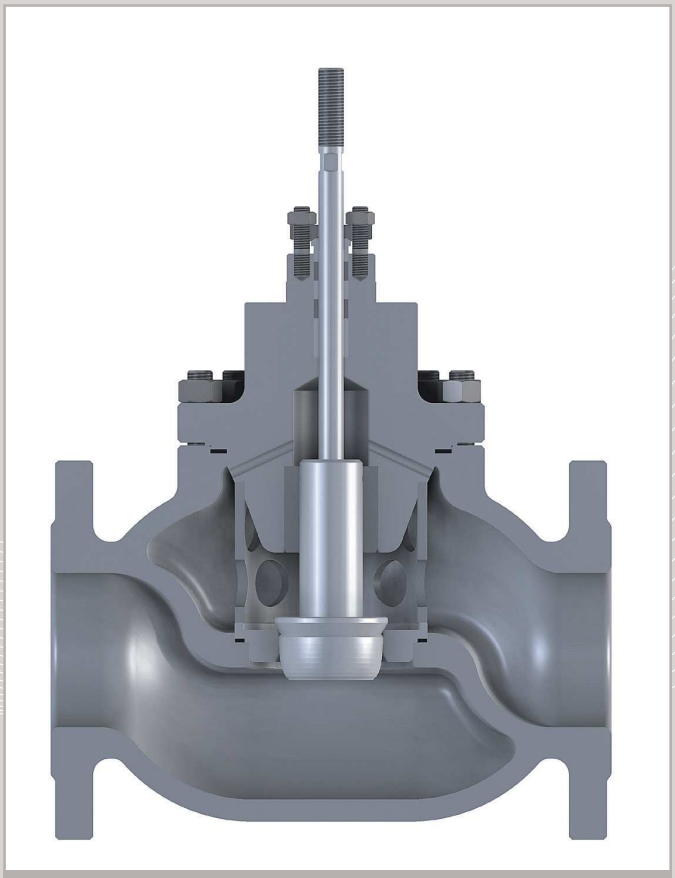
HCVA1 Valve



Application

Regulatory valve of HCVA1 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. HCVA1 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 diffusor.

Description

HCVA1 is straightway valve. Basically, it consists of body topped by the bonnet, of a plug with a stem driven through guide bushing, and of the seat fixed by construction cage. Both the bonnet and the seat are sealed with graphite spiral wound gaskets (placed in channel). Thus, disassembly and assembly of the valve are easy and do not require any special tools. The single-stage expansion of the medium is controlled by linear shift of the plug. There are two types of plug available: profiled or perforated. The former is advised when media flow goes under the plug.

Technical data

Nominal diameter	DN15÷DN300			
Nominal pressure	PN10÷PN400			
Connections	bolted flanges; welding ready			
Flow coefficient Kvs	0,1÷1300 m^3/h			
Body	1.0460 (P250GH) 1.0619 (GP240GH) 1.5415 (16Mo3) 1.7335 (13CrMo4-5)	1.5419 (G20Mo5) 1.7357 (G17CrMo5-5) 1.4541 (X6CrNiTi18-10) 1.4404 (X2CrNiMo17-12-2	1.4308 (GX5CrNi19-10) 1.4408 (GX5CrNiMo19-11-2) 1.7380 (10CrMo9-10) 1.7715 (14MoV6-3)	1.4903 (X10CrMoVNb9-1) 1.4901 (X10CrWMoVNb9-2) 1.7379 (G17CrMo9-10) 1.6368 (15NiCuMoNb5-6-4)
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)		
Cage	1.4057 (X17CrNi16-2)			
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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