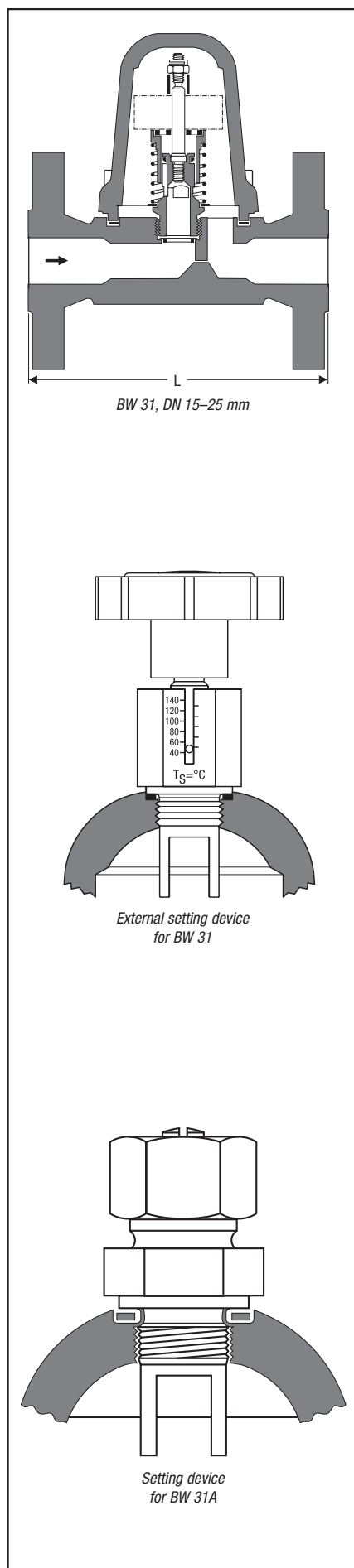




Features of the BW series

- Direct acting proportional controller for maintaining constant return temperatures.
- Used for regulating large heating systems and tracing systems, or for the temperature control of individual heat exchangers (washing baths, chemical and galvanic baths).
- The valve prevents short-circuiting and automatically balances large systems.
- Straight-through valve with balanced valve sleeve. Closing temperature set at our works.
- Valves with external setting device available on request.

Application

BW 31	for hot water
BW 31 A	for thermal oils

Specification

BW 31 PN 40					
Material	1.0460 (P250GH / C 22.8) / ASTM A105				
Size (DN)	15, 20, 25				
Connection	Flanged to EN PN 40				
Service pressure PMA [bar]	40	37.3	30.2	25.8	23.1
Inlet temperature TMA [°C]	20	100	200	300	400

BW 31 PN 25					
Material	1.0460 (P250GH / C 22.8) / ASTM A105				
Size (DN)	40				
Connection	Flanged to EN PN 25				
Service pressure PMA [bar]	25	23.3	19.4	16.1	14.4
Inlet temperature TMA [°C]	20	100	200	300	400

BW 31A PN 40					
Material	1.0460 (P250GH / C 22.8) / ASTM A105				
Size (DN)	15, 20, 25				
Connection	Flanged to EN PN 40				
Service pressure PMA [bar]	40	37.3	30.2	25.8	23.1
Inlet temperature TMA [°C]	20	100	200	300	400

BW 31A PN 25					
Material	1.0460 (P250GH / C 22.8) / ASTM A105				
Size (DN)	40				
Connection	Flanged to EN PN 25				
Service pressure PMA [bar]	25	23.3	19.4	16.1	14.4
Inlet temperature TMA [°C]	20	100	200	300	400

Admissible differential pressure (upstream pressure minus downstream pressure) ΔPMX [bar]	6
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End Connections and Overall Lengths L

Type	Connections	Overall length L [mm]			
		DN 15 1/2"	DN 20 3/4"	DN 25 1"	DN 40 1 1/2"
BW 31	Flanged EN PN 25	150	150	160	200
	Flanged ASME 150	150	150	160	200
	Screwed sockets	95	95	95	–
BW 31A	Flanged EN PN 25	150	150	160	200
	Flanged ASME 150	150	150	160	200
	Screwed sockets	95	95	95	–

Adjustable closing temperatures (without external setting device)

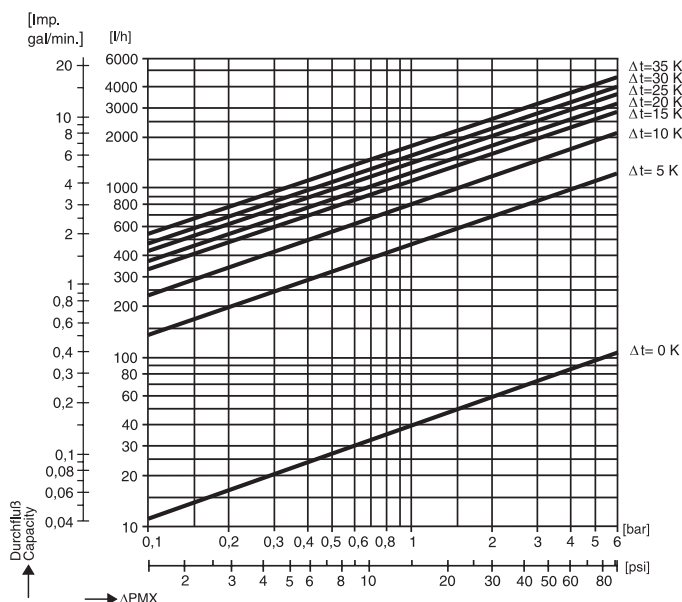
Type	Adjustable range	DN 15 mm	DN 20 mm	DN 25 mm	DN 40 mm
		1/2"	3/4"	1"	1 1/2"
BW 31		60 °C - 130 °C	40 °C - 115 °C	40 °C - 115 °C	50 °C - 110 °C
BW 31A		120 °C - 270 °C	100 °C - 280 °C	100 °C - 280 °C	100 °C - 270 °C

Adjustable closing temperatures (with external setting device)

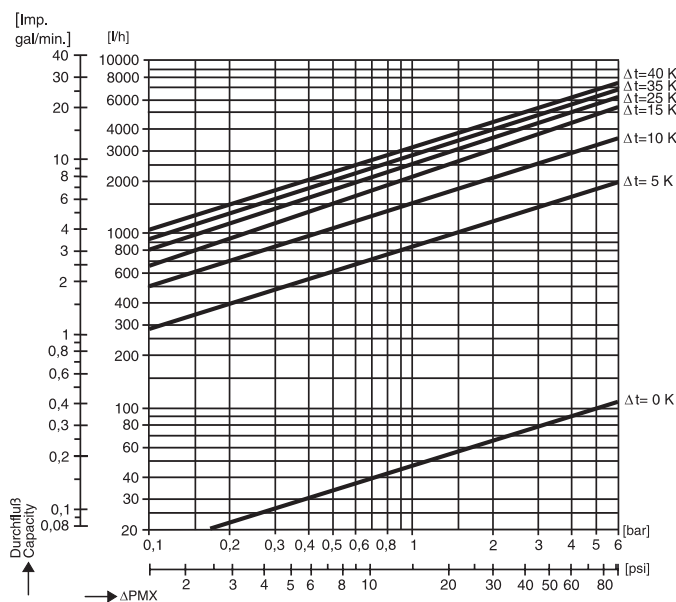
BW 31	60 °C - 130 °C	40 °C - 115 °C	40 °C - 115 °C	50 °C - 110 °C
BW 31A	90 °C - 270 °C	70 °C - 270 °C	70 °C - 270 °C	70 °C - 270 °C

Capacity Charts

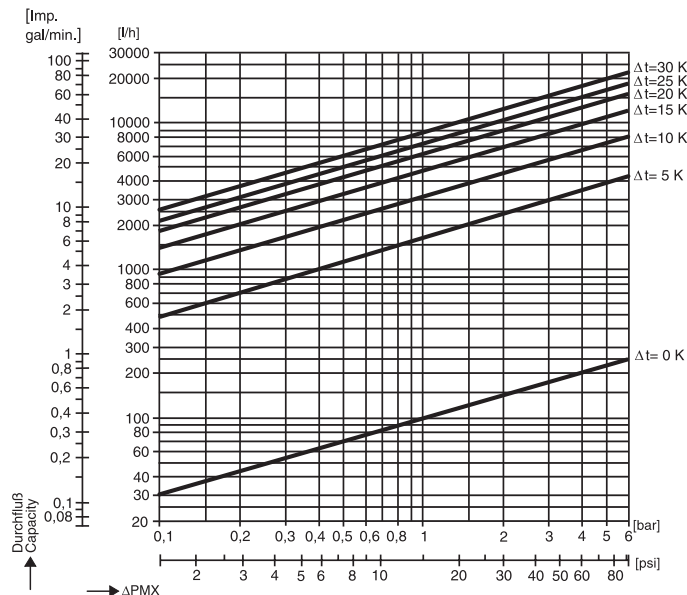
BW 31, DN 15²⁾



BW 31, DN 20 and 25²⁾



BW 31, DN 40²⁾



Δt = temperature difference in Kelvin [K] between closing temperature (temperature at which the valve is closed) and return temperature.

²⁾ For capacity chart BW 31 A see data sheet.