

0.100" radius milled with a ball endmill? in OP1. The input is a turned Polycarbonate part that gets solvent welded into place making the part stronger. The original design has 1/8 NPT threads here which presents the following problems

- The tapered thread puts wedging stress on the joint of the part where it is weakest
- The root of the thread is difficult to sterilize as contaminates can travel up the thread
- Tapping the part on its edge is an additional operation that takes time

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			DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL± ANGULAR: MACH± BEND± TWO PLACE DECIMAL±	DRAWN	TS					COM
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Bounding Box Dimensions		TYLER SMUTZ OF KILLSTRESS DESIGNS®. REPRODUCTION IN PART OR AS A WHOLE		ENG APPR.				KILLSTRESS		
Length:	83	WITHOUT THE WRITTEN PERMISSION OF KILLSTRESS DESIGNS IS PROHIBITED.	THREE PLACE DECIMAL ±	MFG APPR.						'
Width:	46.5	Client	QUANTITY:]	Q.A.				DESI	GNS	_
Height:	6.35	Due date:	MATERIAL 0.250" Polycarbonate	Contact Info 1340 N Dynamics St. unit L, Anaheim CA 92806			1	WG. NO.	D D	REV
Disclaimer: This work is intended solely for the Client named. Client assumes all responsibility and risk with respect to Client's use of the product, which is provided "as is"		NEXT ASSY USED ON	FINISH	Work: 714.884.3799 Cell: 716.400.6114 contact@killstressdesigns.com>				iamond_PEE	:P_Ryan	V4 DFM_
	ditions of any kind, either express or implied.	APPLICATION	DO NOT SCALE DRAWING	www.killstressdesigns.com		Scale:	1:1 WEIGHT:		1of 1	
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Profile fillets make the part more durable, easier to handle, and the machine can round the corner at higher speed.

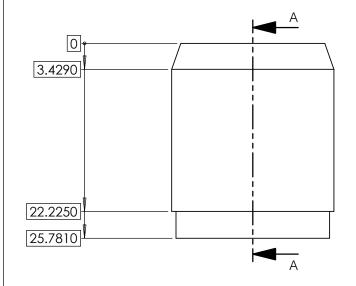
0.100" radius milled with a ball endmill-

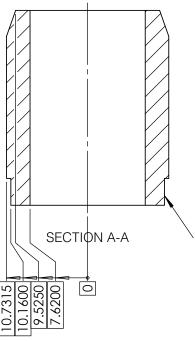
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Width:	46.5	Client	QUANTITY:]	Q.A.			I_	DESIGN	S _
Height:	6.35	Due date:	MATERIAL 0.250 Polycarbonate	Contact Info 1340 N Dynamics St. unit L, Angheim CA 92806			SIZE DWG. NO. Hary_Diamond_PEEP_Ryan		REV
Disclaimer: This work is intended solely for the Client named. Client assumes all responsibility and risk with respect to Client's use of the product, which is provided "as is"		NEXT ASSY USED ON	FINISH	Work: 714.884.3799 Cell: 716.400.6114 <u>contact@killstressdesigns.com></u>			HAIY_DIG	MONO_PEEP_	Kyan v4 Driv
without warranties, representations or con-	ditions of any kind, either express or implied.	APPLICATION	DO NOT SCALE DRAWING	www.killstressdesigns.com		Scale: 1:1	WEIGHT:	1 of 1	
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Turned shoulder on the outlet material ensures that the solvent weld joint tolerance is controlled. Plastics have a pretty wide tolerance band from material suppliers and since the part needs to be turned anyway the shoulder does not add any appreciable production time. This also makes it easier to control fits if the turned parts are being produced in one shop and milled parts are produced in another.

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Bounding Box Dimensions		TYLER SMUTZ OF KILLSTRESS DESIGNS®. REPRODUCTION IN PART OR AS A WHOLE	ANGULAR: MACH± BEND ±	ENG APPR.				ILLSTRESS			
Length:	25.781	WITHOUT THE WRITTEN PERMISSION OF KILLSTRESS DESIGNS IS PROHIBITED.	TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	MFG APPR.							
Width:	21.463	Client	QUANTITY:]	Q.A.			L	DESIGN	S _]		
Height:	21.463	Due date:	MATERIAL 1/2" Polycarb pipe	1340 N Dyr	ntact Info namics St. u im CA 9280			SIZE DWG. NO.			
Disclaimer: This work is intended solely for the Client named. Client assumes all responsibility and risk with respect to Client's use of the product, which is provided "as is"		NEXT ASSY USED ON	FINISH	Work: 714.884.3799 Cell: 716.400.6114 contact@killstressdesigns.com>			Arojeci	Aroject Oscillating Vent Outlet			
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