

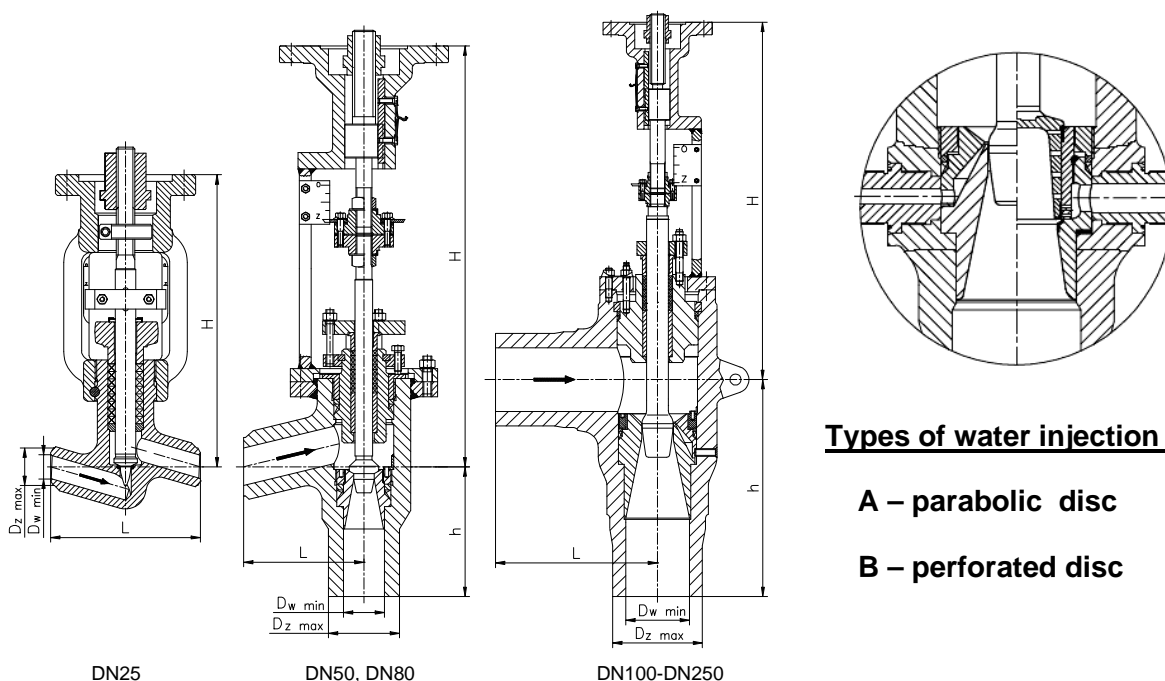
1-STAGE CONTROL VALVES type ZRK1

These are high pressure valves designed to control the flow of water and steam. They find their application in reducing and cooling stations manufactured by CHEMAR ARMATURA .

They are manufactured in following versions:

- without water injection: DN25 – DN250
- with water injection from side of the high pressure steam: DN100 – DN250
- with water injection from the side of the reduced steam and a perforated disc: DN100 -DN250

They are suitable for mounting of the actuator, manual gear box or direct handwheel.



Types of water injection :

A – parabolic disc

B – perforated disc

Dimensions and weights

DN	Version	Dimensions					Weight /kg/
		L	H	h	DW _{min}	DZ _{max}	
25	-	160	303	45	26	40	15
50	-	150	515	150	48	78	40
80	-	245	605	245	75	116	85
100	heavy	280	640	400	95	136	145
	light						120
150	heavy	360	760	480	145	200	280
	light						210
200	heavy	480	1190	650	195	277	715
	light						480
250	heavy	530	1400	720	246	326	1125
	light						850

Operating data

For valve DN 25

Maximum permissible operating pressure, PS < 260 bar												
Material of body	14MoV6-3				13CrMo4-5				P245GH			
Maximum permissible operating temperature, TS												
K _{vs} / m ³ /h /	545° C				510° C				400° C			
	0,55	1,2	2,3	4,3	0,55	1,2	2,3	4,3	0,55	1,2	2,3	4,3

For remaining sizes of valves

DN [mm]	K _{vs} / m ³ /h /		Maximum permissible operating pressure, PS	Material of body	Maximum permissible operating temp. TS
	Linear charact.	Constant-percent charact.			
50	10	11	Heavy version P 1 ≤ 260 bar	P245GH 13CrMo4-5 14MoV6-3	400° C 510° C 545° C
	18	15			
	26	22			
80	18	17	Light version P 1 ≤ 130 bar	P245GH 13CrMo4-5 14MoV6-3	400° C 510° C 545° C
	26	22			
	36	32			
100	37	32	Heavy version P 1 ≤ 220 bar	GP240GH G17CrMo5-5 G17CrMoV5-10	400° C 510° C 545° C
	47	50			
	75	60			
150	70	65	Light version P 1 ≤ 130 bar	GP240GH G17CrMo5-5 G17CrMoV5-10	400° C 510° C 545° C
	100	90			
	180	136			
200	170	150	Light version P 1 ≤ 130 bar	GP240GH G17CrMo5-5 G17CrMoV5-10	400° C 510° C 545° C
	240	220			
	370	320			
250	320	330	Light version P 1 ≤ 130 bar Heavy version P 1 ≤ 162 bar	GP240GH G17CrMo5-5 G17CrMoV5-10	400° C 510° C 545° C
	500	480			
	690	610			

Materials

Body , Bonnet	DN50-80 : P245GH, 13CrMo4-5, 14MoV6-3 DN100-250 : GP240GH, G17CrMo5-5, G17CrMoV5-10
Packing	reinforced graphite

Additional information

Product meets requirements of Directive PED: 2014/68/EU.

Acceptance tests: EN 12266-1.

Special versions on client's request are available.