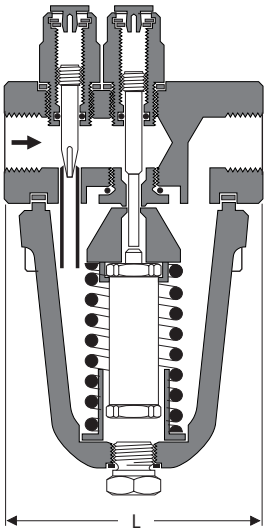
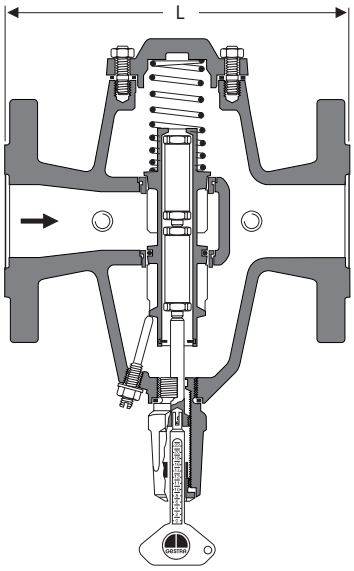
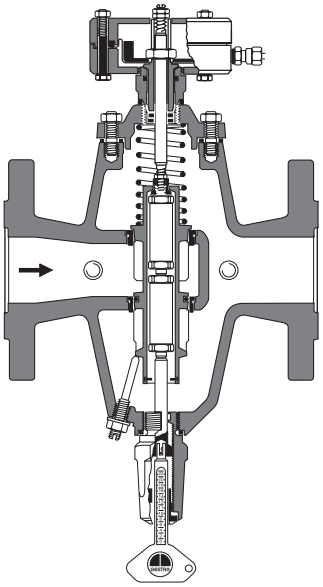


CW 44



CW 41



MCW 41

Features of the CW Series

- Direct acting proportional controller for regulating the cooling-water return temperature.
- Reduced capital costs (for new plants) coolant and energy consumption due to higher discharge temperatues
- The valve prevents short-circuiting and automatically balances large systems.
- Straight-through body with solid-state expansion thermostat and setting device.
- Standard valve type CW 41 with pressure gauge (0–6 bar) and thermometer (–30 to +100 °C).
- MCW 41 = CW 41 with diaphragm actuator. (Retro-fitting of diaphragm actuator possible).

Application

CW 41 **CW 44**	for industrial cooling water
CW 41/4 **CW 44 k**	for saline fluids, ammoniacal cooling water and chlorinated hydrocarbons (wetted internal parts made from stainless steel)
MCW 41	for heavily contaminated cooling systems

Specification*)

Type	PN	ΔPMX [bar]	Material		Pressure/Temperature	
			EN	ASTM	PMA / TMA	PMA / TMA
CW 41	16	6	EN-JS 1049	– [1]	16 bar/–32 °C	16 bar/110 °C [2][3]
CW 41/4	16	6	EN-JS 1049	– [1]	16 bar/–32 °C	16 bar/110 °C [2][3]
CW 44	25	16	1.0460	A 105 [1]	25 bar/–2 °C	25 bar/110 °C [2][3]
CW 44 k	25	16	1.0460	A 105 [1]	25 bar/–37 °C	25 bar/85 °C [2][3]

[1] ASTM nearest equivalent grade is stated for guidance only. Physical and chemical properties comply with EN.

[2] Temperature only admissible for a short time

[3] Admissible temperature depends on type of thermostat: type n (standard) 110 °C, type w (wax) 100 °C, type k (brine) 85 °C

***) For more information see data sheets.**

Temperature Ratings

Type	Thermostat / cone combination	Adjustment range
CW 41 **CW 41/4**	wr or ws	20 °C – 60 °C
	nr or ns	3 °C – 100 °C
	kr or ks	–32 °C – 74 °C
CW 44	n	–2 °C – 106 °C
CW 44 k	k	–37 °C – 71 °C
	w = wax thermostat n = standard thermostat k = thermostat for brine r = reduced cone for small flowrates s = standard cone for large flowrates	

End Connections and Overall Lengths

Type	End connection	Overall length L [mm]							
		DN 10	DN 15	DN 20	DN 25	DN 40	DN 50	DN 80	DN 100
		3/8"	1/2"	3/4"	1"	1 1/2"	2"	3"	4"
CW 41	Flanged DIN PN 16	–	–	–	160	200	230	310	350
CW 41/4	Flanged DIN PN 16	–	–	–	160	200	230	310	350
CW 44	Screwed sockets	95	95	95	95	–	–	–	–
CW 44 k	Screwed sockets	95	95	95	95	–	–	–	–

Flowrates (k_v values)

Type	Cone		DN 25	DN 40, DN 50	DN 80, DN 100
CW 41	r	K_{VS} value [m³/h]	2.1	6.5	20
CW 41/4		K_{VO} (Preset bleed flow) [m³/h]	0.12	0.31	1.0
	s	K_{VS} value [m³/h]	10.5	31	98
		K_{VO} (Preset bleed flow) [m³/h]	0.55	1.5	5.0

			G 3/8	G 1/2	G 3/4	G 1
CW 44	–	K_{VS} value [m³/h]	0.66	0.66	1.37	1.37
CW 44 k	–	K_{VO} (Preset bleed flow) [m³/h]]	0.04	0.04	0.04	0.04