

FlowCon EVC

Dynamic Balancing Valve with Temperature Control



SPECIFICATIONS

Valve:

Pressure rating:	1600 kPa / 230 psi
Temperature rating, media ¹ :	-20°C to +120°C / -4°F to +248°F
Temperature rating, ambient:	0°C to +60°C / +32°F to +140°F
Material:	
- Insert:	Composite inserts: POM (Polyoxymethylene) E-JUST inserts: PSU (Polysulfone)
- Diaphragm:	Hydrogenated acrylonitrile-butadiene-rubber or EPDM depending on type
- Body:	Forged brass ASTM CuZn40Pb2
- EVC control insert:	Brass
- Union end connection (in-let):	Brass alloy ISO or NPT
- Seat plug and o-rings:	EPDM
Body tappings:	1/4" ISO
Maximum close off pressure:	400 kPaD / 58 psid
Shut off leakage:	IEC 60534-4 - Class V
Flow rate range:	0.0081-0.408 l/sec / 0.128-6.46 GPM

Note 1: Stated temperature rating is defined due to no external spindle condensation.

SPECIFICATIONS (...continued)

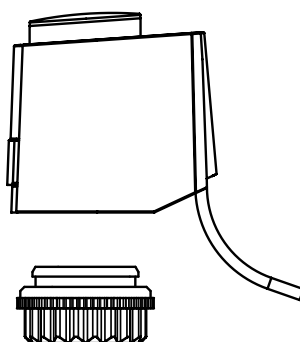
FlowCon Actuators:

FlowCon Actuator ²	EV.0.2	EV.0.3	EV.0.4	EV.0.5	EV.1.3	EV.1.4
Supply voltage	24V AC -10%/+20% 50/60Hz	230V AC ±10% 50/60Hz	24V AC/DC -10%/+20% 50/60Hz	120V AC ±10% 50/60Hz	230V AC ±10% 50/60Hz	24V AC/DC -10%/+20% 50/60Hz
Power consumption	1.0 watt	1.0 watt	1.0 watt	1.0 watt	1.0 watt	1.0 watt
Control signal	0-10V DC normally closed ³	ON/OFF normally closed ³	ON/OFF normally closed ³	ON/OFF normally closed ³	ON/OFF normally closed ³	ON/OFF normally closed ³
Operation time	Approx. 2½ min	Approx. 4 min	Approx. 4 min	Approx. 4 min	Approx. 4 min	Approx. 4 min
Ambient temperature	0°C to +60°C	0°C to +60°C	0°C to +60°C	0°C to +60°C	0°C to +60°C	0°C to +60°C
Protection	IP54, class III	IP54, class II	IP54, class III	IP54, class II	IP54, class II	IP54
Cable	Plug-in, 1 meter	Fixed, 1 meter	Fixed, 1 meter	Fixed, 1 meter	Fixed, 1 meter	Fixed, 1 meter
Weight	0.127 kg ⁴	0.116 kg ⁴	0.116 kg ⁴	0.116 kg ⁴	0.166 kg ⁴	0.166 kg ⁴
Including end switch	No	No	No	No	Yes	Yes
Switching point	N/A	N/A	N/A	N/A	Approx. 2mm	Approx. 2mm
Switching capacity	N/A	N/A	N/A	N/A	230V AC 5A ohm resistive load 1A inductive load	24V AC 3A ohm resistive load 1A inductive load

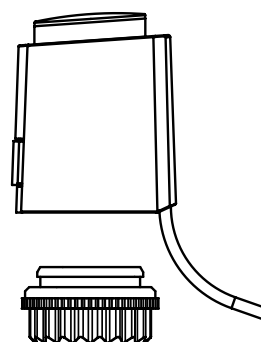
Note 2: FlowCon warranty is voided using other actuators than supplied or recommended by FlowCon International.

Note 3: To ensure that the valve is in an open position during commission of the system, the actuator will be delivered in a normal open position and remain in this position until it is electrically operated first time.

Note 4: The weight includes actuator, adaptor ring and 1 meter cable.



*FlowCon EV.0.2,
EV.1.3 and EV.1.4
Valve adaptor, grey*



*FlowCon EV.0.3,
EV.0.4 and EV.0.5
Valve adaptor, grey*

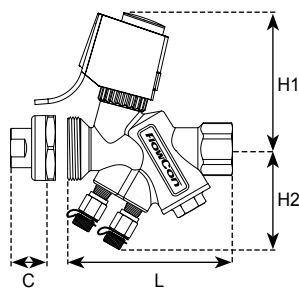
DIMENSIONS AND WEIGHTS (NOMINAL) (measured in mm unless noted)

Valve model	Actuator model	Valve size	Insert size	L	H1	H2	H3 (with E-JUST)	Inlet end connections C ⁵				Weight ⁶ (kgs.)	Kv ⁷ (m ³ /hr)
								Size	ISO female	ISO male	Sweat		
EVC.1	EV.0.2	15	20	115	107	67	79,5	15	22	24	20	0.90	1.9
EVC.2		20						20	22	25	20	0.85	2.0
								25	-	39	22		
EVC.1	EV.0.3 EV.0.4 EV.0.5	15	20	115	103	67	79,5	15	22	24	20	0.90	1.9
EVC.2		20						20	22	25	20	0.85	2.0
								25	-	39	22		
EVC.1	EV.1.3 EV.1.4	15	20	115	105	67	79,5	15	22	24	20	0.90	1.9
EVC.2		20						20	22	25	20	0.85	2.0
								25	-	39	22		

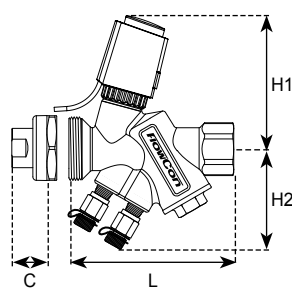
Note 5: Add end connection length to body length.

Note 6: The weight is without end connections and actuator, the weight of the actuator is available at page 2.

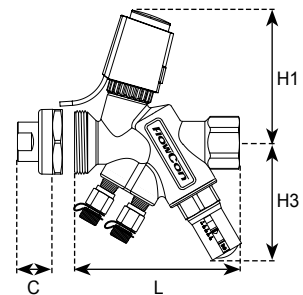
Note 7: For valve body.



*FlowCon EV.0.2, EV.1.3 and EV.1.4
on FlowCon EVC*



*FlowCon EV.0.3, EV.0.4 and EV.0.5,
on FlowCon EVC*



...with E-JUST

MODEL NUMBER SELECTION⁸

EVC . _____

Insert type of actuator:
2=EV.0.2 **3**=EV.0.3 **4**=EV.0.4 **5**=EV.1.3 **6**=EV.1.4 **7**=EV.0.5 _____

Insert body size (OUTLET):
1=female threaded 15mm **2**=female threaded 20mm _____

Insert p/t plug requirement:
0=taps open **B**=pressure temperature plugs **P**=taps plugged _____

Insert INLET union end connections - leave **blank** if no end connections required:

Body size	Female threaded	Male treaded	Sweat
Union end 15-25mm, 1/2"-1"	E =15mm=1/2" F =20mm=3/4"	H =15mm=1/2" I =20mm=3/4" J =25mm=1"	K =15mm L =18mm M =22mm

Insert connection standard:
I=ISO **N**=NPT _____

Insert a kPaD control range:
0 if no insert required
Y=15-130 kPaD (20mm standard composite insert)
 17-210 kPaD (20mm E-JUST red - white pawl)
 17-210 kPaD (20mm E-JUST black or green - white pawl)
G=30-400 kPaD (20mm standard composite insert)
 30-400 kPaD (20mm E-JUST red - grey pawl)
 35-400 kPaD (20mm E-JUST black or green - grey pawl)
 (Determine from insert selection chart)

Insert automatic flow limiting insert code:
0 if no insert required **Y**=grey **R**=red **U**=blue **B**=black **G**=green _____
 (Determine from insert selection chart)

Insert insert dial setting/type:
1 to 8=dial setting on standard composite insert
0=standard pre-setting of 2 on standard composite insert
E=E-JUST insert
 (Determine from insert selection chart)

Example: EVC.4.2.B.H.I.G.U.5=EVC 20mm ISO female threaded body with p/t plugs, 24V ON/OFF actuator, 15mm ISO male threaded union end inlet and a G-type blue standard composite insert - pre-setting 5.

Note 8: Flow rate, color and dial setting of insert are indicated on label affixed to body.

FLOW RATE SETTING - COMPOSITE INSERT - FOR VALVES DN15-DN25

20mm · 3/4" · composite insert · Y-type								
Pressure range, ΔP: 20-130 kPaD (15-130 kPaD)* · 2.9-18.9 psid (2.2-18.9 psid)*								
	Model no.			ABV1.Y.Y	ABV1.Y.R	ABV1.Y.U	ABV1.Y.B	ABV1.Y.G
	l/sec	l/hr	GPM	Grey*	Red	Blue	Black	Green
Nominal flow rate	0.0081	29.2	0.128	1				
	0.0133	47.9	0.211	2				
	0.0175	63.0	0.277	3				
	0.0222	79.9	0.352	4				
	0.0311	112	0.493	5				
	0.0353	127	0.560	6				
	0.0383	138	0.607	7				
	0.0431	155	0.683	8				
	0.0450	162	0.713				3	
	0.0575	207	0.911		4			
	0.0619	223	0.981			4		
	0.0669	241	1.06				4	
	0.0922	332	1.46		5			
	0.0978	352	1.55					1
	0.105	378	1.66		6			
	0.114	409	1.80		7			
	0.115	415	1.83			5		
	0.118	426	1.88					2
	0.119	430	1.89		8			
	0.136	489	2.15					3
	0.137	492	2.17			6		
	0.138	498	2.19					4
	0.146	524	2.31			7		
	0.146	526	2.32			8		
	0.155	557	2.45				5	
	0.176	635	2.80				6	
	0.180	647	2.85				7	
	0.193	695	3.06				8	
	0.231	830	3.66					5
	0.237	854	3.76					6
	0.253	909	4.00					7
	0.273	984	4.33					8

Accuracy: Greatest of either ±10% of controlled flow rate or 20 l/hr (0.0056 l/sec or 0.088 GPM).

20mm · 3/4" · composite insert · G-type								
Pressure range, ΔP: 40-400 kPaD (30-400 kPaD)* · 5.8-58 psid (4.4-58 psid)*								
	Model no.			ABV1.G.Y	ABV1.G.R	ABV1.G.U	ABV1.G.B	ABV1.G.G
	l/sec	l/hr	GPM	Grey*	Red	Blue	Black	Green
Nominal flow rate	0.0117	42.1	0.185	1				
	0.0189	68.0	0.300	2				
	0.0247	88.9	0.392	3				
	0.0325	117	0.515	4				
	0.0472	170	0.748	5				
	0.0528	190	0.837	6				
	0.0564	203	0.894			3		
	0.0597	215	0.946				3	
	0.0639	230	1.01	7				
	0.0694	250	1.10	8				
	0.0781	281	1.24		4			
	0.0908	327	1.44			4		
	0.0958	345	1.52				4	
	0.137	493	2.17		5			
	0.147	529	2.33					1
	0.161	581	2.56		6			
	0.173	624	2.75		7			
	0.181	652	2.87			5		
	0.181	653	2.88		8			
	0.186	670	2.95					2
	0.210	755	3.32					3
	0.216	779	3.43			6		
	0.218	785	3.46			7		
	0.220	792	3.49			8		
	0.237	853	3.75				5	
	0.241	869	3.83					4
	0.266	957	4.21				6	
	0.269	968	4.26				7	
	0.277	998	4.39				8	
	0.365	1320	5.79					5
	0.369	1330	5.85					6
	0.392	1410	6.21					7
	0.408	1470	6.46					8

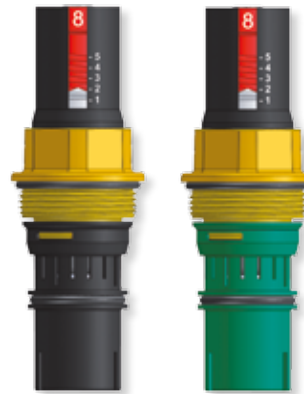
Accuracy: Greatest of either ±10% of controlled flow rate or 20 l/hr (0.0056 l/sec or 0.088 GPM).



FLOW RATE SETTING - E-JUST INSERT - FOR VALVES DN15-DN25

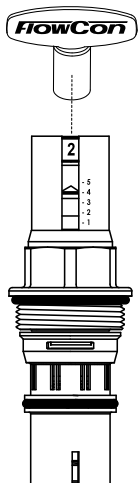
20mm · 3/4" · E-JUST · Y-type · White pawl					
Pressure range, ΔP: 17-210 kPaD · 2.5-30 psid					
	Model no.			E-JUST1.Y.B	E-JUST1.Y.G
				Black	Green
	l/sec	l/hr	GPM	Setting	Setting
Nominal flow rate	0.0278	100	0.440	1.0	
	0.0299	108	0.475	1.1	
	0.0321	116	0.509	1.2	
	0.0343	123	0.543	1.3	
	0.0364	131	0.578	1.4	
	0.0386	139	0.612	1.5	
	0.0408	147	0.646	1.6	
	0.0429	155	0.681	1.7	
	0.0436	157	0.691		1.0
	0.0451	162	0.715	1.8	
	0.0468	168	0.741		1.1
	0.0473	170	0.749	1.9	
	0.0494	178	0.784	2.0	
	0.0499	180	0.791		1.2
	0.0516	186	0.818	2.1	
	0.0530	191	0.841		1.3
	0.0538	194	0.852	2.2	
	0.0559	201	0.887	2.3	
	0.0562	202	0.890		1.4
	0.0581	209	0.921	2.4	
	0.0593	214	0.940		1.5
	0.0603	217	0.955	2.5	
	0.0624	225	0.990	2.6	1.6
	0.0646	233	1.02	2.7	
	0.0656	236	1.04		1.7
	0.0668	240	1.06	2.8	
	0.0687	247	1.09		1.8
	0.0689	248	1.09	2.9	
	0.0711	256	1.13	3.0	
	0.0719	259	1.14		1.9
	0.0733	264	1.16	3.1	
	0.0750	270	1.19		2.0
	0.0754	272	1.20	3.2	
	0.0776	279	1.23	3.3	
	0.0781	281	1.24		2.1
	0.0798	287	1.26	3.4	
	0.0813	293	1.29		2.2
	0.0819	295	1.30	3.5	
	0.0841	303	1.33	3.6	
	0.0844	304	1.34		2.3
	0.0863	311	1.37	3.7	
	0.0876	315	1.39		2.4
	0.0884	318	1.40	3.8	

Continue next column...



20mm · 3/4" · E-JUST · Y-type · White pawl					
Pressure range, ΔP: 17-210 kPaD · 2.5-30 psid					
	Model no.			E-JUST1.Y.B	E-JUST1.Y.G
				Black	Green
	l/sec	l/hr	GPM	Setting	Setting
Nominal flow rate	0.0906	326	1.44	3.9	
	0.0907	327	1.44		2.5
	0.0928	334	1.47	4.0	
	0.0938	338	1.49		2.6
	0.0949	342	1.50	4.1	
	0.0970	349	1.54		2.7
	0.0971	350	1.54	4.2	
	0.0993	357	1.57	4.3	
	0.100	360	1.59		2.8
	0.101	365	1.61	4.4	
	0.103	372	1.64		2.9
	0.104	373	1.64	4.5	
	0.106	381	1.68	4.6	
	0.106	383	1.69		3.0
	0.108	389	1.71	4.7	
	0.110	394	1.74		3.1
	0.110	396	1.75	4.8	
	0.112	404	1.78	4.9	
	0.113	406	1.79		3.2
	0.114	412	1.81	5.0	
	0.116	417	1.84		3.3
	0.119	428	1.89		3.4
	0.122	440	1.94		3.5
	0.125	451	1.98		3.6
	0.128	462	2.03		3.7
	0.132	473	2.08		3.8
	0.135	485	2.13		3.9
	0.138	496	2.18		4.0
	0.141	507	2.23		4.1
	0.144	519	2.28		4.2
	0.147	530	2.33		4.3
	0.150	541	2.38		4.4
	0.153	553	2.43		4.5
	0.157	564	2.48		4.6
	0.160	575	2.53		4.7
	0.163	586	2.58		4.8
	0.166	598	2.63		4.9
	0.169	609	2.68		5.0

Accuracy: Greatest of
either ±5% of controlled flow rate
or ±2% of maximum flow rate



Use the FlowCon adjustment key (part number ACC0001) for adjusting the flow rate.

A setting of 4.2 corresponds to a flow rate of 0.144 l/sec for the 20mm green insert, range 17-210 kPaD.

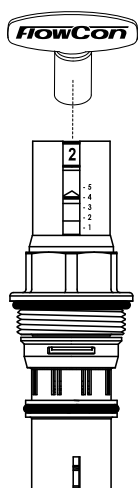
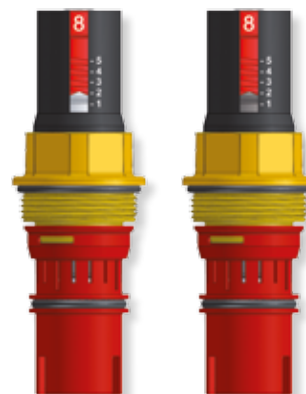
FLOW RATE SETTING - E-JUST INSERT - FOR VALVES DN15-DN25 (continued)

20mm · 3/4" · E-JUST · Y-type · White pawl				
Pressure range. ΔP: 17-200 kPaD · 2.5-29 psid				
		Model no.	E-JUST1.Y.R	
Nominal flow rate			Red	
	l/sec	l/hr	GPM	Setting
	0.0767	276	1.22	1.0
	0.0813	293	1.29	1.1
	0.0860	310	1.36	1.2
	0.0907	326	1.44	1.3
	0.0953	343	1.51	1.4
	0.100	360	1.58	1.5
	0.105	377	1.66	1.6
	0.109	393	1.73	1.7
	0.114	410	1.80	1.8
	0.118	426	1.88	1.9
	0.123	443	1.95	2.0
	0.128	459	2.02	2.1
	0.132	475	2.09	2.2
	0.136	491	2.16	2.3
	0.141	507	2.23	2.4
	0.145	523	2.30	2.5
	0.150	539	2.37	2.6
	0.154	554	2.44	2.7
	0.158	569	2.51	2.8
	0.162	584	2.57	2.9
	0.166	599	2.64	3.0
	0.170	614	2.70	3.1
	0.174	628	2.76	3.2
	0.178	642	2.83	3.3
	0.182	655	2.89	3.4
	0.186	669	2.94	3.5
	0.189	682	3.00	3.6
	0.193	695	3.06	3.7
	0.196	707	3.11	3.8
	0.200	719	3.17	3.9
	0.203	731	3.22	4.0
	0.206	742	3.27	4.1
	0.209	753	3.32	4.2
	0.212	764	3.36	4.3
	0.215	774	3.41	4.4
	0.218	784	3.45	4.5
	0.220	793	3.49	4.6
	0.223	802	3.53	4.7
	0.225	810	3.57	4.8
	0.227	818	3.60	4.9
	0.229	825	3.60	5.0

Accuracy: Greatest of
either ±5% of controlled flow rate
or ±2% of maximum flow rate

20mm · 3/4" · E-JUST · G-type · Grey pawl				
Pressure range. ΔP: 30-400 kPaD · 4.4-58 psid				
		Model no.	E-JUST1.G.R	
Nominal flow rate			Red	
	l/sec	l/hr	GPM	Setting
	0.113	406	1.79	1.0
	0.119	427	1.88	1.1
	0.125	449	1.98	1.2
	0.131	470	2.07	1.3
	0.137	492	2.17	1.4
	0.143	513	2.26	1.5
	0.149	535	2.36	1.6
	0.155	556	2.45	1.7
	0.161	578	2.54	1.8
	0.167	599	2.64	1.9
	0.172	621	2.73	2.0
	0.178	642	2.83	2.1
	0.184	664	2.92	2.2
	0.190	685	3.02	2.3
	0.196	707	3.11	2.4
	0.202	728	3.21	2.5
	0.208	750	3.30	2.6
	0.214	771	3.40	2.7
	0.220	793	3.49	2.8
	0.226	814	3.59	2.9
	0.232	836	3.68	3.0
	0.238	857	3.78	3.1
	0.244	879	3.87	3.2
	0.250	900	3.96	3.3
	0.256	922	4.06	3.4
	0.262	943	4.15	3.5
	0.268	965	4.25	3.6
	0.274	987	4.34	3.7
	0.280	1010	4.44	3.8
	0.286	1030	4.53	3.9
	0.292	1050	4.63	4.0
	0.298	1070	4.72	4.1
	0.304	1090	4.82	4.2
	0.310	1120	4.91	4.3
	0.316	1140	5.01	4.4
	0.322	1160	5.10	4.5
	0.328	1180	5.20	4.6
	0.334	1200	5.29	4.7
	0.340	1220	5.38	4.8
	0.346	1240	5.48	4.9
	0.352	1270	5.57	5.0

Accuracy: Greatest of
either ±5% of controlled flow rate
or ±2% of maximum flow rate



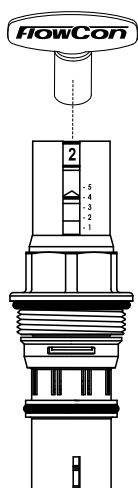
Use the FlowCon adjustment
key (part number ACC0001)
for adjusting the flow rate.

A setting of 4.2 corresponds
to a flow rate of 0.304 l/sec
for the 20mm red insert,
range 30-400 kPaD.

FLOW RATE SETTING - E-JUST INSERT - FOR VALVES DN15-DN25 (continued)

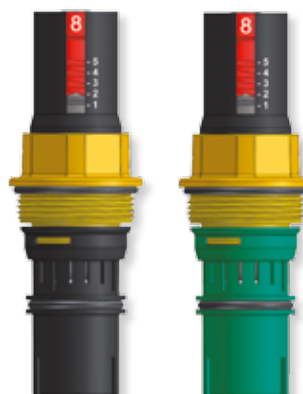
20mm · 3/4" · E-JUST · G-type · Grey pawl					
Pressure range, ΔP: 35-400 kPaD · 5.1-58 psid					
	Model no.			E-JUST1.G.B	E-JUST1.G.G
				Black	Green
	l/sec	l/hr	GPM	Setting	Setting
Nominal flow rate	0.0383	138	0.607	1.0	
	0.0416	150	0.660	1.1	
	0.0449	162	0.712	1.2	
	0.0483	174	0.765	1.3	
	0.0516	186	0.817	1.4	
	0.0549	198	0.870	1.5	
	0.0582	210	0.922	1.6	
	0.0615	221	0.975	1.7	
	0.0648	233	1.03	1.8	
	0.0660	238	1.05		1.0
	0.0681	245	1.08	1.9	
	0.0706	254	1.12		1.1
	0.0714	257	1.13	2.0	
	0.0748	269	1.18	2.1	
	0.0751	271	1.19		1.2
	0.0781	281	1.24	2.2	
	0.0797	287	1.26		1.3
	0.0814	293	1.29	2.3	
	0.0843	304	1.34		1.4
	0.0847	305	1.34	2.4	
	0.0880	317	1.40	2.5	
	0.0889	320	1.41		1.5
	0.0913	329	1.45	2.6	
	0.0934	336	1.48		1.6
	0.0946	341	1.50	2.7	
	0.0979	353	1.55	2.8	
	0.0980	353	1.55		1.7
	0.101	365	1.61	2.9	
	0.103	369	1.63		1.8
	0.105	377	1.66	3.0	
	0.107	386	1.70		1.9
	0.108	388	1.71	3.1	
	0.111	400	1.76	3.2	
	0.112	402	1.77		2.0
	0.115	412	1.82	3.3	
	0.116	419	1.84		2.1
	0.118	424	1.87	3.4	
	0.121	435	1.92		2.2
	0.121	436	1.92	3.5	
	0.124	448	1.97	3.6	
	0.125	452	1.99		2.3
	0.128	460	2.03	3.7	
	0.130	468	2.06		2.4
	0.131	472	2.08	3.8	

Continue next column...



Use the FlowCon adjustment key (part number ACC0001) for adjusting the flow rate.

A setting of 4.2 corresponds to a flow rate of 0.212 l/sec for the 20mm green insert, range 35-400 kPaD.



20mm · 3/4" · E-JUST · G-type · Grey pawl					
Pressure range, ΔP: 35-400 kPaD · 5.1-58 psid					
	Model no.			E-JUST1.G.B	E-JUST1.G.G
				Black	Green
	l/sec	l/hr	GPM	Setting	Setting
Nominal flow rate	0.134	484	2.13	3.9	
	0.135	485	2.13		2.5
	0.138	496	2.18	4.0	
	0.139	501	2.21		2.6
	0.141	508	2.24	4.1	
	0.144	517	2.28		2.7
	0.144	520	2.29	4.2	
	0.148	532	2.34	4.3	
	0.148	534	2.35		2.8
	0.151	544	2.39	4.4	
	0.153	550	2.42		2.9
	0.154	556	2.45	4.5	
	0.157	567	2.50		3.0
	0.158	567	2.50	4.6	
	0.161	579	2.55	4.7	
	0.162	583	2.57		3.1
	0.164	591	2.60	4.8	
	0.167	600	2.64		3.2
	0.168	603	2.66	4.9	
	0.171	615	2.71	5.0	
	0.171	616	2.71		3.3
	0.176	633	2.79		3.4
	0.180	649	2.86		3.5
	0.185	666	2.93		3.6
	0.189	682	3.00		3.7
	0.194	699	3.08		3.8
	0.199	715	3.15		3.9
	0.203	731	3.22		4.0
	0.208	748	3.29		4.1
	0.212	764	3.37		4.2
	0.217	781	3.44		4.3
	0.221	797	3.51		4.4
	0.226	814	3.58		4.5
	0.231	830	3.66		4.6
	0.235	847	3.73		4.7
	0.240	863	3.80		4.8
	0.244	880	3.87		4.9
	0.249	896	3.95		5.0

Accuracy: Greatest of either ±5% of controlled flow rate or ±2% of maximum flow rate

ACCESSORIES

- P/t plugs: 2 x ACC00101
- Blind cap: ACC0080 (cap without an insert for flushing out the system)
- Adjustment key: ACC0001 (key for adjusting the flow rate on E-JUST inserts).

GENERAL DESCRIPTION

The standard actuators available for the FlowCon EVC valve are thermal actuators that operate ON/OFF on 24V AC/DC, 120V AC and 230V AC/DC or modulating on 24V AC respectively. ON/OFF actuators are available with end switches which can be used for controlling the fan in priority to the open position of the valve.

The EVC valves provide temperature control and dynamic balancing for use in cooling ceilings, fan coil units in air-condition or as zone valve in heating systems.

GENERAL SPECIFICATIONS

1. AUTOMATIC BALANCING AND TEMPERATURE CONTROL VALVES - FLOWCON EVC

- 1.1. Contractor shall install balancing / temperature valves where indicated in drawings.
- 1.2. The valve shall consist of dynamic, accessible, adjustable flow limiting device and integral thermal actuated two-way control valve.

2. VALVE ACTUATOR

- 2.1. Actuator shall provide a visual indication of the valve position.
- 2.2. The valve shall be closing when the actuator is not powered.
- 2.3. The valve shall withstand a shut off pressure of at least 400 kPa without allowing internal leakage.
- 2.4. The seat plug shall be manufactured of EPDM rubber.
- 2.5. The packing box for sealing the stem shall be removable with the system in operation, without allowing external leakage.

3. VALVE HOUSING

- 3.1. Valve housing shall consist of forged brass ASTM CuZn40Pb2, rated at no less than 1600 kPa static pressure and +120°C.
- 3.2. Valve housing shall be permanently marked to show direction of flow.
- 3.3. Valve housing shall be union end constructed with a range of pipe connections available for the appropriate pipe size.
- 3.4. Housing shall be configured for flow regulation unit accessibility.
- 3.5. Optional dual pressure/temperature test plugs for verifying accuracy of flow performance shall be available for all valve sizes.

4.a. FLOW REGULATOR / AUTOMATIC BALANCING UNIT / COMPOSITE INSERT

- 4.a.1. Flow regulation unit assembly shall be manufactured of polyoxymethylene with a hydrogenated acrylnitrile-butadiene rubber or EPDM diaphragm and stainless steel 18-8 spring.
- 4.a.2. Flow regulation unit shall be readily accessible for change-out or maintenance.
- 4.a.3. Flow regulation unit shall be adjustable to 1 of 8 different flow rates; shall be available in 2 different kPaD operational ranges; minimum range shall be capable of being activated by minimum 15 kPaD. Further, the flow regulation unit shall be capable of controlling the flow within $\pm 10\%$ of rated flow rate or 20l/hr.
- 4.a.4. Identification tags shall be available for all valves; tags shall be indelibly marked with flow rate, color and dial setting.

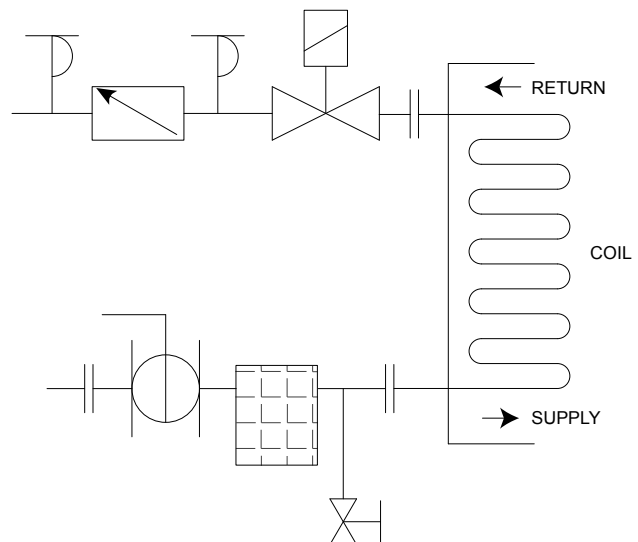
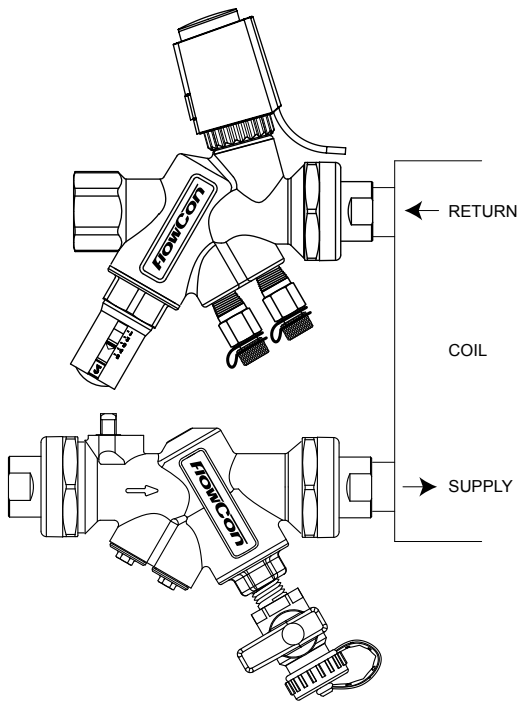
GENERAL SPECIFICATIONS (continued)

OR...

4.b. FLOW REGULATOR / AUTOMATIC BALANCING UNIT / E-JUST INSERT

- 4.b.1. Flow regulation unit assembly shall be manufactured of polysulfone with a hydrogenated acrylonitrile-butadiene rubber or EPDM diaphragm and stainless steel 18-8 spring.
- 4.b.2. Flow regulation unit shall be readily accessible for change-out or maintenance.
- 4.b.3. Flow regulation unit shall be adjustable with the valve in-line and the system in operation.
- 4.b.4. Flow regulation unit shall be externally adjustable to 1 of 41 different flow rates; shall be available in 4 different kPaD operational ranges for DN15/20/25; minimum range shall be capable of being activated by minimum 17 kPaD. Further, the flow regulation unit shall be capable of controlling flow within $\pm 5\%$ of rated flow or $\pm 2\%$ of maximum flow.
- 4.b.5. Identification tags shall be available for all valves; tags shall be indelibly marked with flow rate, color and dial setting.

APPLICATION AND SCHEMATIC EXAMPLE



UPDATES

For latest updates please see www.flowcon.com

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