

## 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.

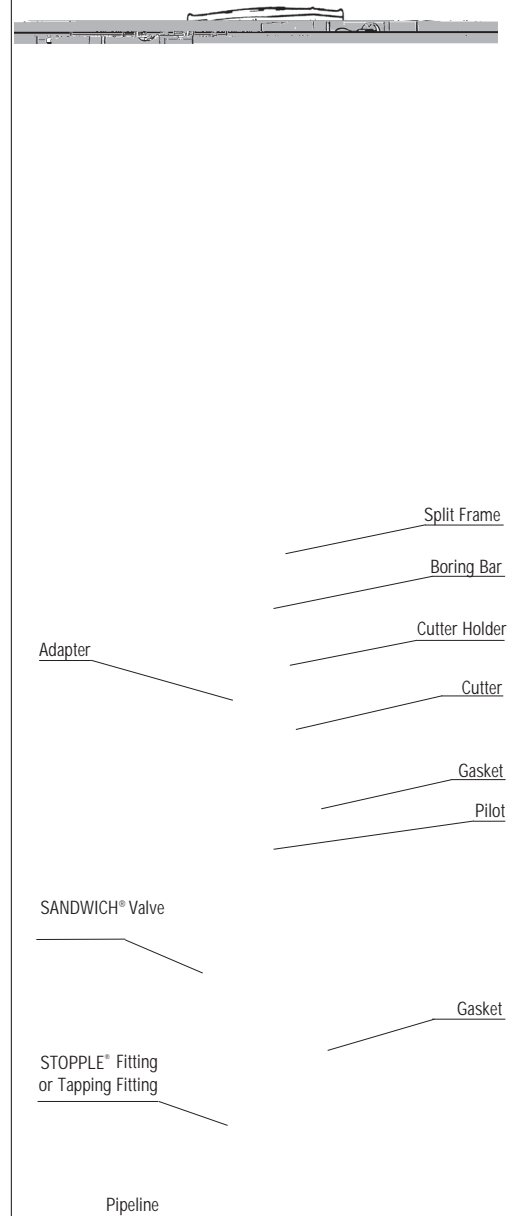
The 860 Tapping Machine is hydraulically operated and is used for making pipe and tank taps from 4- to 20-inch (DN 80 to DN 500). It includes an electric start, diesel power unit. Its maximum working pressure is 1,480 psi (100 bar) at 100° F (38° C). Its operating temperature is -20° F (-9° C) to 700° F (371° C) at 700 psi (48 bar) for intermittent service. Its maximum continuous rating is 350° F (177° C) at 1,025 psi (70 bar).

This model features a split frame for lower maintenance costs and ease of packing replacement. The tapping machine power unit is compliant with EPA Tier 4 emission standards, has an emergency air shut-off valve and a four point lift system.

## Features

The basic machine includes:

- "Lower-in" crank
- Measuring rod
- Retainer rod pusher
- Ring gasket
- Bleeder valve and nipple
- Motor adapter
- Set of bolts and nuts
- LOCK-O-RING® bypass gauge
- Convenient storage with tapping machine atop power unit
- Speed control without changing power unit RPM
- Pendant Control System (50 ft.)



## Dimensions and Part Numbers

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## Dimensions and Part Numbers

### Special Shortened Adapters for Gate Valves

Inches	mm	ASME Class 150 RF Flange			ASME Class 300 RF Flange			ASME Class 600 RF Flange		
		Lb.	Kg.	Part Number	Lb.	Kg.	Part Number	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	06-6105-0012
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	460	210	06-6105-0016

\* Will work on SHORCUTT® Valves, Bulletin 2010.000.00

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

**Standard Cutters & Pilot Drills**

Nominal Tap Size		Actual Size		Cutters			Pilot Drills			Spare U-Rods
Inches	mm	Inches	mm	Wt./Lb.	Wt./Kg.	Part Number	Wt./Lb.	Wt./Kg.	Part Number	Part Number
4	100	3-7/16	87.3	2	0.9	05-0328-0004	1/2	0.2	05-0293-0008	00-1424-0012
6	150	5-15/32	138.9	5-3/4	3	05-0328-0006	2	0.9	05-0293-0002	00-1424-0003
8	200	7-5/16	185.8	14-1/2	7	05-0328-0008	2	0.9	05-0293-0003	00-1424-0003
10	250	9-1/2	241.3	22-1/2	10	05-0328-0010	2	0.9	05-0293-0004	00-1424-0003
12	300	11-1/2	292.1	36	16	05-0389-0012	2-1/2	1.0	05-0293-0005	00-1424-0008
14	350	12-3/4	323.9	42	19	05-0389-0014	5-1/2	2.5	05-0294-0002	00-1424-0008
16	400	14-11/16	373.1	61	28	05-0389-0016	6	2.7	05-0294-0003	00-1424-0008
18	450	15-1/16	383	53-1/2	24	05-0388-0016	6	2.7	05-0294-0003	00-1424-0008
20	500	17	432	84	38	05-0388-0018	6-1/2	3	05-0294-0004	00-1424-0008

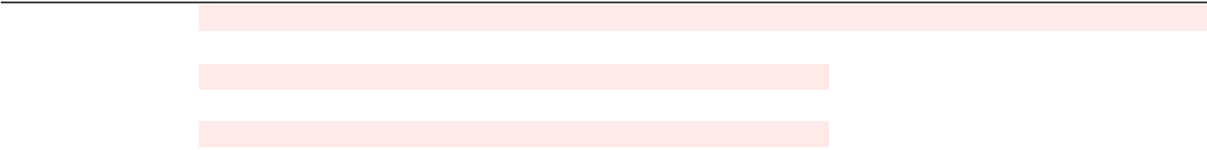
**SHORTSTOPP® Cutters & Pilot Drills**

4	100	3-7/8	98.4	3-1/4	1	05-0330-0004	1/2	0.2	05-0293-0008	00-1424-0012
6	150	5-7/8	149.2	8-3/4	3	05-0330-0006	2	0.9	05-0293-0002	00-1424-0003
8	200	7-3/4	196.9	20	9	05-0330-0008	2	0.9	05-0293-0003	00-1424-0003
10	250	9-3/4	247.7	23	10	05-0330-0010	2	0.9	05-0293-0004	00-1424-0003
12	300	11-3/4	298.5	40	18	05-0330-0012	2-1/2	1.0	05-0293-0005	00-1424-0003

**STOPPLE® Cutters & Pilot Drills**

4	100	3-15/16	100	3-1/2	2	05-0329-0004	1/2	0.2	05-0293-0008	00-1424-0012
6	150	5-15/16	150.8	9	4	05-0329-0006	2	0.9	05-0293-0002	00-1424-0003
8	200	7-7/8	200	16	7	05-0329-0008	2	.09	05-0293-0003	00-1424-0003
10	250	9-7/8	200.8	27	12	05-0329-0010	2	0.9	05-0293-0004	00-1424-0003
12	300	11-13/16	300.1	40-1/2	18	05-0388-0012	2-1/2	1	05-0293-0005	00-1424-0008
14	350	13-1/16	331.8	49	22	05-0388-0014	5-1/2	2.5	05-0294-0002	00-1424-0008
16	400	15-1/16	382.6	64	29	05-0388-0016	6	2.7	05-0294-0003	00-1424-0008
18	450	17	432	84	38	05-0388-0018	6-1/2	3	05-0294-0004	00-1424-0008
20	500	19	483	98	45	05-0388-0020	7-1/2	3	05-0294-0005	00-1424-0008

## Dimensions and Part Numbers



### Notes

- 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.
  - D = Chrome-moly, high temperature, steel pipe.
  - E = 300 series stainless steel pipe.
  - F = Flat plate cuts using special cutters on the materials listed above (refer to Notes 3 and 4). Pilot drill must be through before cutter tooth engages material.

