904 Tapping Machine

Tapping Sizes: 1/2- to 4- inches

Model 904B



T.D. Williamson
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Description

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

The 904 Drilling Machine is a manual or power-driven machine which taps into pipe while under pressure. It is used for making 1/2-through 4-inches (DN 15 - DN 100) taps without shutdown. It can be used to install 2-inch and 3-inch completion plugs in tapping nipples to permit recovery of tapping valves and to install TDW PIG-SIG® Scraper Passage Indicators.

Features

The Model 904B Drilling Machine is available in the XL Model with 28-inches of travel.

The 904B Drilling Machine meets NACE Standard MR0175-2002, sulfide stress cracking resistant metalic material for oilfield equipment. The maximum working pressure is 2,220 psi (153 bar) at 100°F (38°C). Its operating temperatures are -20°F (-29°C) to 180°F (82°C) for intermittent service. The maximum continuous rating is 180°F (82°C) at 1,025 psi (48 bar).

The 904B Drilling Machine is a high pressure balanced machine. At this high pressure, it is limited to a maximum of 4-inch (DN 100) taps. For special requirements, such as higher pressure or temperature, consult the factory.

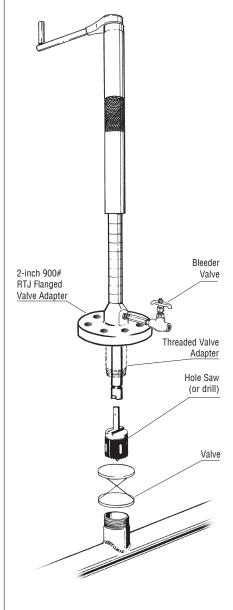
Other features include:

- Lightweight 85 pounds (39 kg)
- Versatile 1/2- through 4-inch taps
- Operates to 2,220 psi

Options

T.D. Williamson Inc. is committed to providing you with the exact product to assist you in planning, budgeting and meeting the specifications for your individual application needs. The following options are available:

■ The 904B Drilling Machine is furnished with a ratchet crank for manual operation. An optional hose-connected, hand-held air motor can be easily added or a hand held hydraulic drive option is available





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Orilling Machine	Item	Wt./ Lb.	Wt./Kg.	Part Number
ON	904B XL Drilling Machine	85	39	05-1046-0000
	Includes: Ratchet Crank			00-1443-0001
	Сар			05-1028-0046
	Bleeder Valve			00-0774-0001
	Nipple			00-0220-0001
	Packing Wrench			05-0184-0020
	Optional Equipment:			
	Air Motor	8	4	00-1508-0004
	Hydraulic Drive (w/ 60' Hoses)	30	14	05-1026-0000
	Drive Socket			00-1509-0004
The cap locks the feed and rotation of machine	Steel Carrying Case (XL)	20	9	05-2152-0000
to set and retrieve	Plug Holder for 2" THREAD-O-RING ^T	Plug Holder for 2" THREAD-O-RING™ Plug		05-0185-0001
completion plugs.	Plug Holder for 2" and 3" SHORTSTO	Plug Holder for 2" and 3" SHORTSTOPP® Completion Plug		

Maximum Operating Pressure	2220 psi (153 bar) @ 100°F (38°C)
Maximum Operating Temperature	180°F (82°C) @ 700 psi (48 bar)

		Standard Model (XL)		
Drilling Machine Specifications	Item	Inches mm		
	Boring Bar Travel	28 711		
	Overall Length	70 3/4 1797		
	Boring Bar Extension/Revolution	0.125 3.2		
	Feed Mechanism	Hand-Fed Machine		
	2-inch 900# Flange	Standard		
	2-inch NPT Adapter	Standard		

Accessories for PIG-SIG® IV Installation	Item	Part Number	
	Drill for wall thickness more than 3/8 in. (9.5mm)	05-0193-0001	
	Valve Adapter for Cutter or Drill - for use on 2 in. (50 mm) threaded valve	00-0706-0016	
	2 in. (50 mm) THREAD-O-RING™ Plug Holder	05-0185-0001	
	2 in. (50 mm) ASME Class 600 conventional valve with 2-1/16 in. (53mm) through-bore is recommended for use in making		

PIG-SIG® IV Taps.

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	Drill D	iameter	Drill L	ength	Valve	Size	
Drills	Inches	DN	Inches	mm	Inches		Part Number
	1/2	12.7	6	150	1-1/4 -		05-0203-0005
	1/2	12.7	22-1/4	565	1		05-0189-0001
	3/4	19.0	6	150	1-1/4 -		05-0203-0009
	3/4	19.0	22-1/4	565	1	25	05-0189-0002
	1	25.0	6	150	1-1/4 -		05-0203-0012
	1-1/4	32.0	6	150	1-1/2 -		05-0203-0013
	1-7/16	36.5	7-3/8	187		2 40-50	05-0193-0001
	Тар	Size	Cutter Di	ameter	Size- Hole Saw/Cutte	e-on-Size Not Size-on ter Holder Pilot Holder P	
Hole Saws/Cutters and Holder Pilots	Inch	DN	Inch	mm	Part No.	Part No.	Part No.
Carra, entreta una fretaer i freta	1-1/4	32	1-5/16	33.3	00-1151-0005	05-1094-000	
	1-1/2	38	1-9/16	39.7	00-1151-0009	05-0275-000	00 05-0290-0000
	2	50	1-7/8	47.6	05-0179-0002	05-0204-000	00 05-0207-0000
	3	80	2-7/8	73.0	05-0179-0003	05-0204-000	00 05-0207-0000
	4	100	3-7/8	98.4	05-0179-0004	05-0205-000	05-0228-0000
Threaded Valve Adapters	Inches		DN	Part Nur		Maximum Pres	Bar
	1		25	06-1223-		1480	100
	1-1/4		32	00-0757-		1480	100
					0011	1480	100
	1-1/2		38	00-0757-			100
	2		50	00-0706-	0015	1480	100
			50		0015		
Flanged Valve Adapters - ASME Class	2	DN	50	00-0706- <mark>06-1303-0</mark>	0015	1480	100
Flanged Valve Adapters - ASME Class	2	DN 50	50 80	00-0706- 06-1303-0 Cla	0015 001-02	1480 1480	100 100
Flanged Valve Adapters - ASME Class	2 3 Inches		50 80 Class 150 RF	00-0706- 06-1303-0 Cla 06-	0015 001-02 ss 300 RF	1480 1480 Class 600 RF	100 100 Class 900 RJT
Flanged Valve Adapters - ASME Class	2 3 Inches	50	50 80 Class 150 RF 06-1305-0015	00-0706- 06-1303-0 Cla 06- 06-	0015 001-02 ss 300 RF 1305-0030 1318-0030	1480 1480 Class 600 RF 06-1305-0060	100 100 Class 900 RJT Standard
Flanged Valve Adapters - ASME Class	2 3 Inches 2 3	50 80 100	50 80 Class 150 RF 06-1305-0015 06-1318-0015	00-0706- 06-1303-0 Cla 06- 06-	0015 001-02 ss 300 RF 1305-0030 1318-0030	1480 1480 Class 600 RF 06-1305-0060 06-1318-0060	100 100 Class 900 RJT Standard
Flanged Valve Adapters - ASME Class	2 3 Inches 2 3 4	50 80 100	50 80 Class 150 RF 06-1305-0015 06-1318-0015	00-0706- 06-1303-0 Cla 06- 06-	0015 001-02 ss 300 RF 1305-0030 1318-0030	1480 1480 Class 600 RF 06-1305-0060 06-1318-0060 06-1302-0060	100 100 Class 900 RJT Standard
	2 3 Inches 2 3 4	50 80 100 actory	50 80 Class 150 RF 06-1305-0015 06-1318-0015	00-0706- 06-1303-0 Cla 06- 06-	0015 001-02 ss 300 RF 1305-0030 1318-0030 1302-0030	1480 1480 Class 600 RF 06-1305-0060 06-1318-0060 06-1302-0060	100 100 Class 900 RJT Standard
Flanged Valve Adapters - ASME Class Valve Dimensions for Making Taps	Inches 2 3 *Consult F	50 80 100 actory	50 80 Class 150 RF 06-1305-0015 06-1318-0015 06-1302-0015	00-0706- 06-1303-0 Cla 06- 06-	0015 001-02 ss 300 RF 1305-0030 1318-0030 1302-0030	1480 1480 Class 600 RF 06-1305-0060 06-1318-0060 06-1302-0060	100 100 Class 900 RJT Standard
	Inches 2 3 4 *Consult F	50 80 100 actory	50 80 Class 150 RF 06-1305-0015 06-1318-0015 06-1302-0015 Size DN	00-0706- 06-1303-0 Cla 06- 06-	0015 001-02 ss 300 RF 1305-0030 1318-0030 302-0030 Minimul Inches	1480 1480 Class 600 RF 06-1305-0060 06-1318-0060 06-1302-0060 m Bore mm	100 100 Class 900 RJT Standard
	2 3 Inches 2 3 4 *Consult F	50 80 100 actory	50 80 Class 150 RF 06-1305-0015 06-1318-0015 06-1302-0015 Size DN 50	00-0706- 06-1303-0 Cla 06- 06-	0015 001-02 ss 300 RF 305-0030 1318-0030 Minimul Inches 2-1/16	1480 1480 Class 600 RF 06-1305-0060 06-1318-0060 06-1302-0060 m Bore mm 52.4	100 100 Class 900 RJT Standard



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