



AVK CONSTANT FLOW CONTROL VALVE, PN10/16

879/002X99-001

Reduced bore, AISI304/DI trim, AISI304 pilot, brass fittings/accs., EPDM/WRAS rubber, protected pos. ind.

AVK series 879 diaphragm actuated flow control valves (CFV) automatically maintain a constant flow regardless of changes in inlet or outlet pressure.

Feed back to the regulating system is by means of the pressure drop across an orifice at the outlet.

The replaceable orifice makes it possible to regulate within a large range of flows and still keep the precision. Setting and adjustment on a control knob on the pilot.

Both full bore and reduced bore versions are available with the full bore having full capacity and the reduced bore having increased precision and smooth regulation at low flow rates.

Product description:

Control valve, constant flow, for drinking water or other neutral liquids to max. 70°C

Design standards:

- EN 1074-5
- Face-to-face dimension according to EN 558 Table 2 Basic Series 1
- Flange drilling to EN1092, PN10/16

Test/Approvals:

- Hydraulic test: 1.5 x PN
- Tested according to EN 12266-1
- Approved according to WRAS Certificate 2010005, series 879
- Approved according to ACS-FRANCE, certificate 20ACCLY795, ser.879

Features:

- The lifted seat design controls the flow around the plug so that in case of cavitation this happens with minimal damage away from plug and seat
- The parabolic shape of the plug creates a smooth regulating characteristic with low gain around the near-closed positions improving control performance at low flow
- Non-symmetric axial position of rubber diaphragm results in low stretch stress when closed
- Body and bonnet of ductile iron coated with fusion bonded epoxy, 300µm, GSK approved, RAL 5017, according to DIN 3476 and WRAS-DVGW/W270/UBA
- All rubber parts approved for drinking water
- All non-coated internals made of stainless steel or bronze
- Seat and pilot in stainless steel AISI 304
- A needle valve fitted between the upstream side and the control chamber allows for adjustment of the regulation reaction time
- Closing the needle valve isolates the control chamber and fixes the position of the main valve allowing for service of the pilot valve
- Fittings, pipes and accessories in Ni-plated brass

Accessories:

V-port or anti-cavitation cage, pressure gauge, circuit by-pass, visual position indicator, inductive position switch, position transmitter 4-20 mA



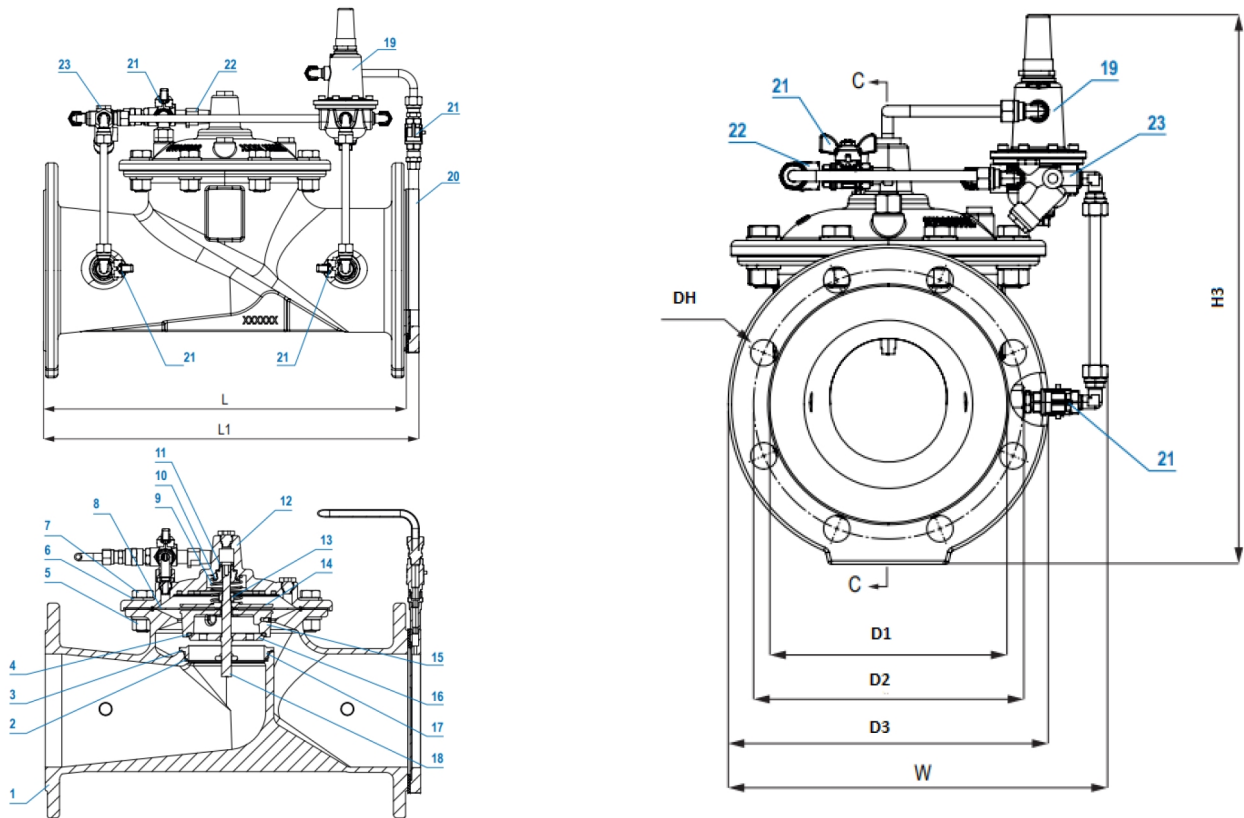
Expect... **AVK**

The designs, materials and specifications shown are subject to change without notice due to the continuous development of our product range.

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Component list:

1. Body	Ductile iron GJS-500-7	13. Hex nut	Stainless steel A2
2. O-ring	EPDM rubber	14. Diaphragm support	Ductile iron GJS-500-7
3. O-ring	EPDM rubber	15. Obturator	Ductile iron GJS-500-7
4. Plug sealing	EPDM rubber	16. Regulating plug	Stainless steel AISI 304
5. Hex nut	Stainless steel A2	17. Seat	Stainless steel AISI 304
6. Washer	Stainless steel AISI 304	18. Stem	Stainless steel AISI 304
7. Bolts	Stainless steel A2	19. Pilot valve	Stainless steel
8. Diaphragm	EPDM rubber	20. Calibrated Orifice	Stainless steel AISI 304
9. Spring	Stainless steel AISI 304	21. Ball valve	Nickel Brass
10. Flat seal	EPDM rubber	22. Needle valve	Stainless steel
11. Flat seal	EPDM rubber	23. Y-strainer / Orifice	Brass + SS 316
12. Cover	Ductile iron GJS-500-7		

Components may be substituted with equivalent or higher class materials without prior notification.

Reference nos. and dimensions:

AVK ref. no.	DN	Flange	Flow range	D1	D2	D3	Dh	W	H3	L	L1	Theoretical weight/kg
	mm	drilling	m3/h	mm	mm	mm	mm	mm	mm	mm	mm	
879-0065-00-14400209999	65	PN16	5-17	118	145	185	19	255	420	290	307	20
879-0065-00-144002099A0 (1)	65	PN16	5-17	118	145	185	19	255	420	290	307	20
879-0065-00-14400219999	65	PN16	8-30	118	145	185	19	255	420	290	307	20
879-0065-00-144002199A0 (1)	65	PN16	8-30	118	145	185	19	255	420	290	307	20
879-0065-00-14400229999	65	PN16	15-58	118	145	185	19	255	420	290	307	20
879-0065-00-144002299A0 (1)	65	PN16	15-58	118	145	185	19	255	420	290	307	20
879-0080-00-14400209999	80	PN16	9-33	132	160	200	19	270	435	310	327	23
879-0080-00-144002099A0 (1)	80	PN16	9-33	132	160	200	19	270	435	310	327	23
879-0080-00-14400219999	80	PN16	15-57	132	160	200	19	270	435	310	327	23
879-0080-00-144002199A0 (1)	80	PN16	15-57	132	160	200	19	270	435	310	327	23
879-0080-00-14400229999	80	PN16	26-90	132	160	200	19	270	435	310	327	23

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Reference nos. and dimensions:

AVK ref. no.	DN	Flange	Flow range	D1	D2	D3	Dh	W	H3	L	L1	Theoretical
	mm	drilling	m3/h	mm	mm	mm	mm	mm	mm	mm	mm	weight/kg
879-0080-00-144002299A0 ⁽¹⁾	80	PN16	26-90	132	160	200	19	270	435	310	327	23
879-0100-00-14400209999	100	PN16	14-51	156	180	220	19	290	450	350	367	28
879-0100-00-144002099A0 ⁽¹⁾	100	PN16	14-51	156	180	220	19	290	450	350	367	28
879-0100-00-14400219999	100	PN16	25-90	156	180	220	19	290	450	350	367	28
879-0100-00-144002199A0 ⁽¹⁾	100	PN16	25-90	156	180	220	19	290	450	350	367	28
879-0100-00-14400229999	100	PN16	42-130	156	180	220	19	290	450	350	367	28
879-0100-00-144002299A0 ⁽¹⁾	100	PN16	42-130	156	180	220	19	290	450	350	367	28
879-0125-00-14400209999	125	PN16	22-78	184	210	250	19	310	470	400	417	32
879-0125-00-144002099A0 ⁽¹⁾	125	PN16	22-78	184	210	250	19	310	470	400	417	32
879-0125-00-14400219999	125	PN16	39-140	184	210	250	19	310	470	400	417	32
879-0125-00-144002199A0 ⁽¹⁾	125	PN16	39-140	184	210	250	19	310	470	400	417	32
879-0125-00-14400229999	125	PN16	66-220	184	210	250	19	310	470	400	417	32
879-0125-00-144002299A0 ⁽¹⁾	125	PN16	66-220	184	210	250	19	310	470	400	417	32
879-0150-00-14400209999	150	PN16	30-105	211	240	285	23	340	495	480	497	45
879-0150-00-144002099A0 ⁽¹⁾	150	PN16	30-105	211	240	285	23	340	495	480	497	45
879-0150-00-14400219999	150	PN16	50-190	211	240	285	23	340	495	480	497	45
879-0150-00-144002199A0 ⁽¹⁾	150	PN16	50-190	211	240	285	23	340	495	480	497	45
879-0150-00-14400229999	150	PN16	80-220	211	240	285	23	340	495	480	497	45
879-0150-00-144002299A0 ⁽¹⁾	150	PN16	80-220	211	240	285	23	340	495	480	497	45
879-0150-00-14400239999	150	PN16	100-300	211	240	285	23	340	495	480	497	45
879-0150-00-144002399A0 ⁽¹⁾	150	PN16	100-300	211	240	285	23	340	495	480	497	45
879-0200-00-14400209999	200	PN16	50-190	266	295	340	23	425	585	600	617	95
879-0200-00-144002099A0 ⁽¹⁾	200	PN16	50-190	266	295	340	23	425	585	600	617	95
879-0200-00-14400219999	200	PN16	88-300	266	295	340	23	425	585	600	617	95
879-0200-00-144002199A0 ⁽¹⁾	200	PN16	88-300	266	295	340	23	425	585	600	617	95
879-0200-00-14400229999	200	PN16	120-370	266	295	340	23	425	585	600	617	95
879-0200-00-144002299A0 ⁽¹⁾	200	PN16	120-370	266	295	340	23	425	585	600	617	95
879-0200-00-14400239999	200	PN16	160-480	266	295	340	23	425	585	600	617	95
879-0200-00-144002399A0 ⁽¹⁾	200	PN16	160-480	266	295	340	23	425	585	600	617	95
879-0250-00-14400209999	250	PN16	80-250	319	355	405	28	510	690	730	747	156
879-0250-00-144002099A0 ⁽¹⁾	250	PN16	80-250	319	355	405	28	510	690	730	747	156
879-0250-00-14400219999	250	PN16	120-400	319	355	405	28	510	690	730	747	156
879-0250-00-144002199A0 ⁽¹⁾	250	PN16	120-400	319	355	405	28	510	690	730	747	156
879-0250-00-14400229999	250	PN16	200-600	319	355	405	28	510	690	730	747	156
879-0250-00-144002299A0 ⁽¹⁾	250	PN16	200-600	319	355	405	28	510	690	730	747	156
879-0250-00-14400239999	250	PN16	250-840	319	355	405	28	510	690	730	747	156
879-0250-00-144002399A0 ⁽¹⁾	250	PN16	250-840	319	355	405	28	510	690	730	747	156
879-0300-00-14400209999	300	PN16	120-420	370	410	460	28	555	760	850	867	220
879-0300-00-144002099A0 ⁽¹⁾	300	PN16	120-420	370	410	460	28	555	760	850	867	220
879-0300-00-14400219999	300	PN16	170-550	370	410	460	28	555	760	850	867	220
879-0300-00-144002199A0 ⁽¹⁾	300	PN16	170-550	370	410	460	28	555	760	850	867	220
879-0300-00-14400229999	300	PN16	250-870	370	410	460	28	555	760	850	867	220
879-0300-00-144002299A0 ⁽¹⁾	300	PN16	250-870	370	410	460	28	555	760	850	867	220
879-0300-00-14400239999	300	PN16	400-1100	370	410	460	28	555	760	850	867	220
879-0300-00-144002399A0 ⁽¹⁾	300	PN16	400-1100	370	410	460	28	555	760	850	867	220
879-0350-00-14400209999	350	PN16	160-500	429	470	520	28	605	845	980	997	323
879-0350-00-144002099A0 ⁽¹⁾	350	PN16	160-500	429	470	520	28	605	845	980	997	323
879-0350-00-14400219999	350	PN16	220-700	429	470	520	28	605	845	980	997	323
879-0350-00-144002199A0 ⁽¹⁾	350	PN16	220-700	429	470	520	28	605	845	980	997	323
879-0350-00-14400229999	350	PN16	350-1250	429	470	520	28	605	845	980	997	323
879-0350-00-144002299A0 ⁽¹⁾	350	PN16	350-1250	429	470	520	28	605	845	980	997	323
879-0350-00-14400239999	350	PN16	600-1600	429	470	520	28	605	845	980	997	323
879-0350-00-144002399A0 ⁽¹⁾	350	PN16	600-1600	429	470	520	28	605	845	980	997	323
879-0400-00-14400209999	400	PN16	220-620	480	525	580	31	710	970	1100	1117	494
879-0400-00-144002099A0 ⁽¹⁾	400	PN16	220-620	480	525	580	31	710	970	1100	1117	494
879-0400-00-14400219999	400	PN16	300-1000	480	525	580	31	710	970	1100	1117	494
879-0400-00-144002199A0 ⁽¹⁾	400	PN16	300-1000	480	525	580	31	710	970	1100	1117	494
879-0400-00-14400229999	400	PN16	450-1500	480	525	580	31	710	970	1100	1117	494
879-0400-00-144002299A0 ⁽¹⁾	400	PN16	450-1500	480	525	580	31	710	970	1100	1117	494
879-0400-00-14400239999	400	PN16	660-1950	480	525	580	31	710	970	1100	1117	494

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	mm	drilling	m3/h	mm	mm	mm	mm	mm	mm	mm	mm	weight/kg
879-0400-00-144002399A0 ⁽¹⁾	400	PN16	660-1950	480	525	580	31	710	970	1100	1117	494
879-0450-00-14400209999	450	PN16	270-800	548	585	640	31	780	1030	1200	1217	641
879-0450-00-144002099A0 ⁽¹⁾	450	PN16	270-800	548	585	640	31	780	1030	1200	1217	641
879-0450-00-14400219999	450	PN16	400-1200	548	585	640	31	780	1030	1200	1217	641
879-0450-00-144002199A0 ⁽¹⁾	450	PN16	400-1200	548	585	640	31	780	1030	1200	1217	641
879-0450-00-14400229999	450	PN16	570-1900	548	585	640	31	780	1030	1200	1217	641
879-0450-00-144002299A0 ⁽¹⁾	450	PN16	570-1900	548	585	640	31	780	1030	1200	1217	641
879-0450-00-14400239999	450	PN16	900-2650	548	585	640	31	780	1030	1200	1217	641
879-0450-00-144002399A0 ⁽¹⁾	450	PN16	900-2650	548	585	640	31	780	1030	1200	1217	641
879-0500-00-14400209999	500	PN16	330-950	609	650	715	34	930	1215	1250	1267	931
879-0500-00-144002099A0 ⁽¹⁾	500	PN16	330-950	609	650	715	34	930	1215	1250	1267	931
879-0500-00-14400219999	500	PN16	450-1600	609	650	715	34	930	1215	1250	1267	931
879-0500-00-144002199A0 ⁽¹⁾	500	PN16	450-1600	609	650	715	34	930	1215	1250	1267	931
879-0500-00-14400229999	500	PN16	700-2400	609	650	715	34	930	1215	1250	1267	931
879-0500-00-144002299A0 ⁽¹⁾	500	PN16	700-2400	609	650	715	34	930	1215	1250	1267	931
879-0500-00-14400239999	500	PN16	1050-3000	609	650	715	34	930	1215	1250	1267	931
879-0500-00-144002399A0 ⁽¹⁾	500	PN16	1050-3000	609	650	715	34	930	1215	1250	1267	931
879-0600-00-04400209999	600	PN10	500-1400	682	725	780	31	1020	1325	1450	1467	1268
879-0600-00-044002099A0 ⁽¹⁾	600	PN10	700-2200	682	725	780	31	1020	1325	1450	1467	1268
879-0600-00-04400219999	600	PN10	700-2200	682	725	780	31	1020	1325	1450	1467	1268
879-0600-00-044002199A0 ⁽¹⁾	600	PN10	700-2200	682	725	780	31	1020	1325	1450	1467	1268
879-0600-00-04400229999	600	PN10	950-3300	682	725	780	31	1020	1325	1450	1467	1268
879-0600-00-044002299A0 ⁽¹⁾	600	PN10	950-3300	682	725	780	31	1020	1325	1450	1467	1268
879-0600-00-04400239999	600	PN10	1600-4450	682	725	780	31	1020	1325	1450	1467	1268
879-0600-00-044002399A0 ⁽¹⁾	600	PN10	1600-4450	682	725	780	31	1020	1325	1450	1467	1268
879-0600-00-14400209999	600	PN16	500-1400	720	770	840	37	1020	1325	1450	1467	1268
879-0600-00-144002099A0 ⁽¹⁾	600	PN16	500-1400	720	770	840	37	1020	1325	1450	1467	1268
879-0600-00-14400219999	600	PN16	700-2200	720	770	840	37	1020	1325	1450	1467	1268
879-0600-00-144002199A0 ⁽¹⁾	600	PN16	700-2200	720	770	840	37	1020	1325	1450	1467	1268
879-0600-00-14400229999	600	PN16	950-3300	720	770	840	37	1020	1325	1450	1467	1268
879-0600-00-144002299A0 ⁽¹⁾	600	PN16	950-3300	720	770	840	37	1020	1325	1450	1467	1268
879-0600-00-14400239999	600	PN16	1600-4450	720	770	840	37	1020	1325	1450	1467	1268
879-0600-00-144002399A0 ⁽¹⁾	600	PN16	1600-4450	720	770	840	37	1020	1325	1450	1467	1268

(1) Incl. position indicator