

figure	781
ends form	threaded angle

PROPORTIONAL SAFETY VALVE

body material	nominal pressure	nominal diameter	max. temperature	ex.index
T brass	C 16 bar	DN 10-25	200°C*	781, 781.11A



CE 1433

FEATURES

- valves made according PN EN ISO 4126-1
- high thightness
  For valve with soft sealing
- quiet work of valve
- raised tightness of closure
- protection of disc sealing surface in front of stone settling as well as against any small mechanical dirt.

APPLICATION

- water
- air
- steam
- other neutral liquids, gases and vapours

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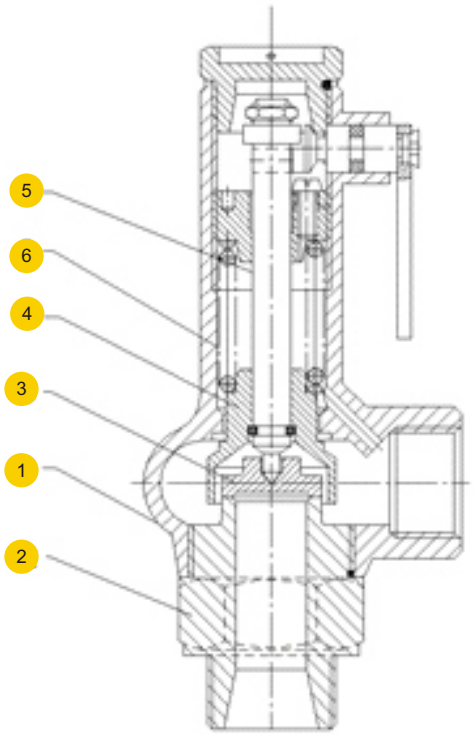
e-mail sprzedaz@armak.com.pl
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MATERIALS



	body material	T	
	type	**01-1, 02-1, 03-1, 04-1, 05-1, 06-1, 07-1, 08-1 (ex. 781)**	**01-2(3), 02-2(3), 03-2(3), 04-2(3), 05-2(3), 06-2(3) 07-2(3), 08-2(3) (ex.781.11A)**
1	body	CuZn39Pb2 (niklowany)	
2	nozzle	X39CrMo17-1	
3	disc	X39CrMo17-1	X39CrMo17-1/EPDM or /NBR
4	bell	CuZn40Pb2	
5	spindle	X20Cr13*	
6	spring	BI	
	temperature range	-10...+200°C	-10...+120°C

** for marine execution (05, 06, 07, 08) stem made of: X17CrNi16-2*

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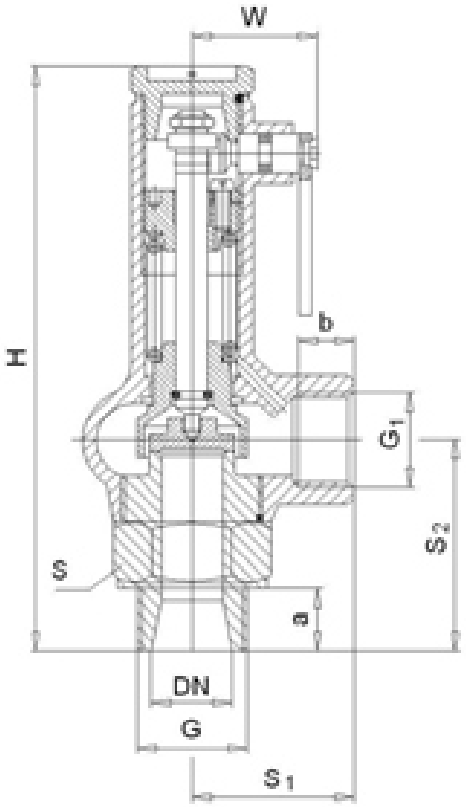
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DIMENSIONS



DN	d_o	A	G	a	G_1	b	S_1	S_2	H	S	Type 01-1, 02-1, 03-1, 04-1, 05-1, 06-1, 07-1, 08-1 Opening pressure min	max	Type 01-2(3), 02-2(3), 03-2(3), 04-2(3), 05-2(3), 06-2(3), 07-2(3), 08-2(3) Opening pressure min	max	
d1xd2	mm	mm^2	cal	mm	mm						bar		bar		kg
10x15	10	78,5	?	12	1/2	9	35	41	144	6-kt 27	0,3	16	1	16	0,67
15x15	12	113	1/21	13	1/2	9	35	44	147	6-kt 27	0,3	16	1	16	0,71
20x20	16	201	3/4	15	3/4	13	40	52	155	6 kt 32	0,3	16	1	16	0,86
25x25	20	314	1	18	1	14	50	59	162	6 kt 41	0,3	10	1	10	1,20

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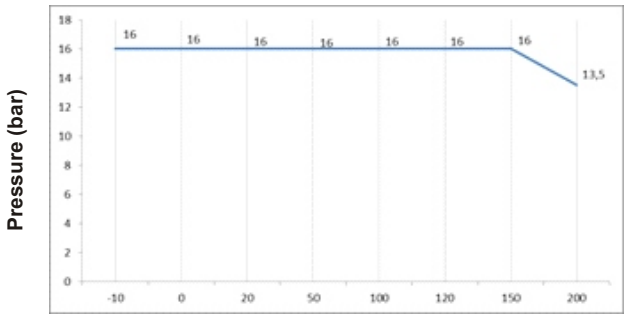
DISCHARGE COEFFICIENTS

Type of valve	DN	*For vapours and gases* α			*For liquids* α_c	
		b_1 = 0,1 bar	b_1 = 10%		b_1=10%	b_1=25%
		0,3 ≤ p < 0,5 bar	0,5≤ p < 1,5 bar	1,5 ≤ p < 16 bar		
781 type 01, 02, 05, 07	10 do 25	0,19	0,20	0,25	0,01	0,20
781 type 03, 04, 06, 08	20	-	-	-	0,20	-
	25				0,23	

NOTES

- If condensate accumulates, in the lowest point of blow-out installation should be foreseen dehydration, in case of liquids, the blow-out installation should be inclined.
- The valve should be assembled in vertical position..

PRESSURE-TEMPERATURE RATINGS



Temperature (C)

Temperatura / *Temperature (C)*

Alloved working conditions range
PN 16 CuZn39Pb2

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TYPES

figure	body material	nominal diameter DN	nominal pressure PN	type
781	T brass CuZn39Pb2	10-25 mm	C 16bar	01-1 Tmax 200 °C • normal types for gases and vapours • sealing metal/metal
				02-1 Tmax 200 °C • gas tight types for gases and vapours • sealing metal/metal
				03-1 Tmax 200 °C • type with limitation of constructional disc for liquids sealing metal/metal
				04-1 Tmax 200 °C • type with limitation of constructional disc, gas-tight sealing metal/metal
				05-1 Tmax 400 °C • marine types for gases and vapours • sealing metal/metal
				06-1 Tmax 200 °C • marine type with limitation of constructional disc sealing metal/metal
				07-1 Tmax 400 °C • marine types, gas-tight • sealing metal/metal
				08-1 Tmax 200 °C • marine type with limitation of constructional disc, gas-tight • sealing metal/metal
				01-2 Tmax 120 °C • normal types for gases and vapours • sealing disc NBR
				02-2 Tmax 120 °C • gas tight types for gases and vapours • sealing disc NBR
				03-2 Tmax 120 °C • type with limitation of constructional disc for liquids • sealing disc NBR
				04-2 Tmax 120 °C type with limitation of constructional disc, gas-tight sealing disc NBR
				05-2 Tmax 120 °C • marine types for gases and vapours • sealing disc NBR
				06-2 Tmax 120 °C • marine type with limitation of constructional disc • sealing disc NBR
				07-2 Tmax 120 °C • marine types, gas-tight • sealing disc NBR
				08-2 Tmax 120 °C • marine type with limitation of constructional disc, gas-tight • sealing disc NBR

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TYPES

figure	body material	nominal diameter DN	nominal pressure PN	type
781	T brass CuZn39Pb2	10-25 mm	C 16bar	01-3 Tmax 120 °C • normal types for gases and vapours • sealing disc EPDM
				02-3 Tmax 120 °C • gas tight types for gases and vapours • sealing disc EPDM
				03-3 Tmax 120 °C • type with limitation of constructional disc for liquids sealing disc EPDM
				04-3 Tmax 120 °C • type with limitation of constructional disc, gas-tight • sealing disc EPDM
				05-3 Tmax 120 °C • marine types for gases and vapours • sealing disc EPDM
				06-3 Tmax 120 °C • marine type with limitation of constructional disc • sealing disc EPDM
				07-3 Tmax 120 °C • marine types, gas-tight • sealing disc EPDM
				08-3 Tmax 120 °C • marine type with limitation of constructional disc, gas-tight • sealing disc EPDM

ORDERING

To place an order please use our product number (index)

figure	body material	nominal diameter DN	nominal pressure PN	type
781	T	020	C	01-1

ORDER EXAMPLE 781 T 020 C 01-1

proportional safety valve, threaded ends , angle form	781
brass CuZn39Pb2	T
nominal diameter DN20	020
nominal pressure PN16	C
normal types for gases and vapours, sealing metal/metal	01-1

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