



TONISCO® Hot tapping Valves

DN20 - DN100 PN40, PN25



TONISCO® Hot tapping valves
1220.0200-1220.1000

Because of the unique and compact design of the TONISCO® Hot Tapping Valves it is also the most Cost effective way to carry out a hot tapping Process to a Weldable pipeline System.

All the fully welded bodies of all TONISCO® Hot Tapping Valves are manufactured from Approved High quality materials. All TONISCO® Valves are suitable for underground installations.

After the new line is completed by hot tapping the sluice plate will be removed and the controlling opening welded shut. As a result there will be a new completely welded outlet which is easy to insulate.

The compact size reduces the travel required for the drilling machine's boring bar to make taps. The light weight ensures the easy mounting and handling of the valves during the installation work.

Description

TONISCO® Hot tap valves are used to connect new customers to the existing district heating or cooling systems without cutting off the heat/cold supply to other customers

TONISCO® Hot tapping System consists of two main elements; The TONISCO® Hot Tapping Valves & TONISCO® Hot Tapping Machine. The System is Safe and Easy to use.

Features

TONISCO's line of hot tapping valves are designed for weldable pipeline systems. The range covers all the nominal dimensions from DN15 to DN600. All the valves are full bore, permitting the Hot tapping to be carried out with the largest possible Hole size.

TONISCO® Hot tapping valves are designed to be used only once.

Applications

Operation applications:

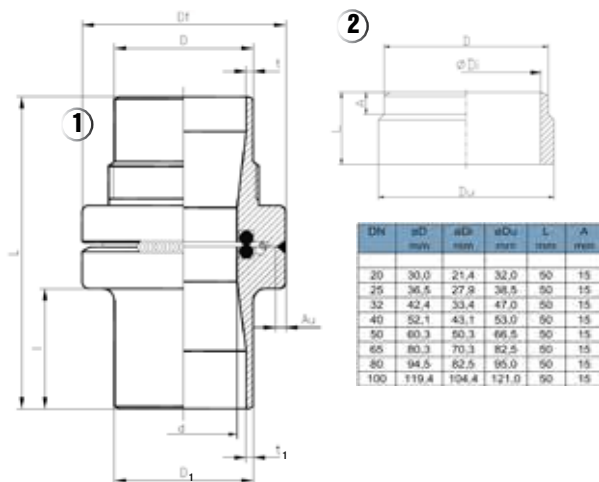
District Heating and Cooling, different Pipe Networks in Process Plants

Applicable fluids:

Non-flammable or non-explosive fluids

TONISCO® Hot tapping valve
1220.0200-1220.1000

Typical setup up



Specifications

TONISCO® Hot tapping valve
1220.0200-1220.1000

1.	The Valve
Steel	EN S355J2G3 (or AISI 316)
Dimension	D x L x t (mm)
Specification	EN 10025, EN 10060 Normalized Hot Rolled
Sealings	EPDM (VITON)
Max. operating temperature	160 °C (200 °C with Viton)
Max. operating pressure	PN25 (bar) (Installation pressure PN16)
2.	The Welding ring 1223.0200-1223.1000
Steel	EN S355J2G3 (or AISI 316)
Dimension	D _w x L (mm)
Specification	EN 10025, EN 10060 Normalized Hot Rolled
3.	The Sluice Plate
Steel	Sandvik 15LM (AISI 1074, W.-Nr. 1.1248)
Specification	EN 10051, EN 10163-2, EN 10204-2,2 Hot Rolled

DN	D ₁ x t ₁	D ₂	d	l	L	D x t
20	30,2 x 4,3	68	21,60	47	132	26,90 x 2,6
25	35,9 x 4,3	68	27,30	47	130	33,70 x 2,6
32	45,0 x 4,5	76	36,00	47	135	42,40 x 2,6
40	50,9 x 4,5	78	39,00	47	130	48,30 x 2,6
50	63,9 x 5,0	88	46,00	52	135	60,30 x 2,9
65	78,9 x 5,0	105	60,00	55	145	76,10 x 2,9
80	92,90 x 6,0	117	71,00	63	155	88,90 x 3,2
100	120,30 x 7,5	148	100,00	73	175	114,30 x 3,6



TONISCO® Hot tapping Valves

DN125 - DN250 PN25



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After the new line is completed by hot tapping the sluice plate will be removed and the controlling opening welded shut. As a result there will be a new completely welded outlet which is easy to insulate.

The compact size reduces the travel required for the drilling machine's boring bar to make taps. The light weight ensures the easy mounting and handling of the valves during the installation work.

TONISCO® Hot tapping valves 1624.1250-1624.2500

Description

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Features

TONISCO's line of hot tapping valves are designed for weldable pipeline systems. The range covers all the nominal dimensions from DN15 to DN600. All the valves are full bore, permitting the Hot tapping to be carried out with the largest possible Hole size.

TONISCO® Hot tapping valves are designed to be used only once.

Applications

Operation applications:

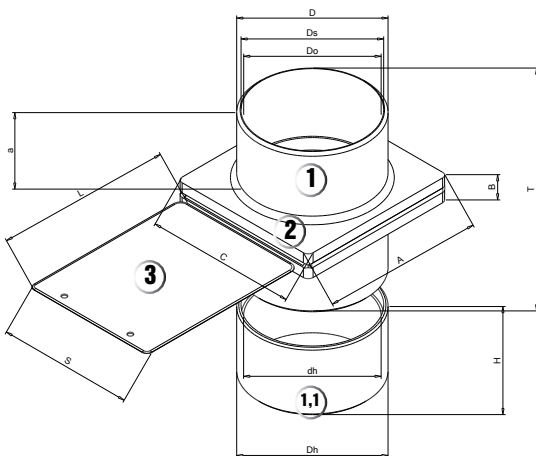
District Heating and Cooling, different Pipe Networks in Process Plants

Applicable fluids:

Non-flammable or non-explosive fluids

TONISCO® Hot tapping valve 1624.1250-1624.2500

Typical setup up



Specifications

TONISCO® Hot tapping valve 1624.1250-1624.2500

1. & 1.1	The Cylinder + Welding ring
Steel	Steel St 35.8/1 P235GHTC1 high-grade seamless pipe
Dimension	$D \times a \times t (1) D_s \times H_n \times t (1, 1)$ (mm)
Specification	DIN 2448/81 EN 10220/02 EN 10216-2/02+A2/07 TC1 Ad-200 Merkblatt W4/08, PED 92/23/ES DIN 17175/79 – PED 92/23/EC Normalized hot finished
Sealings	EPDM (VITON)
Max. operating temperature	160 °C (200 °C with Viton)
Max. operating pressure	PN25 (bar) (Installation pressure PN16)
2.	The Flange
Steel	Steel S355K2 + N
Dimension	$c \times b$ (mm)
Specification	S 355 K2 + N / EN 10025-1,2:2004 Heavy Plates Hot Rolled
3.	The Sluice Plate
Steel	Sandvik 15LM (AISI 1074, W.-Nr. 1.1248)
Specification	EN 10051, EN 10163-2, EN 10204-2,2 Hot Rolled

DN	D	D _s	D _n	a	B	C	T
125	139,7	131,7	125,0	90,0	33,0	180,0	215,0
150	168,3	155,7	148,0	105	34,0	200	244
200	219,1	206,5	200,00	120	44,0	268	284
250	273,0	260,4	242,00	120	44,0	332	284
DN	A	L	S	H	d _n	D _n	t
125	195,0	225,0	160,0	85,0	131,7	150,0	4,0
150	220	255	175	100	155,7	168,3	6,3
200	285	315	241	120	206,5	219,1	6,3
250	350	375	295	160	260,4	273,0	6,3



TONISCO® Hot tapping Valves

DN300 - DN400 PN 25



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TONISCO® Hot tapping valves
1624.3000-1624.4000

Description

TONISCO® Hot tap valves are used to connect new customers to the existing district heating or cooling systems without cutting off the heat/cold supply to other customers

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Features

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TONISCO® Hot tapping valves are designed to be used only once.

Applications

Operation applications:

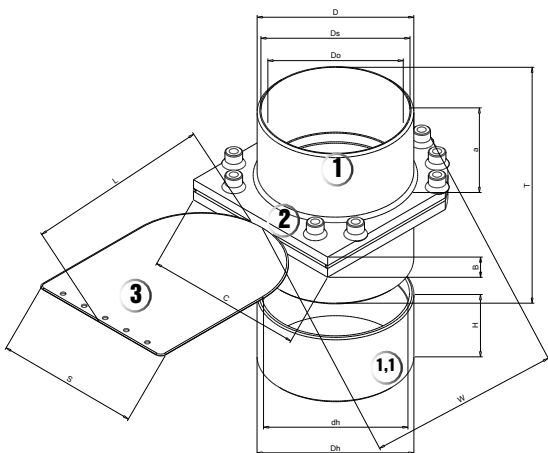
District Heating and Cooling, different Pipe Networks in Process Plants.

Applicable fluids:

Non-flammable or non-explosive fluids

TONISCO® Hot tapping valve
1624.3000-1624.4000

Typical setup up



Specifications

TONISCO® Hot tapping valve
1624.3000-1624.4000

1. & 1.1	The Cylinder + Welding ring
Steel	Steel St 35.8/1 P235GHTC1 high-grade seamless pipe
Dimension	$D \times a \times t (1) D_s \times H_n \times t (1, 1)$ (mm)
Specification	DIN 2448/81 EN 10220/02 EN 10216-2/02+A2/07 TC1 Ad-200 Merkblatt W4/08, PED 92/23/ES DIN 17175/79 – PED 92/23/EC Normalized hot finished
Sealings	EPDM (VITON)
Max. operating temperature	160 °C (200 °C with Viton)
Max. operating pressure	PN25 (bar) (Installation pressure PN10)
2.	The Flange
Steel	Steel S355K2 + N
Dimension	$c \times b$ (mm)
Specification	S 355 K2 + N / EN 10025-1,2:2004 Heavy Plates Hot Rolled
3.	The Sluice Plate
Steel	Sandvik 15LM (AISI 1074, W.-Nr. 1.1248)
Specification	EN 10051, EN 10163-2, EN 10204-2,2 Hot Rolled

DN	D	D _s	D _o	a	B	C	W
300	323.9	303.9	275.0	141.0	48.0	382.0	425.0
350	355.6	343.0	330.0	180.0	56.0	430.0	495.0
400	406.4	393.8	366.0	164.0	51.0	456.0	510.0
DN	T	L	S	H	d _n	D _n	t
300	350.0	470.0	350.0	180.0	323.9	303.9	10.0
350	416.0	525.0	395.0	200.0	343.0	355.6	8.0
400	400.0	530.0	424.0	200.0	393.8	406.4	8.8



TONISCO® Hot tapping Valves

DN500 - DN600 PN 25



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After the new line is completed by hot tapping the sluice plate will be removed and the controlling opening welded shut. As a result there will be a new completely welded outlet which is easy to insulate.

The compact size reduces the travel required for the drilling machine's boring bar to make taps. The light weight ensures the easy mounting and handling of the valves during the installation work.

TONISCO® Hot tapping valves 1624.5000-1624.6000

Description

TONISCO® Hot tap valves are used to connect new customers to the existing district heating or cooling systems without cutting off the heat/cold supply to other customers

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Features

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Applications

Operation applications:

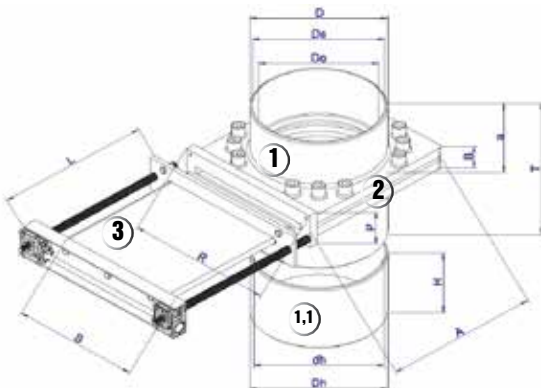
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Applicable fluids:

Non-flammable or non-explosive fluids

TONISCO® Hot tapping valve 1624.5000-1624.6000

Typical setup up



DN	D	Ds	Do	a	B	A	S	Weight (Kg)
DN500	508,0	488,0	464,0	210,0	92,0	638,0	550,0	304,0
DN600	610,0	590,0	570,0	210,0	92,0	724,0	650,0	332,0
DN	P	R	T	H	Dh	dh	L	
DN500	140,0	618,0	580,0	210,0	508,0	483,0	805,0	
DN600	140,0	724,0	580,0	260,0	610,0	585,0	855,0	

Specifications

TONISCO® Hot tapping valve 1624.5000-1624.6000

1. & 1.1	The Cylinder + Welding ring
Steel	Steel St 35.8/1 P235GHTC1 high-grade seamless pipe
Dimension	D x B x t (1) D _s x H ₁ x t (1,1) (mm)
Spesification	DIN 2448/81 EN 10220/02 EN 10216-2/02+A2/07 TC1 Ad-200 Merkblatt W4/08, PED 92/23/ES DIN 17175/79 – PED 92/23/EC Normalized hot finished
Sealings	EPDM (VITON)
Max. operating temperature	160 °C (200 °C with Viton)
Max. operating pressure	PN25 (bar) (Installation pressure PN10)
2.	The Flange
Steel	Steel S355K2 + N
Dimension	A x R (mm)
Spesification	S 355 K2 + N / EN 10025-1,2:2004 Heavy Plates Hot Rolled
3.	The Sluice Plate
Steel	Steel S355K2 + N
Dimension	S x L (mm)
Spesification	S 355 K2 + N / EN 10025-1,2:2004 Heavy Plates Hot Rolled