



T-101 Drilling Machine *Models T-101B and T-101B-XL*

Drilling Machine



- The cap locks the feed and rotation of machine to set and retrieve completion plugs.

Item	Wt./ Lb.	Wt./Kg.	Part Number
T-101B Drilling Machine	32	15	05-1028-0000
T-101B-XL Drilling Machine	50	22	05-1029-0000
Includes: Crank Handle			00-1188-0004
Cap			05-1028-0046
Bleeder Valve			00-0774-0001
Nipple			00-0220-0001
Packing Wrench			05-0184-0020
Optional Equipment:			
Air Motor (Pistol Grip)	6	3	00-1508-0001
Air Motor (Right Angle)	8	4	05-2160-0000
Drive Socket			00-1509-0004
Steel Carrying Case (Std.)	15	7	05-2100-0000
Steel Carrying Case (XL)	20	9	05-2101-0000
Plug Holder for 2" THREAD-O-RING™ Plug			05-0185-0001
Plug Holder for 2" and 3" SHORTSTOPP® Completion Plug			08-2120-0000

Operating Specifications

Maximum Operating Pressure	1,480 psi (100 bar) @ 100°F (38°C)
Maximum Operating Temperature	700°F (371°C) @ 700 psi (48 bar)*

* For intermittent service only. Maximum continuous rating is 350°F (177°C) at 1,025 psi (70 bar).

Drilling Machine Specifications

Item	Standard Model		XL Model	
	Inches	mm	Inches	mm
Boring Bar Travel	18	457	28	711
Overall Length	46-5/16	1176	66-5/16	1684
Boring Bar Extension/Revolution	0.125	3.2	0.125	3.2
Feed Mechanism	Hand-Fed Machine		Hand-Fed Machine	

Accessories for PIG-SIG® IV and V Installation

Item	Part Number
Drill for wall thickness more than 3/8" (9.5 mm)	05-0193-0001
Valve Adapter for Cutter or Drill - for use on 2" (50 mm) threaded valve	00-0706-0016
2" (50 mm) THREAD-O-RING™ Plug Holder for use with PIG-SIG® IV	05-0185-0001
PIG-SIG® V Plug Holder	00-8138-0000

2" (50 mm) ASME Class 600 conventional valve with 2-1/16" (53 mm) through-bore is recommended for use in making taps for PIG-SIG® Scraper Passage Indicator installation.



T-101 Drilling Machine Models T-101B and T-101B-XL

Drills	Drill Diameter		Drill Length		Valve Size		Part Number
	Inches	DN	Inches	mm	Inches	mm	
	1/2	12.7	6	150	1-1/4 - 2	32-50	05-0203-0005
	1/2	12.7	22-1/4	565	1	25	05-0189-0001
	3/4	19.0	6	150	1-1/4 - 2	32-50	05-0203-0009
	3/4	19.0	22-1/4	565	1	25	05-0189-0002
	1	25.0	6	150	1-1/4 - 2	32-50	05-0203-0012
	1-1/4	32.0	6	150	1-1/2 - 2	40-50	05-0203-0013
	1-7/16	36.5	7-3/8	187	1-1/2 - 2	40-50	05-0193-0001

Hole Saws/Cutters and Holder Pilots	Tap Size		Cutter Diameter		Size-on-Size Hole Saw/Cutter Holder		Non Size-on-Size Pilot Holder Pilot
	Inches	DN	Inches	mm	Part No.	Part No.	Part No.
	1-1/4	32	1-5/16	33.3	00-1151-0005	05-0634-0000	05-0290-0000 *
	1-1/2	38	1-9/16	39.7	00-1151-0009	05-0275-0000	05-0290-0000
	2	50	1-7/8	47.6	05-0179-0002	05-0204-0000	05-0207-0000
	3	80	2-7/8	73.0	05-0179-0003	05-0204-0000	05-0207-0000
	4	100	3-7/8	98.4	05-0179-0004	05-0205-0000	05-0228-0000

*Use 05-0634-0000 pilot for 1-1/4" hot tap on 1-1/2" (38 mm) pipe only.

Threaded Valve Adapters	Inches	DN	Part Number	Maximum Pressure	
				psi	Bar
	1	25	06-1223-0001	1480	100
	1-1/4	32	00-0757-0012	1480	100
	1-1/2	38	00-0757-0011	1480	100
	2	50	00-0706-0015	1480	100
	3	80	06-1303-0001-02	1480	100

Flanged Valve Adapters - ASME Class	Inches	DN	ASME Class		
			Class 150 RF	Class 300 RF	Class 600 RF
	2	50	06-1305-0015	06-1305-0030	06-1305-0060
	3	80	06-1318-0015	06-1318-0030	06-1318-0060
	4	100	06-1302-0015	06-1302-0030	06-1302-0060*
	6" SANDWICH® Valve	150	06-8872-0001	06-8872-0002	06-8872-0003
	6" Gate Valve	150	06-8684-0001	06-8685-0001	06-8872-0004

*For 4-inch taps with the T-101 this adapter must be used with TDW 4-inch SANDWICH® Valve to ensure sufficient boring bar travel to complete the tap.

Valve Dimensions for Making Taps	Nominal Size		Minimum Bore	
	Inches	DN	Inches	mm
	2	50	2-1/16	52.4
	3	80	3-1/16	72.8
	4	100	4-1/32	102.4