

BALL VALVES, CAST IRON

Serie 03
032020

TAMIN-TAJHIZ-STEEL-
AVAL->>021-33961354-
www.48inch.com

Nominal diameter options (DN) 15-250
Nominal pressure options (PN) 6-25
Maximum working temperature 150°C (170 °c)

APPLICATIONS

- » Suitable for water, conditioning, gas, heating, different industries and fire fighting.
- » Epoxy coating.
- » Integrated flange, in accordance with ISO 5211.
- » Removing and repositioning of the plate at 90° allows locking of the valve in ON-OFF position.
- » The dynamic seal of the stem is guaranteed by a double O-ring, even in severe working conditions.
- » Blow-out proof stem.
- » Seat of ball in reinforced PTFE, as temperature changes, the torque remains constant.
- » Ball with full and straight bore, in chromed brass or stainless steel.

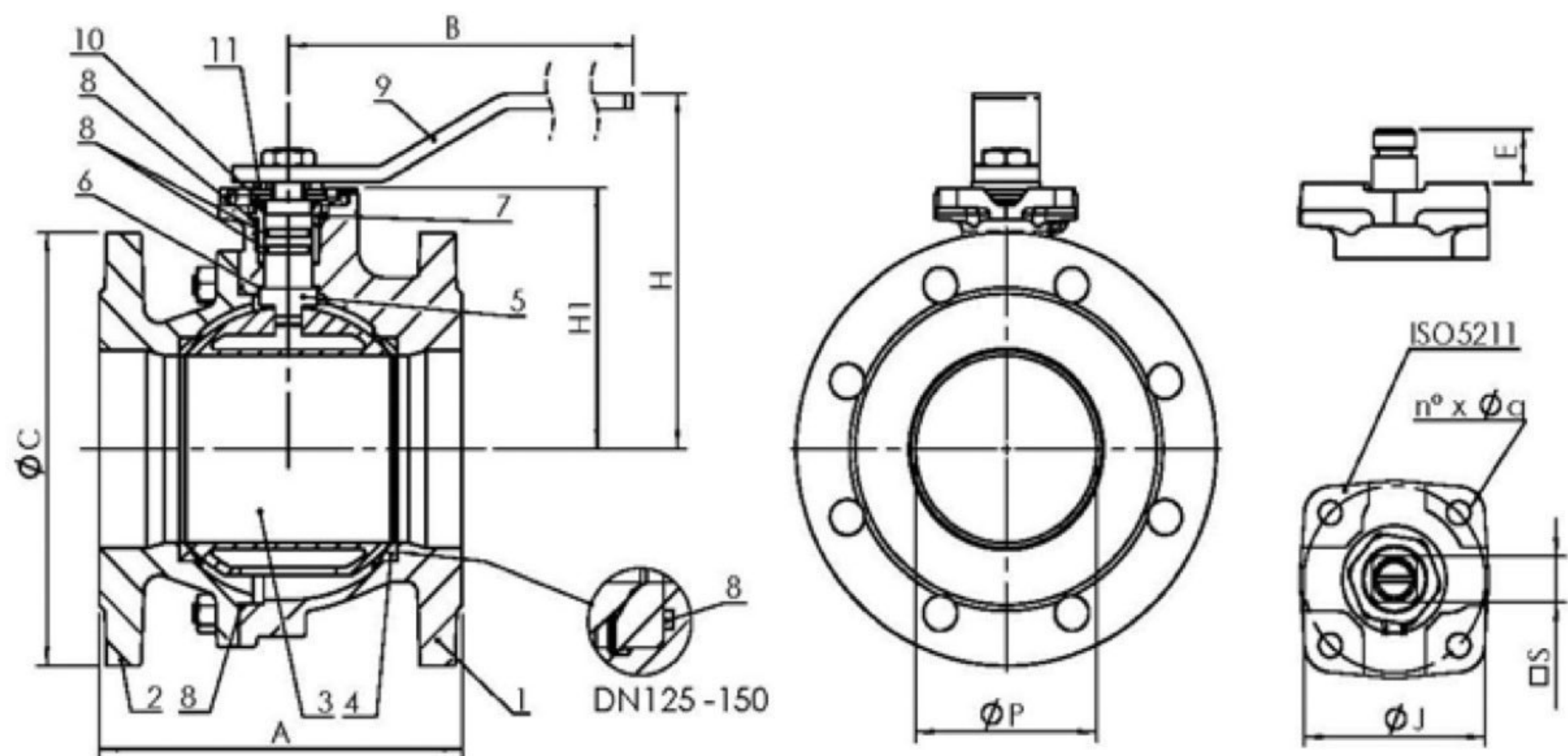


In conformity with directive
97/23/CE PED
Conformity to EN 13774 norms,
DVGW certification for gas

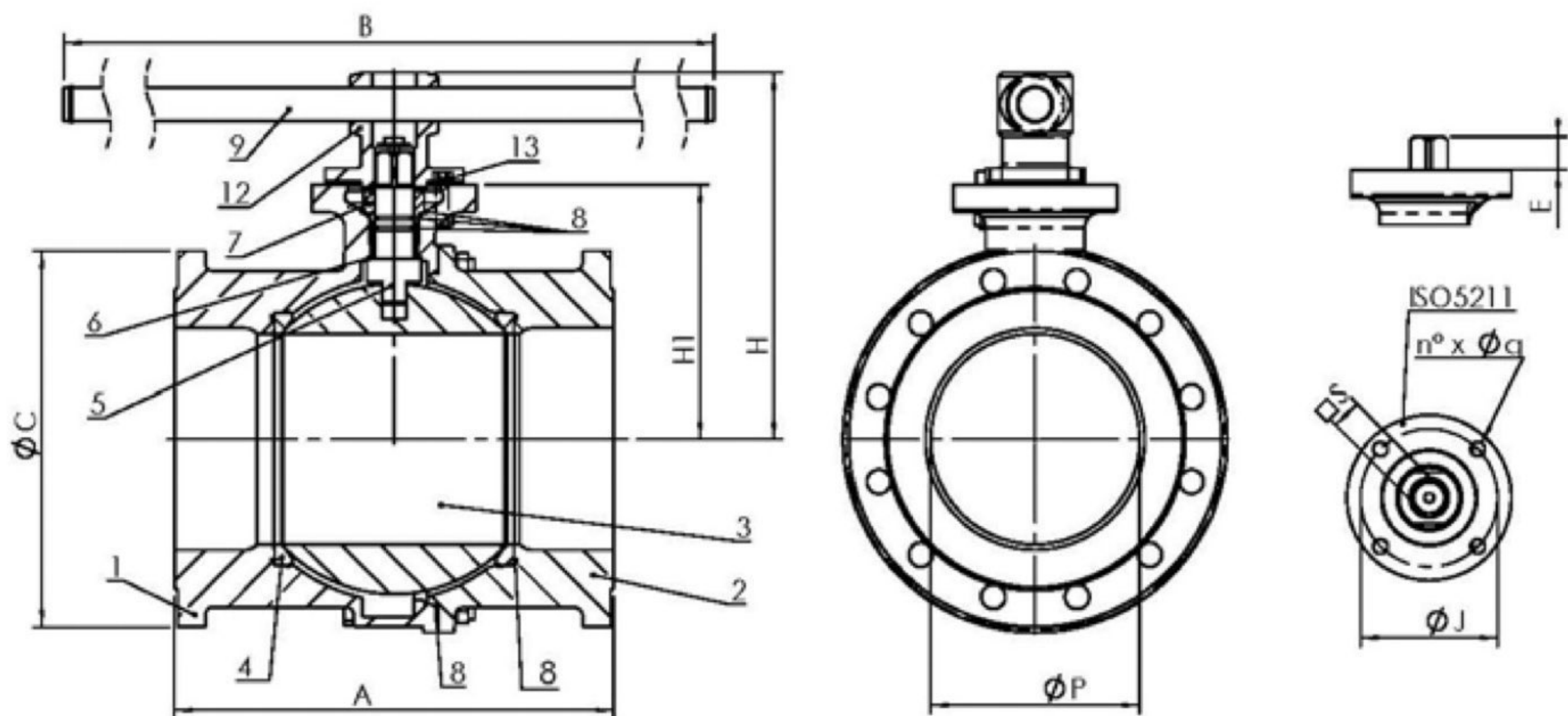
MATERIALS

PART	MATERIAL	PART	MATERIAL
1. Body	EN GJS 400-15 / EN GJL250*, epoxy coated	11. Spring washer	Galvanized carbon steel
2. Flange	EN GJS 400-15 / EN GJL250*, epoxy coated	12. Lever hub	EN GJS 400-15
3. Ball	Brass CuZn40Pb2 chrome plated / AISI 304 / AISI 316 / EN GJL250**	13. Lever stop	Galvanized carbon steel
4. Ball seat	Reinforced PTFE	14. Anti-blow-out ring	AISI 302
5. Stem	Brass CuZn40Pb2 / AISI 304 / AISI 316	15. Mountig pad for gear box	EN GJS 400-15 / EN GJL 250
6. Sliding washer	PTFE	16. Gear box	-
7. Ring	Brass CuZn40Pb2 / AISI 304 / AISI 316	17. Bolts	Galvanized carbon steel
8. O-ring	NBR /FKM (Viton®)	*: only DN 200-250 **: DN 250 with ball in EN GJL 250 - CODE: 02.040	
9. Lever	Carbon steel, epoxy coated		
10. Stop plate	Galvanized carbon steel		

DN15-150

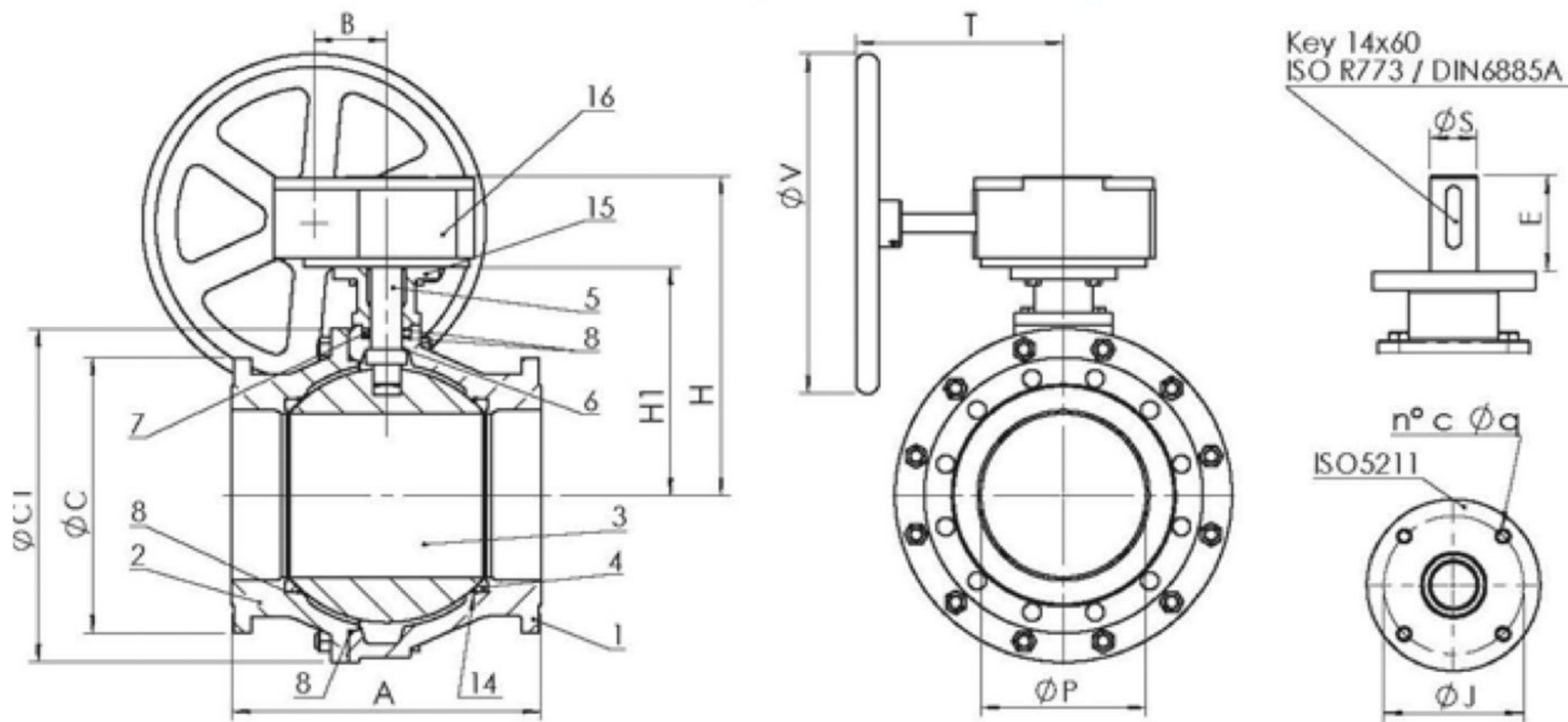


DN200



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DN250



TECHNICAL DATA

Dimensions (mm)

DN		15	20	25	32	40	50	65	80	100	125	150	200	250***
P		15	20	25	32	40	50	63	76	95	120	145	190	240
A (B2.1)	EN 558/1-14 (ex.DIN 3202 F4)	115	120	125	130	140	150	170	180	190	200	210	-	-
A (B2.0)	EN 558/1-14 (ex.DIN 3202 F5)	-	-	-	-	-	-	-	-	-	-	-	400	450
A (F2.1)	EN 558/1-29 (ex.NF 29-323)	-	-	-	-	136	142	154	160	172	186	200	-	-
H		84	84	96	101	125	135	143	165	180	225	243	320	448
H1		50,5	520	59	64	78,5	87	95	118	132,5	165	182,5	230	335
B		160	160	170	170	230	230	230	280	360	450	560	1000	101
C	EN 1092/2 PN 16	95	105	115	140	150	165	185	200	220	250	285	340	405
C1		-	-	-	-	-	-	-	-	-	-	-	-	490
V	TAMIN-TAJHIZ-STEEL-AVAL>>021-33961354<< www.48inch.com												-	500
T		-	-	-	-	-	-	-	-	-	-	-	-	284
ISO5211		F04	F04	F04	F04	F05	F05	F05	F07	F07	F10	F10	F12	12
J		42	42	42	42	50	50	50	70	70	102	102	125	125
n°xØq		4x6	4x6	4x6	4x6	4x7	4x7	4x7	4x9	4x9	4x11	4x11	4x13	4x13
E		11,5	11,5	14,5	14,5	17,5	17,5	17,5	20	20	24,5	24,5	27	92
S		9	9	11	11	14	14	14	17	17	22	22	27	Ø45

Weight

B2.100	2,6	3,3	4,2	5,8	7,5	9	10,5	15,5	18,5	28	38,5	93	180
B2.100 - B2.122	2,6	3,3	4,2	5,8	7,8	9,7	12,2	16,7	22,2	35,8	46,6	117	180

Operating torque (Nm)

Nm	15	15	18	18	18	20	40	70	100	180	250	600	2000
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N.B.: In order to choose the right actuator, we recommend multiplying the operating torque figure by a safety coefficient, K=1.5
***: The diameter DN250 is supplied with gear box as standard

DN		15	20	25	32	40	50	65	80	100	125	150	200	250
	Drilling PN 16 EN1092/2	std	std	std	std	std	std	std	std	std	std	std	std	std
Dimensions of flanges according to PN 16 EN1092/2	Drilling PN 10 EN1092/2	=	=	=	=	=	=	=	=	=	=	=	opt	opt
	Drilling PN 6 EN1092/2	opt	opt	opt	opt	opt	opt	opt	opt	opt	opt	opt	opt	opt
	Drilling PN 25 EN1092/2	=	=	=	=	=	=	opt	=	no	no	no	no	no
	Drilling ANSI B16,5 #150	opt	opt	opt	opt	opt	opt	opt	opt	opt*	opt	opt	opt	opt

std: standard / opt: option on request / =: same as PN16

TECHNICAL DATA

Maximum pressure

Fluids*	Mounting	
	Between flanges	End of line
Hazardous gases	16 bar DN15-200 10 bar DN250	10 bar DN15-100 NO DN125-250
Hazardous liquids	16 bar DN15-200 10 bar DN250	10 bar
All remaining fluids	16 bar DN15-200 10 bar DN250	10 bar

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*Hazardous gas, liquids (explosive, inflammable, toxic) in accordance with 97/23/CE PED and 67/548/EEC

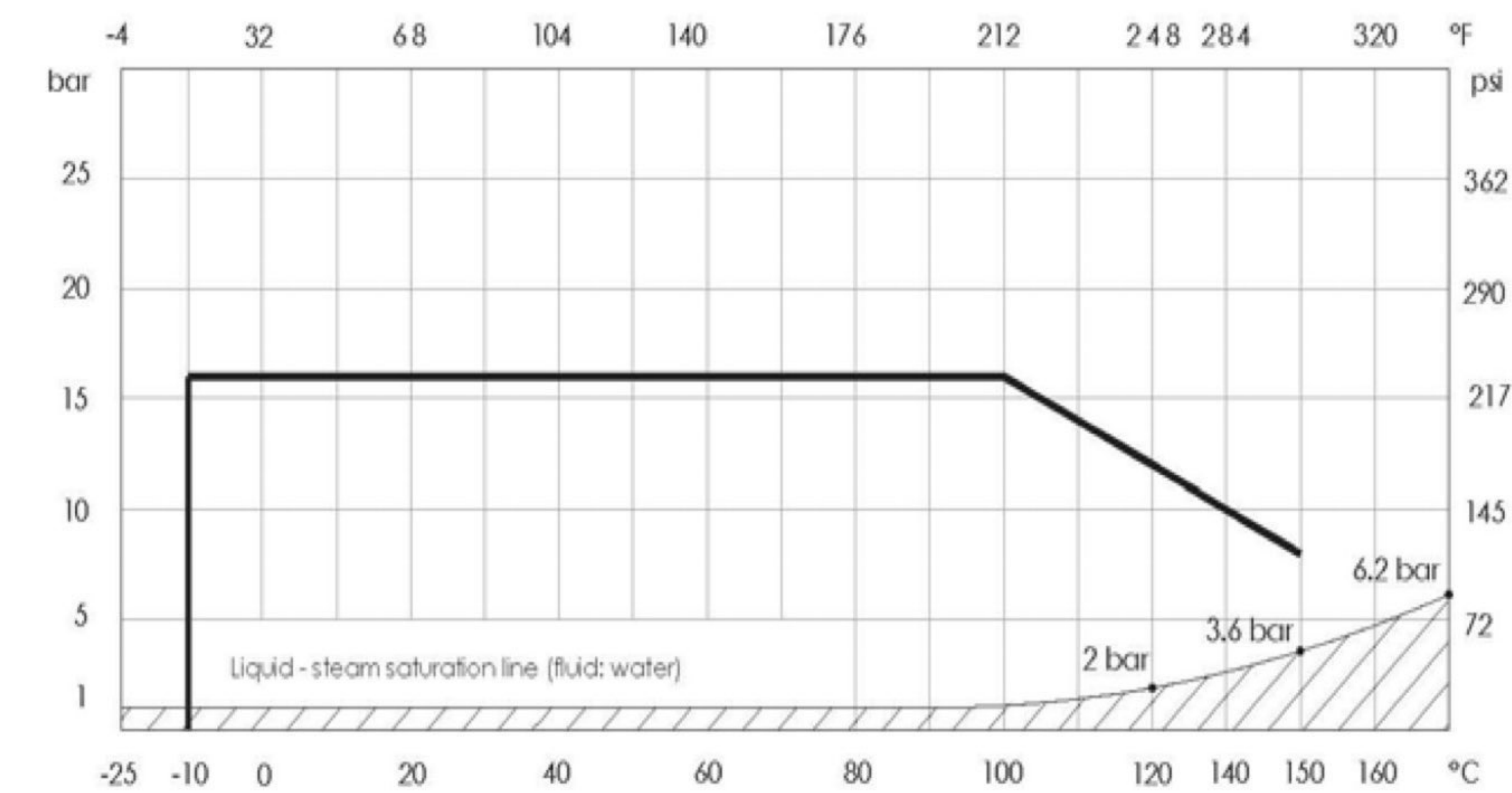
Temperature

Temperature	Min °C	Max °C	
		Continuous	Peak
NBR	-10	100	110
FKM (Viton®)	-10	150	170

NB: The maximum working pressure decreases while temperature increases, please refer to “pressure/temperature” chart

TECHNICAL DATA

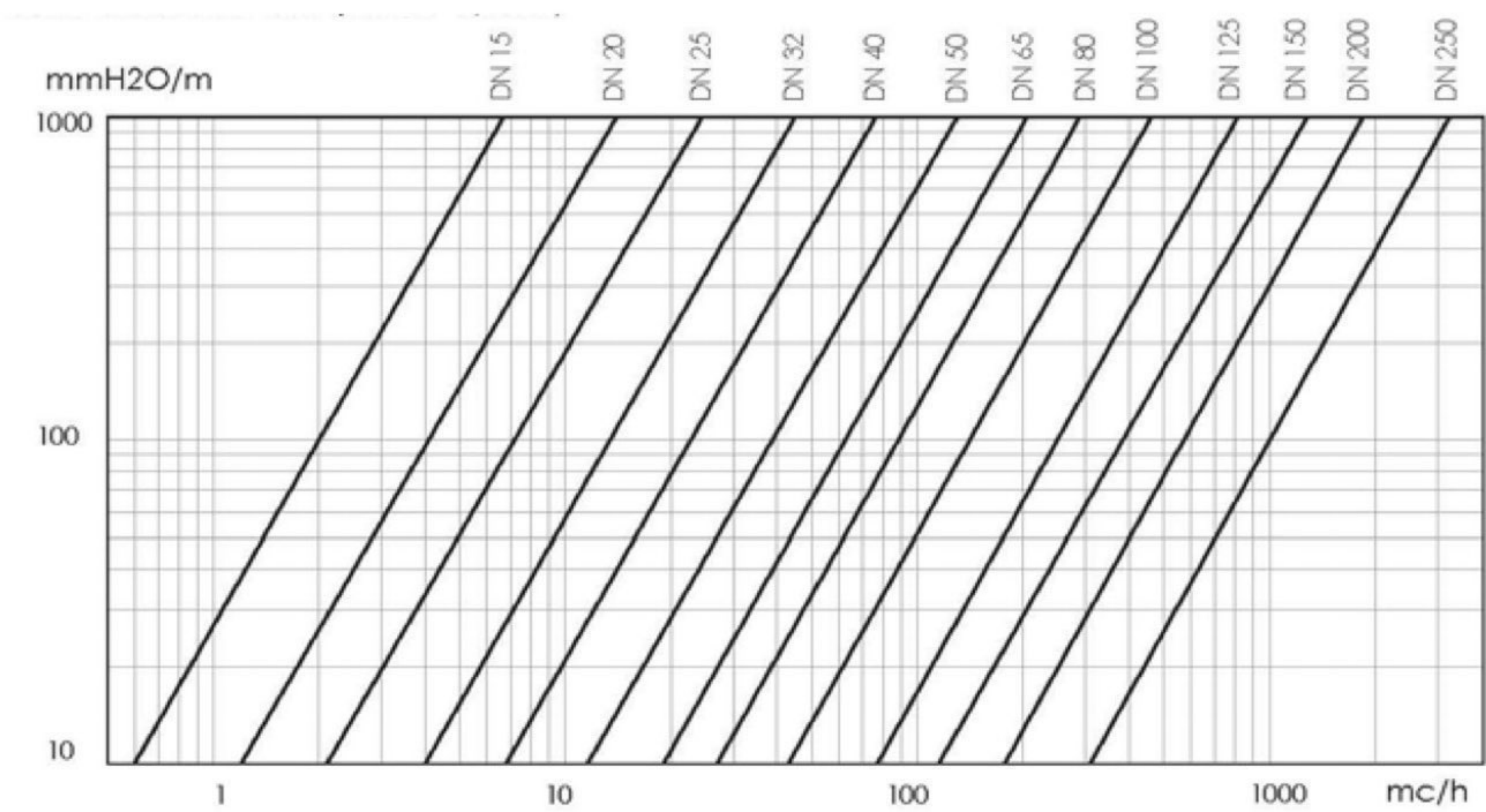
Pressure/temperature chart



RANGE NOT SUITABLE FOR STEAM. DO NOT use when temperature and pressure are below the liquid-steam saturation line (hatched area)

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Head loss fluid water (1mH2O = 0,098bar)

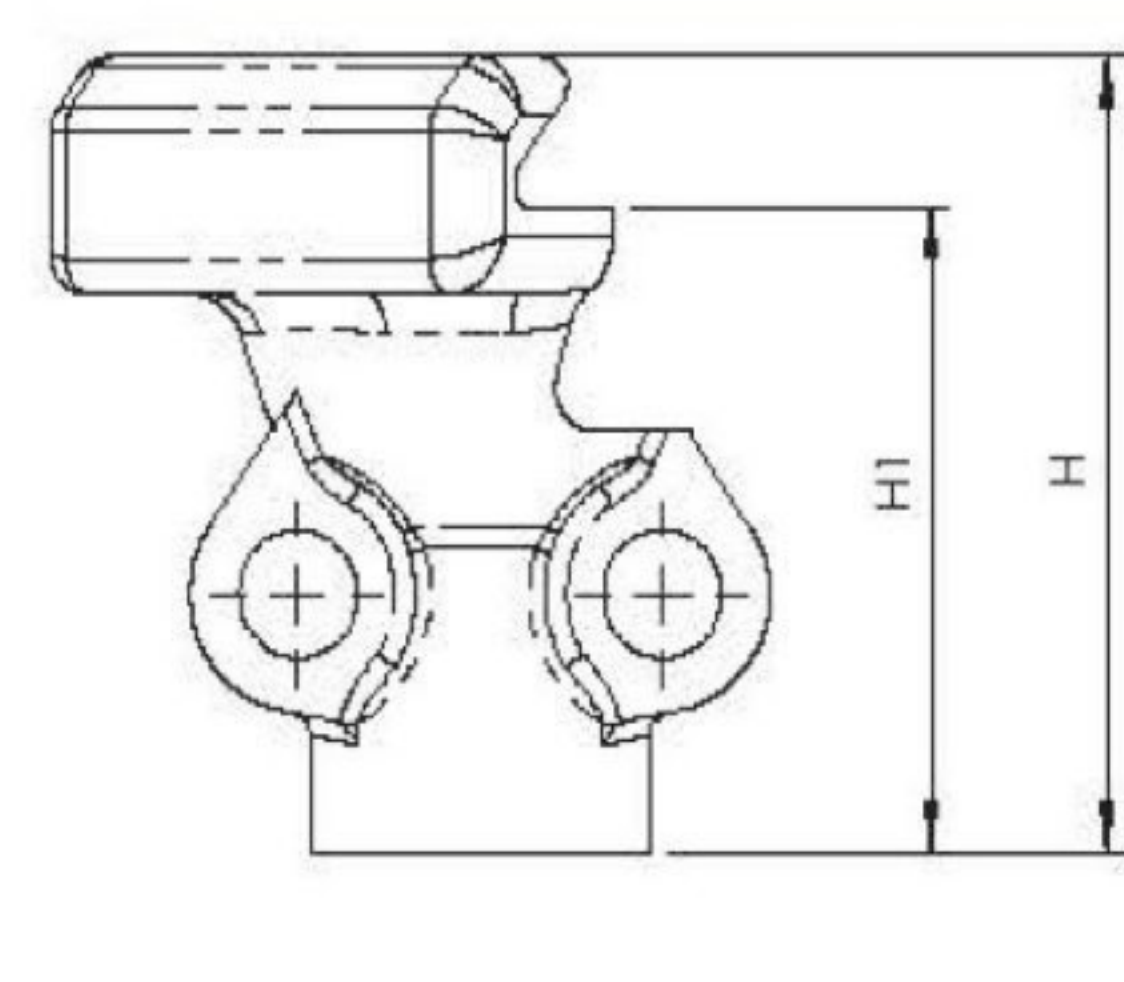


Kv - DN chart

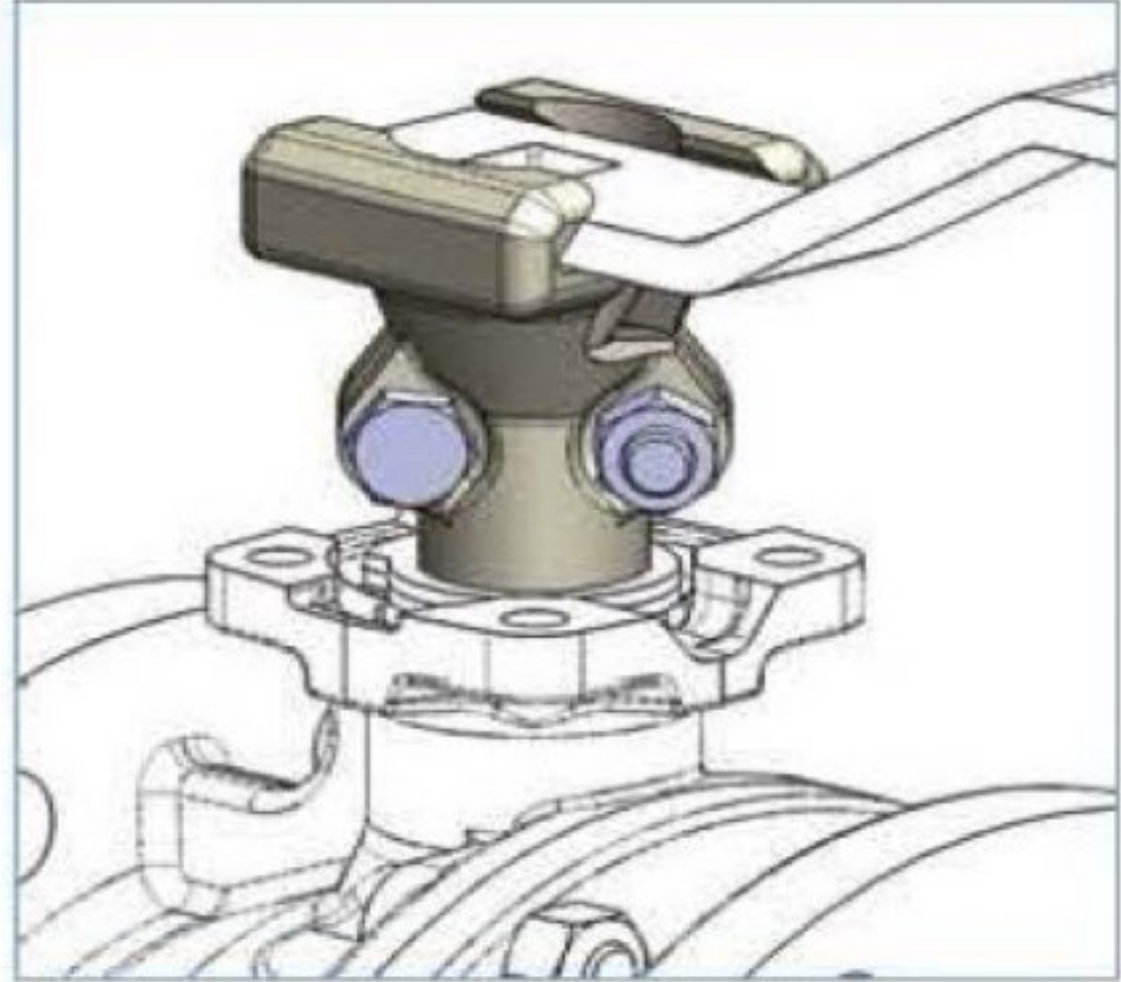
DN		15	20	25	32	40	50	65	80	100	125	150	200	250
Kv	mc/h	22,3	47,7	83,5	150,4	255	435	672	947	1508	2633	4261	5957	10510

ACCESSORIES FOR 032020

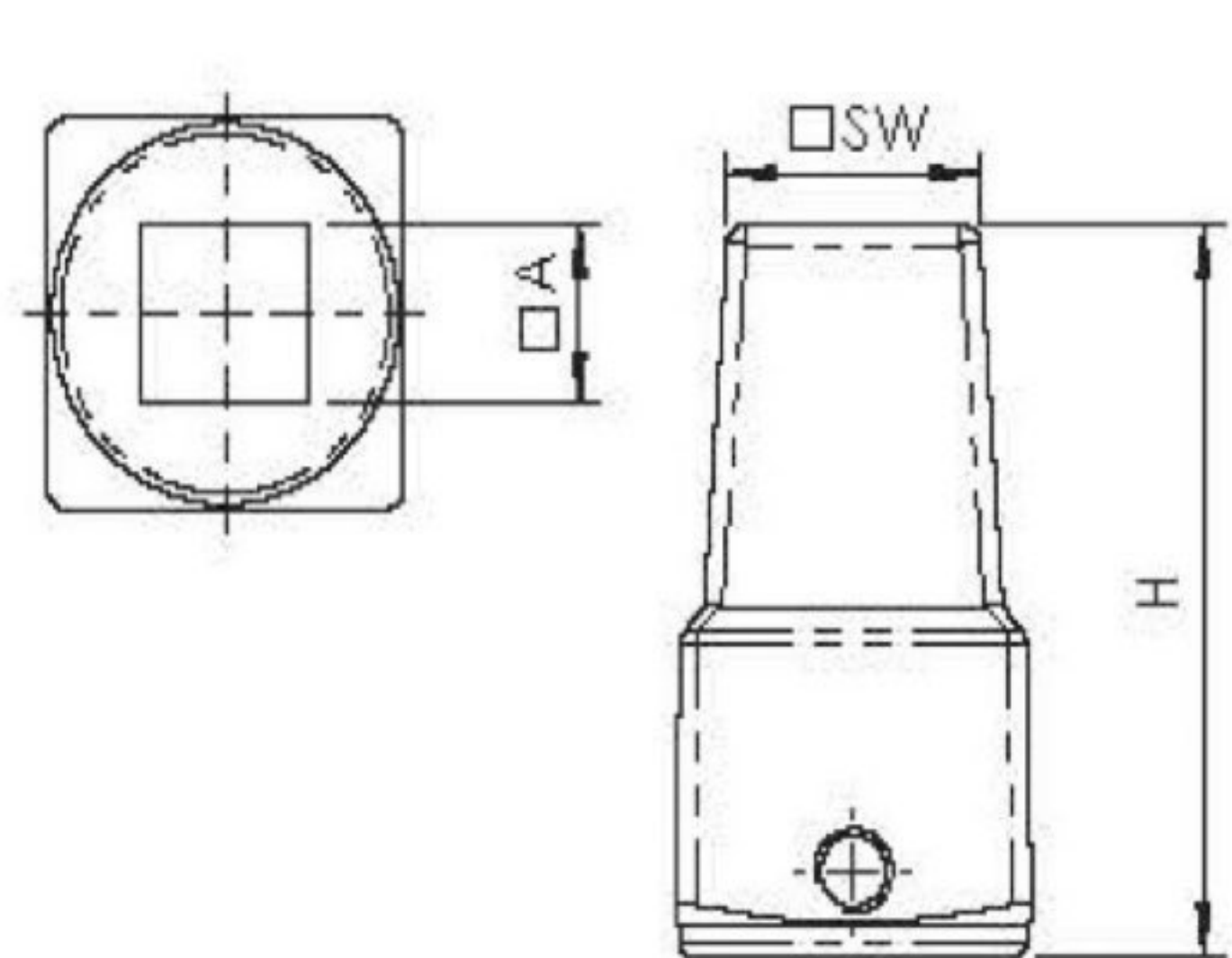
Stem extension for thermal insulation



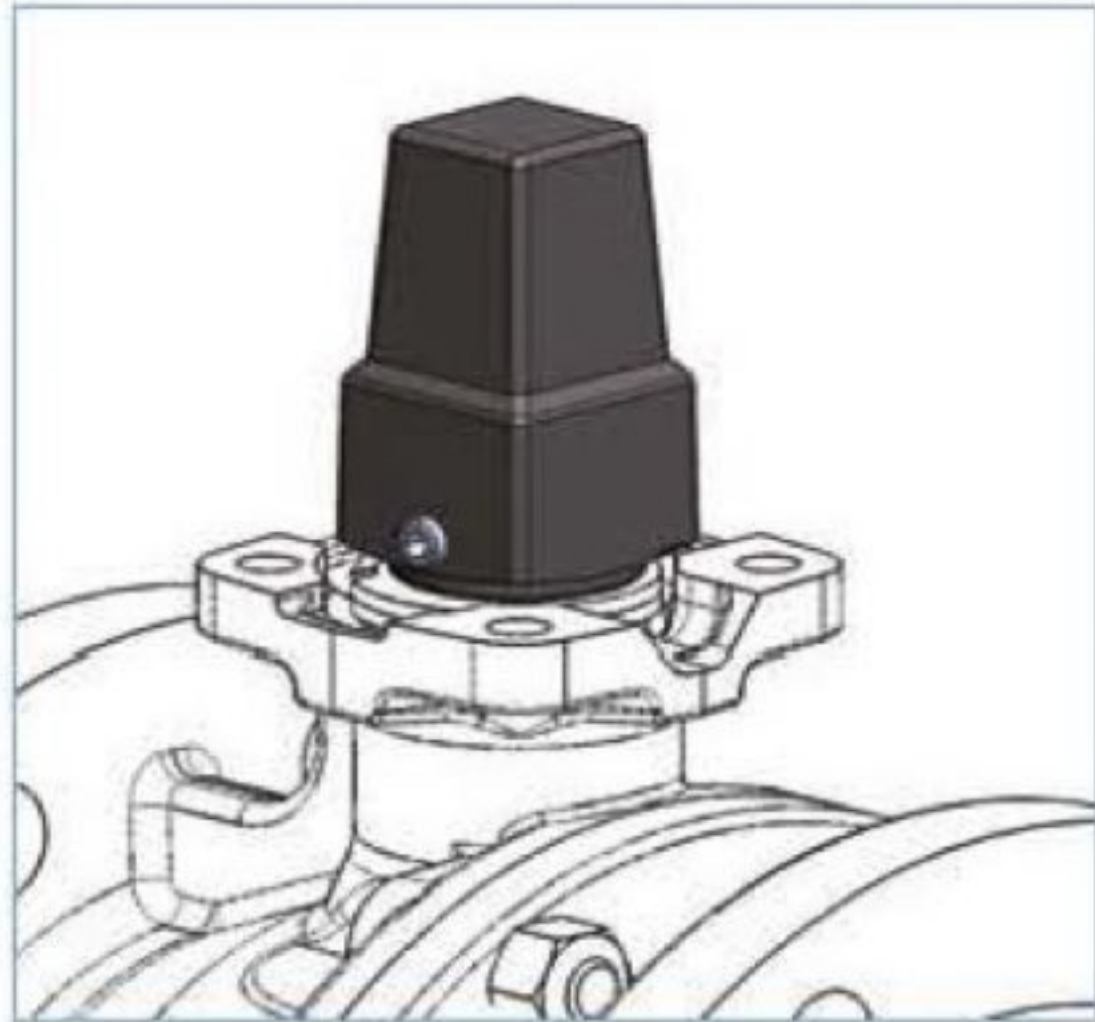
DN	40-50-65	80-100-125-150
H	68	68
H1	55	55



Square cap for water main system connection

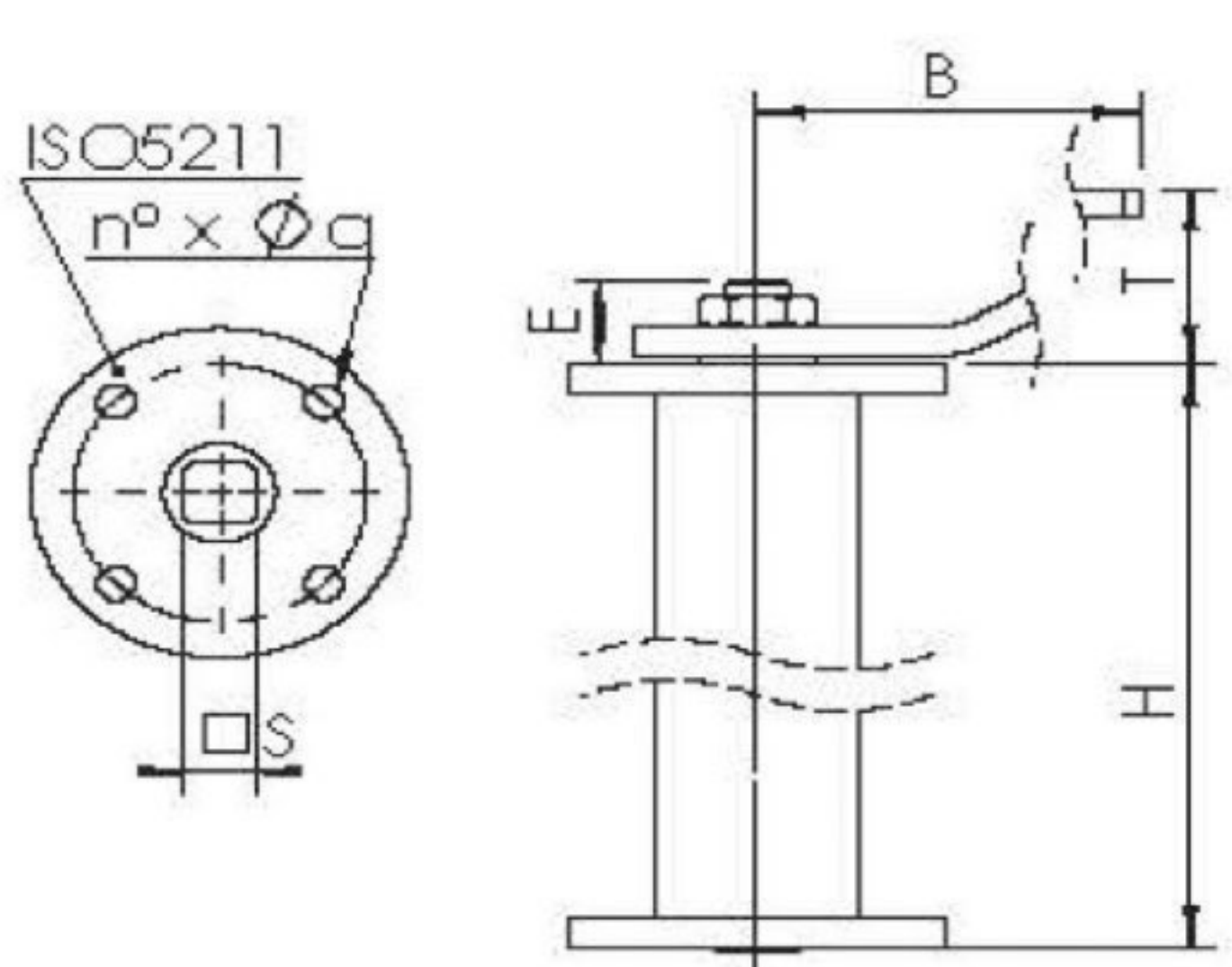


DN	40-50-65	80-100	125-150
SW	26	26	26
A	14	17	22
H	69	69	71



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Stem extension for water main systemem connection

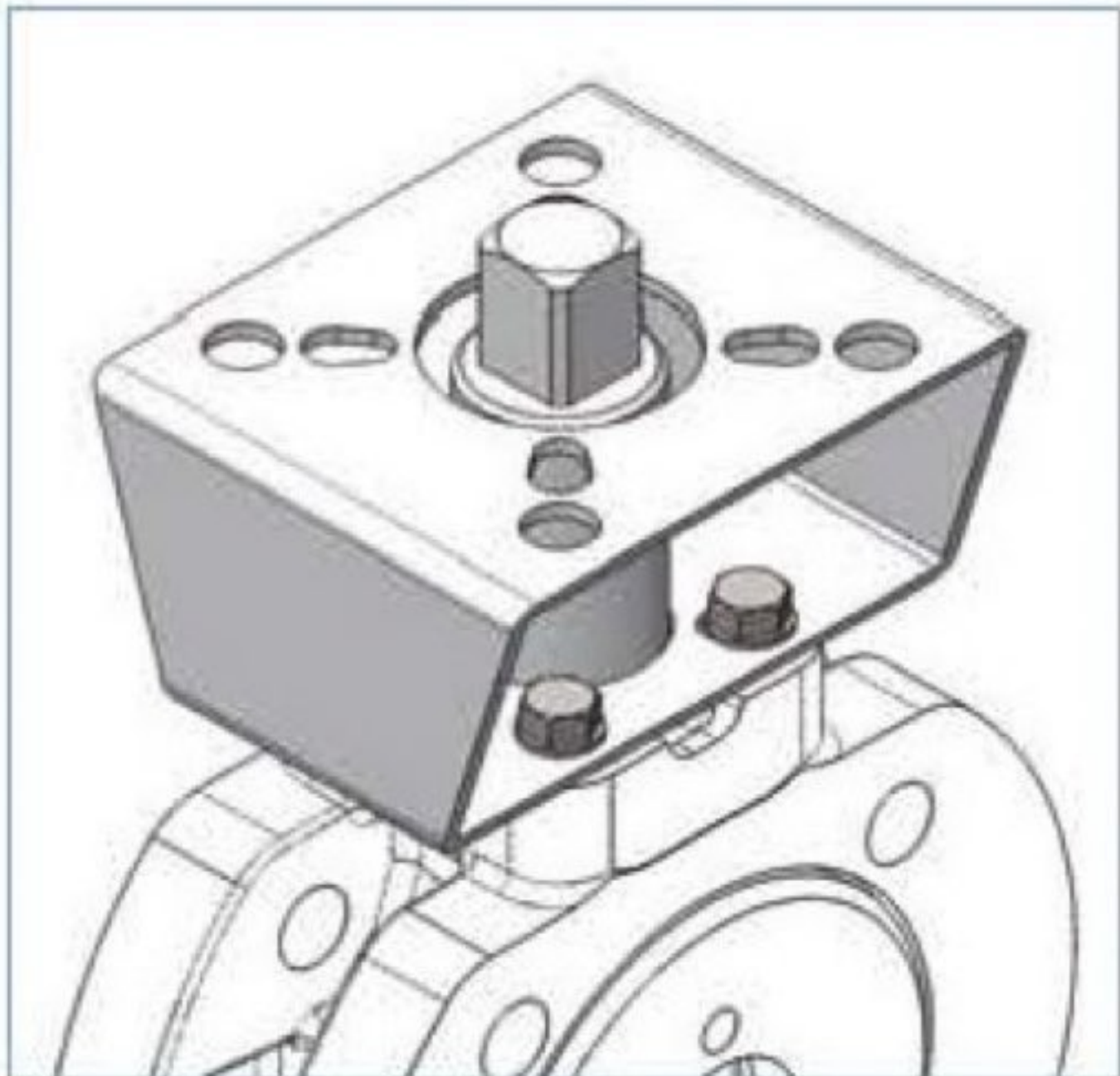
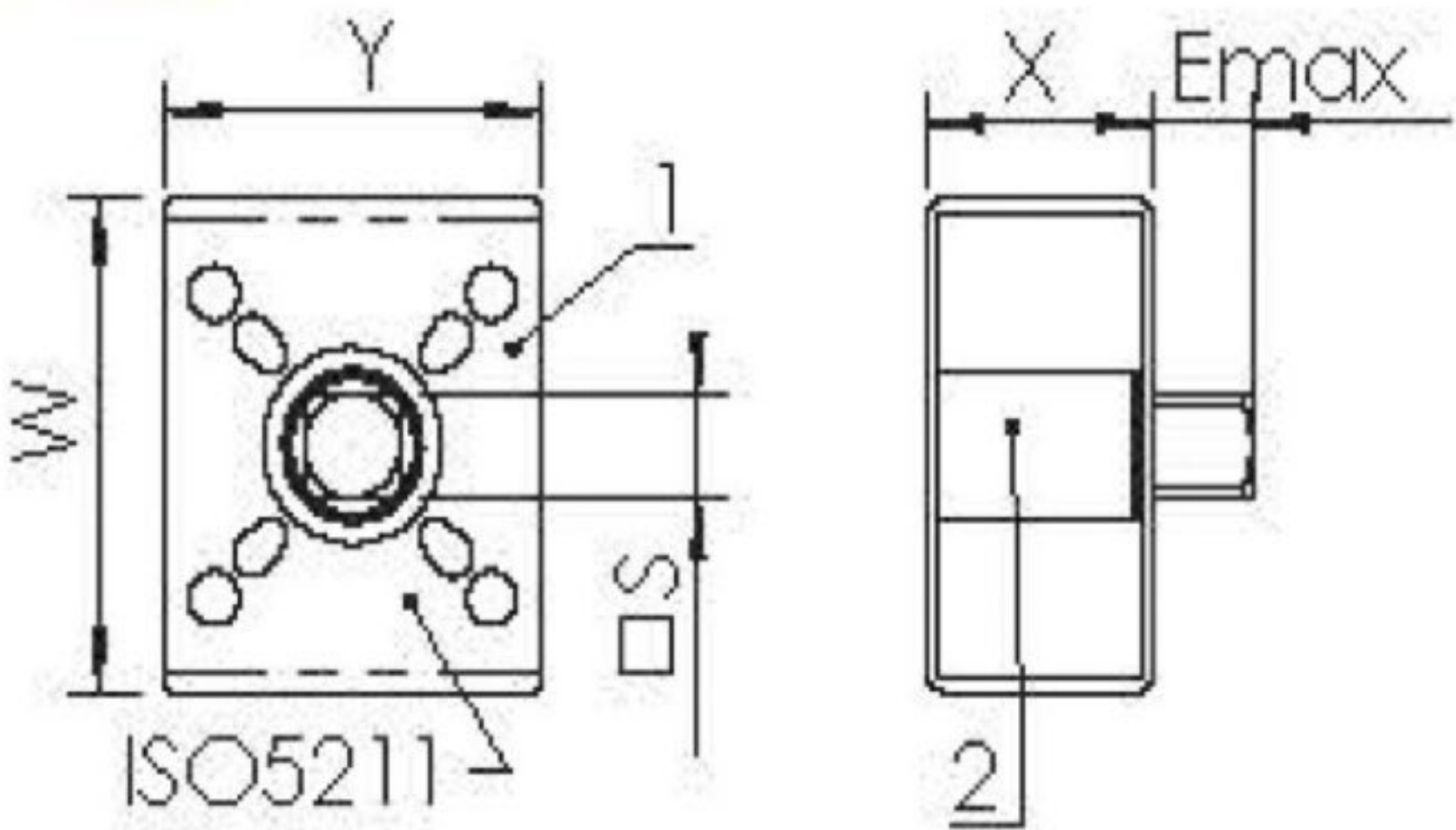


DN	40	50	65	80	100	125	150
H	250-500-800-1000						
T	48	48	48	48	48	59	59
B	230	230	230	280	360	450	560
ISO 5211	F05	F05	F05	F07	F07	F10	F10
J	50	50	50	70	70	102	102
n°xØq	4x7	4x7	4x7	4x9	4x9	4x11	4x11
E	22	22	22	23	23	27	27
S	14	14	14	17	17	22	22



ACCESSORIES FOR 032020

Kit ISO 5211 flange



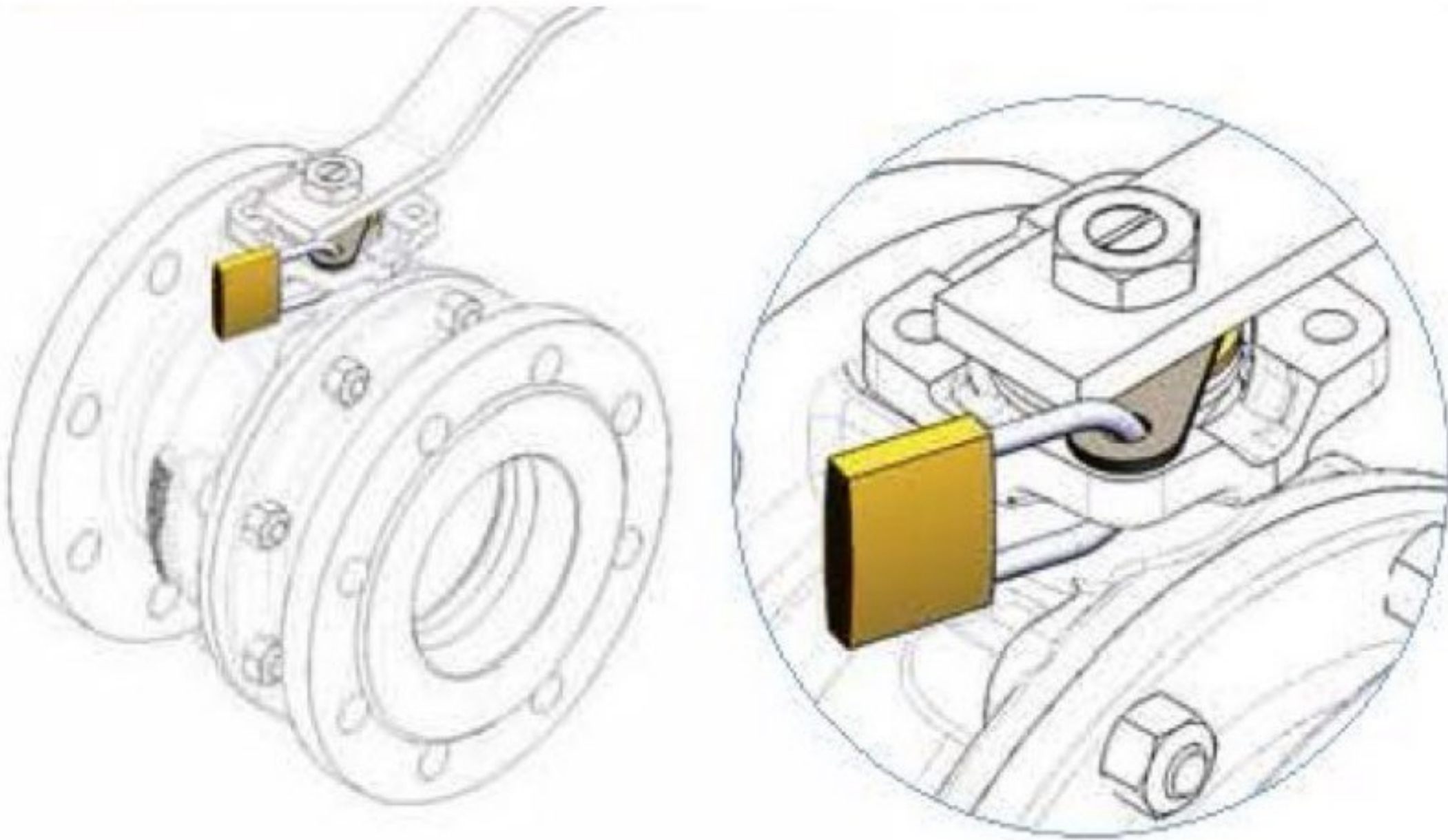
- 1) Bracket
- 2) Jointi

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DN	15-20	25-32	40-50-65	80	100	125	150
ISO 5211*	F04-05-07	F04-05-07	F05-07	F10-12	F10-12	F10-12	F10-12-14
S x E	14x14	17x17	17x17	22x22	27x27	27x27	36x36
S1 x E1**	11x11	11x11	-	-	-	-	-
Drilling	F03-04	F03-04	F05-07	F04-10	F04-10	F07-10	F10-12-14
X	40	40	50	60	60	60	80
Y	70	70	70	120	120	120	140
W	80	80	100	120	120	120	160

* Drilling actuator side **for B1 series Other top squares S on request

Kit lockable operation lever



Kit limit switches for ON/OFF position indicator

