

TONISCO® B40

DN100 (4") - DN500 (20") Hot Tappings



TONISCO® B40
Hot tapping machine

Description

The lightweight and robust TONISCO® B40 Hot Tapping Machine is an equipment designed for making connections to pipelines, tanks and plant piping. By using TONISCO® B40 Hot Tapping Machine it is possible to make new connections from DN100 all the way up to DN500. The connections can be made without stopping the flow inside the mains up to the pressure of 60 bar.

TONISCO® B40 Hot Tapping Machine is versatile and easy to operate. It has a full range capability of setting valves DN100 – DN500 by completing it with proper adapters. With suitable adapter TONISCO® B40 can be used for flanged, threaded or weldable connections.

All TONISCO® Hot Tapping Machines provide an efficient and economical way of making connections to mains for repairs, relocations or additions.

Features

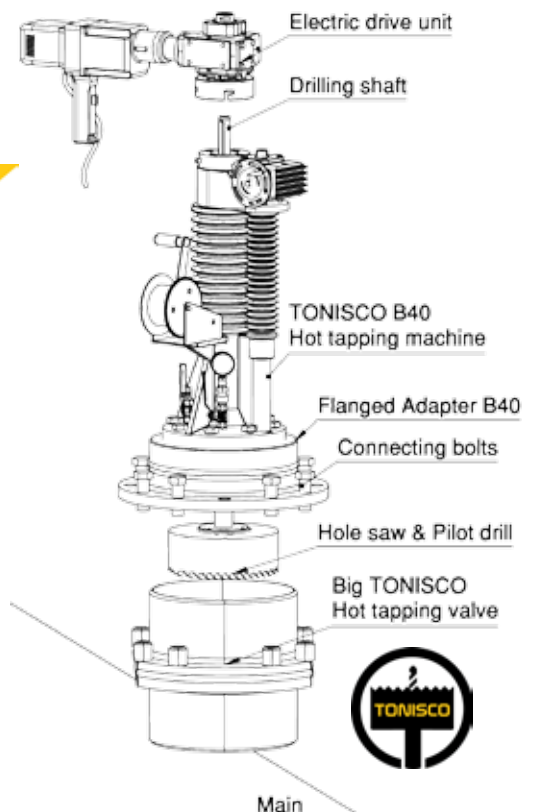
TONISCO® B40 Hot Tapping Machine can be used up to the temperature of 200°C and pressure up to the 60 bar. TONISCO® B40 is equipped normally with electric drive unit. Other possible drive types are hand drive, pneumatic drive or hydraulic drive.

TONISCO® B40 Hot Tapping Machine weighs only 22 kg. and it can be operated by two men. TONISCO® B40 Hot Tapping Machine can be completed by wide range of hole saws, pilot drills and adapters to fit it with all mainline materials and substances.

By using TONISCO® Hot Tapping Machines it is possible to make pipeline alteration works in pressurized pipelines without shutdowns.

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Typical setup up




TONISCO B40 Hot Tapping Machine specifications

Branch Size:	DN 125 - DN 500
Drive unit:	Electric 220-240v / 50-60 Hz 1000 VA Pneumatic 6-7 bar / 1500 l / min Hydraulic
Body material:	AlSi10Mg
Feed Unit material:	AlSi10Mg
Sealings:	EPDM (Viton)
Inspection:	Pressure test and construction inspection
Pressure test:	60 bar
Max. operating pressure:	40 bar (60 bar with High Pressure version)
Max. operating temperature:	160°C (200°C with Viton sealings)

**TONISCO® B40
BASIC SET**


	Item	Item no.	Quantity
Electric drive B40	Electric drive B40 compl	1635.0000	1
Base unit	Feed device B40, compl.	1626.0000	1
	Body B40, complete	1628.0000	1
Shaft and accessories	Washer	1666.0040	1
	Base shaft 695 mm	1666.0001	1
	Shaft extension 180 mm	1666.0050	3
	Shaft adjusting socket long	1666.0190	1
	Shaft screw, normal	1666.0030	1
	Chuck < 110 mm	1666.0080	1
	Hole saw screw, hexagon	1666.0082	3
	Chuck > 110 mm	1666.0071	1
	Hole saw screw, hexagon	1666.0072	3
	Chuck > 275mm	1666.0200	1
Hole saw screw, hexagon	1666.0250	3	
Pressure monitoring	Press. monit. Set 40 bar	1273.0013	1
	Press. relief hose w.	1264.0210	1
Pilot drills	HSS Pilot drill Ø16mm	1666.0100	2
	HSS Pilot drill Ø20mm	1666.0110	2
	HSS Pilot drill Ø25mm	1666.0106	2*
Consumables	TONISCO Cut-paste	1289.0010	1
	TONISCO Sealant	1269.0020	1
Operating tools	Wrench 30 mm	1450.0070	1
	TONISCO Wrench B30	1450.0170	1
	Pipe wrench 13 mm	1450.0050	2
	Allen key 5 mm	1250.0020	5
	Allen key 4 mm	1213.0110	1
	Shaft opening pin Jr/B30	1213.0040	1
	Magnet > 45 mm	1213.0241	1

* hot tapping sets bigger than DN300



Applications - Build your Own TONISCO® B40

TONISCO® Hot tapping machines are designed completely according the needs of the customer. The Hot tapping machines are used in various different fields and in changing environments.

TONISCO®'s Team of engineers is constantly designing new features to the machines in order to find solutions that helps the customer to use the same basic TONISCO® Hot tapping machine with the valves that best fit the customers needs. The three core-foundations in TONISCO®'s designs are SAFETY, EASE of USE and FLEXIBILITY.

The Option-Chart in the left shows the basic principle of how to build your own TONISCO® Hot tapping machine. Everything starts from the Power unit. Choose the most suitable Power unit according to the circumstances where the machine is mostly used.

The Pneumatic and Hydraulic drive units are designed for ATEX-Environments. The Electric Drive unit is the most common choice because it's extremely easy to operate and it can be attached to the normal 230 V electric network.

Basic TONISCO® B40 Hot tapping machine can be used with various different

hot tapping valves simply by choosing the right Adapter. TONISCO® B40 Adapters comes in three basic options for threaded, flanged and welded connections. The maximum operating pressure for the threaded Adapters is 60 bar and the Flanged adapters reach up to PN64. Also AISI standard flange Adapters are available.

TONISCO® Offers a wide range of different hole saws for every pipe material used in pressurized pipelines. Complete your own TONISCO® B40 Hot tapping machine with the suitable Hole Saw Set and the hot tapping system is ready for use.

TONISCO® System - The Open-Source of Hot tapping



TONISCO® B40

Hot Tapping Machine



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DRIVE UNIT OPTIONS FOR TONISCO® B40

1. Electric Drive unit for all materials
2. Pneumatic Drive unit for ATEX-environment*
3. Hydraulic Drive unit

ADAPTER OPTIONS FOR TONISCO® B40

7. Adapters TONISCO Anbohrsperrren DN125-DN250
8. Flanged Adapters TONISCO Anbohrsperrren DN250-N500
9. Flanged Steel Adapters PN10,16,25,40,64 (also ANSI)

SUITABLE VALVES WITH TONISCO® B40

10. TONISCO® Drilling valves DN125 - DN250
11. TONISCO® Drilling valves DN250 - DN500
12. Sluice and Gate valves with flange PN10,16,25,40,64
13. Flanged ball valves PN10,16,25,40,64

Available also in other standards

*Contact the sales

TONISCO® B40 Hot Tapping Machine



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HOLE SAW OPTIONS FOR TONISCO® B40

4. Bi-Metall (HSS) Hole saw, Steel, Ductile and Cast iron
5. Carbide Grit Edge (GE) Hole saw, Concreted pipes
6. TONISCO® Hole saws for other materials*

7.

8.

9.



10.



11.



12.



13.



**TONISCO adapters****Nominal diameter****Item no.**

Connecting Claw + bolts	1623.0002
Adapter DN 125 compl.	1623.1250
Adapter DN 150 compl.	1623.1500
Adapter DN 200 compl.	1623.2000
Adapter DN 250 compl.	1623.2500
Adapter DN 300 compl.	1623.3000
Adapter DN 350 compl.	1623.3500
Adapter DN 400 compl.	1623.4000
Adapter DN 500 compl.	1623.5000

Spare sealings for TONISCO adapters**Nominal diameter****Item no.**

Sealing DN 125	1623.1251
Sealing DN 150	1623.1501
Sealing DN 200	1623.2001
Sealing DN 250	1623.2501
Sealing DN 300	1623.3001
Sealing DN 350	1623.3501
Sealing DN 400	1623.4001
Sealing DN 500	1623.5001




Flanged adapters (DIN)

Nominal diameter
Item no.

Adapter DN125 (PN16) DIN 2526	1641.1250
Adapter DN125 (PN40) DIN 2526	1641.1255
Adapter DN150 (PN16) DIN 2526	1641.1500
Adapter DN150 (PN40) DIN 2526	1641.1505
Adapter DN200 (PN16) DIN 2526	1641.2000
Adapter DN200 (PN6) DIN 2526	1641.2001
Adapter DN200 (PN10) DIN 2526	1641.2002
Adapter DN200 (PN25) DIN 2526	1641.2004
Adapter DN200 (PN40) DIN 2526	1641.2005
Adapter DN250 (PN16) DIN 2526	1641.2500
Adapter DN250 (PN6) DIN 2526	1641.2501
Adapter DN250 (PN10) DIN 2526	1641.2502
Adapter DN250 (PN25) DIN 2526	1641.2504
Adapter DN250 (PN40) DIN 2526	1641.2505
Adapter DN300 (PN16) DIN 2526	1641.3000
Adapter DN300 (PN6) DIN 2526	1641.3001
Adapter DN300 (PN10) DIN 2526	1641.3002
Adapter DN300 (PN25) DIN 2526	1641.3004
Adapter DN300 (PN40) DIN 2526	1641.3005
Adapter DN350 (PN16) DIN 2526	1641.3500
Adapter DN350 (PN6) DIN 2526	1641.3501
Adapter DN350 (PN10) DIN 2526	1641.3502
Adapter DN350 (PN25) DIN 2526	1641.3504
Adapter DN350 (PN40) DIN 2526	1641.3505
Adapter DN400 (PN16) DIN 2526	1641.4000
Adapter DN400 (PN6) DIN 2526	1641.4001
Adapter DN400 (PN10) DIN 2526	1641.4002
Adapter DN400 (PN25) DIN 2526	1641.4004
Adapter DN400 (PN40) DIN 2526	1641.4005
Adapter DN400 (PN16) DIN 2526	1641.5000
Adapter DN400 (PN6) DIN 2526	1641.5001
Adapter DN400 (PN10) DIN 2526	1641.5002
Adapter DN400 (PN25) DIN 2526	1641.5004
Adapter DN400 (PN40) DIN 2526	1641.5005




Flanged adapters (ANSI)

Nominal diameter
Item no.

Adapter ANSI B16.5 4 in 150	1643.1000
Adapter ANSI B16.5 4 in 300	1643.1001
Adapter ANSI B16.5 4 in 600	1643.1002
Adapter ANSI B16.5 5 in 150	1643.1250
Adapter ANSI B16.5 5 in 300	1643.1251
Adapter ANSI B16.5 5 in 600	1643.1252
Adapter ANSI B16.5 6 in 150	1643.1500
Adapter ANSI B16.5 6 in 300	1643.1501
Adapter ANSI B16.5 6 in 600	1643.1502
Adapter ANSI B16.5 8 in 150	1643.2000
Adapter ANSI B16.5 8 in 300	1643.2001
Adapter ANSI B16.5 8 in 600	1643.2002
Adapter ANSI B16.5 10 in 150	1643.2500
Adapter ANSI B16.5 10 in 300	1643.2501
Adapter ANSI B16.5 10 in 600	1643.2502
Adapter ANSI B16.5 12 in 150	1643.3000
Adapter ANSI B16.5 12 in 300	1643.3001
Adapter ANSI B16.5 12 in 600	1643.3002
Adapter ANSI B16.5 14 in 150	1643.3500
Adapter ANSI B16.5 14 in 300	1643.3501
Adapter ANSI B16.5 14 in 600	1643.3502
Adapter ANSI B16.5 16 in 150	1643.4000
Adapter ANSI B16.5 16 in 300	1643.4001
Adapter ANSI B16.5 16 in 600	1643.4002
Adapter ANSI B16.5 16 in 150	1643.5000
Adapter ANSI B16.5 16 in 300	1643.5001
Adapter ANSI B16.5 16 in 600	1643.5002


(VX) Adapters for weldable ball valves

Nominal diameter
Item no.

VX Adapter DN125 red. compl.	1636.1250
VX Adapter DN150 red. compl.	1636.1500
VX Adapter DN200 red. compl.	1636.2000
VX Adapter DN250 red. compl.	1636.2500
VX Adapter DN300 red. compl.	1636.3000
VX Adapter DN350 red. compl.	1636.3500
VX Adapter DN400 red. compl.	1636.4000

Spare sealings and screws
for VX Adapters
Nominal diameter
Item no.

Sealing DN 125	1636.1251
Sealing DN 150	1636.1501
Sealing DN 200	1636.2001
Sealing DN 250	1636.2501
Sealing DN 300	1636.3001
Sealing DN 350	1636.3501
Sealing DN 400	1636.4001
Adapter screw DN125	1636.9001
Adapter screw DN150	1636.9002
Adapter screw DN200	1636.9003
Adapter screw DN250	1636.9004
Adapter screw DN300	1636.9005
Adapter screw DN350	1636.9006
Adapter screw DN400	1636.9007




Bi-Metal (HSS) Hole Saws

for Steel, Ductile and Cast Iron pipes


Nominal size
Item no.

H-saw HSS 89 mm / B40	1619.0890
H-saw HSS 95 mm / B40	1619.0950
H-saw HSS 114 mm / B40	1619.1140
H-saw HSS 121 mm / B40	1619.1210
H-saw HSS 140 mm / B40	1619.1400
H-saw HSS 180 mm / B40	1619.1800
H-saw HSS 220 mm / B40	1619.2200
H-saw HSS 270 mm / B40	1619.2700
H-saw HSS 320 mm / B40	1619.3200
H-saw HSS 355 mm / B40	1619.3550
H-saw HSS 404 mm / B40	1619.4040
H-saw HSS 452 mm / B40	1619.4520
H-saw HSS 505 mm / B40	1619.5050
H-saw HSS 608 mm / B40	1619.6080
H-saw HSS 708 mm / B40	1619.7080

Carbide Grit toothed (GE) Hole Saws

for Concreted pipes


Nominal size
Item no.

H-saw GE 89 mm / B40	1645.0890
H-saw GE 121 mm / B40	1645.1210
H-saw GE 140 mm / B40	1645.1400
H-saw GE 180 mm / B40	1645.1800
H-saw GE 220 mm / B40	1645.2200
H-saw GE 270 mm / B40	1645.2700
H-saw GE 320 mm / B40	1645.3200
H-saw GE 355 mm / B40	1645.3550
H-saw GE 404 mm / B40	1645.4040
H-saw GE 452 mm / B40	1645.4520
H-saw GE 505 mm / B40	1645.5050
H-saw GE 608 mm / B40	1645.6080
H-saw GE 708 mm / B40	1645.7080

Pilot Drills

Item
Item no.

HSS Pilot drill Ø16mm	1666.0100
HSS Pilot drill Ø20mm	1666.0110
HSS Pilot drill Ø25mm	1666.0106





Electric Drive Unit

1611.0000


Operationality:	DN100 (4 ") - DN500 (20 ")
Power:	*220-240 V, 50...60 Hz 1700 W (*available also 110 V)
Weight:	17 kg

Pneumatic Drive Unit

1667.0000


Operationality:	DN100 (4 ") - DN500 (20 ")
Power:	2KW
Air consumption:	1,8 m ³ / min 6 - 8 bar
Weight:	15 kg

Shafts

Diameter 40 mm


Item	Item no.
Base shaft compl. 710/930mm	1666.0010
Shaft extension 180 mm	1666.0050
Shaft upper end 200/415 mm	1666.0160
Shaft lower end 610/680 mm	1666.0170
Shaft adjusting socket 95 mm	1666.0190
Shaft screw, normal	1666.0030
Washer	1666.0040

Chucks



Nominal diameter	Item no.
Chuck < 110 mm	1666.0080
Hole saw screw, hexagon	1666.0082
Chuck screw	1666.0081
Chuck > 110 mm	1666.0070
Hole saw screw, hexagon	1666.0072
Chuck screw	1666.0071
Chuck > 275mm	1666.0200
Hole saw screw, hexagon	1666.0250
Chuck screw	1666.0251

Chuck & Shaft openers



Item	Item no.
Chuck opener B40	1650.0020
Shaft key	1650.0030
Opening pin	1650.0040