



NAVAL

Hot tapping valves



NAVAL HOT TAPPING VALVES

The main advantages of the Naval Hot Tapping Valve:

- it is a full bore all-welded ball valve
- connection of new consumers to existing network under pressure can be carried out without interruption of heat supply to existing consumers
- no need to drain the network:
 - energy savings: heat, water, inhibitors
- can be used also as a shut-off valve after hot tapping
- the hot tapping operation is safe, simple and easy

The equipment is type tested in Germany by TÜV.

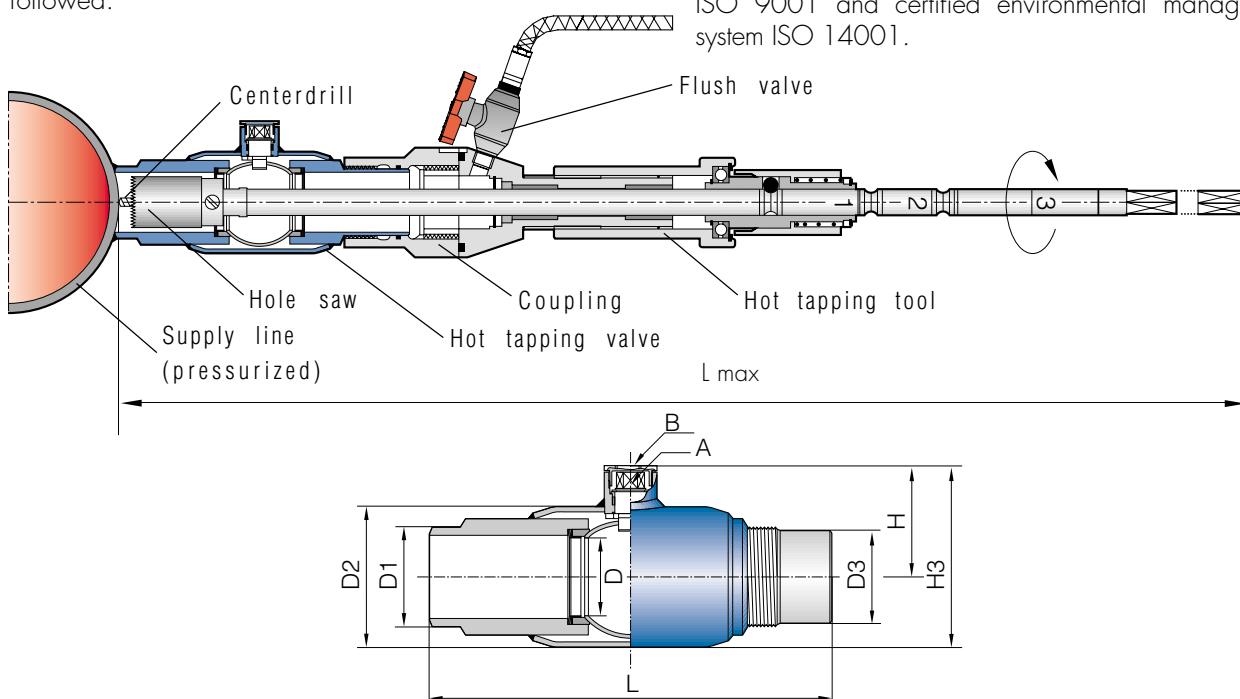
Certificate "TÜV.AR.303-99"

N.B. When carrying out the hot tapping operation the separate detailed instructions by Naval Oy have to be followed.

The Principle of Hot Tapping:

1. remove the insulation from the supply line
2. weld the Naval-valve onto the supply line
3. attach the hot tapping equipment onto the valve
4. carry out the hot tapping
5. close the valve and remove the hot tapping equipment
6. connect the new customer to the district heating network

Naval ball valves are manufactured in accordance with European Pressure Equipment Directive 97/23/EY. Naval Oy applies Module H as conformity assessment procedure (=full quality assurance) controlled by Det Norske Veritas as notified body. Naval Oy has a certified quality system ISO 9001 and certified environmental management system ISO 14001.



DN	PN	NAVAL NR	L	D	D1	D2	D3	H	A hex head	B hex head	Saw Ø	H3	L max	Kg
20	40	281 485	170	20	33,7	48,3	26,9	42,3	9	22	18	66,45	960	1,1
25	40	281 486	209	25	36,5	60,3	33,7	46,0	9	22	24	74,7	1005	1,6
32	40	281 487	207	32	46,2	70,0	42,4	56,4	10	27	30	91,4	1015	1,9
40	40	281 488	226	40	52,1	88,9	48,3	62,9	10	27	38	107,3	985	2,6
50	40	281 489	260	50	64,5	101,6	60,3	76,5	15	32	48	127,0	1005	4,3
65	25	281 490	280	65	80,3	121	76,1	87,5	15	32	64	148,0	1025	5,5
80	25	281 491	312	80	94,5	146	88,9	101,5	15	36	76	174,5	1055	10,0
100	25	281 492	349	100	122,1	177,8	114,3	122,0	19	41	95	211,4	1100	16,2
125	25	281 493	365	125	151,7	219,1	137,9	143	19	41	121	252,5	1090	21,5
150	25	281 495	526	150	180	273	168,3	173	32	72	146	310	1400	55,3
*) 150	25	281 494	365	125	151,7	219,1	168,3	143	19	41	121	252,5	1095	21,4
*) 200	25	281 496	520	150	180	273	219,1	173	32	72	146	310	1400	50,6

*Reduced bore (only DN150-200)

FLowsERVE[®]

Flow Control Division

NAVAL OY, P.O.Box 32, FIN-23801 Laitila, FINLAND,
tel. +358-2-85 091, fax +358-2-856 506,
e-mail: naval@naval.fi, www.naval.fi