





"ADCATROL" CONTROL VALVES V25 (EN)

(V25 globe control valves suitable for linear actuators PA and EL series)

DESCRIPTION

The V25 control valves are single seated, two-way body constructed with in-line straight connections. The valves can be supplied with PA pneumatic actuator-rubber diaphragm and multi-springs DA-direct action (air to close) or RA-reverse action (air to open) or they can also be supplied with EL electric actuators. The V25 valves have been designed to assure an accurate control in any process condition. Their wide application ranges allows the use of this valve with the most common process fluids such as water, superheated water, steam, air, gas and other non corrosive fluids.

MAIN FEATURES

AVAILABLE

ACTUATORS:

MODELS:

Single seated, two ways, direct or reverse action valve. Valve top flange permanently attached to the body, removal is unnecessary for replacing the actuator. Metal to metal or soft sealing.



OPTIONS: Perforated low noise plug

Bellows sealed

Stainless steel construction.

BONNET: From -5°C to +220°C (standard)

Finned for temperature >220°C

USE: Saturated and superheated steam.

Hot and superheated water.

Air, gases and other noncorrosive

fluids.

STEM SEALING:

PTFE/GR V-Rings - up to 220°C

(Standard bonnet) Graphite - up to 400°C

(Finned bonnet)

Stainless steel bellows

V25G and V25S

PLUG

VALVE SIZES: DN125 to DN150

CHARACTERISTICS: EQP - Equal percentage

PL - Linear

PT - On-Off

CONNECTIONS: Flanged EN1092-1/-2 PN16 - PN40

PLUG DESIGN: Contoured (on request)

V-ported Perforated

HOW TO SELECT: Never size the valve according to the pipe diameter in which it has to be fitted but according to the

PA or EL series

required actual flow of steam or water. Refer to valve

calculation data sheet or consult the factory.

(Low noise, anti-cavitation)

PORT: Full port or reduced on request

CE MARKING (PED - European Directive 97/23/EC)				
PN 16	PN 25	PN 40	Category	
DN125 to DN150	DN125	/	1 (CE Marked)	
1	DN150	DN125 to DN150	2 (CE Marked)	

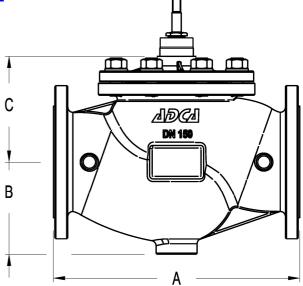






VALVE BODY LIMITING CONDITIONS			
V25G - PN16 *		V25S - PN40 *	
ALLOWABLE PRESSURES	RELATED TEMP.	ALLOWABLE PRESSURES	RELATED TEMP.
16 bar	-10/50 ºC	40 bar	-10 /50º C
13,3 bar	200 ºC	33,3 bar	200 ºC
12,1 bar	250 ºC	27,6 bar	300 ºC
11 bar	300 ºC	25,7 bar	350 ºC
10,2	350 ºC	23,8 bar	400 ºC

Note: Maximum temperature limited to the valve packing selected. Valves with soft seat , maximum allowable temperature : 200°C



DIMENSIONS - STROKE - FLOW RATE COEFICIENTS								
	В	C (mm) BONNET		STROKE (mm)	Kvs (m3/h)			
DN	DN A B (mm) (mm)				V-Ported	Perforated	Perforated	
	()	()	STANDARD	EXTENDED	()	EQP & PL*	PL	EQP
125	400	135	183	580	40	230,6	180	121
150	480	150	200	595	40/50	316,1	260	189

^{*}PL characteristic can be used also for on-off (PT) control.

Perforated plugs and on-off valves may have different strokes, please see IS PV10.00 E or consult factory.

Kvs in m3/h , see data sheet IS PV10.00 E ; For conversion Kvs = $Cv(US) \times 0.855$

PLUG DESIGN				
V - Ported Equal percentage - EQP	V - Ported Linear - PL			

V-Ported and perforated plugs are also available in balanced pressure version.



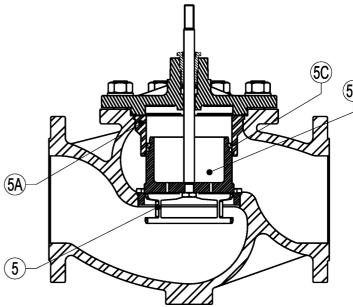
^{*}Rating according to EN 1092-1:2007

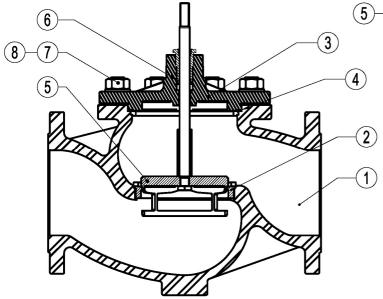




MATERIALS				
POS.	DESIGNATION	MATERIAL V25G - V25S		
1	Valve Body	ASTM A216WCB / 1.0619 ; GP240GH / 1.0619		
2	*Seat	Stainless steel		
3	Bonnet	ASTM A216WCB / 1.0619 ; GP240GH / 1.0619		
4	*Gasket	Stainless steel / Graphite		
5	*Valve plug	Stainless steel		
5A	*Valve sleeve	Stainless steel		
5B	Balance piston	Stainless steel		
5C	Sealing rings	St.St./Graphite		
6	*Standard packing	Graphite		
7,8	Bolts and Nuts	Steel		

^{*} Available spare parts





VALVE DESIGN - FLOW DIRECTION					
STANDARD V - PORTED PLUG			BALANCED PERFORATED PLUG		