



MUELLER

EZ-TAP™ Drilling Machine

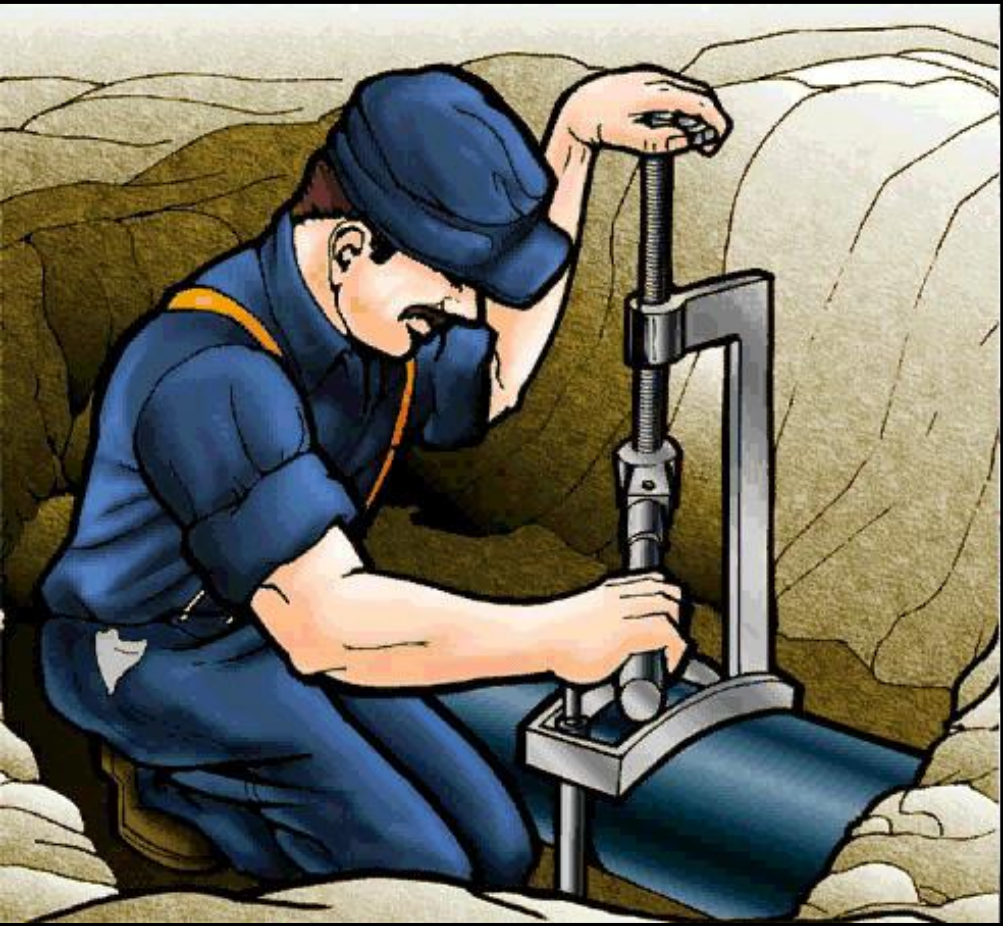
“Tapping Never Been Easier Live or Dry”

Department of Environment & Climate Change
Water and Wastewater Workshop
March 28th - 30th, 2023
Gander, Newfoundland & Labrador, Canada

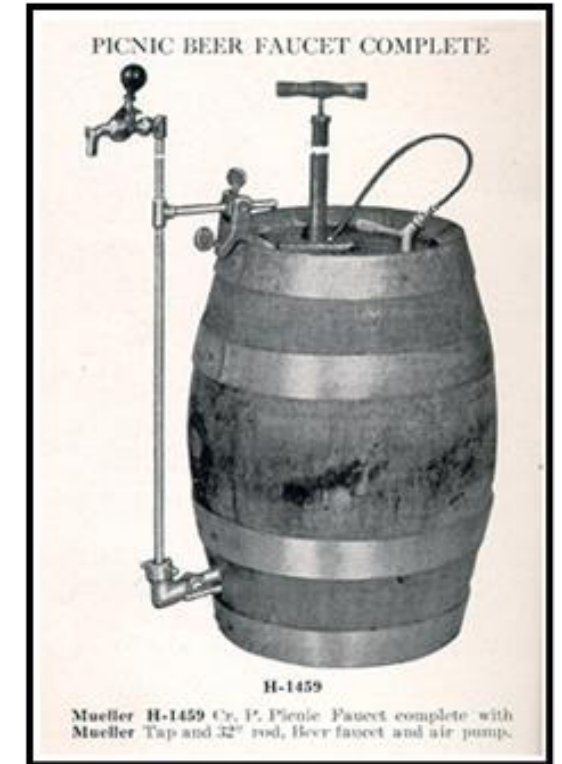
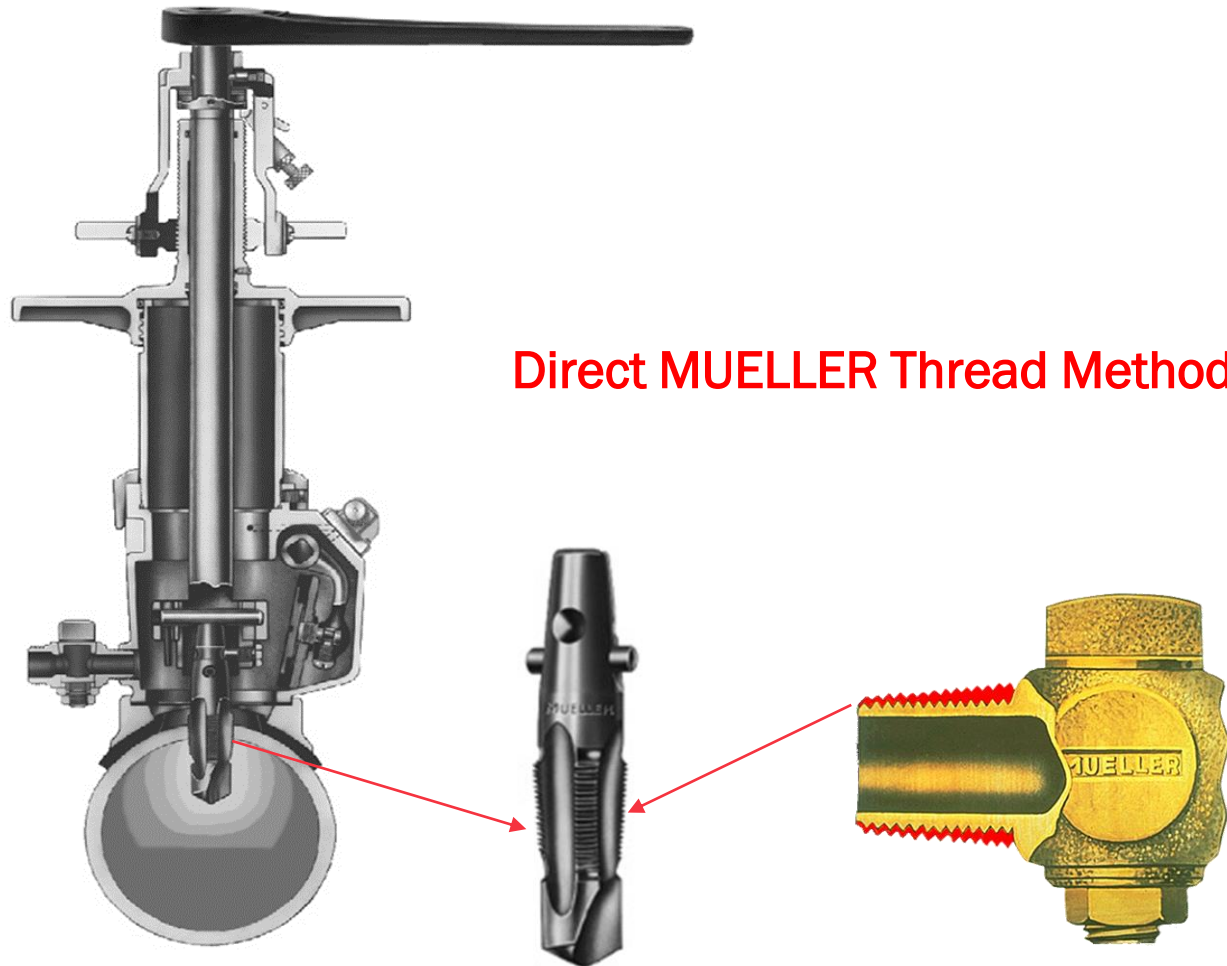
Presenter: Jeff B. Jensen, MUELLER Water Products

History of Service Connections on Water Mains – 1850 circa

Corporation Cock Hammer Method cw Swedge Lead Joint.....seriously



MUELLER found a better way...1871 circa to present day



Mueller Good Time Method

MUELLER Service Connection Methods; Direct vs. Saddle

DIRECT THREAD METHOD

B101 & H603 POWER OPERATOR SHOWN WITH RELIABLE LEROY

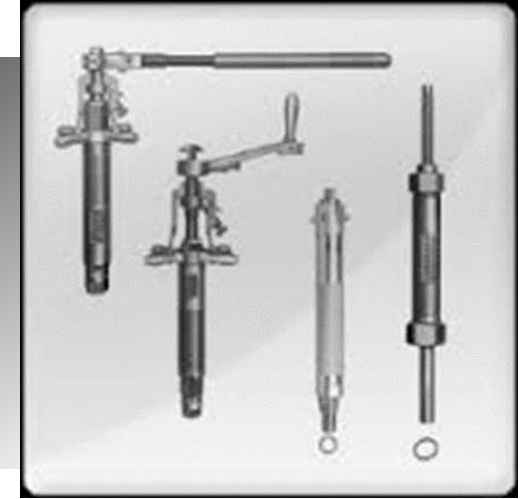


- No service Saddle – thread the pipe
- In depth process start to finish
- Heavy machine
- Tribal knowledge aids hot taps
- Lengthy process

SADDLE DRILLING METHOD

SADDLE/CORP. STOP/TUBE SHOWN LEFT

D5/E5/MEGA-CUT/TRU-CUT SHOWN RIGHT



- Service Saddle required
- Simple process consistent rule of thumb
- Light weight machine available
- Learn and Go
- Quick

Service Saddles – wide vary of industry options

DUCTILE & SS STRAP

- High Galvanic level
Sturdy fit = zero flex



BRASS & SS STRAP

- Wide range of Pipe types
Body material = Corp Stop



BRASS & BRASS STRAP

- Lowest Galvanic level



BRASS - PVC OD

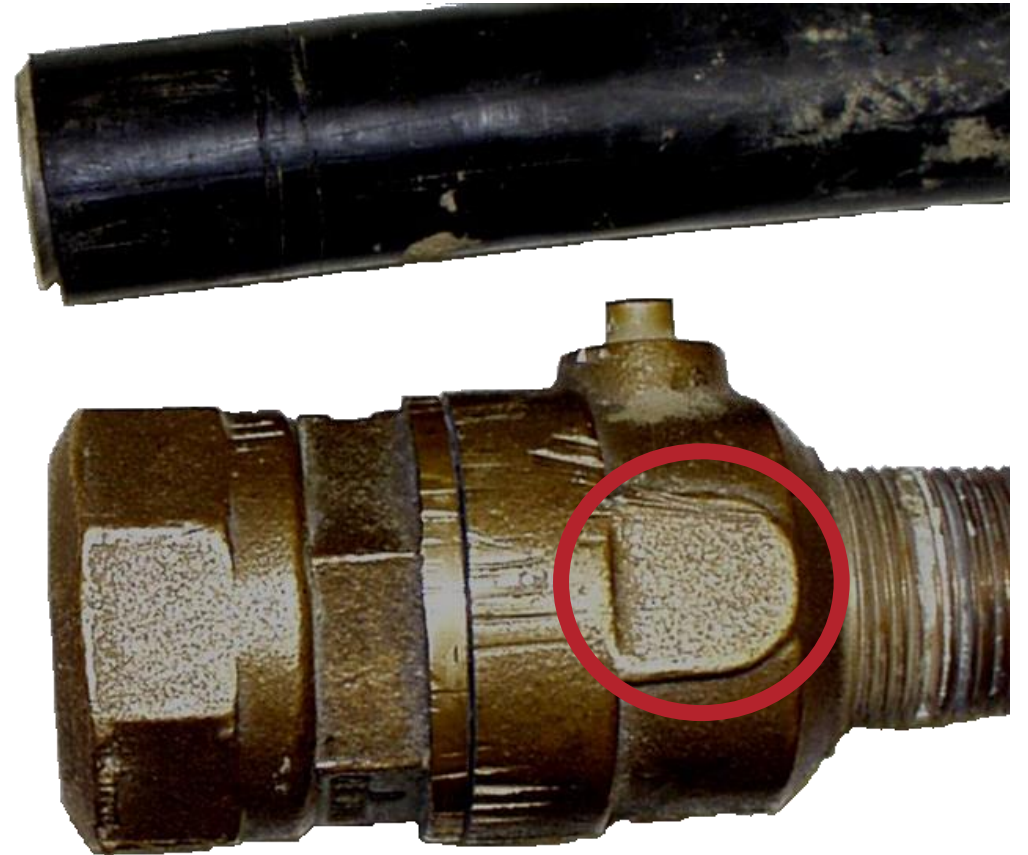
- Will not distort PVC O Pipe
Saddle material = Corp stop



Corporation Stop Best Practice

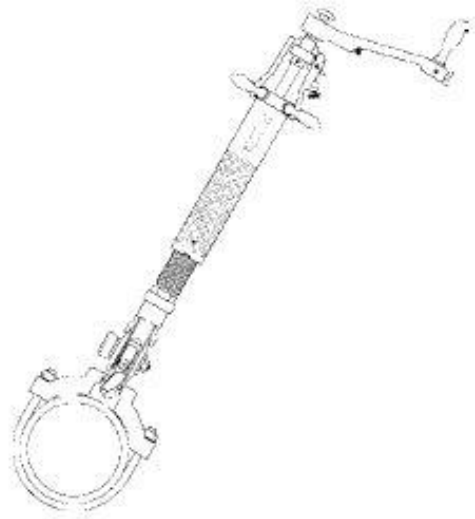


- Do not use seam to tighten



- Use provided wrench flats to insert

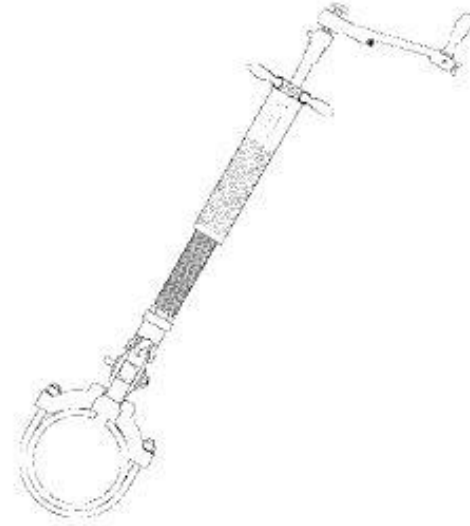
Saddle Drilling Machines – Pick a gun and go to work



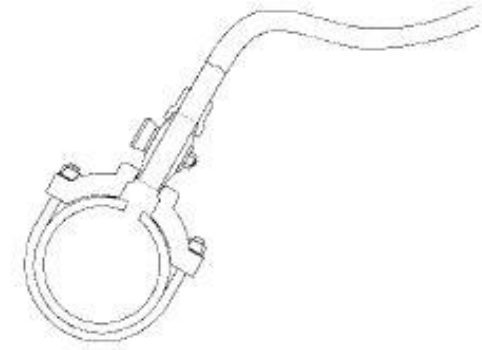
- With the service saddle attached to the main, the corporation stop is threaded into the clamp. The machine is then mounted on the corporation stop using an adapter nipple, and the stop is opened.



- The main is drilled out under pressure.



- The boring bar of the machine is retracted and the corporation stop is closed to control the water. The machine is removed.



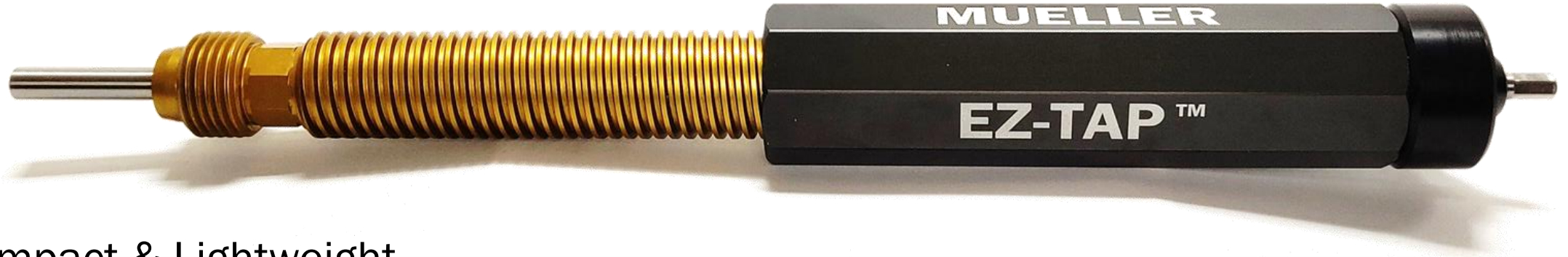
- The service line is attached to the outlet of the corporation stop and the stop is opened to activate service.

Saddle connection method;
Small diameter MUELLER Drilling Machine offering

Machine	cost	Sizes	Pipe Type	Pressure	Operator
EZ Tap	\$\$ \$	3/4" - 2"	All	300psi	Hand/power
Tru-Cut/PL-2	\$ \$\$	3/4" - 1"	PVC only	200psi	hand
Mega-Cut	\$\$ \$\$\$	7/16" - 1 7/8"	All	200psi	hand
E-5	\$\$\$\$ \$\$\$	7/16" - 1 7/8"	All	500psi	Hand/power
D-5	\$\$\$\$\$ \$\$\$	5/8" - 2"	All	500psi	Hand/power

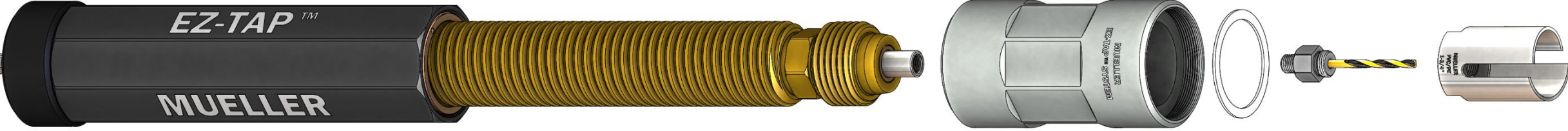
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Product Overview

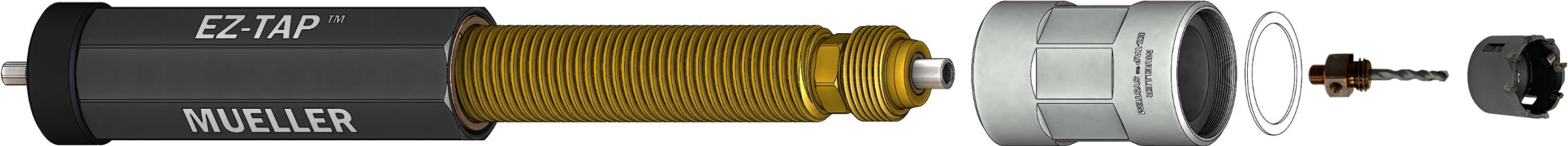


- Compact & Lightweight
- Designed specifically for water application
- Used with service saddles and corporation stops
- Turnkey solution that will fit any small drilling machine needs
- Proven Mueller dependability
- Made Decatur, USA

EZ-TAP Machine Assembled - PVC Configuration



EZ-TAP Machine Assembled - DI Configuration



EZ-TAP Machine Kit1

ID	Part No.	Description
-	683283	EZ-TAP Machine Kit
1	683243	EZ-TAP Drilling Machine
2	683244	3/4" CTS Outlet: 110, PJ, GJ, Flare
3	683245	1" CTS Outlet: 110, PJ, GJ, Flare
4	683246	3/4" IPS Outlet: 110, PJ, GJ
5	683247	1" IPS Outlet: 110
6	538952	Gasket for 683244
7	538953	Gasket for 683245
8	538954	Gasket for 683246

ID	Part No.	Description
9	538955	Gasket for 683247
10	683265	PVC Shell Cutter Adapter for 5/8", 7/8", and 1-1/16" Cutters
11	683254	Non-Plastic ³ Shell Cutter Adapter for 11/16" and 7/8" Cutters
12	538975	3/4" Corporation PVC Shell Cutter (5/8" diameter)
13	538976	1" Corporation PVC Shell Cutter (7/8" diameter)
14	313839	3/4" Corporation Non-Plastic ³ Shell Cutter (11/16" diameter)
15	313840	1" Corporation Non-Plastic ³ Shell Cutter (7/8" diameter)
16	313853	Boring Bar Drive Socket
17	313852	Power Operator Socket Adapter



EZ-TAP Large Diameter Kit2



ID	Part No.	Description
-	683284	EZ-TAP Large Diameter Kit (Less Machine)
1	683248	1" IPS Outlet: PEP/PVC, PJ, GJ 1-1/4" CTS Outlet: PJ, GJ, Flare
2	683249	1-1/4" CTS Outlet: 110
3	683250	1-1/4" IPS Outlet: PJ 1-1/2" IPS Outlet: PEP/PVC 1-1/2" CTS (CS) Outlet: 110, PJ, Flare
4	683251	1-1/2" CTS Outlet: 110, PJ, GJ
5	683252	1-1/2" IPS Outlet: PJ 2" CTS Outlet: 110, PJ, GJ
6	683253	2" IPS Outlet: PEP/PVC, PJ 2" CTS Outlet: 110, Flare, PJ (CS)
7	538956	Gasket for 683248
8	538957	Gasket for 683429
9	538958	Gasket for 683250
10	538959	Gasket for 683251
11	538960	Gasket for 683252
12	538961	Gasket for 683253

ID	Part No.	Description
13	683266	PVC Shell Cutter Adapter for 1-3/8" and 1-3/4" Cutters
14	683255	Non-Plastic ³ Shell Cutter Adapter for 1-1/8", 1-3/8", and 1-3/4" Cutters
15	538977	1-1/4" Corporation PVC Shell Cutter (1-1/8" diameter)
16	538978	1-1/2" Corporation PVC Shell Cutter (1-3/8" diameter)
17	538979	2" Corporation PVC Sheller Cutter (1-3/4" diameter)
18	683256	1-1/4" Corporation Non-Plastic ³ Shell Cutter (1-1/8" diameter)
19	683257	1-1/2" Corporation Non-Plastic ³ Shell Cutter (1-1/8" diameter)
20	683258	2" Corporation Non-Plastic ³ Shell Cutter (1-3/4" diameter)
21	313868	Spare PVC Pilot Drill
22	313837	Spare Non-Plastic ³ Pilot Drill

Recommended Right-Angle Cordless Drills for non-PVC pipes

1st Option

Makita XAD03PT



2nd Option

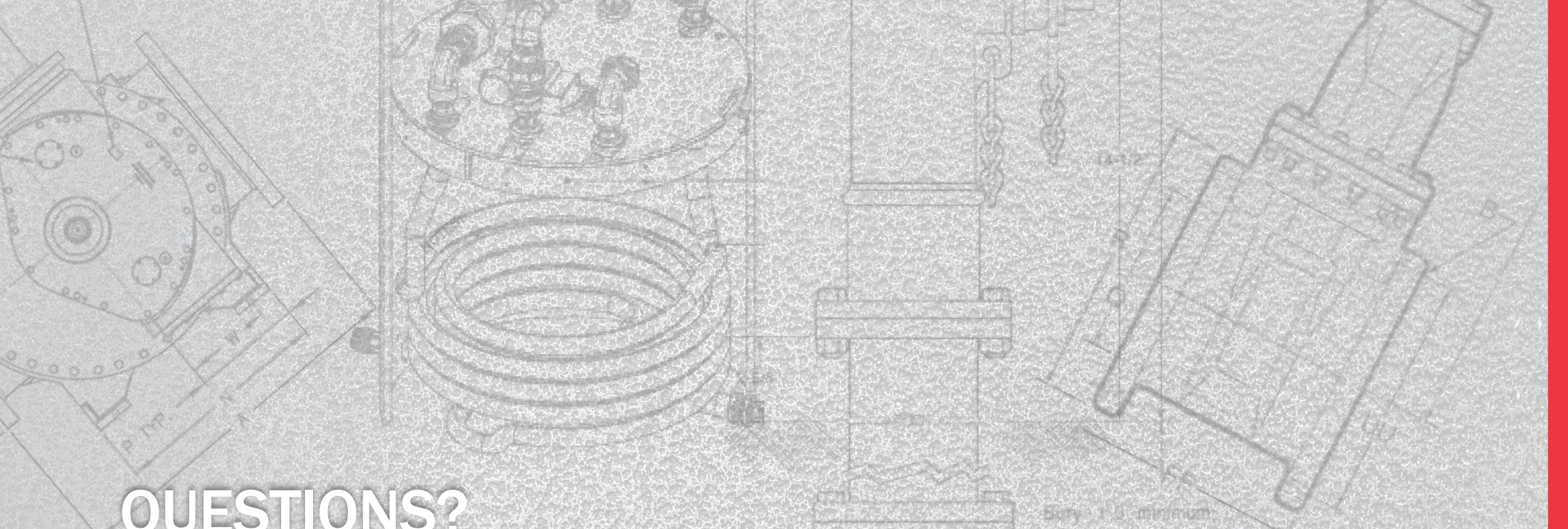
DeWalt DCD470X1



3rd Option

Milwaukee 2809-22





QUESTIONS?