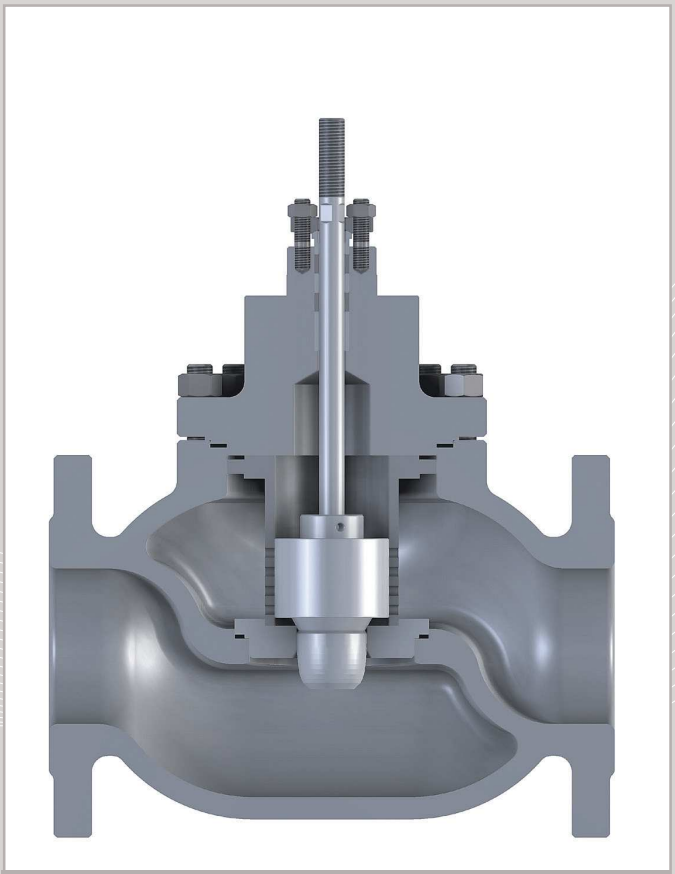
HCVB5 Valve



Application

Regulatory valve of HCVB5 type is ready to perform with heavy erosive media. It is suitable to control the highly demanding parameters, also during infinite critical conditions. Two-step pressure reduction with pressure recycling allows to limit cavitation and throttled flow within the valve's whole regulatory range. Thanks to that HCVB5 valves often control condensate's flow.

Description

HCVB5 is straightway valve. Basically, it consists of body topped by the bonnet and the seat fixed by cage which drives a two-step plug. Both the bonnet and the seat, as well as 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 two-step expansion. At the very beginning by profiled or perforated part of the plug, and next in active cage's vents gradually open when the piston-type plug moves. HCVB5 valve can be balanced by means of packing. It results in the reduction of demanded actuator's power. The valve with balanced plug resides in class IV leakage allowable. HCVB5 valve works with media flow directed under the plug.

Technical data

Nominal diameter	DN40÷DN300			
Nominal pressure	PN10÷PN400			
Connections	bolted flanges; welding ready			
Flow coefficient Kvs	6,3÷800 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)			
Body's gland	spiral, metal+graphite			
Seal bushing	graphite; PTFE			

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