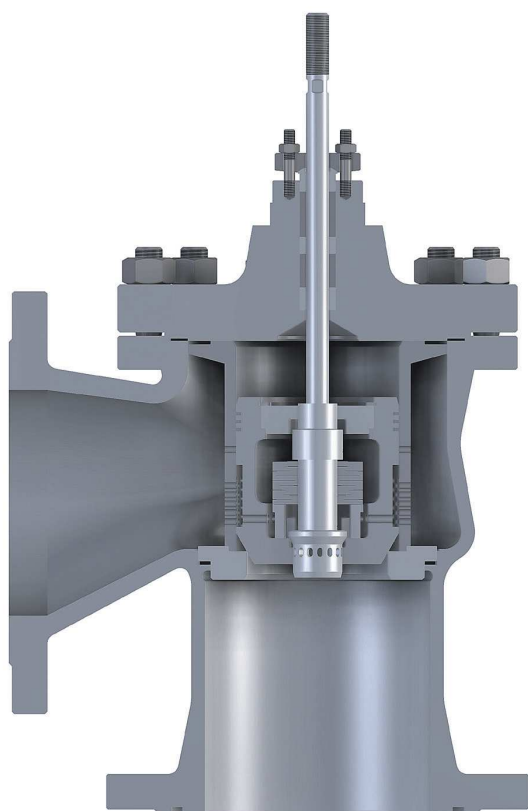


HCVK2 Valve



Application

Regulatory valve of HCVK2 type is ready to perform with heavy erosive media. It is suitable to control the highly demanding parameters, also during infinite critical conditions. High coefficient of the pressure recycling is the advantage of this valve. 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

HCVK2 valve has an angular casted body topped by the bonnet. The seat is fixed by cage which drives a main plug (piston-type or perforated, pressure balanced by inner plug—so called 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. 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. The reduced dynamic forces acting on main plug might permit choosing a smaller actuator. If the pilot plug fully opens, the main plug starts moving. Piston-type one opens the vents of active cage. In case of perforated plug, only its perforation is responsible for pressure reduction; the cage does not. HCVK2 valve works with media flow directed over the plug.

Technical data

Nominal diameter	DN80÷DN250			
Nominal pressure	PN10÷PN40			
Connections	bolted flanges; welding ready			
Flow coefficient Kvs	40÷800 m³/h			
Body	1.0619 (GP240GH) 1.5419 (G20Mo5)	1.7357 (G17CrMo5-5) 1.4308 (GX5CrNi19-10)	1.4408 (GX5CrNiMo19-11-2)	1.7379 (G17CrMo9-10)
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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