



AVTA Thermostatically self-acting cooling water valve

- ◆ For self acting thermostatic control and regulation of machines or installations.
- ◆ Standard temperature regulation range: 0 to 30°C, 10 to 80°C, 25 to 65°C or 50 to 90°C.
- ◆ G³/₈" to G1" end connections
- ◆ Also available in DZR brass or stainless steel

Technical data

Media temperature: -25 → +130°C

Differential pressure: 0-> 10 bar

Max. Working pressure: 16 bar

Max. Test pressure: 25 bar

Materials: Standard valve body: Brass. Stainless steel or DZR bodies on request

Opens on rising sensor temperature. The valve is pressure-relieved, i.e. the degree of opening is not affected by differential pressure Δp (pressure drop). The regulation range is defined for the point at which the valve begins to open.

AVTA with absorption charge

The charge consists of active carbon and CO₂ which is adsorbed on falling sensor temperature and thereby produce pressure changes in the element.

Special characteristics

- Wide regulating range
- Small sensor dimensions - 09.5x160 mm. The sensor can be installed in any position as far as orientation and temperature are concerned

Ordering, AVTA with absorption charge

Connection	Regulating range [°C]	Max. sensor temperature	k _v value (m ³ /h at Δp = 1 bar)	Capillary tube length [m]	Type	Code no. ¹⁾
G ³ / ₈	+10-4 +80°C	+130°C	1.4	2.3	AVTA 10	003N1144
G ¹ / ₂			1.9		AVTA 15	003N0107
G ³ / ₄			3.4		AVTA 20	003N0108
G1			5.5		AVTA 25	003N0109

¹⁾ Code no. covers complete valve incl. capillary tube gland.

AVTA with universal charge

The charge is liquid/gas where the liquid surface (regulating point) is always inside the sensor. Which charge medium is used depends on the temperature range.

Special characteristics

- Sensor dimensions 018x210 mm.
The sensor must be installed horizontally or with the free end pointing down-wards. The sensor can be installed colder or warmer than the valve.
- Max. pressure on sensor 25 bar

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Ordering, AVTA with universal charge

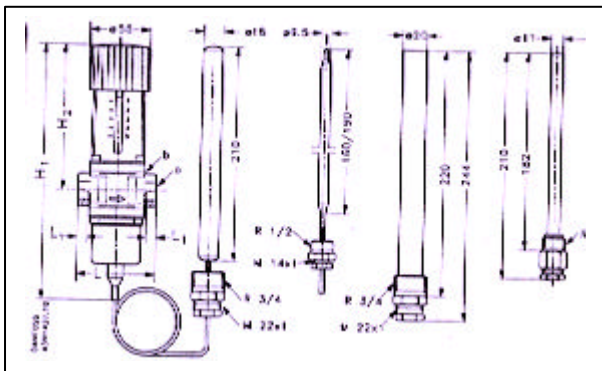
Connection	Regulating range (°C)	Max. sensor temperature	K _v value (m ³ /h at Ap = 1 bar)	Capillary tube length (m)	Type	Code no. ¹⁾
G ³ / ₈ G ¹ / ₂ G ³ / ₄ G1	0 → +30°C	+57°C	1.4 1.9 3.4 5.5	2	AVTA10 AVTA15 AVTA20 AVTA25	003N1132 003N2132 003N3132 003N4132
G ³ / ₈ G ¹ / ₂ G ³ / ₄ G1	+25 → +65°C	+90°C	1.4 1.9 3.4 5.5	2	AVTA10 AVTA15 AVTA20 AVTA25	003N1162 003N2162 003N3162 003N4162
G ³ / ₈ G ¹ / ₂ G ³ / ₄ G1 G1	+50 → +90°C	+125°C	1.4 1.9 3.4 5.5 5.5	2 3	AVTA10 AVTA15 AVTA20 AVTA25 AVTA25	003N1182 003N2182 003N3182 003N4182 003N4183 ²⁾

¹⁾ Code no. covers complete valve incl. capillary tube gland.

²⁾ Ø2 mm bypass is drilled in the valve body. Valve body with bypass.

Accessories

	Designation	Description	Code no.
	Sensor pocket for Ø18 mm Sensor L = 220 mm Max. Pressure 25 bar	Brass G ³ / ₄ Brass 14 NPT 18/8 Stainless steel ¹⁾ G ³ / ₄	003N0050 003N0051 003N0192
	Sensor pocket for Ø9.5 mm sensor L = 182 mm, max. pressure 25 bar	Brass G ¹ / ₂ 18/8 steel ¹⁾ G ¹ / ₂	993N3569 003N0196
	Mounting bracket	For AVTA	003N0388
	Heat-conductive compound	5 gram tube 0.8 kg Tin	041E0110 041E0111
	1 nitrile diaphragm for mineral oil	For AVTA 10/15 For AVTA 20 For AVTA 25	003N0445 003N0446 003N0447
	Capillary tube gland	G ¹ / ₂ G ³ / ₄ 3/4 - 14 NPT	017-4220 003N0155 003N0056
	2 O-rings 2 diaphragms Valve cone	For AVTA 10/15 For AVTA 20 For AVTA 25	003N400600 003N400700 003N400800



For more information see datasheet
DKACV.PD.500.A2.

Type	AVTA 10	AVTA 15	AVTA 20	AVTA 25
H ₁ (mm)	240	240	240	240
H ₂ (mm)	133	133	133	133
L (mm)	72	72	90	95
l (mm)	14	14	16	19
a	G ³ / ₈	GV?	G ³ / ₄	G1
b (mm)	C27	27	32	41

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