



NAVAL

Navalsteam



NAVAL VALVES FOR STEAM

Navalsteam is designed for on-off service. The valves are specially suitable for steam, condensate, hot oil, gas and other non-corrosive media.

CONSTRUCTION

The valve has an all-welded body and is fitted with special polymer seats which are long-lasting against frequent operation, impurities and chemicals. A ground and polished stainless steel ball gives easy turning and reliable operation over many years.

A floating ball construction is used. Bevel spring washers keep the seats pressed against the ball to ensure that the valve remains leak-tight regardless of pressure fluctuations.

The blow-out proof stem is equipped with graphite box sealing.

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 ISO 9001 and certified environmental management system ISO 14001.

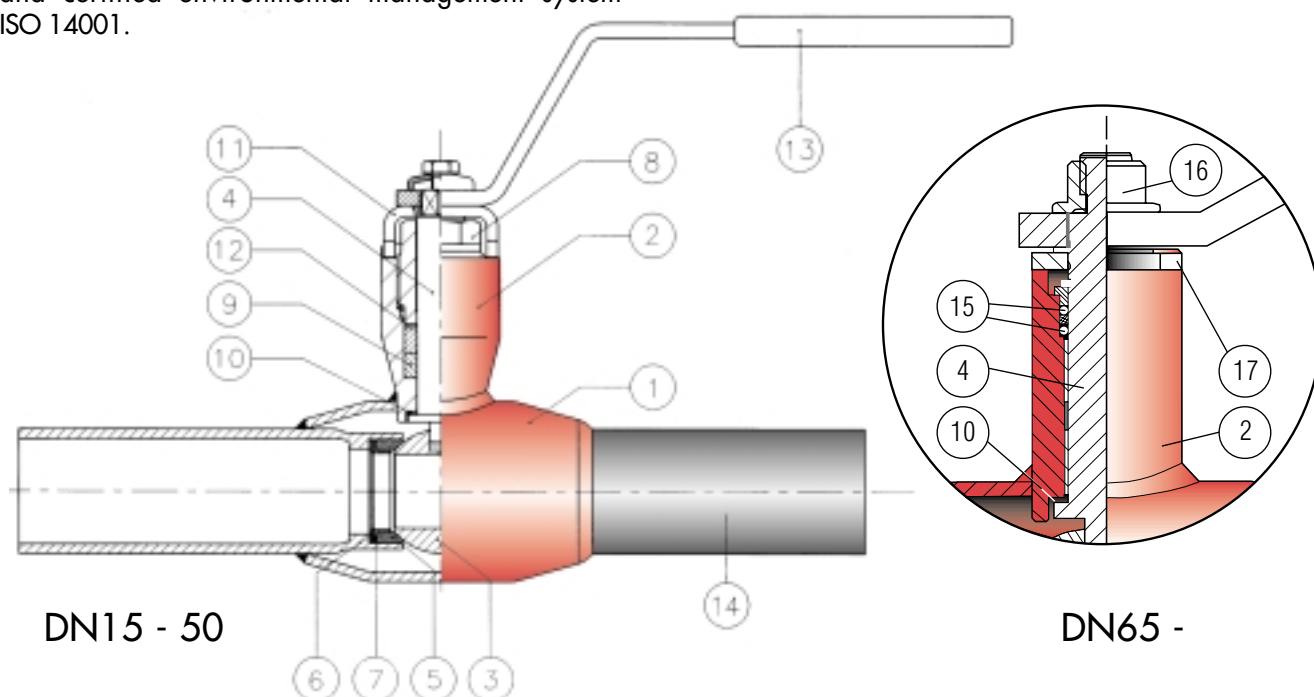
CHARACTERISTICS

The valve needs no servicing - no adjustment or lubrication- and is easy to install, giving a long working life with low running costs. It is easy to insulate because of the long, circular stem housing.

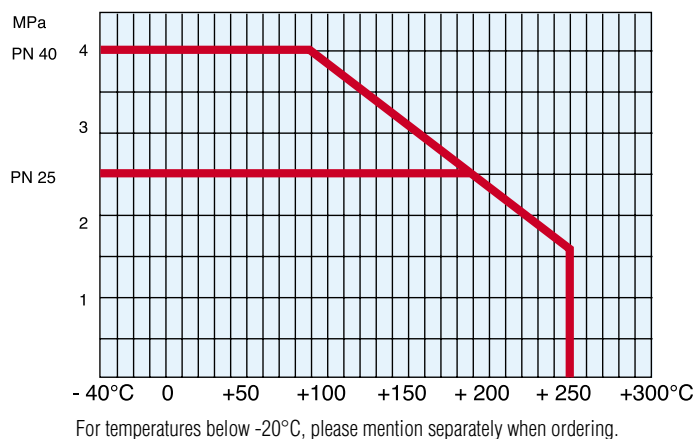
The operating lever is detachable and can be re-positioned at 180°.

Heavy and unreliable cast components are not used in the construction of the valve body.

It is easy to retrofit actuating equipment. Leak tightness is acc. to ISO 5208, rate A.

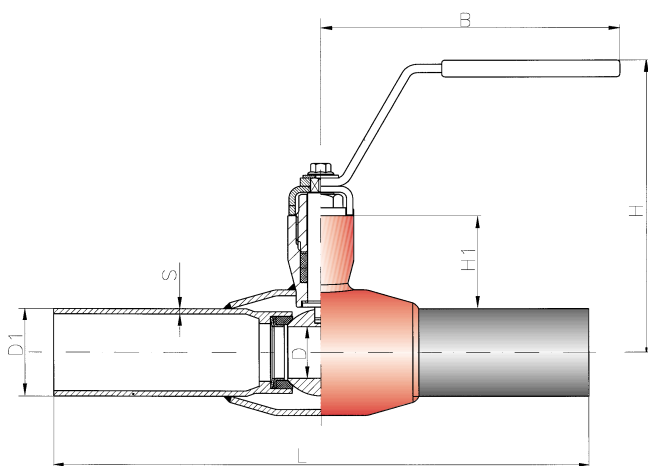


Pressure/temperature curves



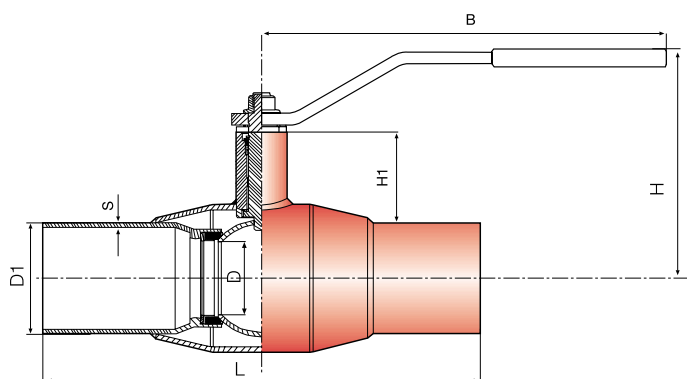
Material specification

ITEM	DESCRIPTION	MATERIAL	DN15-50	DN65-
1.	Body	Carbon steel	P235GH	P235GH
2.	Stem housing	Carbon steel	P355NH	P355NH
3.	Ball	Stainless steel	1.4404	1.4404
4.	Stem	Stainless steel	1.4057	1.4057
5.	Seat ring	Teflon	PTFE+GF	PTFE+GF
6.	Bevel washer	Spring steel		
7.	Support ring	Stainless steel		
8.	Gland bush	Stainless steel	1.4305	
9.	Ring	Graphite		
10.	Ring	Bronze		
11.	Stop	Stainless steel	1.4301	.
12.	Ring	Bronze		
13.	Handle	Zinc-plated steel		
14.	End pipe	Carbon steel	P235GH	P235GH
15.	O-ring			Kalrez/EPDM
16.	Nut			
17.	Stop	Stainless steel		1.4404



PN 40, with butt weld connections

DN	NAVAL NO	L	D	D1	H	B	S	H1	Weight
15	274 403	230	10	21,3	118	145	2,0	32	0.6
20	274 405	230	15	26,9	122	145	2,3	33	0.8
25	274 406	230	20	33,7	140	145	2,6	46	1.1
32	274 407	260	45	42,4	142	145	2,6	46	1.5
40	274 408	260	32	48,3	145	280	2,6	50	2.5
50	274 409	300	40	60,3	150	280	2,9	51	3.4



PN 25

DN	NAVAL NO	L	D	D1	H	B	S	H1	Weight
65	274 410	300	50	76,1	157	277,5	2,9	62	4,4
80	274 411	300	65	88,9	171	277,5	3,2	68	5,6
100	274 412	325	80	114,3	218	278,5	3,6	101	8,4

Valves \geq DN125 on request.

SELECTION TABLE FOR ACTUATORS

DN	PN	Pneumatic, spring return RC	Pneumatic, double acting RC	Electric actuator Bernard	Electric actuator Auma
15	40	RC210-SR	RC210-DA	OA3	SG03
20	40	RC220-SR	RC210-DA	OA3	SG03
25	40	RC230-SR	RC220-DA	OA3	SG03
32	40	RC240-SR	RC220-DA	OA6	SG04
40	40	RC240-SR	RC230-DA	OA8	SG04
50	40	RC250-SR	RC230-DA	OA8	SG05
65	16	RC250-SR	RC240-DA	OA15	SG05
80	16	RC260-SR	RC240-DA	OA15	SG07
100	16	RC260-SR	RC250-DA	AS25	SG07

Electric actuators are available with one or three phase motors.

KV-VALUE TABLE

	DN									
Size	10	15	20	25	32	40	50	65	80	100
Kv-value	7*	5,5	14	26	41	67	105	160	290	420

* full bore



NAVALSTEAM DN15 + RC210-DA



NAVALSTEAM DN15+ BERNARD OA3



NAVALSTEAM DN32+BERNARD OA6



NAVALSTEAM DN80+ AUMA SG07



Flow Control Division

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