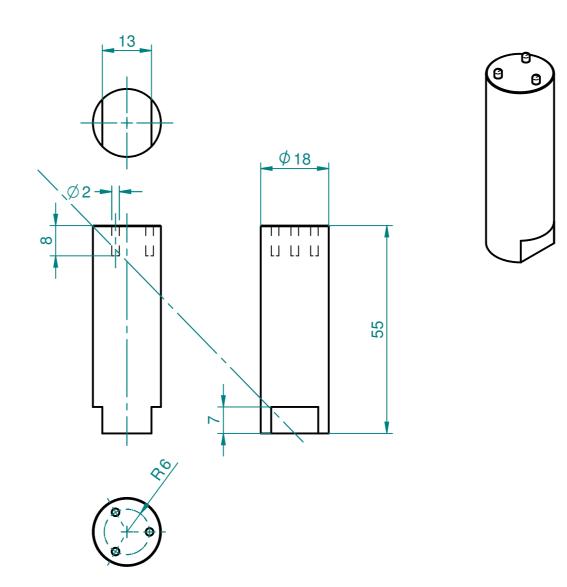
8 MM SEAL INSERTION TOOL SHAFT Fig. 42



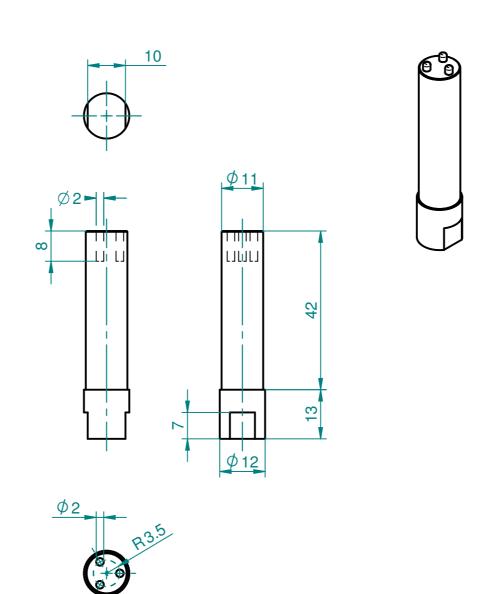
5 MM SEAL INSERTION TOOL HOSE Fig. 43



8 MM SEAL INSERTION TOOL HOSE Fig. 44

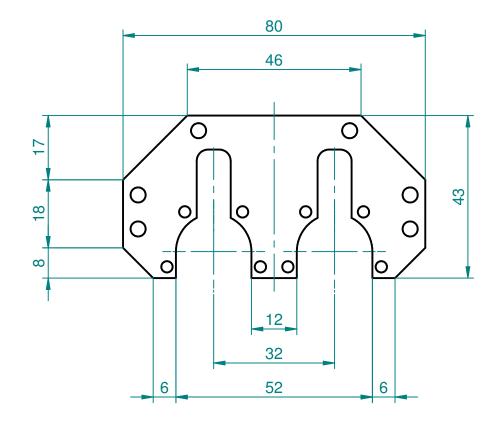


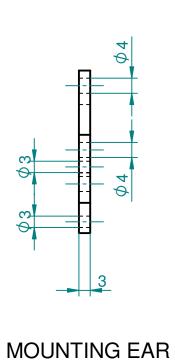
STEAM PISTON KEY TOOL Fig. 45

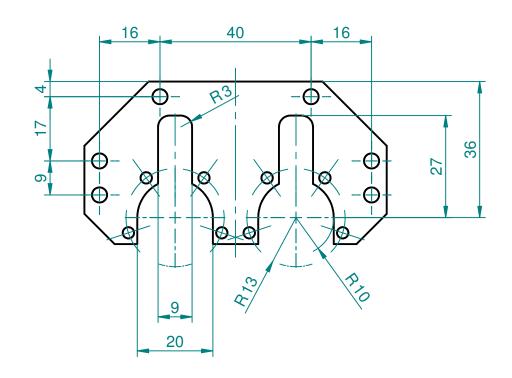


WATER PISTON KEY TOOL Fig. 45

	NAME	DATE	LS-Fornells				
DRAWN	Joan Lluch	08/20/20					
CHECKED							
ENG APPR			Steam Pump				
MGR APPR							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES ±X.X° 2 PL ±X.XX 3 PL ±X.XXX		SIZE A2	DWG NO	Pump		REV 2.1	
		FILE NAME: SteamPump — GH.dft					
		SCALE: WEIGHT: SHEET 17		SHEET 17 OF 1	8		







	NAME	DATE		LS-Fornells				
]RAWN	Joan Lluch	08/20/20]					
THECKED								
ENG APPR			TITLE Steam Pump					
MGR APPR			Steuii Pulip					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES ±X.X° 2 PL ±X.XX 3 PL ±X.XXX		SIZE A3	DWG NO	Pump		REV 2.1		
		FILE NAME: SteamPump - GH.dft						
		SCALE: WEIGHT:			SHEET 18 OF 18	8		