## **ECV Valve**



## **Application**

Regulatory valve of ECV type has to work with low erosive media only. It is suitable to control given parameter when rather small pressure drops appear. It also meets demands of the time limited work at critical conditions. Continuous heavy cavitation, flashing, or throttled flow call for external protection, such as an orifice or diffusor. ECV valve often is employed as highly precise manual bypass valve.

## Description

ECV is straightway valve. Basically, it consists of body with padded seat and a plug with a stem driven through guide bushing. The body is topped by the bonnet and sealed with graphite spiral wound gasket (placed in channel). 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

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Nominal diameter		DN15÷DN300			
Nominal pressure		PN10÷PN400			
Connections		bolted flanges; welding ready			
Flow coefficient Kvs		0,1÷1300 m³/h		1.4903 (X10CrMoVNb9-1)	
1.0460 1.0619 Body 1.5415		P250GH) (GP240GH) (16Mo3)	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)	1.4901 (X10CrWMoVNB5-2 1.7379 (G17CrMo9-10) 1.6368 (15NiCuMoNb5-6-4
		35 (13CrMo4-5)	1.4057(X17CrNl16-2)	1.4125 (X105CrMo17)	titanium BT-9
Plug		1.704 (2.000)			
Seat	stellite	(40 a)			
Stem	1.4057	(X17CrNi16-2)			
Hardening of the inner parts		stelliting; nitriding; hardening			
Rangeability		50:1 (Special)			
Leakage class		50:1  metal/metal sealing – IV (standard); V (improved); soft sealing (NBR or PTFE) – VI (special)			
		spiral, metal+graphite			
Body's gland		graphite; PTFE			
Seal bushing		9. 1			