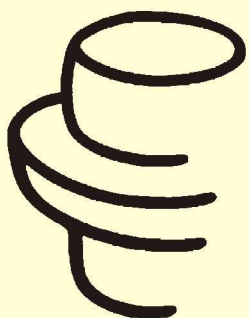


TONISCO Jr. Drilling machine

branching pipe lines under pressure

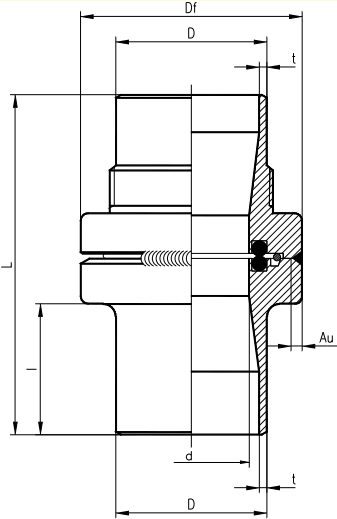


TONISCO

Pipe maintenance
under pressure

system

TONISCO drilling machine to branch weldable pipe lines



DN	D x t	Df	d	l	L
DN 20	26,9 x 3,2	68	27,3	47	130
DN 25	33,7 x 3,2	68	27,3	47	130
DN 32	42,4 x 3,2	76	36,0	47	130
DN 40	48,3 x 3,2	78	39,0	47	130
DN 50	60,3 x 3,2	88	46,0	52	135
DN 65	76,1 x 3,6	105	60,0	55	145
DN 80	88,9 x 4,0	117	71,0	63	155
DN 100	114,3 x 3,2	148	100,0	73	175

Branches with TONISCO Valves

TONISCO system offers special Drilling valves to accomplish branchings in weldable pipe lines. TONISCO valves are extremely short components allowing branching in most narrow places when no actual closing valve is required on the drilling spot. The fitting, operation and isolation of the simple TONISCO valve are all extremely easy and they are available in different steel qualities.

Branches using different full opening valves

When a permanent closing valve is required on the spot of branching, the actual drilling can be done through the valve. Most full opening valves can be used as drilling valves - TONISCO Jr. Can be delivered equipped with connections to most threaded or flanged valves - connection to valves with both welding ends is also possible in most cases.

Operation range:

TONISCO drilling method is widely used in district heating and -cooling systems and in liquid or gas transporting pipe lines in process- or chemical plants - most steel constructed pipe systems can achieve remarkable advantages making branches under pressure.

Max temperature: 160 °C (250 °C with special sealings)
Max pressure: 40 Bar (60 Bar in small dimensions)



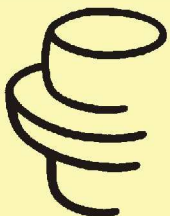
**TONISCO Jr. In
District heating.**

Drilling a District Heating branch DN 32 using a TONISCO valve.



**TONISCO Jr. Drilling
- the proper outfit**

While drilling the branches usually the media inside the pipe requires personnel to wear proper safety clothing.



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system

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