

Description

Tapping machines are used for making connections to pipelines, tanks, and plant piping without shutdown and to make hot taps in preparation for plugging machine application.

The 860 Tapping Machine is hydraulically operated and is used for making pipe and tank taps from 4- to 20-inch (DN80 to DN500). It includes an electric start, diesel power unit. Its maximum working pressure is 1,480 psi (100 bar) at 100° F (38° C). Its operating

Boring Bar Travel	66-inches (1,676 mm)
Tank Taps*	4- through 12-inch (80-300 mm)
Pipe Taps*	4- through 20-inch (80-500 mm)
Max. Operating Pressure	1,480 psi (100 bar) at 100° F (38° C)
Max. Operating Temperature	700° F (371° C) at 700 psi (48 bar)**
Power	Hydraulic
Feed Rate	.005-inch (.127 mm) per revolution
"Lower-In" Crank	4-1/2 turns per inch (5.6 mm per turn)
Length without measuring rod	88-1/2-inches (2,248 mm)
Length with measuring rod	158-1/2-inches (4,026 mm)
Meets NACE specification	MR0175-2000

^{*} See note 5 in "Recommended Power Options" Chart.

Hydraulic Operation Model (Std)	Sta	Standard Feed (.005-in./Revolution)			
	Lb.	Kg.	Part Number		

^{**} For intermittent service only. Its maximum continuous rating in B5(077) C) at 1,025 psi (70 bar).





860 Tapping Machine Model 860c

Standard Universal Adapters for SANDWICE and Ball Valves

(Capable of Setting LOCK-O-RING® and LOCK-O-RING® Plus Completion Plug)

		ASME Class 300 RF Flange			ASN	1E Class	600 RF Flange
Inches	mm	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number
4	100	75	34	26-3205-0430	85	39	26-3205-0460
6	150	100	45	26-3205-0630	130	59	26-3205-0660
8	200	125	57	26-3205-0830	170	77	26-3205-0860
10	250	210	95	26-3205-1030	285	129	26-3205-1060
12	300	300	136	26-3205-1230	375	170	26-3205-1260
14	350	350	159	26-3205-1430	425	193	26-3205-1460
16	400	490	222	26-3205-1630	610	277	26-3205-1660
18	450	690	299	26-3205-1830	800	363	26-3205-1860

Special Shortened Adapters for Gate Valves

ASME Class 150 RF Flange			ASM	ИЕ Cla	ass 300 RF Flange	;	ASME	Class	s 600 RF Flange			
	Inches	mm	Lb.	Kg	Part Number	Lb.	K	g. Part Numbe	r	Lb.	Kg.	Part Number
	4	100	57	26	06-6102-0004*	65	29	06-6103-0004	80	36	06	-5091-0004
	6	150	70	32	06-5088-0006*	95	43	06-6103-0006	146	66	06-	5091-0006
	8	200	85	39	06-6102-0008*	100	45	06-6103-0008	150	68	06-	6105-0008
	10	250	115	42	06-6102-0010*	155	70	06-6103-0010	200	91	06-	6105-0010
	12	300	170	77	06-6102-0012*	215	98	06-6103-0012	315	143	06-	6105-001 2
	14	350	191	87	06-6102-0014	227	103	06-6103-0014	359	163	06	-6105-0014
	16	400	300	136	06-6102-0016	350	160	06-6103-0016	46	0 210	06	6-6105-00 <mark>16</mark>

26-3205-2030

Consult the factory for 18 in. and 20 in. adapterrs.

Cutter Holders & LOCK-O-RfNraug Holders

			Cutter Ho	lders	LC	OCK-O-RINN	ig Holders
Inch	es mm	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number
4	100	2.5	1	05-1168-0000	3.5	2	05-0075-0000
6-1	2 150-300	9	4	05-1167-0000	3.5	2	05-0075-0000
14-2	20 350-400	16	7	05-1166-0000	10	4.5	05-1044-0000

LOCK-O-RINPPlus Plug Holders

		C	utter Holde	ers	LOC	(-O-RIMPGis	Plug Holders	
Inches	mm	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number	
4-6	100-150	2.5	1	05-1168-0000			12373178	
8-20	200-500	9	4	05-1167-0000			12354463	



The new splined drive provides much gree strength to the end of the boring bar, as it turns the cutter.



26-3205-2060

■ Split Frame Feature

The frame assembly is split at the lower end, so that the lower section can be unbolted and removed over the drive tube and boring bar and the packing replaced.

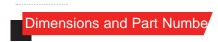


 $^{^{\}star}$ Will work on SHORTCUTValves, Bulletin 2010.000.00

Notes

- 1. The following letters represent:
 - A = Carbon steel pipe SMYS (Specified Minimum Yield Strength) 30,000 to 50,000 psi, maximum tensile strength of 70,000 psi.
 - B = Carbon steel pipe SMYS 50,000 to 70,000 psi, maximum tensile strength of 90,000 psi.
 - C = Cast iron pipe. Cutting characteristics vary widely; hard to predict.
- 2. The table (above) is based on the latest TDW designs and past experience. The data should be used as a guidelbreenThæret widt/be, conditions which will not strictly follow the guidelines.
- 3. Special pipeline material, such as chrome-moly, or 300 stainless steel, will require special equipment and procettines (Commendations).
- 4. When tapping a larger pipe or tank, the cutter will sometimes go through the flat-plate condition. For example, callttlegthtathe same time. This is the most power-consuming condition possible and special cutters may be required. Considering cutter size, diameter of cylinder, wall thickness three times to construction, etc., the possibilities are infinite. The following table gives some examples of flat-plate conditions. Any pipe or tank with wall thickness three times three times three times three times.

Cutter Size	(in.) Nom. Pipe x Wall	Nom. Pipe	x Wall Nom. Pipe x Wall
4	6" x .481"	8" x .357"	10" x .282"
6	10" x .748"	12" x .616"	14" x .556"
8	18" x .776"	20" x .692"	24" x .571"





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