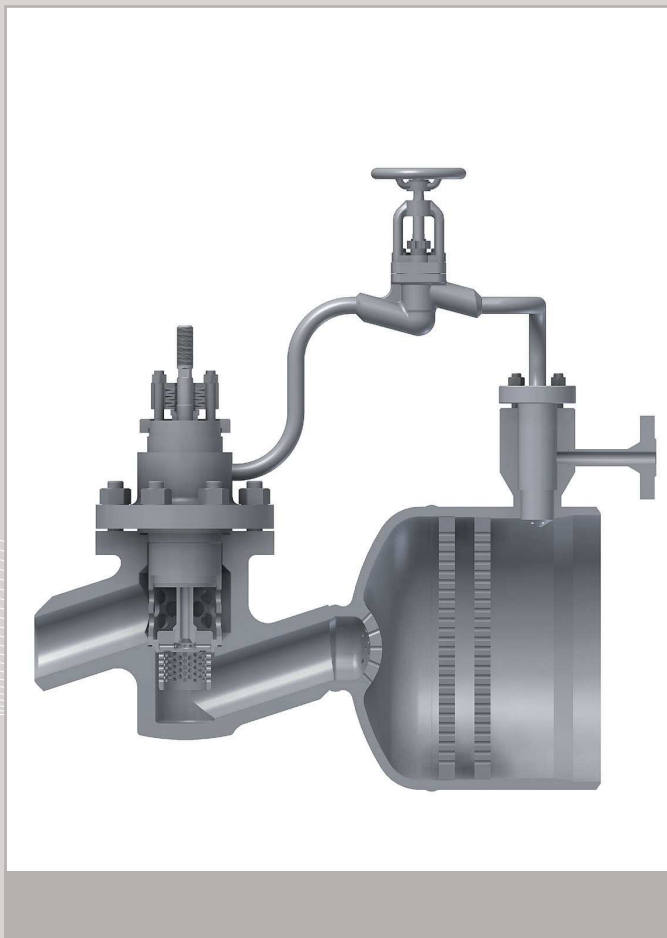


HCVAC1 Valve



Application

HCVAC1 steam conditioning valve combines pressure and temperature control in a single valve and is commonly used in process steam systems.

Description

HCVAC1 is straightway valve. It incorporates a spraywater manifold and atomizing steam implementation downstream of its pressure reduction stage. Its pressure-reducing device (steam sparger) is regulatory valve with perforated plug (with a stem driven through guide bushing) and slip-in seat fixed by construction cage. A medium undergoes multistep expansion. Firstly, the expansion occurs on the perforated plug itself. Next steps are up to throttling plates fixed at the valve's outlet. Their number coincides with the given work characteristics of the valve. Water injection follows the complete steam expansion. Drilled stem feeds the atomizer with steam entering pressure-reducing portion of the valve. The occurrence of smaller droplets permits the water to remain suspended and its almost immediate absorption by the steam's stream. Any control of coolant's flow demands an implementation of additional injection valve.

Technical data

	inlet		outlet	connection pipe of injected water
Nominal diameter	DN25÷DN300		according to patron's demand	DN15÷DN50
Nominal pressure	PN40÷PN400		PN16÷PN400	PN40÷PN400
Connections	welding ready		bolted flanges; welding ready	
Flow coefficient Kvs	10÷1000 m ³ /h			
Body	1.0460 (P250GH)	1.7335 (13CrMo4-5)	1.7380 (10CrMo9-10)	1.4901 (X10CrWMoVNB9-2)
	1.0619 (GP240GH)	1.5419 (G20Mo5)	1.7715 (14MoV6-3)	1.7379 (G17CrMo9-10)
	1.5415 (16Mo3)	1.7357 (G17CrMo5-5)	1.4903 (X10CrMoVNB9-1)	
Plug	1.4541 (X6CrNiTi18-10)	1.4057 (X17CrNi16-2)	1.4125 (X105CrMo17)	
Seat	1.4541 (X6CrNiTi18-10)	1.4057 (X17CrNi16-2)	1.4125 (X105CrMo17)	
Stem	1.4057 (X17CrNi16-2)	1.4923 (X22CrMoV12-2)		
Cage	1.4057 (X17CrNi16-2)			
Hardening of the inner parts	stellite; nitriding; hardening			
Rangeability	50:1			
Leakage class	metal/metal sealing-IV (standard); V (improved)			
Body's gland	trapezoid, graphite			
Seal bushing	graphite			

INTEC

Industrial Automatics Enterprise INTEC Ltd. Co.
ul. Bacciarellego 54, 51-649 Wrocław, Poland
tel./fax: + 48 71 348 18 18, e-mail: biuro@intec.com.pl
www.intec.com.pl

WK[®]

WAKMET Industrial Valves Factory UItD.
Bodzanów 75, 48-340 Gliucholazy 1, Poland
tel./fax: + 48 77 439 40 20, e-mail: wakmet@wakmet.com.pl
www.wakmet.com.pl