



AVK DIAPHRAGM CONTROL VALVE, MAIN VALVE, PN10/16

879/009999-001

Reduced bore, no pilot, AISI304/DI trim, EPDM/WRAS rubber

AVK series 879 diaphragm actuated control valves are designed to automatically regulate the flow through the valve in order to e.g. maintain a constant outlet pressure or flow, limit upstream pressure, anticipate surges, etc. The control is achieved by means of external solenoid- or pilot valves that regulate the flow of water in and out of the control chamber. Sensors, solenoids, pilots, fittings, piping and feed-back mechanisms are not included. 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, 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 in stainless steel AISI 304

Accessories:

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



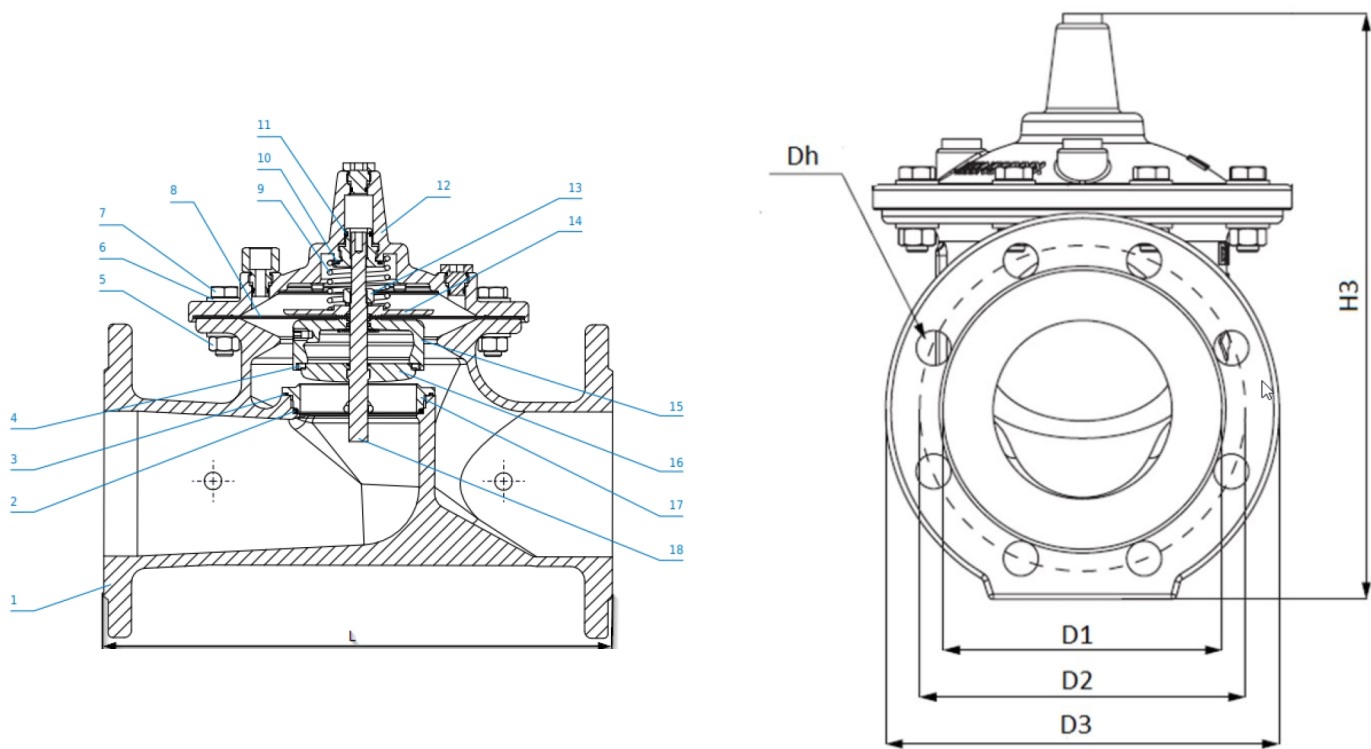
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The designs, materials and specifications shown are subject to change without notice due to the continuous development of our product range.

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Component list:

1. Body	Ductile iron GJS-500-7	10. Flat seal	EPDM rubber
2. O-ring	EPDM rubber	11. Flat seal	EPDM rubber
3. O-ring	EPDM rubber	12. Cover	Ductile iron GJS-500-7
4. Plug sealing	EPDM rubber	13. Hex nut	Stainless steel A2
5. Hex nut	Stainless steel A2	14. Diaphragm support	Ductile iron GJS-500-7
6. Washer	Stainless steel AISI 304	15. Obturator	Ductile iron GJS-500-7
7. Bolts	Stainless steel A2	16. Regulating plug	Stainless steel AISI 304
8. Diaphragm	EPDM rubber	17. Seat	Stainless steel AISI 304
9. Spring	Stainless steel AISI 304	18. Stem	Stainless steel AISI 304

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

Reference nos. and dimensions:

AVK ref. no.	DN mm	Flange drilling	D1 mm	D2 mm	D3 mm	Dh mm	H3 mm	L mm	Theoretical weight/kg
879-0065-00-1D400999999	65	PN16	118	145	185	19	290	290	16
879-0080-00-1D400999999	80	PN16	132	160	200	19	313	310	20
879-0100-00-1D400999999	100	PN16	156	180	220	19	327	350	25
879-0125-00-1D400999999	125	PN16	184	210	250	19	346	400	29
879-0150-00-1D400999999	150	PN16	211	240	285	23	380	480	42
879-0200-00-0D400999999	200	PN10	266	295	340	23	501	600	92
879-0200-00-1D400999999	200	PN16	266	295	340	23	501	600	92
879-0250-00-0D400999999	250	PN10	319	350	395	23	619	730	153
879-0250-00-1D400999999	250	PN16	319	355	405	28	619	730	153
879-0300-00-0D400999999	300	PN10	370	400	445	23	694	850	217
879-0300-00-1D400999999	300	PN16	370	410	460	28	694	850	217
879-0350-00-0D400999999	350	PN10	429	460	505	23	772	980	320
879-0350-00-1D400999999	350	PN16	429	470	520	28	772	980	320
879-0400-00-0D400999999	400	PN10	480	515	565	31	896	1100	491

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AVK ref. no.	DN mm	Flange drilling	D1 mm	D2 mm	D3 mm	Dh mm	H3 mm	L mm	Theoretical weight/kg
879-0400-00-1D400999999	400	PN16	480	525	580	31	896	1100	491
879-0450-00-0D400999999	450	PN10	530	565	615	28	957	1200	638
879-0450-00-1D400999999	450	PN16	548	585	640	31	957	1200	638
879-0500-00-0D400999999	500	PN10	582	620	670	28	1145	1250	928
879-0500-00-1D400999999	500	PN16	609	650	715	34	1145	1250	928
879-0600-00-0D400999999	600	PN10	682	725	780	31	1255	1450	1265
879-0600-00-1D400999999	600	PN16	720	770	840	37	1255	1450	1265