

Oggetto:

Prova scritta per la elezione, per titoli ed esame, a “COLLABORATORE TECNICO DEGLI ENTI DI RICERCA – VI LIVELLO – 12 POSIZIONI - POSIZIONE 2” - Codice Concorso: 2023INAF/12CTER/OAMI/Profilo02 - con contratto a tempo indeterminato, e rapporto di lavoro a tempo pieno, da svolgersi presso la sede di Merate dell’INAF Osservatorio Astronomico di Brera (OAB).

Di seguito sono presentate le 3 tracce (A, B o C) con i relativi allegati da svolgere da parte dei candidati tramite sorteggio.

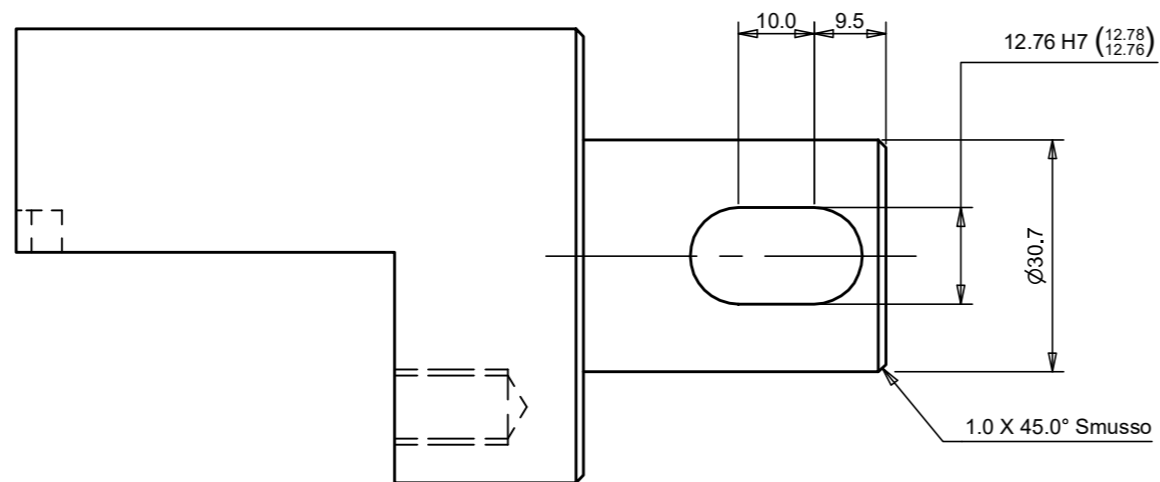
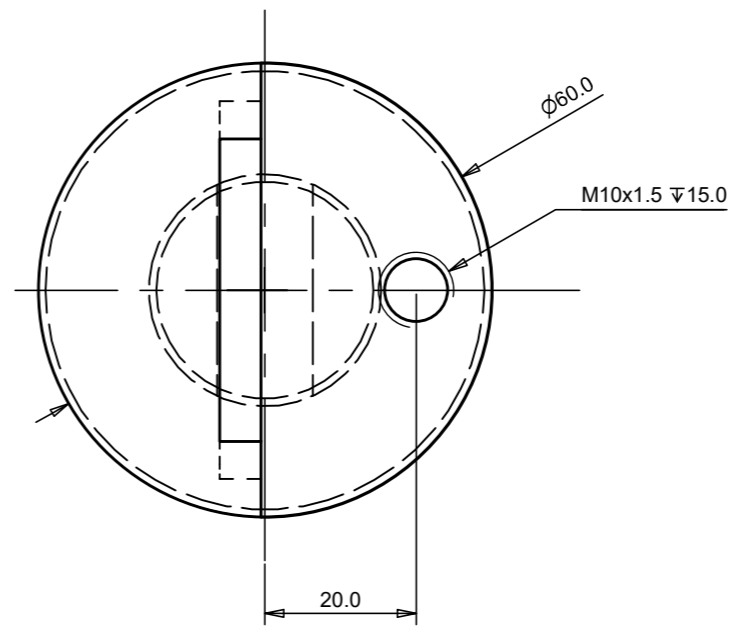
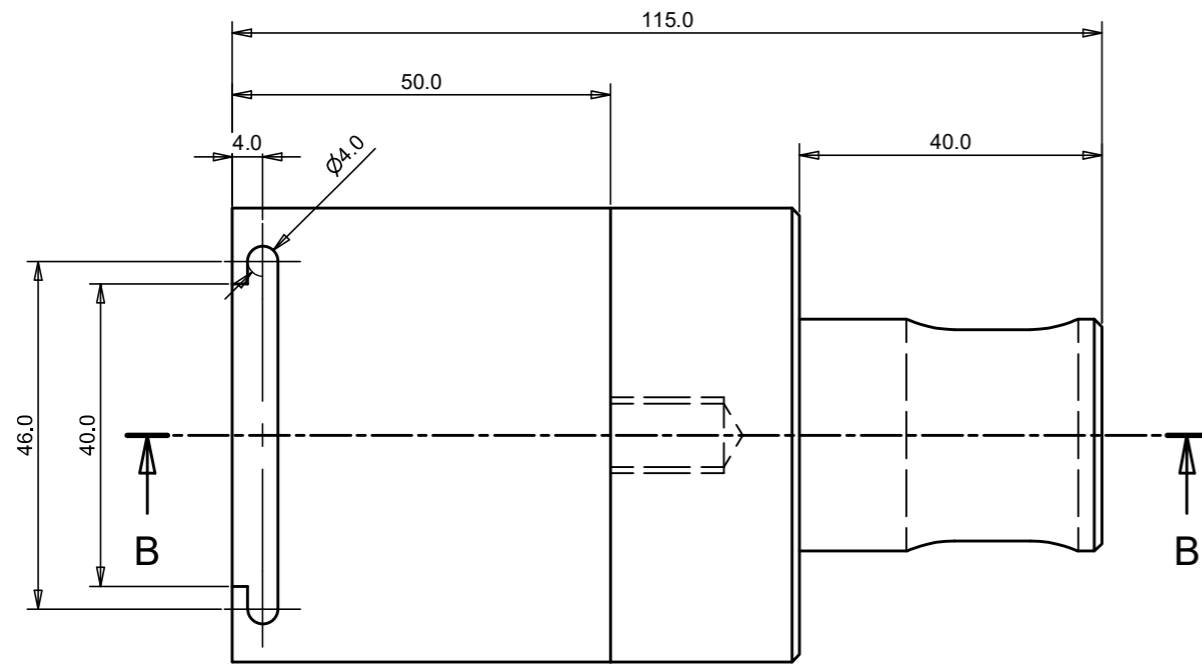
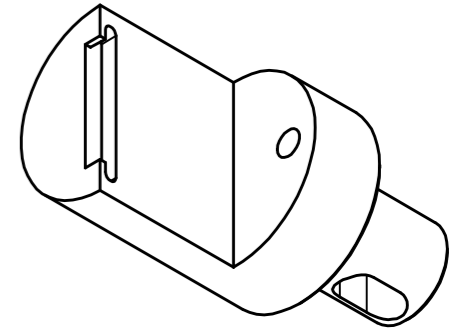
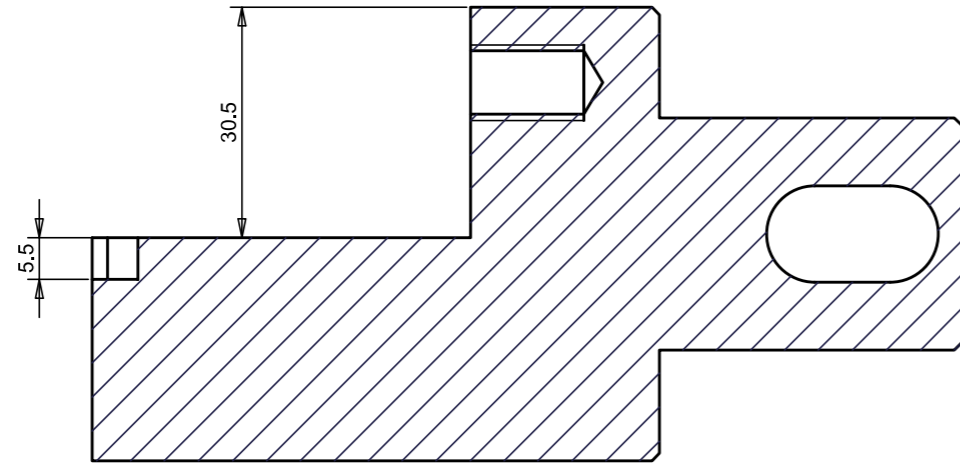
- A) Si richiede di descrivere il processo di fabbricazione mediante operazioni meccaniche classiche del pezzo presentato nell’allegato 1 oppure dei pezzi presentati nell’allegato 2 (identificati dal nome ITEM 1 e ITEM 5), descrivendo in dettaglio ogni fase di lavorazione (dal grezzo/grezzi alla fase di controllo), gli utensili utilizzati e le accortezze a cui prestare attenzione.



- B) Si richiede di descrivere il processo di fabbricazione mediante operazioni meccaniche classiche del pezzo presentati nell’allegato 3 (identificato dal nome ITEM 1) oppure nell’allegato 4, descrivendo in dettaglio ogni fase di lavorazione (dal grezzo/grezzi alla fase di controllo), gli utensili utilizzati e le accortezze a cui prestare attenzione.

- C) Si richiede di descrivere il processo di fabbricazione mediante operazioni meccaniche classiche del pezzo presentato nell’allegato 5 (identificato dal nome ITEM 1) oppure nell’allegato 6, descrivendo in dettaglio ogni fase di lavorazione (dal grezzo/grezzi alla fase di controllo), gli utensili utilizzati e le accortezze a cui prestare attenzione.

ALLEGATO 1

B-B (1:1)

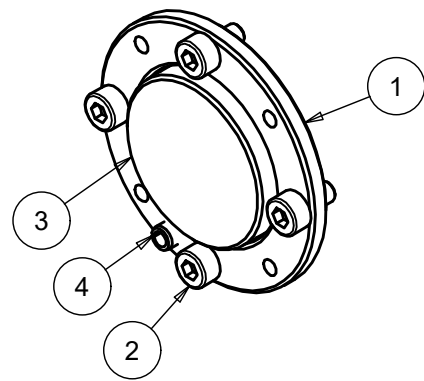


ITEM	QTY	PART NAME	MATERIAL	MASS
2	1	clamp3	Al Anticorodal	0.432 kg
		  INAF - Osservatorio astronomico di Brera - Merate Via Bianchi 46, 23807, Merate tel. (+39) 02-72320500		
1	perno di interfaccia	2/11/2023	Name	Date
		Author	S. Basso	26/10/2023
		Check		
		Approved		
		Cod.	S231002c	
		Gen. Tol.		
		X	= ±0.5	
		X.X	= ±0.1	
		X.XX	= ±0.05	
		X.XXX	= ±0.01	
				3 / 4
				A3

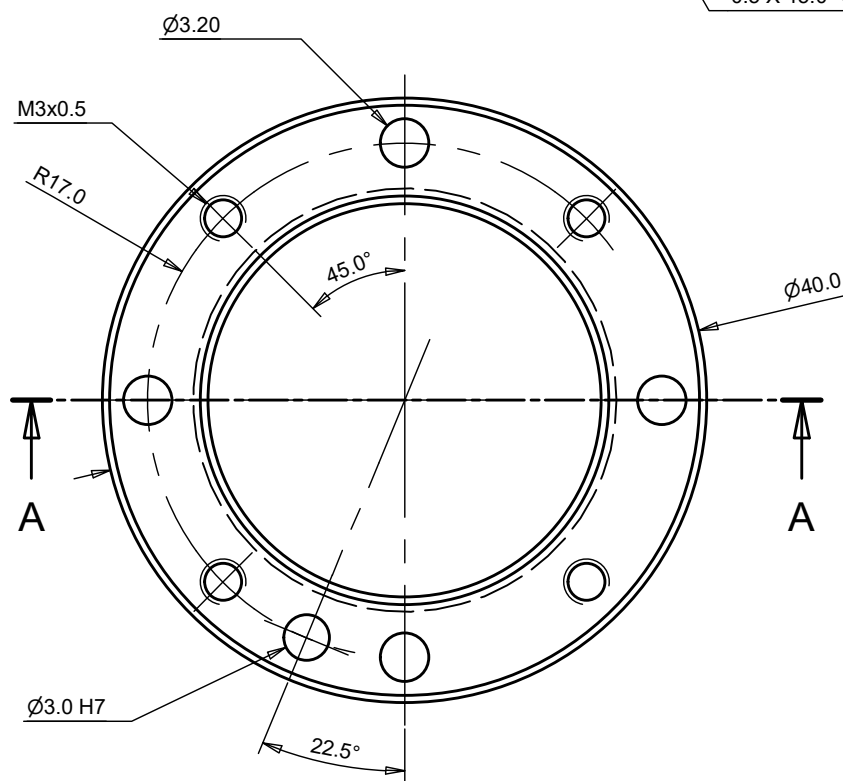
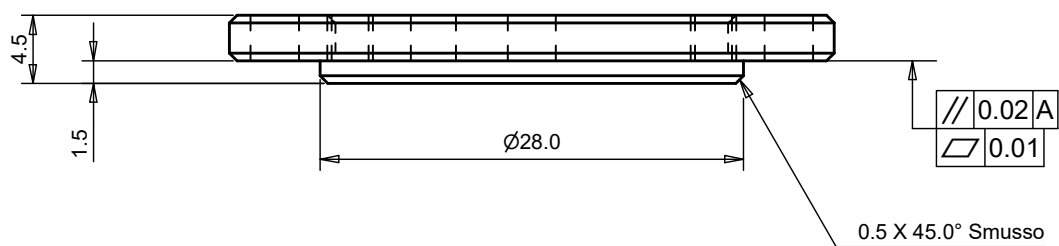
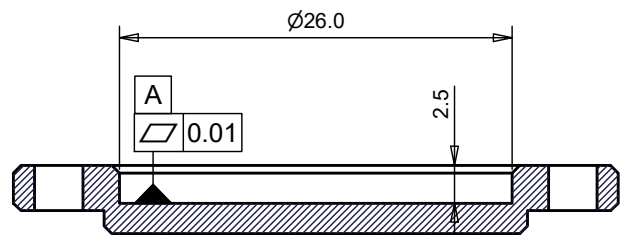
prog.: NOW-CB
strength test (compressive force)

clamp_4mm

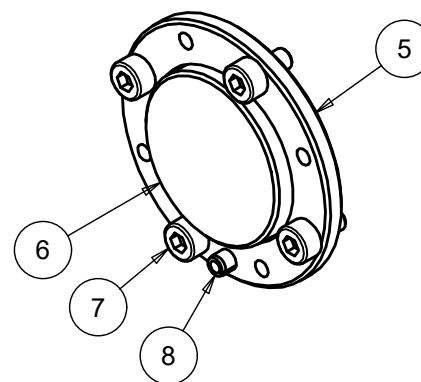
Parts List (n. 3 PEZZI)				
ITEM	QTY	PART NAME	MATERIAL	MASS
1	1	supporto_specchio	inox AISI 304	0.025 kg
2	4	ISO 4762 - M3 x 6	Stainless Steel, 440C	0.001 kg
3	1	mirror (1")	Glass	0.005 kg
4	1	ISO 8752 - 3 x 10	Stainless Steel, Austenitic	0.000 kg



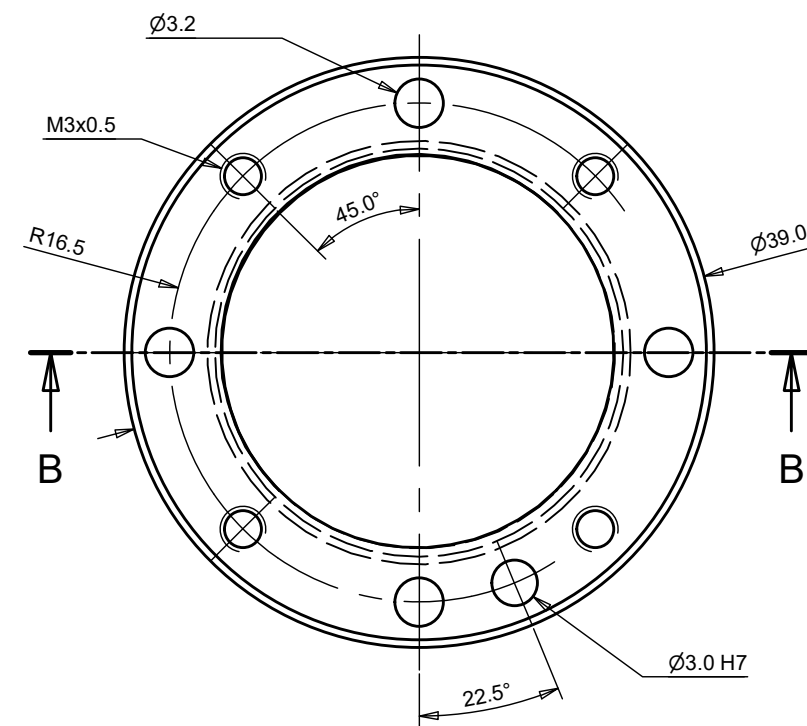
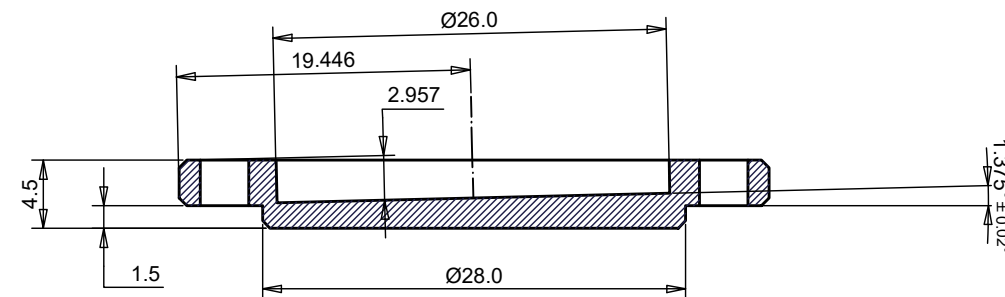
A-A (2:1)



Parts List (n. 1 PEZZO)				
ITEM	QTY	PART NAME	MATERIAL	MASS
5	1	supporto_specchio_tilt	inox AISI 304	0.024 kg
6	1	mirror (1")	Glass	0.005 kg
7	4	ISO 4762 - M3 x 6	Stainless Steel, 440C	0.001 kg
8	1	ISO 8752 - 3 x 10 A	Stainless Steel, Austenitic	0.000 kg

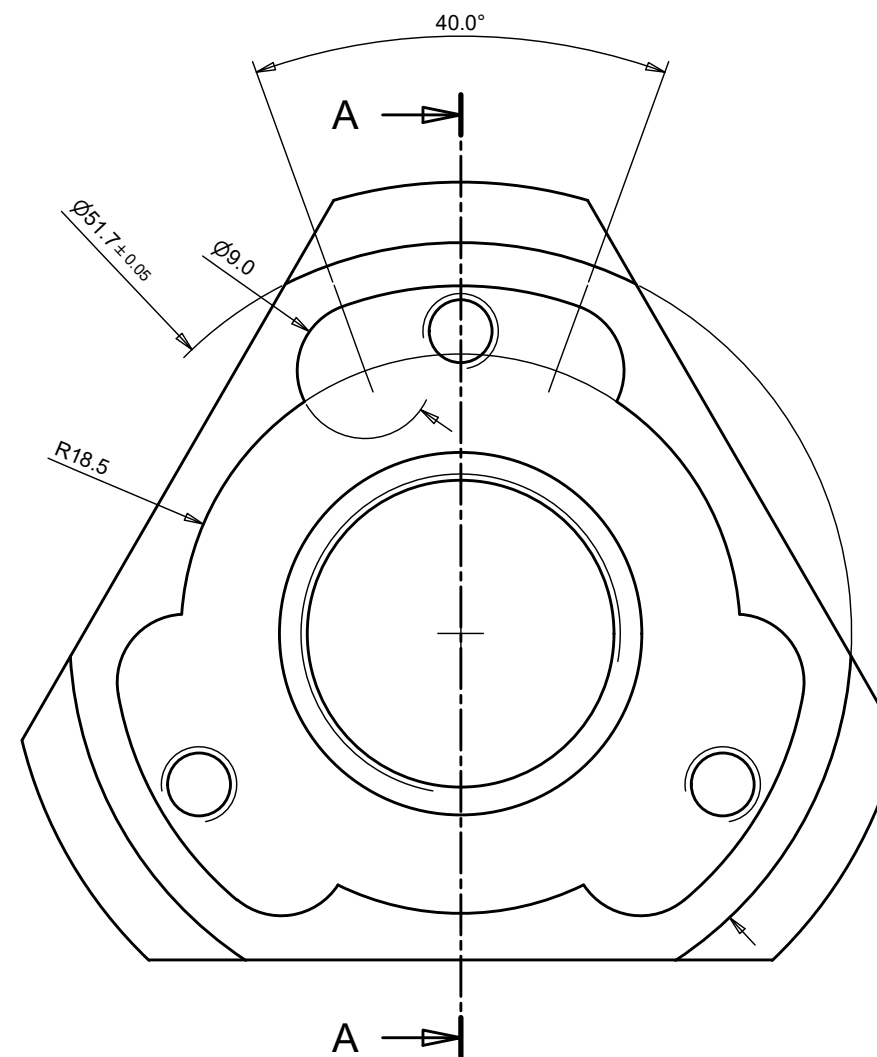
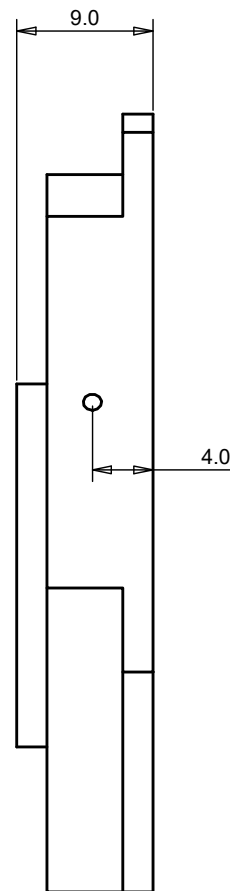
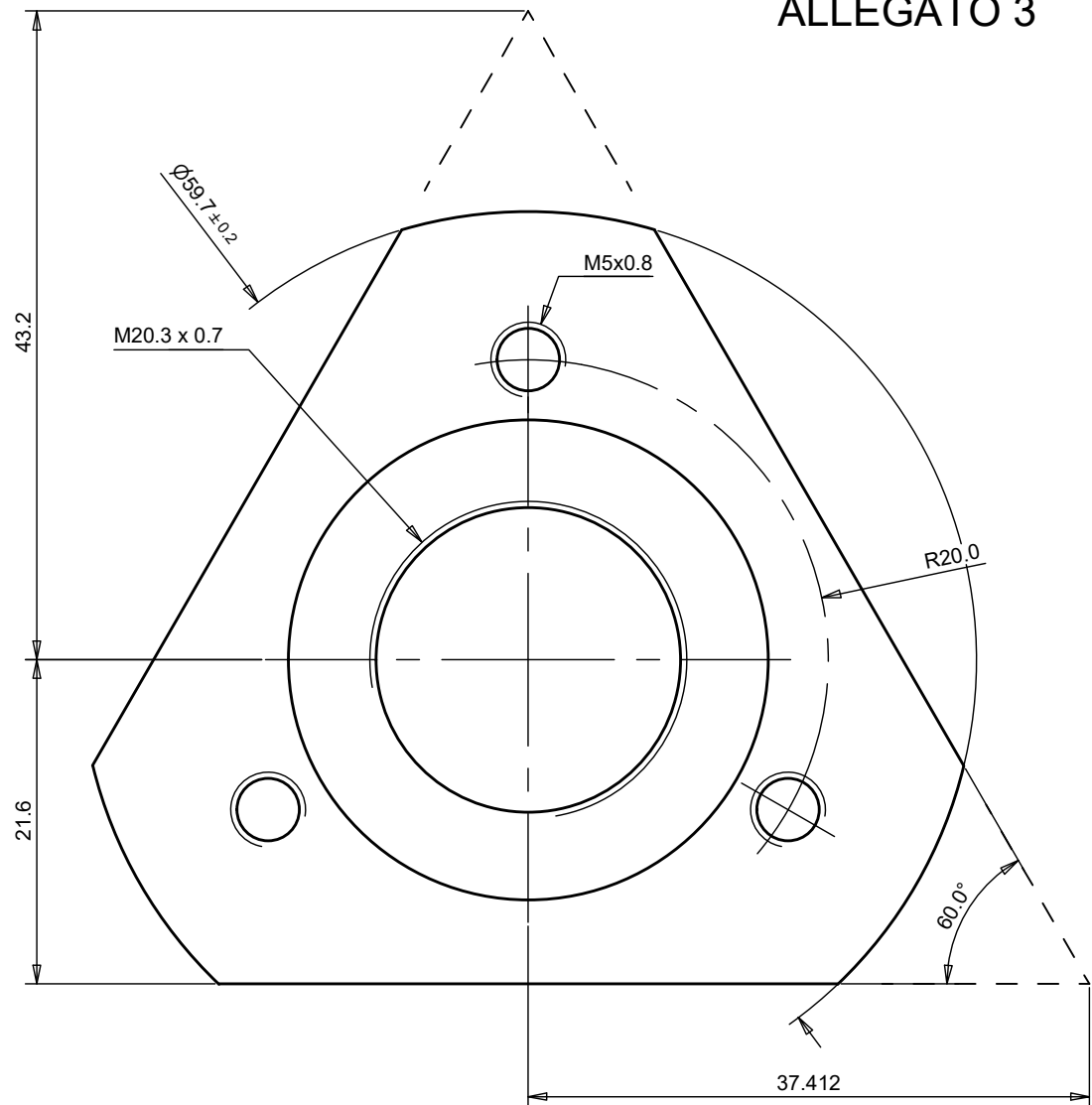


B-B (2:1)

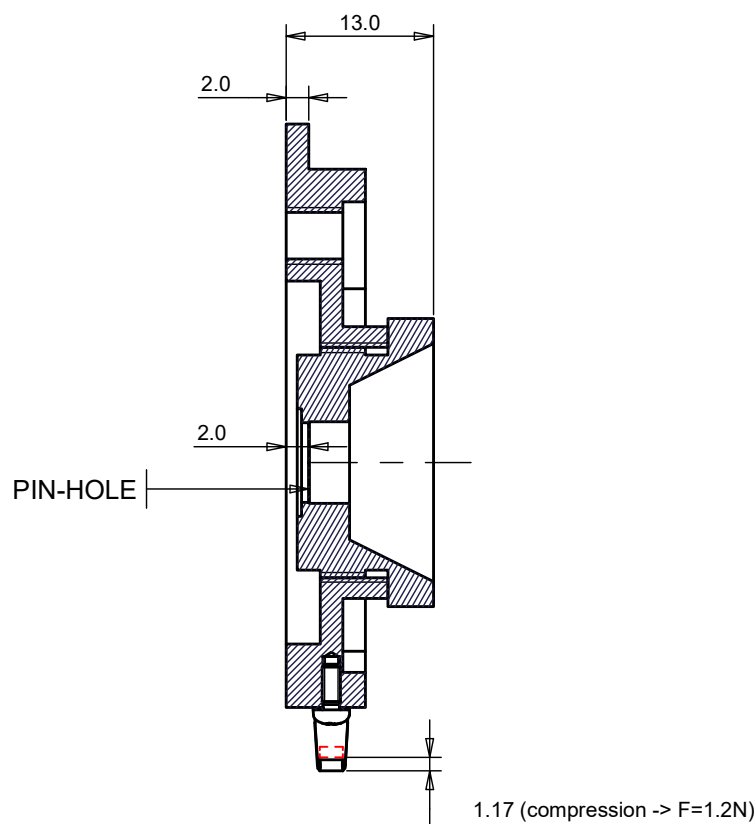
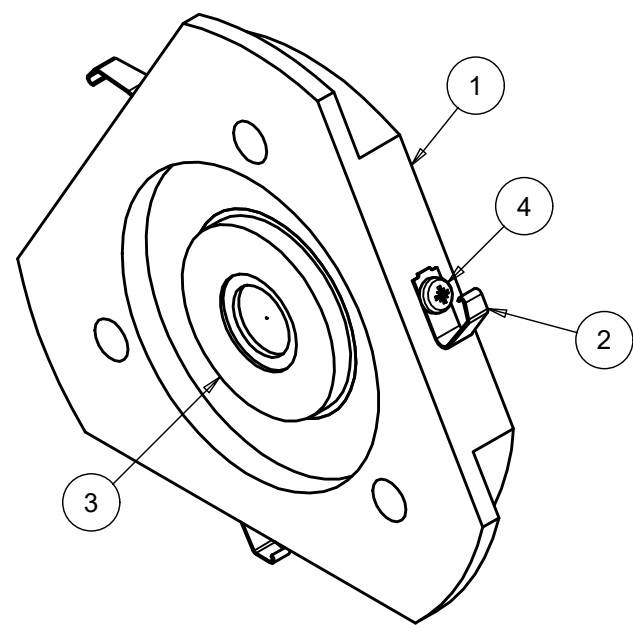
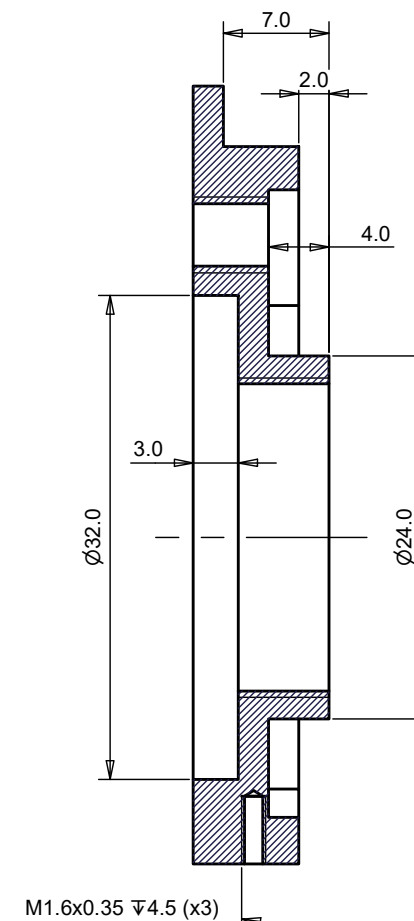


		INAF - Osservatorio astronomico di Brera - Merate Via Bianchi 46, 23807, Merate tel. (+39) 02-72320500	
Author	S. Basso	Date	12/10/2022
Check			
Approved			
Cod.	S221001		
Gen. Tol.:	X = ±0.5		
	XX = ±0.1		
	XXX = ±0.05		
	XXXX = ±0.01		
prog.: TAO-X Interfaccia e specchietti per autocollimatori per i mold LT-Ultra			1 / 1 A3
specchietto-1			

ALLEGATO 3



A-A (2:1)

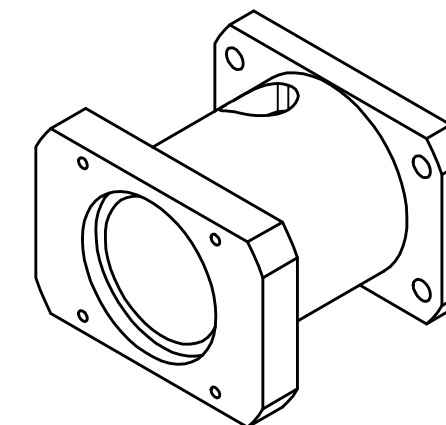
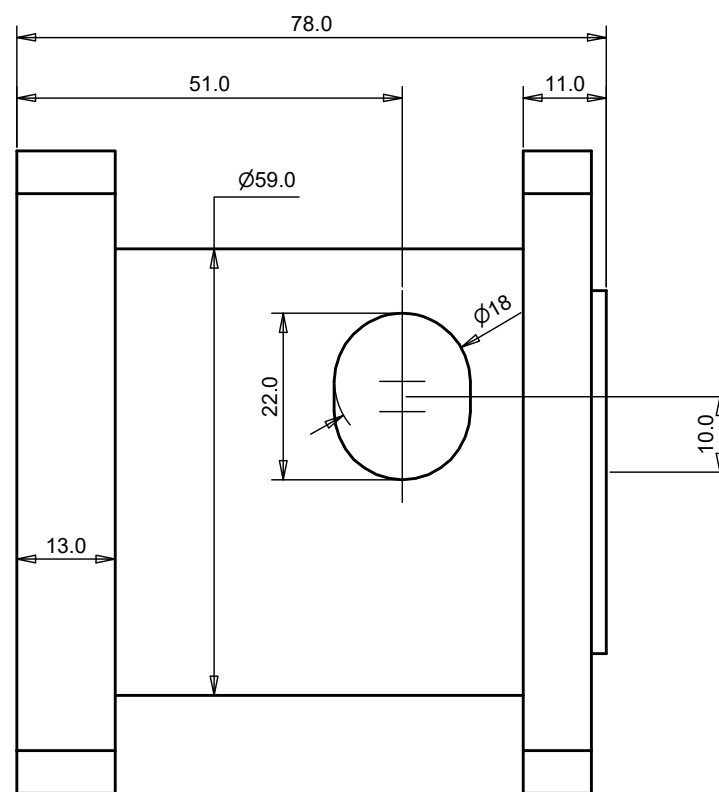
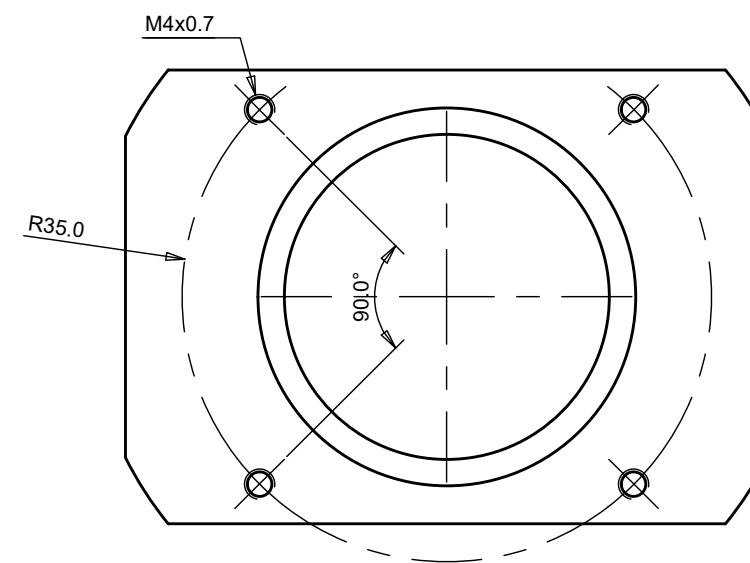
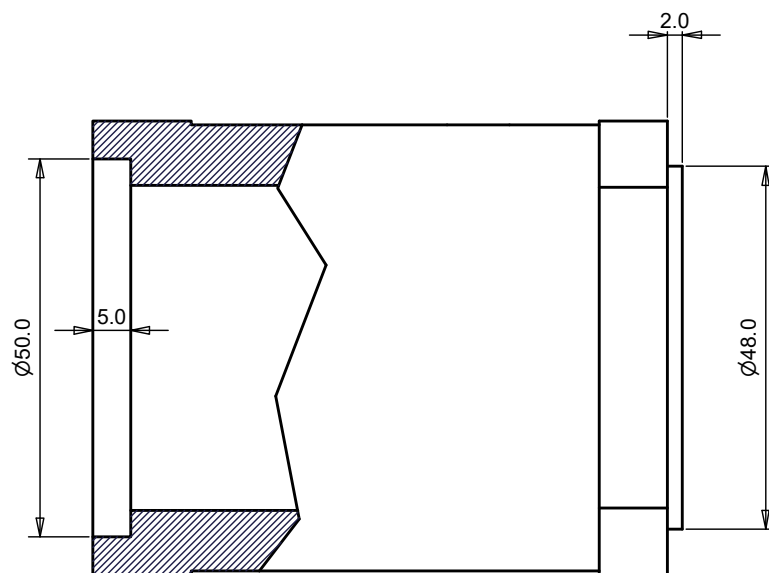
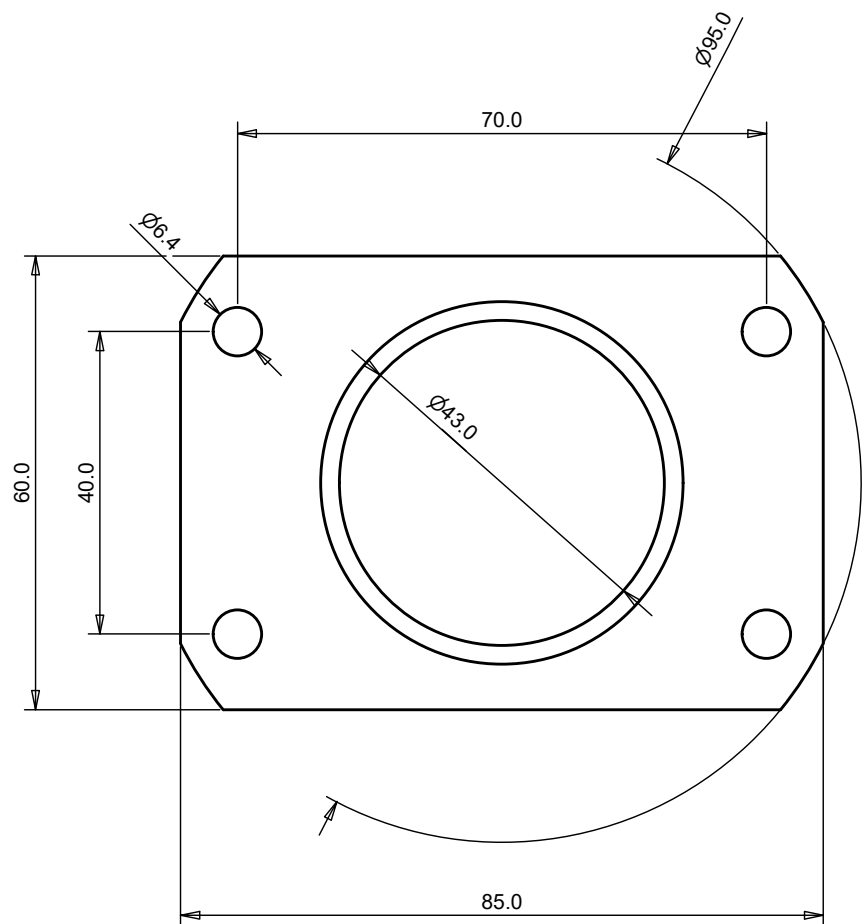




note: see ref. S231003 for complete mirror support assembly

ITEM	QTY	PART NAME	MATERIAL	MASS
1	1	PH_IF2	Al Anticorodal	0.022 kg
2	3	molla_RS122-3515	Titanium	0.000 kg
3	1	pinhole_support (D50um)	Al Anticorodal	0.007 kg
4	3	RS179-5683 - M1.6 x 4	Stainless Steel	0.000 kg

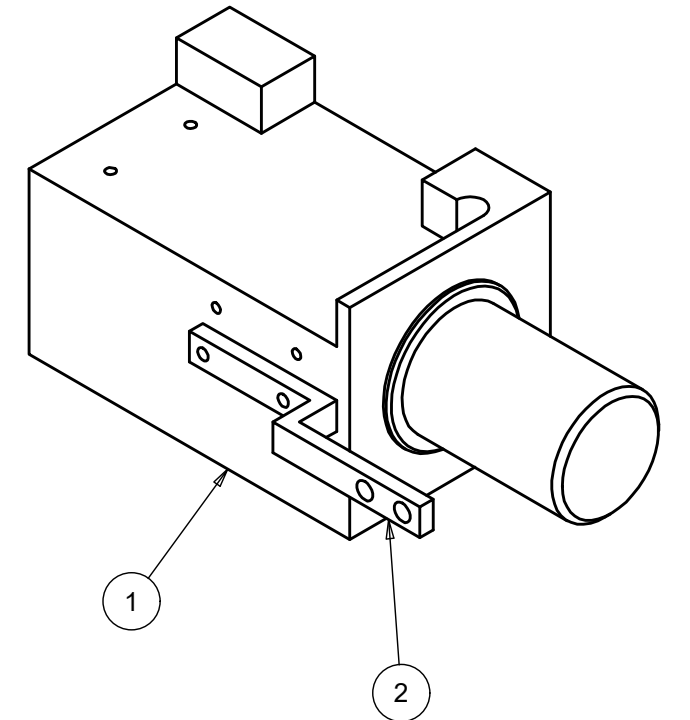
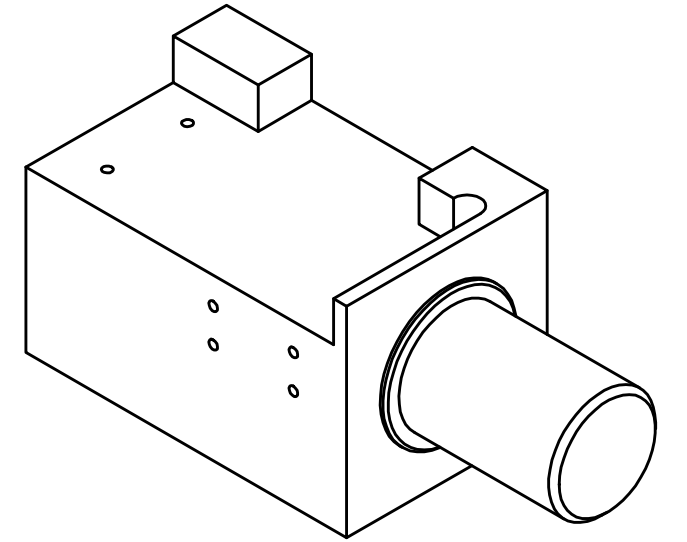
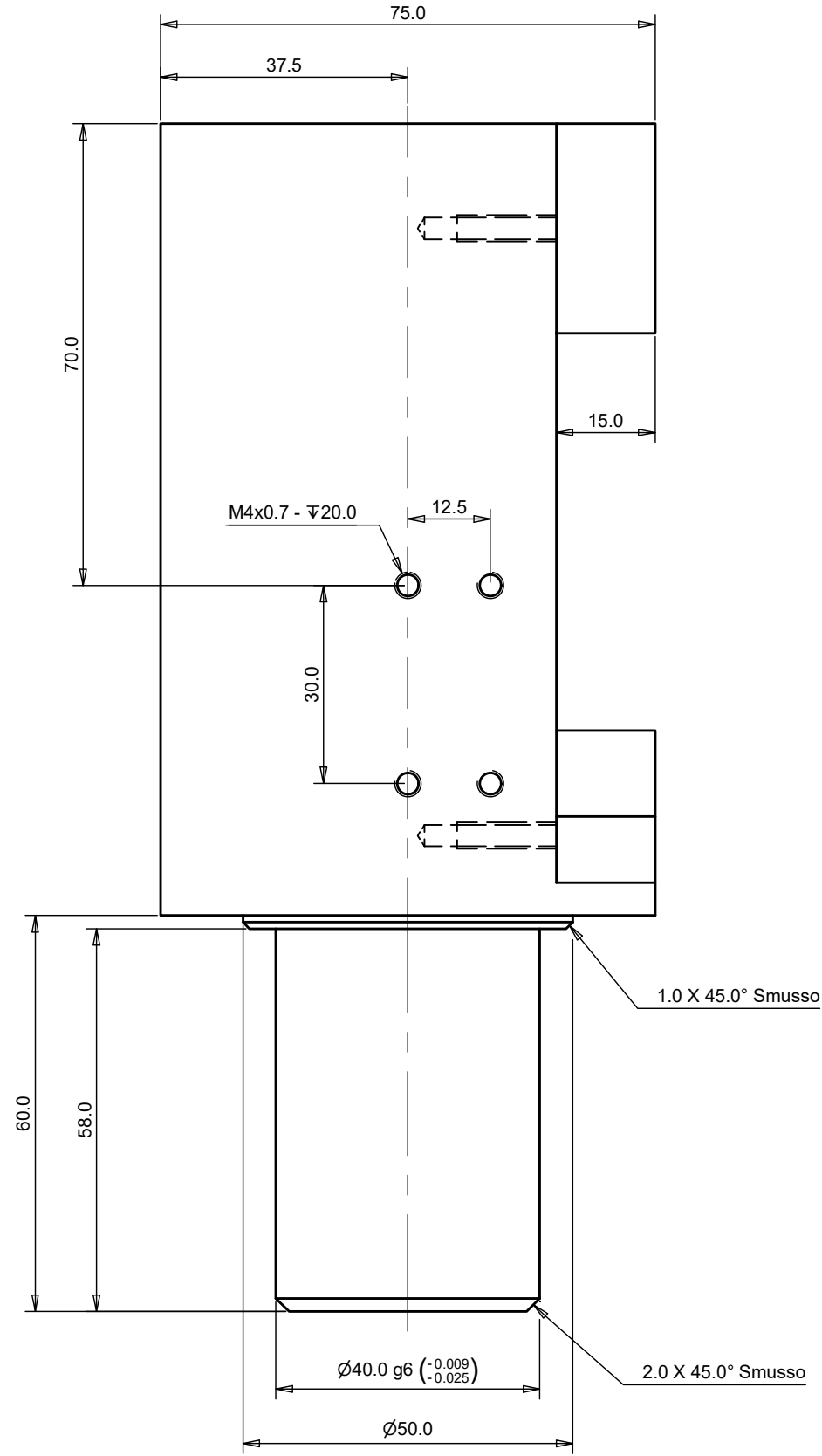
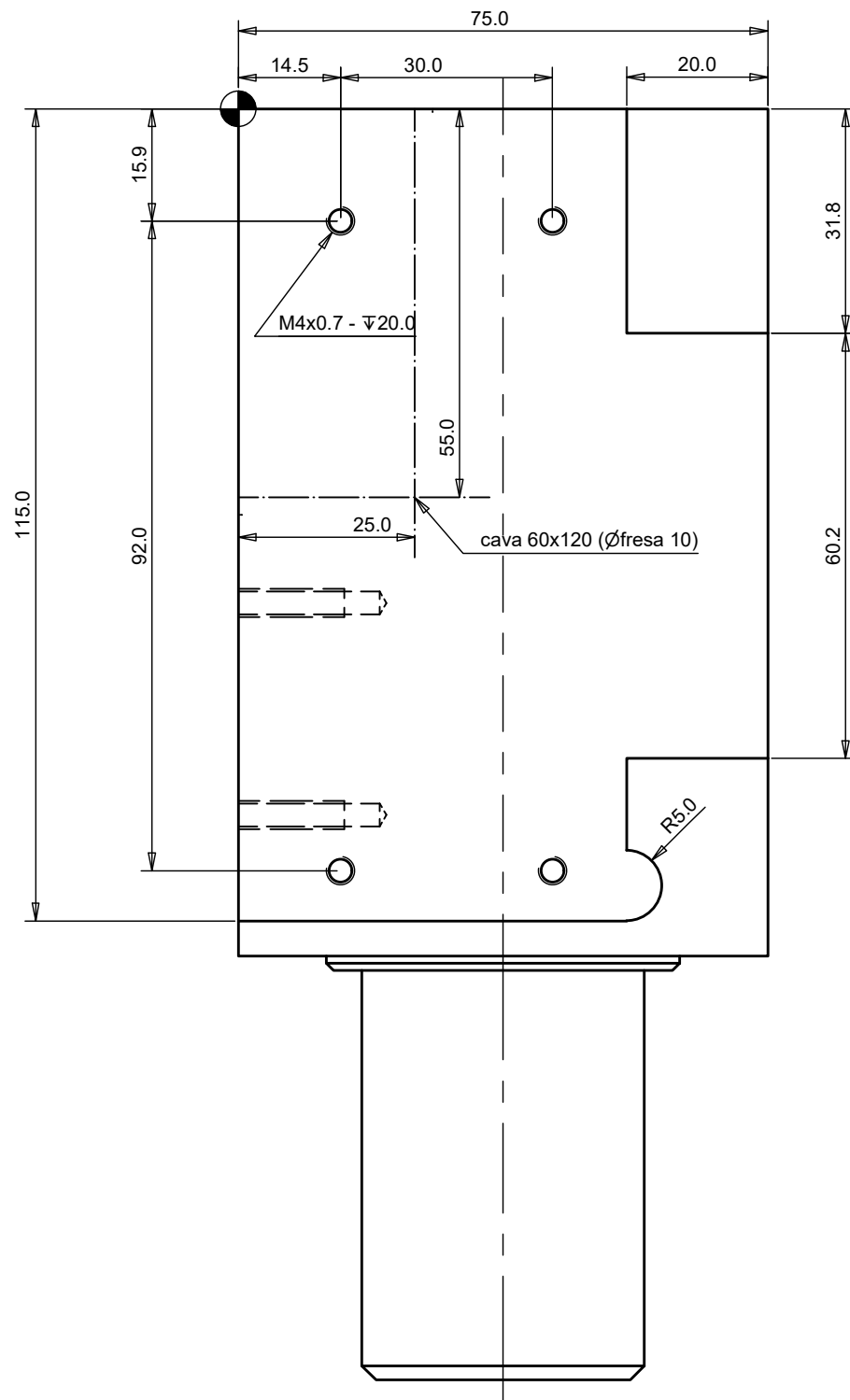
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Author	S. Basso	Date	12/01/2024
Check			
Approved			
Cod.	S240102		
Gen. Tol:			
X	= ±0.5		
X.X	= ±0.1		
X.XX	= ±0.05		
X.XXX	= ±0.01		
PH_IF2			1 / 1 A3

ALLEGATO 4



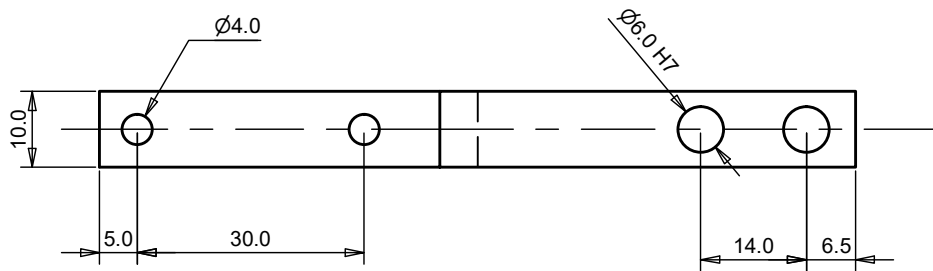
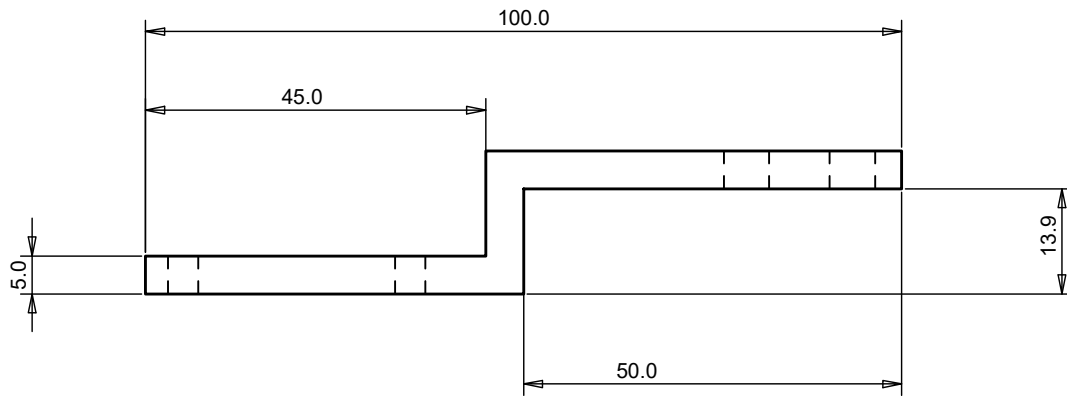
mat.: Alluminio n. pz: 1		 		INAF - Osservatorio astronomico di Brera - Merate Via Bianchi 46, 23807, Merate tel. (+39) 02-72320500	
		Name S. Basso		Date 21/07/2020	
		Author		prog.: Beatrix	
		Check		Campana motore asse X	
		Approved			
		Cod.		S200703	
		Gen. Tol:			
		X = ±0.5			
		X.X = ±0.1			
		X.XX = ±0.05			
		X.XXX = ±0.01			
				IB0A2020_02	
				1 / 1	
				A3	

ALLEGATO 5



ITEM	QTY	PART NAME	MATERIAL	MASS
1	1	IF_pitch_tool	Al Anticorodal	1.725 kg
2	1	Zeeko_pitch_tool_ref	Al Anticorodal	0.014 kg

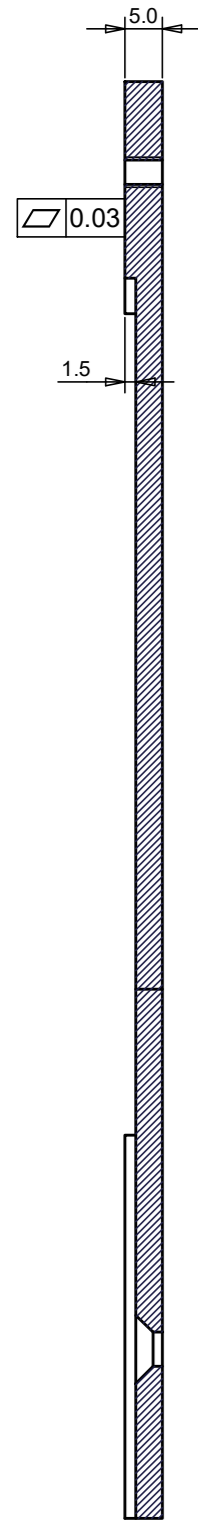
			INAF - Osservatorio astronomico di Brera - Merate Via Bianchi 46, 23807, Merate tel. (+39) 02-72320500	
	Name	Date	prog.: Lynx Interfaccia per montaggio pitch tool su Zeeko	
	Author	S. Basso	24/10/2017	
	Check			
	Approved			
	Cod.	S171003a		
	Gen. Tol.:			
	X	= ±0.5		
	X.X	= ±0.1		
	X.XX	= ±0.05		
	X.XXX	= ±0.01		
IF_pitch_tool				1 / 2
				A3



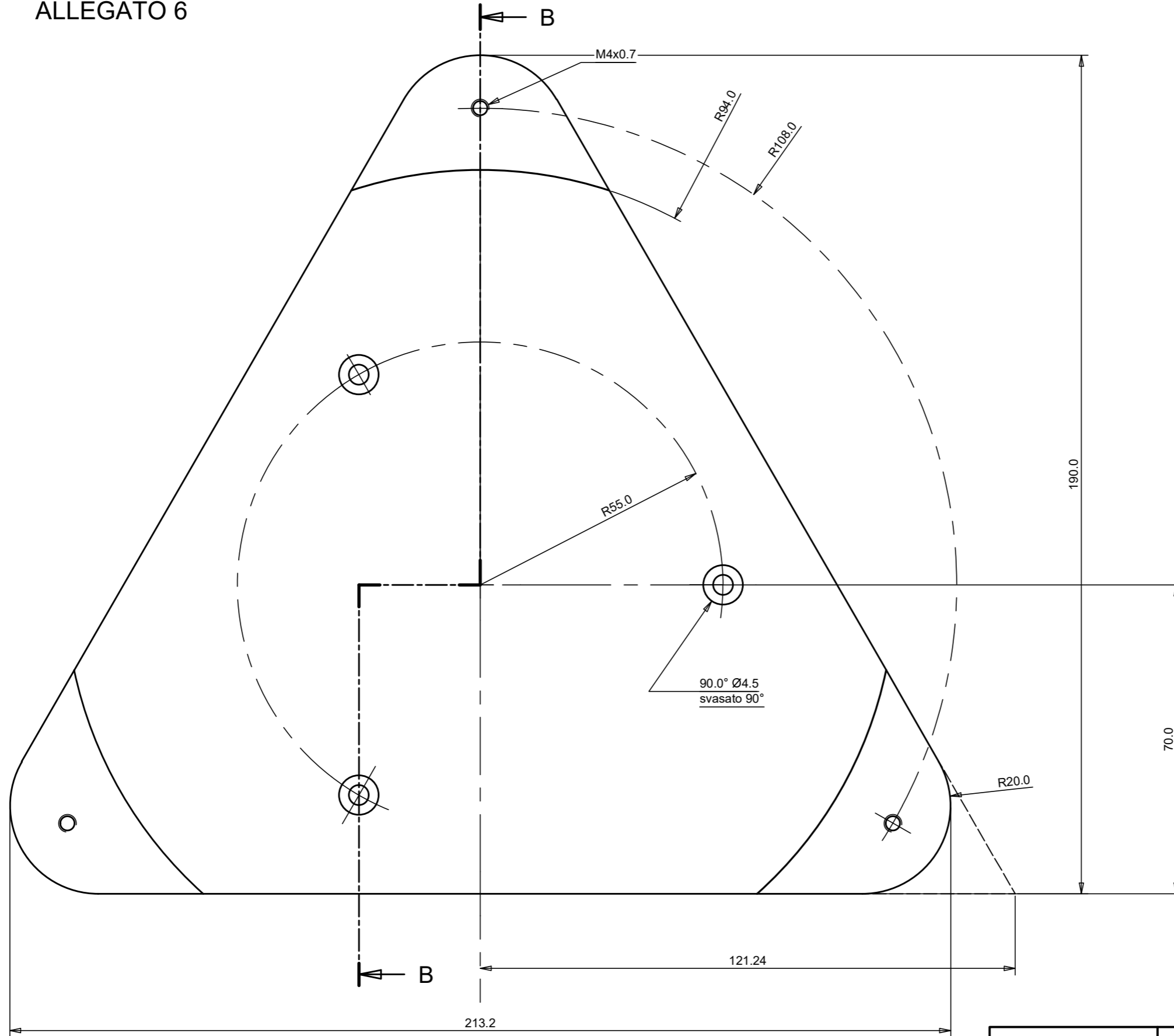
			INAF - Osservatorio astronomico di Brera - Merate Via Bianchi 46, 23807, Merate tel. (+39) 02-72320500		
			Name	Date	Item 2
		Author	S. Basso	24/10/2017	
		Check			
		Approved			
			Cod.	S171003b	IF_pitch_tool
		Gen. Tol.:			
		X	= ±0.5		
		X.X	= ±0.1		
		X.XX	= ±0.05		
		X.XXX	= ±0.01		
					2 / 2
					A4

ALLEGATO 6

ITEM 2



B-B (1:1)



mat.: Alluminio n. pz: 1		INAF - Osservatorio astronomico di Brera - Merate Via Bianchi 46, 23807, Merate tel. (+39) 039 5971100 - fax (+39) 039 5971000	
		Name	Date
		Author	S. Basso 29/07/2016
		Check	
		Approved	
		Cod.	S160701b
		Gen. Tol:	
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		X.X	= ±0.1
		X.XX	= ±0.05
		X.XXX	= ±0.01
		porta_campioni_200x5	
		2 / 2	
		A3	