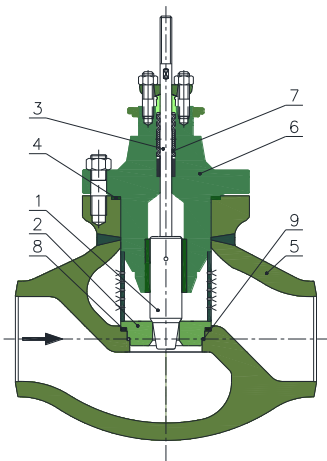


HCVA2 PN250÷PN600 GLOBE CONTROL VALVE TECHNICAL BRIEF

	Client:	Quotation No:	Valve desc:	KKS:	Valve specification:
---	---------	---------------	-------------	------	----------------------



High Trim Control Valves **HCVA** are dedicated to operate under extremely tough conditions PN40+600, T(-50+600°C). The construction is based on cast body for PN40+160 and cored forged shape body for PN250+600, which is unique. The seat is put-in type, sealed with spiral gasket and additionally by metal C-ring. A wide variety of different trim designs makes the valves able to cope with heavy cavitation, flashing, choked flow and noise excessive conditions. This particular **HCVA2** type is applicable specially as water-injection valve, all kinds of other liquids flow regulating and small and medium steam pressure reduction valve. The valve works with FTO direction

Benefits:

Interchangeable trim designs of wide variety
Rangeability 1:100 available
High leakage class available
Metal/metal planed bonnet with spiral gasket
Any soft seals inside the body
Easy maintenance – put-in seat.
Butt weld ends / flange connection matching the pipe size
All actuator systems are adaptable

Alternative solutions: Economic- MCV

Rangeability:	1:50 (standard), 1:100 (option)
Profiled plug 100% open- main coefficients	FL=0,91; XT=0,73; Fd=0,40; xFz=0,67
Perforated plug 100% open- main coefficients	FL=0,96; XT=0,78; Fd=0,1; xFz=0,75

Kvs	Stroke	Seat diam.C	Seat diam.P	DN min	DN max
0,1	20	6	-	15	50
0,16	20	6	-	15	50
0,25	20	6	-	15	50
0,4	20	6	-	15	50
0,63	20	6	-	15	50
1	20	9	9	15	50
1,6	20	9	14	15	50
2,5	20	14	14	15	50
4	20	14	19	15	50
6,3	20	19	19	20	50
10	20	19	25	25	50
16	20	25	34	32	65
25	20	34	44	40	80
40	20	44	50	50	100
63	40	50	70	65	150
94	40	70	90	80	200
125	40	90	100	100	250
160	40	100	110	125	250
250	50	110	125	150	250
320	50	125	160	150	250
500	63	160	194	200	300
630	63	194	194	200	300
800	100	194	240	250	300
1000	100	240	240	300	300
1300	100	240	270	300	300

C – profiled plug, P – perforated plug

Part No	Part Name	Specification, position	Symbol	Material/performance	Part No	Part Name	Specification, position	Symbol	Material/performance
1	Plug	X1 Performance	C	Profiled	5	Body	X8 Performance	1	DIN/PN Flanged
			P	Perforated				2	ANSI Flanged
			U	Unbalanced				3	BW Standard
		X3 Material	1	1.4571			4	BW Specified	
			2	1.4571+stellite			1	1.0460	
			3	1.4571+nitrogen			3	1.5415	
			4	1.4057 hard. 35 HRC			4	1.7335	
			5	1.4125 hard. 55 HRC			7	1.4541	
			33	Other			8	1.4404	
		X4 Characteristic	L	Linear			11	1.7380	
			P	Equal-percentage			12	1.7715	
			M	Modified			13	1.4903 (P91)	
			S	Other			14	1.4901 (P92)	
			1	1.4571			33	Other	
			2	1.4541+Stellite					
2	Seat	X5 Material	3	1.4571+PTFE	6	Bonnet	X10 Performance	1	Standard
			4	1.4571+NBR				2	Spring strained
			5	1.4057 hard. 35 HRC				3	TA-LUFT
			6	1.4125 hard. 55 HRC				4	Bellows
			33	Other					
			1	IV Standard					
			2	V Enhanced					
-	-	X6 Leakage class EN-60534-4			7	Packing	X11 Material/ Performance	1	PTFE
			2	PTFE V					
			3	PTFE Oxygen					
-	-	X7 Flow Direction	FO	Flow to Open				4	Graphite Braided
								5	Graphite Expanded
3	Stem		1.4571, 1.4057 Hardened 35 HRC	8	Seat Gasket		1.4404+Graphite Spiral		
4	Body Gasket		1.4404+Graphite Spiral	9	C-ring		Metal		

VALVE SPECIFICATION

Full specification of the valve consists of:

HCVA2 – symbol

-X1-...-X11- symbols from the table on left

PN, DN, Kvs

Medium

Design medium parameters

Shut-off pressure

Example:

HCVA2-C-U-2-P-2-2-FO-1-1-1-5, DN100,

PN250, Kvs94.

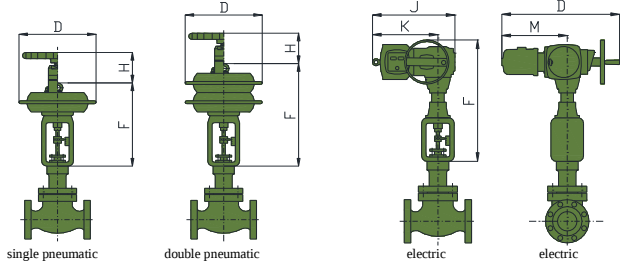
Medium Water, Td=200°C, Pd=150bar

Shut-off pressure=100bar

It is also recommended to specify working parameters as working pressure, temperature, pressure drop, flow and additional remarks if needed.

CAUTION:

The client is not obligated to specify the valve when order. You can simply describe your expectations and INTEC sales person will specify adequate valve for you.

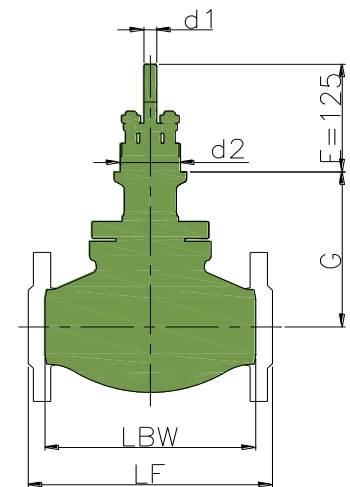


PNEUMATIC	Stroke	F	H	D	-	-	Mass
250							
400	25	385	175	305	-	-	20
2x400	25	500	175	305	-	-	40
630	40	485	315	375	-	-	40
2x630	40	715	315	375	-	-	55
1000	60	650	300	480	-	-	70
2x1000	60	920	300	480	-	-	95
ELECTRIC	Stroke	F	M	D	J	K	Mass
XIRa, XIRSa	50	612	318	586	393	322	25
XIRb, XIRSc	50	651	335	602	422	335	34
XIRc, XIRSc	80	841	449	765	490	374	78
XIRa, XIRSa	100	732	318	586	393	322	25
XIRb, XIRSc	100	771	335	602	422	335	34
XIRc, XIRSc	160	991	449	765	490	374	85

Other actuators adaptable. For example AUMA actuators have closely similar dimensions and the same mechanical connections.

PN/DN	Dim.	15	20	25	32	40	50	65	80	100	125	150	200	250	300
250	LF	230	260	260	300	300	350	400	450	520	600	700	800	900	1050
	LBW	160	160	160	300	300	300	340	380	430	500	550	650	775	900
	G	200	200	200	211	222	225	255	285	302	402	575	625	678	728
	GM*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	d1	M12x1,25				M16x1,5				M20x1,5				M24x1,5	
	d2	057,15				084,15				095,25				095,25	
320	Mass	15	15	15	19	25	36	48	57	97	144	202	315	492	708
	LF	230	260	260	300	300	350	400	450	520	600	700	800	900	1050
	LBW	160	160	160	300	300	300	340	380	430	500	550	650	775	900
	G	200	200	200	211	222	225	255	285	302	402	575	625	678	728
	GM*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	d1	M12x1,25				M16x1,5				M20x1,5				M24x1,5	
400	d2	057,15				084,15				095,25				095,25	
	Mass	15	15	15	19	25	36	48	57	97	144	202	315	492	708
	LF	264	273	308	349	384	451	508	578	673	794	914	1022	1270	1422
	LBW	160	160	160	300	300	300	340	380	430	500	550	650	775	900
	G	200	200	200	211	222	225	255	285	302	402	575	625	678	728
	GM*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
600	d1	M12x1,25				M16x1,5				M20x1,5				M24x1,5	
	d2	057,15				084,15				095,25				095,25	
	Mass	15	15	15	19	25	36	48	57	97	144	202	315	492	708
	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LBW	160	160	160	300	300	300	340	380	430	500	550	650	775	900
	G	200	200	200	211	222	225	255	285	302	402	575	625	678	728

GM* - The height measured with bellows or TA-LUFT bonnet. Masses are given for the valves with standard bonnet and BW ends.



Zakład Automatyki Przemysłowej INTEC Sp. z o.o.
Bacciarellego 54; 51-649 Wrocław
tel./fax +48 71 3481818
e-mail: biuro@intec.com.pl
http: www.intec.com.pl



Fabryka Armatury Przemysłowej WAKMET sp. j.
Bodzanów 75, 48-340 Głuchołazy 1
tel./fax +48 77 4394020
e-mail: wakmet@wakmet.com.pl
http: www.wakmet.com.pl