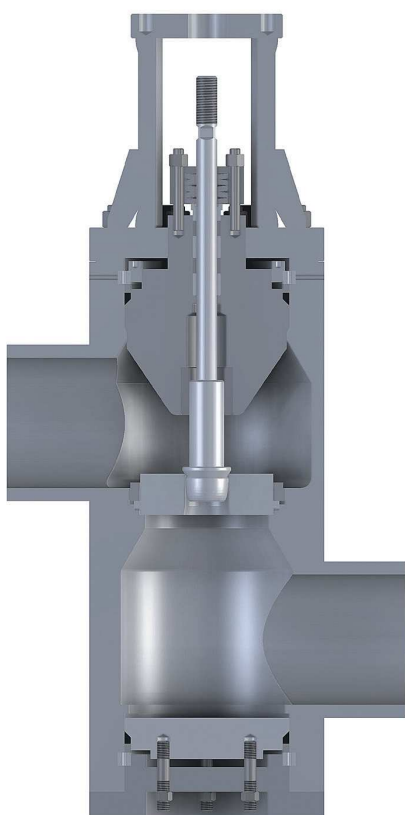


## HCVZ2 Valve



### Application

Regulatory valve of HCVZ2 type has to work with low and medium erosive media only. It is suitable to control the highly demanding parameters. It also meets demands of the time limited work at critical conditions. HCVZ2 valve also applies to flow adjustment of any liquid, as well as a steam when rather small or moderate pressure drops appear. Continuous heavy cavitation, flashing, or throttled flow call for external protection, such as an orifice or diffuser.

### Description

HCVZ2 is so-called Z-type valve (outlet and inlet connection pipes are not in line, but parallel to each other). Basically, it consists of: forged body, self-sealing inner bonnet, main plug (piston-type or perforated) with a stem driven through guide bushing, and a seat (screw-in or slip-in; the latter is pressed by screw plug). The single-stage expansion of the medium is controlled by linear shift of the plug. When media flow goes under the plug, the valve with profiled plug is recommended. HCVZ2's construction allows to increase the number of expansion's steps (additional appliances are assembled on the outlet connection pipe).

### Technical data

Nominal diameter		DN25÷DN300		
Nominal pressure		PN40÷PN400		
Connections		welding ready		
Flow coefficient Kvs		0,1÷1300 m³/h		
Body	1.0460 (P250GH)	1.4541 (X6CrNiTi18-10)	1.7715 (14MoV6-3)	1.6368 (15NiCuMoNb5-6-4)
	1.5415 (16Mo3)	1.4404 (X2CrNiMo17-12-2)	1.4903 (X10CrMoVNB9-1)	
	1.7335 (13CrMo4-5)	1.7380 (10CrMo9-10)	1.4901 (X10CrWMoVNB9-2)	
Plug	1.4541(X6CrNiTi18-10)	1.4057(X17CrNi16-2)	1.4125 (X105CrMo17)	titanium BT-9
Seat	1.4541(X6CrNiTi18-10)	1.4057(X17CrNi16-2)	1.4125 (X105CrMo17)	titanium BT-9
Stem	1.4057 (X17CrNi16-2)	1.4923 (X22CrMoV12-2)		
Hardening of the inner parts		stelliting; nitriding; hardening		
Rangeability		50:1		
Leakage class		metal/metal sealing—IV (standard); V (improved); soft sealing (NBR or PTFE)—VI (special)		
Body's gland		spiral, metal+graphite		
Seal bushing		graphite; PTFE		

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