

**FOR CG-25, CG-36, C1-25 AND  
C1-36 DRILLING MACHINES**

# TRAVEL CHART

**TRAVEL REQUIRED TO COMPLETE A CUT FOR LATERAL CONNECTION WITH POINT  
OF PILOT DRILL (OR SOLID DRILL) CONTACTING MAIN**

Nominal Size of Pipe to be Cut	Outside Diameter of Cutter	CAST IRON PIPE						STEEL PIPE		ASBESTOS CEMENT PIPE Class 150
		ASA A21.8-1953 ASA A21.8-1953 AWWA C108-52 AWWA C108-52 Class 150	ASA A21.2-1953 AWWA C102-33 Class 150	AWWA 1908 Stand. Class B	AWWA 1908 Stand. Class D	ASA A21.7-1953 ASA A21.9-1953 Class 10	AGA Old Standard	Schedule 40	Schedule 80	
3"	1½"	1¼	1¼	1⅝	1⅝			1⅝	1¼	1⅞
	2"	1½	1⅝	1⅝	1¾			1½	1⅝	
	2½"	2	2⅞	2⅞	2¼			1⅞	2⅞	
	3"	2⅞	2⅞	2⅞	2¾*			2½	2½*	
4"	1½"	1¼	1¼	1⅝	1⅝	1¼	1¼	1⅝	1¼	1¾
	2"	1½	1½	1⅝	1⅝	1½	1½	1⅝	1½	
	2½"	1¾	1⅞	1⅞	2	1¾	1⅞	1¾	1⅞	
	3"	2	2⅞	2⅞	2¼	2	2⅞	2	2⅞	
	3½"	2⅞	2½	2½	2⅞	2⅞	2½	2¼	2½	
	4"	2⅞	3⅞*	3	3⅞*	2⅞	3⅞*	3	2⅞*	
6"	1½"	1¼	1¼	1⅝	1⅝	1¼	1¼	1⅝	1¼	1¾
	2"	1⅝	1½	1½	1⅝	1⅝	1½	1⅝	1½	
	2½"	1¾	1¾	1¾	1⅞	1¾	1¾	1⅝	1¾	
	3"	1⅞	1⅞	1⅞	2	1⅞	1⅞	1¾	1⅞	
	3½"	2	2	2⅞	2⅞	2	2	1⅞	2⅞	
	4"	2	2⅞	2¼	2¾	2	2⅞	2	2⅞	
	5½"	3⅞	3¾	3¾	3⅞	3⅞	3¾	3⅞	4	
	6"	4⅞	4⅞	4⅞	4⅞*	4⅞	4⅞	4⅞	4⅞*	
8"	1½"	1¼	1¼	1⅝	1⅝	1¼	1¼	1⅝	1⅝	1¾
	2"	1⅝	1½	1½	1⅝	1⅝	1½	1⅝	1½	
	2½"	1⅞	1¾	1¾	1⅞	1⅞	1¾	1⅝	1¾	
	3"	1¾	1¾	1⅞	2	1¾	1¾	1⅝	1⅞	
	3½"	1⅞	1⅞	2	2	1⅞	1⅞	1¾	2	
	4"	1⅞	1⅞	2	2⅞	1⅞	1⅞	1¾	2	
	5½"	3	3⅞	3⅞	3¼	3	3⅞	3	3¼	
	6"	3⅞	3⅞	3⅞	3½	3¼	3⅞	3¼	3½	
	7½"	4⅞	4½	4⅞	4⅞	4⅞	4½	4½	5⅞	
	8"	5⅞	5⅞	5⅞	5¼	5⅞	5¼	5⅞*	5⅞*	
10"	1½"	1¼	1⅝	1⅝	1½	1¼	1¼	1⅝	1⅝	2
	2"	1⅝	1½	1½	1⅝	1⅝	1½	1⅝	1⅝	
	2½"	1⅞	1¾	1¾	1⅞	1⅞	1¾	1⅝	1⅞	
	3"	1¾	1⅞	1⅞	2	1¾	1¾	1⅝	1⅞	
	3½"	1¾	1⅞	2	2	1¾	1⅞	1¾	2	
	4"	1¾	1⅞	1⅞	2	1¾	1⅞	1¾	2	
	5½"	2¼	2⅞	3	3	2¼	2⅞	2¼	3	
	6"	3	3⅞	3⅞	3¼	3	3	2⅞	3¼	
	7½"	3⅞	3¾	3⅞	3⅞	3⅞	3¾	3⅞	4	
	8"	3⅞	4⅞	4⅞	4¼	3⅞	4	3⅞	4¼	
	9½"	5¼	5½	5⅞	5⅞	5¼	5⅞	5⅞	6⅞	
	10"	5⅞	6⅞	6¼*	6⅞	5⅞	6¼	6½	6½*	

NOTE: All dimensions are in inches and are the travels required to complete the cuts plus ¼" of over travel unless otherwise noted.

\*These dimensions are based on the shell cutter advancing to the center of the main.

# TRAVEL CHART

**FOR CG-25, CG-36, G1-25 AND  
G1-36 DRILLING MACHINES**

## TRAVEL REQUIRED TO COMPLETE A CUT FOR LATERAL CONNECTION WITH POINT OF PILOT DRILL (OR SOLID DRILL) CONTACTING MAIN

Nominal Size of Pipe to be Cut	Outside Diameter of Cutter	CAST IRON PIPE						STEEL PIPE		ASBESTOS CEMENT PIPE Class 150	
		ASA A21.8-1953 ASA A21.8-1953 AWWA C106-53 AWWA C108-53 Class 150	ASA A21.2-1953 AWWA C102-53 Class 150	AWWA 1908 Stand. Class B	AWWA 1908 Stand. Class D	ASA A21.7-1953 ASA A21.9-1953 Class 10	AGA Old Standard	Schedule 40	Schedule 80		
12"	1½"	1¼	1⅝	1⅝	1½	1¼	1⅝	1¼	1½	2⅝	
	2"	1⅝	1½	1⅝	1¾	1½	1½	1⅝	1⅝		
	2½"	1⅝	1¾	1¾	2	1⅝	1¾	1⅝	1⅝		
	3"	1¾	1⅞	1⅞	2	1¾	1¾	1⅝	2		
	3½"	1¾	1⅞	2	2⅞	1¾	1⅞	1¾	2		
	4"	1¾	1⅞	1⅞	2	1¾	1¾	1⅝	2		2¼
	5½"	2¼	2¼	2⅞	3	2¼	2¼	2⅞	3		
	6"	2⅞	3	3	3⅞	2⅞	2⅞	2¾	3⅞	3½	
	7½"	3⅞	3½	3½	3⅞	3⅞	3⅞	3¼	3⅞	4⅞	
	8"	3½	3⅞	3⅞	3¾	3½	3⅞	3½	3⅞		
	9½"	4¼	4½	4½	4⅞	4¼	4⅞	4⅞	4¾		
	10"	4½	4⅞	4¾	4⅞	4½	4⅞	5⅞	5⅞		5¼
10¾"	5	5¼	5⅞	5½	5	5⅞	5⅞	5⅞			
12"	6⅞	7¼	7½*	7⅞*	6⅞	6⅞	7⅞*	7⅞*	8 *		
14"	1½"	1¼	1⅝	1½	1⅝			1¼	1½		
	2"	1½	1⅝	1⅝	1¾			1⅝	1¾		
	2½"	1⅝	1¾	1⅞	2			1⅝	1⅞		
	3"	1⅝	1⅞	1⅞	2			1⅝	2		
	3½"	1¾	1⅞	2	2⅞			1¾	2		
	4"	1¾	1⅞	1⅞	2			1⅝	2		
	5½"	2⅞	2¾	2¾	3			2⅞	3	3½	
	6"	2¾	2⅞	2⅞	3			2¾	3⅞		
	7½"	3⅞	3¼	3¼	3½			3⅞	3½		
	8"	3¼	3⅞	3½	3⅞			3⅞	3¾		4
	9½"	3⅞	4	4⅞	4¼			4	4½		
	10"	3⅞	4⅞	4¼	4⅞			4⅞	4⅞		4¾
10¾"	4¼	4⅞	4½	4¾			4¼	5⅞	4¾		
12"	4⅞	5	5¼	5⅞			5⅞	6½		5⅞	
16"	1½"	1⅝	1½	1½	2	1¼	1⅞	1¼	1⅞		
	2"	1½	1⅝	1⅝	1⅞	1½	1⅞	1½	1¾		
	2½"	1⅝	1⅞	1⅞	2	1⅝	1¾	1⅝	2		
	3"	1¾	1⅞	1⅞	2⅞	1¾	1⅞	1¾	2		
	3½"	1¾	1⅞	2	2⅞	1¾	1⅞	1¾	2⅞		
	4"	1¾	1⅞	1⅞	2⅞	1⅝	1¾	1¾	2		3½
	5½"	2½	2¾	2¾	2⅞	2½	2⅞	2⅞	3		
	6"	2⅞	2¾	2⅞	3	2⅞	2¾	2⅞	3		
	7½"	3	3⅞	3¼	3⅞	3	3⅞	3	3½		
	8"	3⅞	3¼	3⅞	3½	3⅞	3¼	3¼	3⅞	4	
	9½"	3⅞	3¾	3⅞	4	3⅞	3¾	3¾	4¼	4½	
	10"	3⅞	3¾	3⅞	4⅞	3⅞	3¾	3⅞	4¼		
10¾"	3⅞	4	4⅞	4¼	3⅞	4	4⅞	4⅞			
12"	4¼	4½	4⅞	4¾	4¼	4½	4¼	5⅞	5¼		

NOTE: All dimensions are in inches and are the travels required to complete the cuts plus ¼" of over travel unless otherwise noted.

\*These dimensions are based on the shell cutter advancing to the center of the main.

**FOR CC-25, CC-36, C1-25 AND  
C1-36 DRILLING MACHINES**

# TRAVEL CHART

**TRAVEL REQUIRED TO COMPLETE A CUT FOR LATERAL CONNECTION WITH POINT  
OF PILOT DRILL (OR SOLID DRILL) CONTACTING MAIN**

Nominal Size of Pipe to be Cut	Outside Diameter of Cutter	CAST IRON PIPE						STEEL PIPE		ASBESTOS CEMENT PIPE Class 150	
		ASA A21.8-1953 ASA A21.8-1953 AWWA C108-33 AWWA C108-33 Class 150	ASA A21.2-1953 AWWA C102-33 Class 150	AWWA 1908 Stand. Class B	AWWA 1908 Stand. Class D	ASA A21.7-1953 ASA A21.9-1953 Class 10	AGA Old Standard	Schedule 40	Schedule 80		
18"	1½"	1⅞	1½	1½	1¾			1⅞	1¾	2⅝	
	2"	1½	1⅝	1¾	2			1½	1⅞		
	2½"	1¾	1⅞	1⅞	2½			1¾	2½		
	3"	1¾	1⅞	1⅞	2½			1¾	2½		
	3½"	1¾	2	2	2¼			1¾	2½		
	4"	1¾	1⅞	1⅞	2½			1¾	2¼		
	5½"	2½	2¼	2¼	3			2⅝	3	4	
	6"	2⅝	2¼	2⅞	3			2⅝	3⅝		
	7½"	2⅞	3⅝	3⅝	3⅝			3	3⅝		
	8"	3	3¼	3¼	3½			3⅝	4		
	9½"	3⅝	3⅝	3⅝	3⅞			3⅝	4		
	10"	3½	3⅝	3¾	3⅞			3⅝	4⅞		
10⅜"	3⅝	3¾	3⅞	4⅞			3⅝	4⅞	2¾		
12"	3⅞	4⅞	4¼	4⅞			4⅞	4⅞			
20"	2½"	1¾	2	1⅞	2⅞	1¾	1¾	1¾		2⅞	3⅝
	3"	1¾	2	2	2¼	1¾	1⅞	1¾		2¼	
	3½"	1⅞	2	2	2¼	1¾	1⅞	1⅞		2¼	
	4"	1¾	2	1⅞	2⅞	1¾	1¾	1¾		2¼	
	5½"	2½	2¼	2¼	3	2½	2⅝	2½	3		
	6"	2⅝	2⅞	2⅞	3	2⅞	2¾	2⅞	3⅝		
	7½"	2⅞	3⅝	3⅝	3¼	2¾	3	2⅞	3⅝	4	
	8"	3	3¼	3¼	3⅝	3	3	3	3½		
	9½"	3⅝	3½	3½	3¾	3¼	3⅝	3½	4		
	10"	3¼	3⅝	3⅝	3¾	3¼	3⅝	3½	4⅞		
	10⅜"	3½	3¾	3¾	3⅞	3⅝	3½	3⅝	4⅞		
	12"	3¾	4	4	4¼	3¾	3⅞	4	4⅞		
24"	3½"	1⅞	2⅞	2⅞	2¼	1¾	2	1⅞	2⅞	3⅝	
	4"	1⅞	2	2	2¼	1¾	1⅞	1¾	2⅞		
	5½"	2⅞	2¾	2¾	3	2½	2⅞	2⅞	3⅝		
	6"	2⅞	2⅞	2⅞	3⅝	2½	2¾	2⅞	3¼		
	7½"	2⅞	3⅝	3	3⅝	2¾	2⅞	2⅞	3½		
	8"	3	3⅝	3⅝	3⅝	2⅞	3	3	3½		
	9½"	3¼	3½	3⅝	3¾	3⅝	3¼	3¼	3⅞	4	
	10"	3¼	3⅝	3⅝	3⅝	3⅝	3¼	3⅝	3⅞		
	10⅜"	3¼	3½	3½	3¾	3¼	3⅝	3⅝	4		
	12"	3½	3⅝	3⅝	4	3⅝	3½	3⅝	4⅞		

NOTE: All dimensions are in inches and are the travels required to complete the cuts plus ¼" of over travel unless otherwise noted.



# TRAVEL CHART

**FOR CG-25, CG-36, C1-25 AND  
C1-36 DRILLING MACHINES**

**TRAVEL REQUIRED TO COMPLETE A CUT FOR LATERAL CONNECTION WITH POINT  
OF PILOT DRILL (OR SOLID DRILL) CONTACTING MAIN**

Nominal Size of Pipe to be Cut	Outside Diameter of Cutter	CAST IRON PIPE						STEEL PIPE		ASBESTOS CEMENT PIPE Class 150
		ASA A21.2-1953 ASA A21.8-1953 AWWA C104-53 AWWA C108-53 Class 150	ASA A21.2-1953 AWWA C102-53 Class 150	AWWA 1908 Stand. Class B	AWWA 1908 Stand. Class D	ASA A21.7-1953 ASA A21.9-1953 Class 10	AGA Old Standard	Schedule 40	Schedule 80	
30"	3½"	2	2¼	2¼	2¾	1¾	2			
	4"	1¾	2½	2½	2¾	1¾	1¾			
	5½"	2¾	2¾	2¾	3½	2½	2½			
	6"	2¾	3	2¾	3½	2¾	2¾			
	7½"	2¾	3½	3	3¼	2¾	2¾			
	8"	3	3¼	3½	3¾	2¾	3			
	9½"	3½	3¾	3¾	3¾	3	3½			
	10"	3½	3¾	3¾	3½	3	3½			
	10¾"	3½	3¾	3¾	3¾	3	3½			
	12"	3¼	3½	3½	3¾	3½	3¼			
36"	3½"	2½	2¾	2¼	2¾	2	2½			
	4"	2	2¼	2¼	2½	1¾	2			
	5½"	2¾	3	2¾	3¾	2¾	2¾			
	6"	2¾	3	3	3¾	2¾	2¾			
	7½"	2¾	3½	3½	3½	2¾	2¾			
	8"	3	3¼	3½	3¾	2¾	3			
	9½"	3½	3¾	3¾	3¾	3	3½			
	10"	3½	3¾	3¼	3¾	3	3½			
	10¾"	3½	3¾	3¼	3¾	3	3½			
	12"	3½	3¾	3¾	3¾	3	3¼			

NOTE: All dimensions are in inches and are the travels required to complete the cuts plus ¼" of over travel unless otherwise noted.

USASI Standard B36.10-1965 does not list 30" and 36" sizes in Schedule 40 or Schedule 80 pipe.