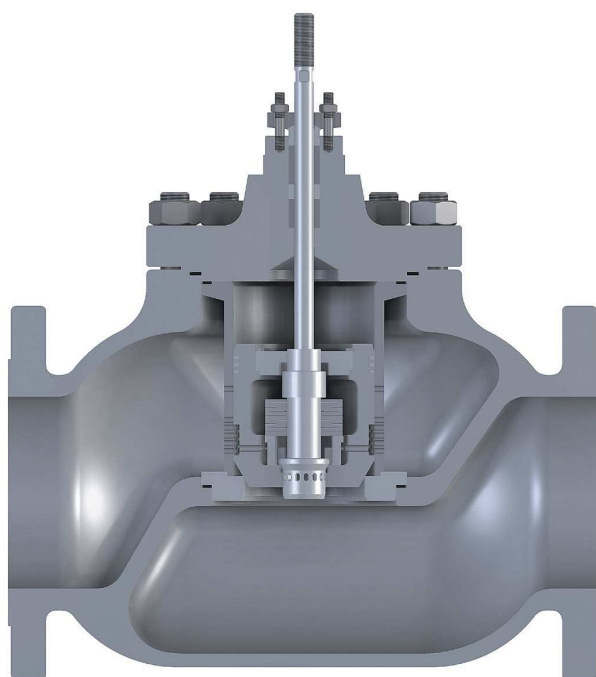


HCVB4 Valve



Application

Regulatory valve of HCVB4 type is ready to perform with heavy erosive media. It is suitable to control the highly demanding parameters, also during infinite critical conditions. Advantage of this valve is high coefficient of the pressure recycling. It perfectly fits if the reduction of noise and/or cavitation are of extreme importance. The valve also qualifies if an increased ability of the tuning is needed and/or the reduction of actuator's power.

Description

HCVB4 is straightway valve. Basically, it consists of body topped by the bonnet and the seat fixed by cage which drives a main plug coupled with pilot plug. Both the bonnet and the seat, as well as active cage, are sealed with graphite spiral wound gaskets (placed in channels). Thus, disassembly and assembly of the valve are easy and do not require any special tools. HCVB4 valve is balanced by the pilot plug working inside the main one (perforated or piston-type). A medium undergoes single-stage expansion. At the very beginning of the valve's stroke the pilot plug works. It controls small flows and reduces the pressure differences which affect the main plug. Thus, it facilitates the reduction of demanded actuator's power. If the pilot plug fully opens, the main plug of piston-type starts moving. It opens the vents of active cage. In case of perforated plug, only its perforation is responsible for pressure reduction; the cage does not. HCVB4 valve works with media flow directed over the plug.

Technical data

Nominal diameter	DN50÷DN300			
Nominal pressure	PN10÷PN400			
Connections	bolted flanges; welding ready			
Flow coefficient Kvs	40÷1300 m ³ /h			
Body	1.0460 (P250GH)	1.5419 (G20Mo5)	1.4308 (GX5CrNi19-10)	1.4903 (X10CrMoVNB9-1)
	1.0619 (GP240GH)	1.7357 (G17CrMo5-5)	1.4408 (GX5CrNiMo19-11-2)	1.4901 (X10CrWMoVNB9-2)
	1.5415 (16Mo3)	1.4541 (X6CrNiTi18-10)	1.7380 (10CrMo9-10)	1.7379 (G17CrMo9-10)
	1.7335 (13CrMo4-5)	1.4404 (X2CrNiMo17-12-2)	1.7715 (14MoV6-3)	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	stellite; nitriding; hardening			
Rangeability	200:1			
Leakage class	metal/metal sealing – IV (standard); V (improved)			
Body's gland	spiral, metal+graphite			
Seal bushing	graphite; PTFE			



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