

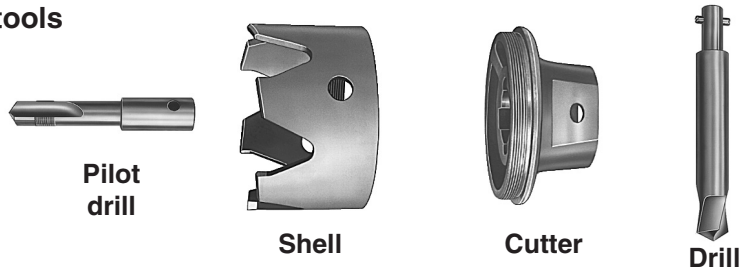
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Mueller Co. **MUELLER® C1-36-99002 DRILLING MACHINE SHELL CUTTERS, DRILLS & EQUIPMENT KIT**

Rev. 9-09

MUELLER C1-36-99002 Drilling Machine tools

The MUELLER C1-36-99002 Drilling Machine equipment shown below is used to make lateral connections to mains by cutting through tapping sleeves and valves, gate valves and standard fittings.



Shell cutters and drills to install tapping sleeves and valves

Material of pipe to be cut	Equipment	Size of valve or fitting														
		2"	2-1/4"	3"	4"	6"	8"	10"	12"							
Size of shell cutter or drill		1-1/2"	2"	2-1/4"	2-1/2"	3"	3-1/2"	4"	5-1/2"	6"	7-1/2"	8"	9-1/2"	10"	10-13/16"	12"
Cast or ductile iron pipe	Shell cutter	-	-	-	51899	55693	51903	50816	63787	55266	51897	52754	-	80547	80548**	80549
	Cutter hub	-	-	-	88338	88101	88340	54526	63978	54501	33996	54653	-	54661	33107	54491
	Pilot drill	-	-	-	33976	33976	33976	59844	59845	59845	64245	64245	-	74871	74871	74871
	Drill	88341	88346	88342	-	-	-	-	-	-	-	-	-	-	-	-
Size of shell cutter or drill		-	-	-	-	-	3-1/2"	4"	5-1/2"	6"	7-1/2"	8"	9-1/2"	10"	11-1/2"	12"
Cement-lined cast or ductile iron, A-C and concrete pipe	Shell cutter†	-	-	-	-	-	83203*	83114	83134*	80545	83135*	80546	83140*	80547	83141*	80549
	Cutter hub	-	-	-	-	-	83202	54526	63740	54501	63739	54653	64240	54661	33107	54491
	Pilot drill	-	-	-	-	-	83201*	59849	83056*	74869	83056*	64245	83137*	74871	83139	74871
Size of shell cutter or drill		-	-	-	-	-	3-1/2"	4"	5-1/2"	6"	7-1/2"	8"	9-1/2"	10"	11-1/2"	12"
Cement-lined cast or ductile iron, A-C and concrete pipe	Equipment Kit	-	-	-	-	-	682324		682325		682326		682327		682328	
	Shell cutter***	-	-	-	-	-	83203		83134		83135		83140		83141	
	Cutter Hub***	-	-	-	-	-	83202		63740		63739		64240		33107	
	Pilot drill***	-	-	-	-	-	83201		83056		83056		83137		83139	
	MJ Valve Adapter***	-	-	-	-	-	83368		83369		83370		83371		83372	
Shell cutter OD††		-	-	-	-	-	3.3"		5.0"		6.6"		8.3"		10.0	
PVC/PEP	Shell cutter	-	-	-	-	-	537061		537062		682581		682583		682585	
	Pilot shell cutter	-	-	-	-	-	681919		681919		681919		681919		681919	
	Pilot Drill Extension	-	-	-	-	-	537068		537069		537069		537070		537070	
	Pilot Drill Holder	-	-	-	-	-	537082		537082		537082		537082		537082	
	Cutter Hub	-	-	-	-	-	83202		83202		83202		83202		83202	

Shell cutters to install tapping sleeves and valves

Material of pipe to be cut	Equipment	Size of valve or fitting				
		14"	16"	18"	20"	24"
Size of shell cutter or drill		12"	14-1/2"	17-1/2"	18-1/2"	18-1/2"
Cast or ductile iron pipe	Shell cutter	80549**	83911*	89883*	83915*	83915*
	Cutter hub	54491	83909	581577	83917	83917
	Pilot drill	74871	83910	83916	83916	83916
Size of shell cutter or drill		-	14-1/2"	17-1/2"	18-1/2"	18-1/2"
Cement-lined cast or ductile iron, A-C and concrete pipe	Shell cutter†	-	83911*	89883*	83915*	83915*
	Cutter hub	-	83909	581577	83917	83917
	Pilot drill	-	83910	83916	83916	83916

*Tungsten carbide tipped tool.

**High speed steel tipped - DO NOT use on cement lined pipe, A-C pipe or concrete pipe.

***Included in the Equipment Kit

†The outside diameter of these shell cutters is 1/2" less than the nominal size of the valve or fitting. This greatly reduces the wear on the outside edge of these cutters when making a lateral connection the same size as the main to be cut. It also reduces travel required to make a cut.

††Shell cutters for use on plastic pipe only.

Note: Mueller recommended cutting grease is available in pints (88366).

WARNING: Use on A-C pipe, which contains a known carcinogen, requires appropriate protective equipment and procedures be employed.