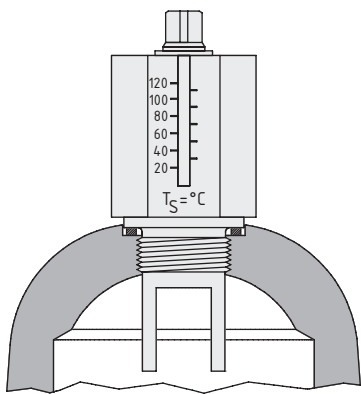
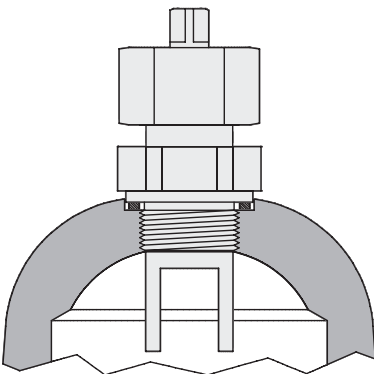


BW 31, DN 15–25 mm



External setting device
for BW 31



External setting device
for BW 31A

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).
- Also suitable for a supply system tailored to the needs of consumers that are installed in parallel.
- 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 *)

Type	DN	PN	ΔP [bar]	Material		Pressure / Temperature		
				EN	ASTM	PS [bar]	TS [°C]	p / T [bar / °C]
BW 31	15-25	40	6	1.0460	A 105 ¹⁾	40	400	23.1 / 400
BW 31	40	25	6	1.0460	A 105 ¹⁾	25	400	14.4 / 400
BW 31A	15-25	40	6	1.0460	A 105 ¹⁾	40	400	23.1 / 400
BW 31A	40	25	6	1.0460	A 105 ¹⁾	25	400	14.4 / 400

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

*) For more information on pressure/temperature ratings and end connections see data sheet.

End Connections and Overall Lengths L

Type	Connections	Overall length L [mm]			
		DN 15	DN 20	DN 25	DN 40
BW 31	Flanged EN PN 25	150	150	160	200
	Flanged ASME 150	150	150	160	215
	Screwed sockets	95	95	95	130
BW 31A	Flanged EN PN 25	150	150	160	200
	Flanged ASME 150	150	150	160	216
	Screwed sockets	95	95	95	130

Closing temperatures (without external setting device)¹⁾

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		20 °C - 130 °C	20 °C - 115 °C	20 °C - 115 °C	20 °C - 110 °C
BW 31A		120 °C - 270 °C	100 °C - 280 °C	100 °C - 280 °C	100 °C - 270 °C

1) A fixed closing temperature can only be adjusted within the indicated adjustment range in steps of 5 °C.

Adjustable closing temperatures (with standard 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

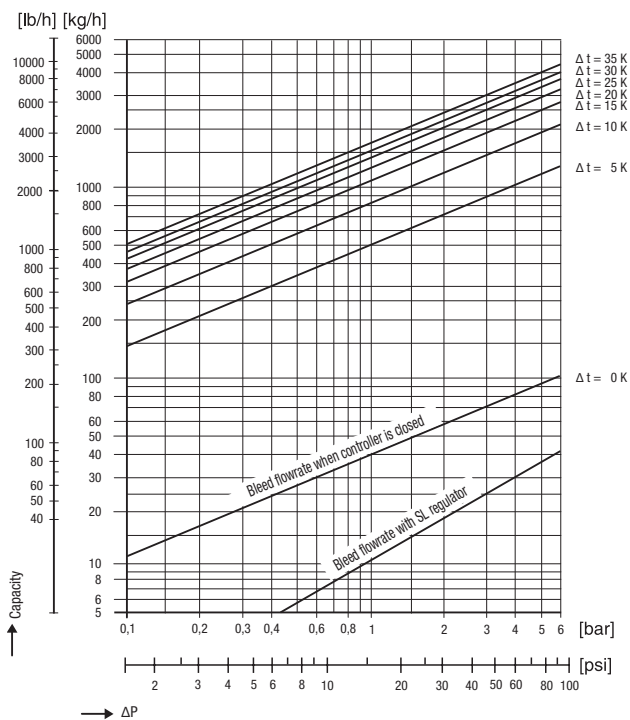
Adjustable closing temperatures (with special external setting device)

BW 31	20 °C - 110 °C	20 °C - 90 °C	20 °C - 90 °C	20 °C - 75 °C
BW 31A	60 °C - 160 °C	30 °C - 170 °C	30 °C - 170 °C	25 °C - 85 °C

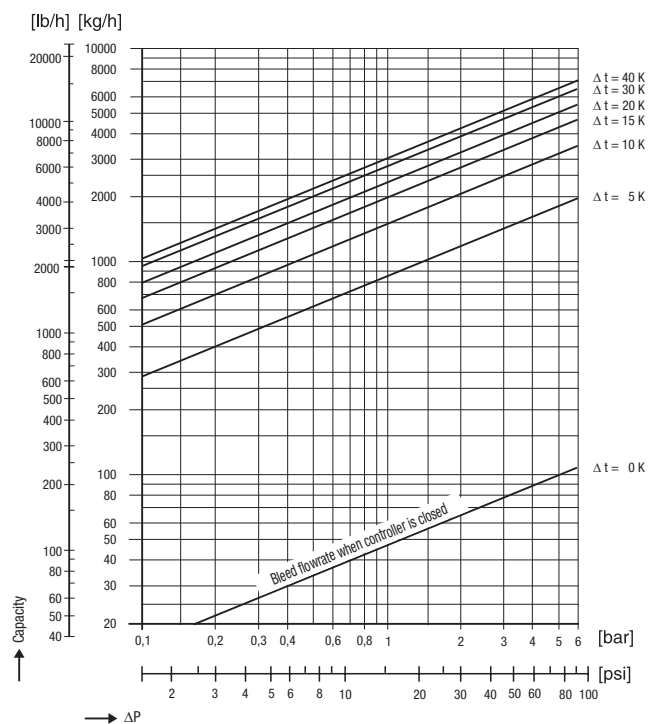
Capacity Charts

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

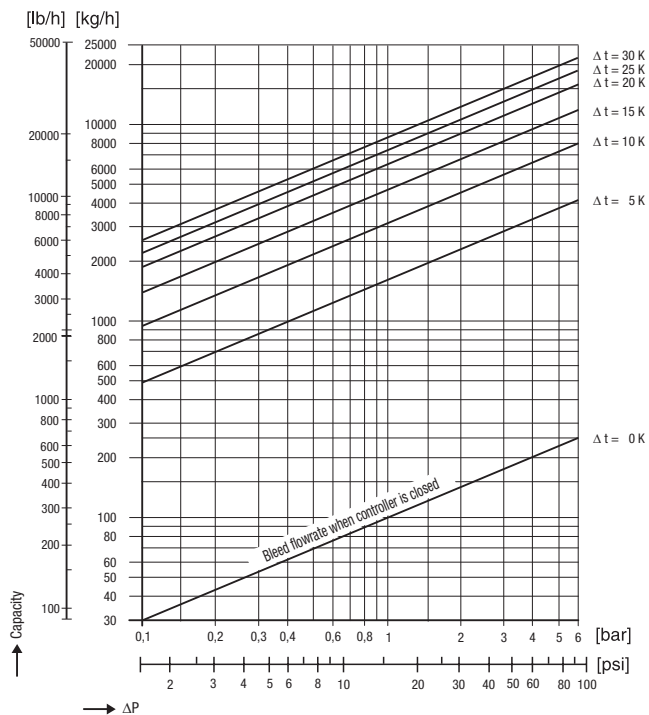
BW 31, DN 15



BW 31, DN 20 and 25



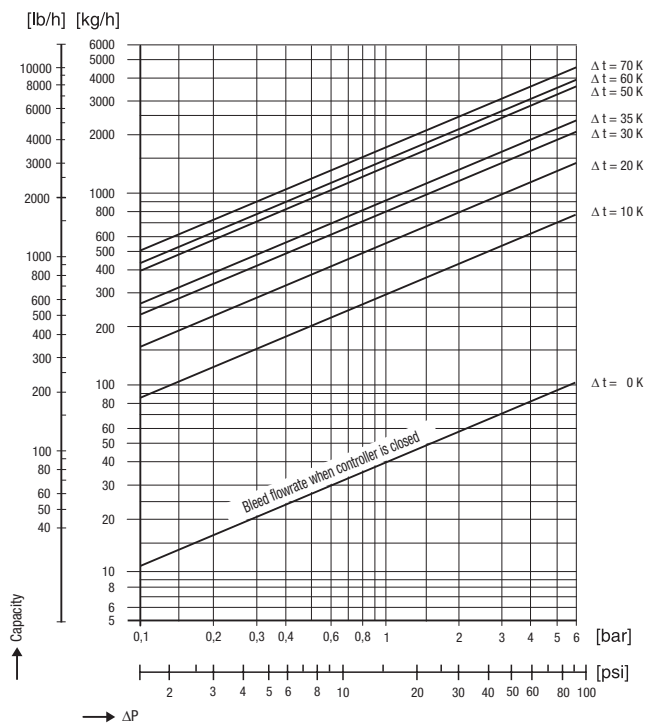
BW 31, DN 40



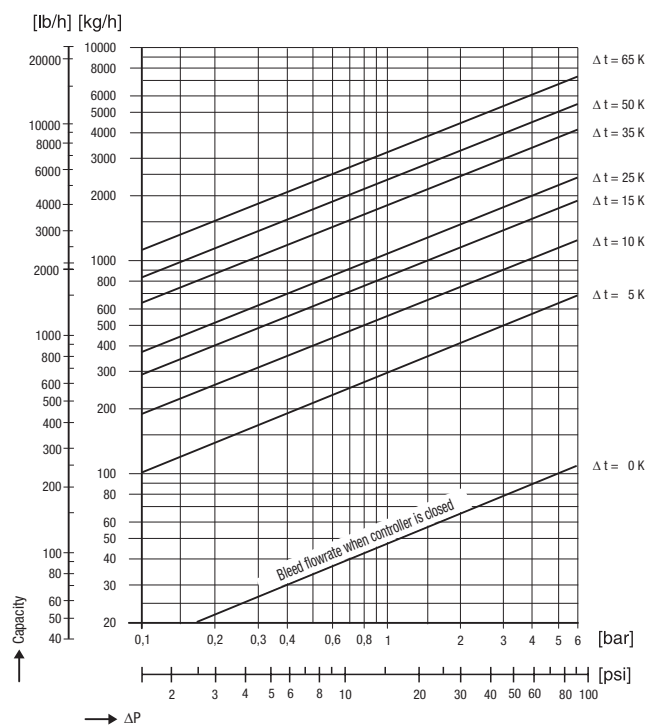
Capacity Charts

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

BW 31A, DN 15



BW 31A, DN 20 and 25



BW 31A, DN 40

