

4

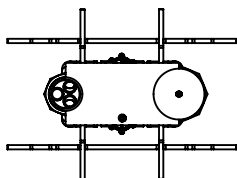
3

2

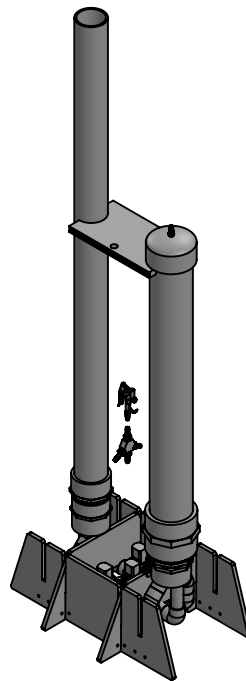
1

D

D



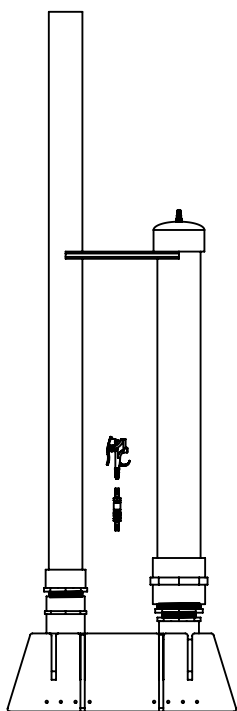
FOR REFERENCE ONLY



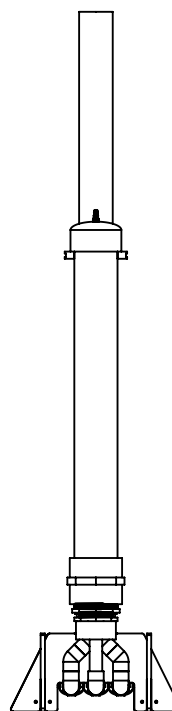
FOR REFERENCE ONLY

C

C



FOR REFERENCE ONLY



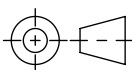
FOR REFERENCE ONLY

B

B

A

A

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON ANGLE 1° 1 PLACE DECIMAL ± .1 2 PLACE DECIMAL ± .02 3 PLACE DECIMAL ± .005		NAME	DATE	ROCKETCAM AIR CANNON			
				DRAWN	LWD				11/30/19
				CHECKED	LWD	12/1/19	TITLE	PURDUE UNIVERSITY MET 400 MECHANICAL DESIGN CAPSTONE MORTAR PROJECT	
				ENG APPR.	LWD	12/3/19			
				MFG APPR.	TRC	12/6/19			
		MATERIAL		Q.A.		THIRD ANGLE PROJECTION			
		FINISH							
NEXT ASSY	USED ON	DO NOT SCALE DRAWING				SIZE A	DWG. NO. ASSEMBLY-MORTAR-PROJECT-DIBENEDITTO	REV.	
						SCALE:1:20	WEIGHT:	SHEET 1 OF 6	

4

3

2

1

4

3

2

1

D

D

C

C

B

B

A

A

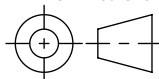
1/4" NPT BRASS 3-WAY
HEX MANIFOLD

AIR BLOW GUN

CUSTOM MILLED
3 HOLE MANIFOLD WALL
(NOT VISIBLE)

QTY. 3 RAIN BIRD CP100

FOR REFERENCE ONLY

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON ANGLE 1° 1 PLACE DECIMAL ± .1 2 PLACE DECIMAL ± .02 3 PLACE DECIMAL ± .005		NAME	DATE	TITLE ASSEMBLY ROCKETCAM AIR CANNON WITHOUT SUPPORT BASE		
			DRAWN	LWD	11/30/19			
			CHECKED	LWD	12/1/19			
			ENG APPR.	LWD	12/3/19			
			MFG APPR.	TRC	12/6/19			
		MATERIAL	Q.A.			THIRD ANGLE PROJECTION 		
NEXT ASSY	USED ON	FINISH						
		DO NOT SCALE DRAWING				SIZE A	DWG. NO. ASSEMBLY-MORTAR-PROJECT-DIBENEDITTO	REV.
			SCALE:1:10		WEIGHT:	SHEET 2 OF 6		

4

3

2

1

4

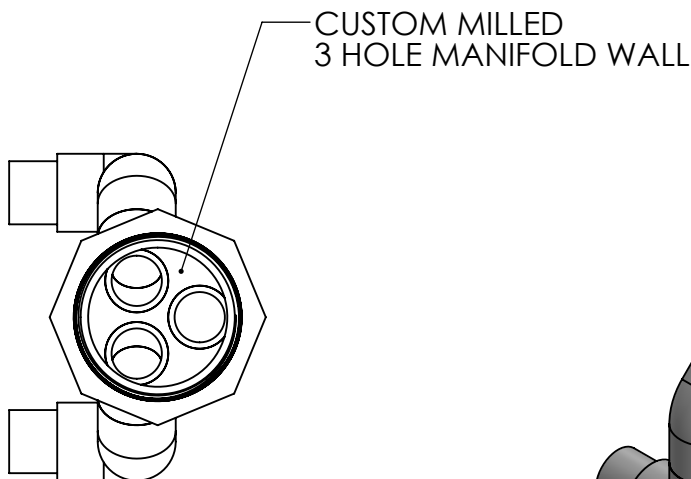
3

2

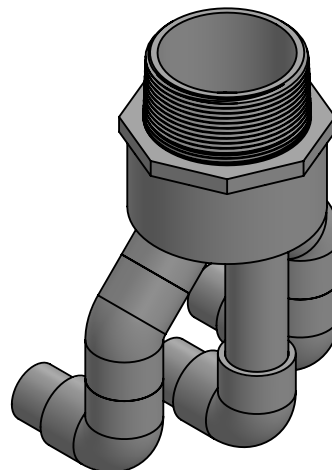
1

D

D



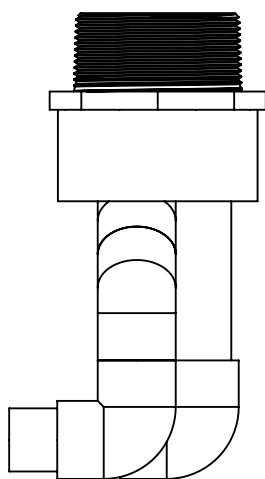
FOR REFERENCE ONLY



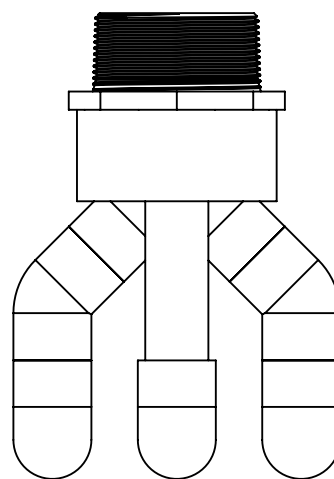
FOR REFERENCE ONLY

C

C



FOR REFERENCE ONLY




FOR REFERENCE ONLY

B

B

A

A

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON ANGLE 1° 1 PLACE DECIMAL ± .1 2 PLACE DECIMAL ± .02 3 PLACE DECIMAL ± .005		NAME	DATE	TITLE ROCKETCAM AIR CANNON ASSEMBLY PRESSURE SIDE
			DRAWN	LWD	11/30/19	
			CHECKED	LWD	12/1/19	
			ENG APPR.	LWD	12/3/19	
			MFG APPR.	TRC	12/6/19	
		MATERIAL	Q.A.			SIZE A DWG. NO. ASSEMBLY-MORTAR-PROJECT-DIBENEDITTO REV.
		THIRD ANGLE PROJECTION				
NEXT ASSY	USED ON	FINISH				
		DO NOT SCALE DRAWING				
			SCALE:1:4		WEIGHT:	SHEET 3 OF 6

4

3

2

1

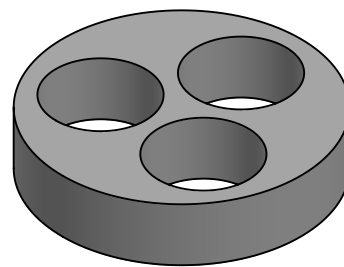
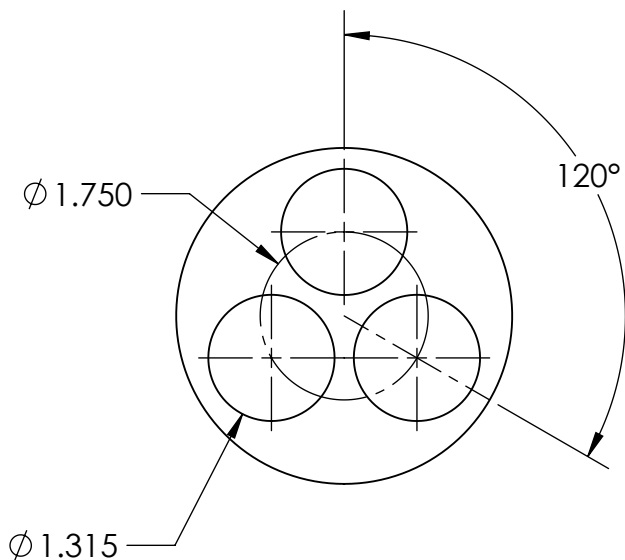
4

3

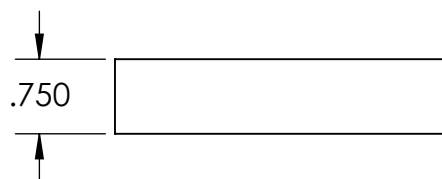
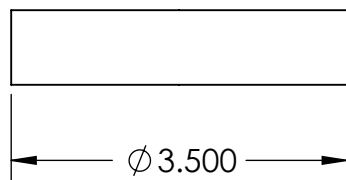
2

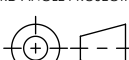
1

1. MATERIAL: 3/4" CHEMICAL RESISTANT PVC SHEET
2. <https://www.mcmaster.com/8747k106>
3. TENSILE STRENGTH 7,000-7,800 psi



FOR REFERENCE ONLY



		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON ANGLE 1° 1 PLACE DECIMAL ± .1 2 PLACE DECIMAL ± .02 3 PLACE DECIMAL ± .005		NAME	DATE	TITLE ROCKETCAM AIR CANNON CUSTOM MILLED 3 HOLE MANIFOLD WALL		
			DRAWN	LWD	11/30/19			
			CHECKED	LWD	12/1/19			
			ENG APPR.	LWD	12/3/19			
			MFG APPR.	TRC	12/6/19			
		MATERIAL 3/4" CHEMICAL RESISTANT PVC SHEET	Q.A.			SIZE A SCALE:1:2		
		FINISH	THIRD ANGLE PROJECTION 					
		DO NOT SCALE DRAWING						
NEXT ASSY	USED ON					DWG. NO. ASSEMBLY-MORTAR-PROJECT-DIBENEDITTO	REV.	
						WEIGHT:	SHEET 4 OF 6	

4

3

2

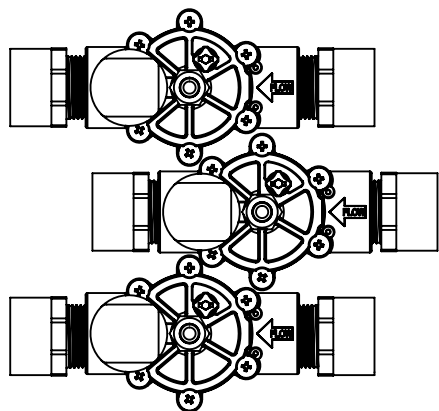
1

4

3

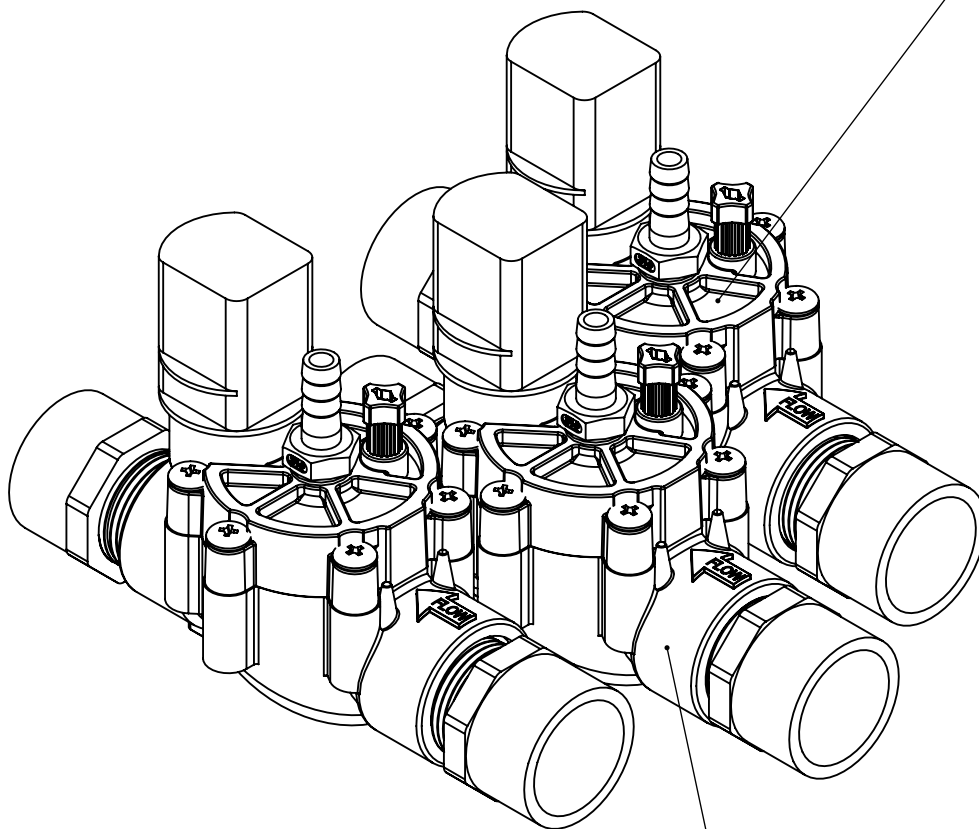
2

1



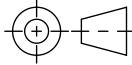
FOR REFERENCE ONLY

DRILL TAP AND THREAD 1/4" NPT 18-8
AT APPROXIMATE CENTER



1" RAIN BIRD CP100 SPRINKLER VALVE

FOR REFERENCE ONLY

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON ANGLE 1° 1 PLACE DECIMAL ± .1 2 PLACE DECIMAL ± .02 3 PLACE DECIMAL ± .005		NAME	DATE	TITLE ROCKETCAM AIR CANNON MODIFIED RAIN BIRD CP100 SPRINKLER VALVES	
			DRAWN	LWD	11/30/19		
			CHECKED	LWD	12/1/19		
			ENG APPR.	LWD	12/3/19		
			MFG APPR.	TRC	12/6/19		
		MATERIAL 3/4" CHEMICAL RESISTANT PVC SHEET	Q.A.			SIZE A	DWG. NO. ASSEMBLY-MORTAR-PROJECT-DIBENEDITTO
NEXT ASSY	USED ON	FINISH	THIRD ANGLE PROJECTION			SCALE:1:8	REV.
		DO NOT SCALE DRAWING				WEIGHT:	SHEET 5 OF 6

4

3

2

1

