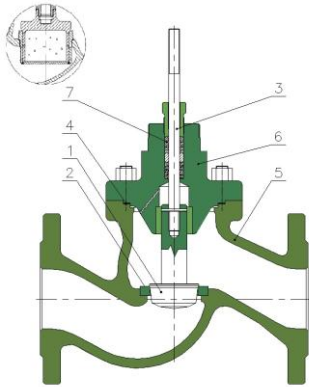


ECV PN40 GLOBE CONTROL VALVE TECHNICAL BRIEF



Client:	Quotation No:	Valve desc:	KKS:	Valve specification:
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Economic Trimmed Globe Control Valves **ECV** type are simple built valves, suitable in applications where liquids, steam and gases flow are to be controlled. They are often used as higher performed valves manual-controlled bypass. The range of materials and design options makes the valves applicable in non-critical working conditions – PN40, T(-50+450°C) without heavy cavitation, flashing or choked flow. If there is a risk that any of that phenomena appears as permanent, then external protect devices like orifices or direct diffusers should be installed. The valve is globe type with cast body and pressed-in seat. **FTO flow direction is strongly recommended**, specially when profiled plug.

Benefits:

- Interchangeable trim designs
- High rangeability available
- High leakage class available
- Balanced trim design available
- Easy maintenance
- Butt weld ends / flange connection matching the pipe size
- All actuator systems are adaptable

Alternative solutions: Higher performance - MCV and HVC type valves.

Rangeability:	1:50 (standard), 1:100 (option)
Profiled plug 100% open- main coefficients	FL=0.9; XT=0.72; Fd=0.46; xFz=0.65
Perforated plug 100% open- main coefficients	FL=0.95; XT=0.78; Fd=0.1; xFz=0.75

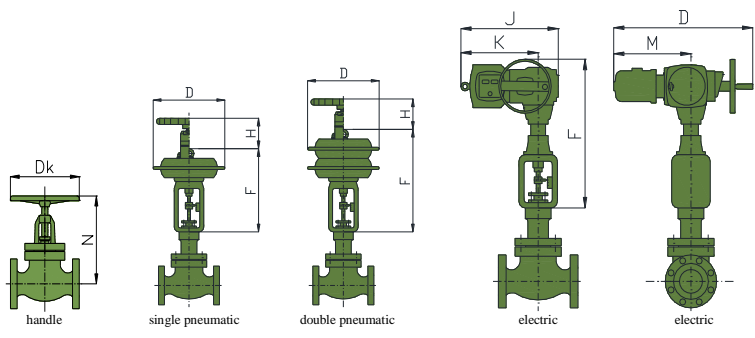
Kvs	Stroke	Seat diam.C	Seat diam.P	DN min	DN max
0,1	20	6	-	15	50
0,16	20	6	-	15	50
0,25	20	6	-	15	50
0,4	20	6	-	15	50
0,63	20	6	-	15	50
1	20	9	9	15	50
1,6	20	9	14	15	50
2,5	20	14	14	15	50
4	20	14	19	15	50
6,3	20	19	19	20	50
10	20	19	25	25	50
16	20	25	34	32	65
25	20	34	44	40	80
40	20	44	50	50	100
63	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	Unballanced				3	BW Standard
				4				BW Specified	
		X2 Ballancing	1	1.4571			X9 Material	1	1.0460, DN15-50
			2	1.4571+stellite				2	1.0619
			3	1.4571+nitrogen					
			4	1.4057 hard. 35 HRC					
			5	1.4125 hard. 55 HRC					
			6	Other					
X3 Material	L	Linear	7	1.4541, DN15-50					
	P	Equal-percentage	8	1.4404, DN15-50					
	M	Modified	9	1.4308					
	S	Other	10	1.4408					
			33	Other					
X4 Characteristic	1	1.4571	1	Standard					
	2	1.4541+Stellite	2	Spring strained					
5 Material			3	TA-LUFT					
	5	Other	4	Bellows					
X6 Leakage class EN-60534-4	1	IV Standard	1	PTFE					
	2	V Enhanced	2	PTFE V					
X7 Flow Direction	FO	Flow to Open	3	PTFE Oxygen					
	FC	Flow to Close	4	Graphite Braimed					
3	Stem		1.4571, 1.4057 Hardened 35 HRC	5	Graphite Expanded				
4	Body Gasket		1.4404+Graphite Spiral						

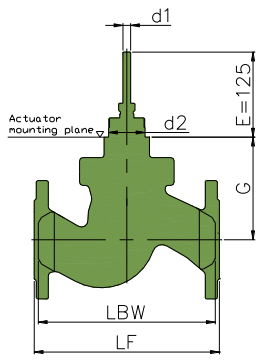
VALVE SPECIFICATION

Full specification of the valve consists of:
ECV – symbol
-X1-...-X11- symbols from the table on left
PN, DN, Kvs
Medium
Design medium parameters
Shut-off pressure
 Example:
ECV-C-U-2-P-2-2-FO-1-2-1-5, DN100, PN40, Kvs94.
Medium Water, Td=200°C, Pd=28bar
Shut-off pressure=20bar
 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
XIRa, 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
HANDWHEEL							
	DN15	DN20	DN25	DN32	DN40	DN50	DN65
Stroke	13	13	13	15	19	24	30
Dk	120	120	120	160	160	160	200
N	155	155	155	195	205	215	245
	DN80	DN100	DN125	DN150	DN200	DN250	DN300
Stroke	40	45	55	65	75	130	205
Dk	250	320	280	320	400	400	600
N	300	402	436	496	576	590	730

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
40	LF	130	150	160	180	200	230	290	310	350	400	480	600	730	850
	LBW	130	150	160	180	200	230	290	310	350	400	480	600	730	850
	G	107	107	107	114	118	122	166	166	173	248	305	458	475	590
	GM*	241	241	241	243	253	257	410	410	417	485	510	623	623	735
	d1	M12x1,25						M16x1,5			M20x1,5			M24x1,5	
d2	Ø57,15						Ø84,15			Ø95,25					
Mass	8	8	8	12	16	22	31	40	65	105	132	195	320	510	

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



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