

DWR 625-205

DWR-B series

Pressure limiters for steam and hot water, fuel gases and liquid fuels

The pressure limiters are equipped with a reclosing lockout for the mechanical interlocking of the switch-off state. If the switching point set on the pressure limiter is reached, the limiter switches off. The switch-off state is retained even if the pressure changes again. It can only be reset by manually operating the reset button. For unlock-

ing to be possible, the pressure at the sensor must have fallen (in the case of maximum pressure limiters) or risen (in the case of minimum pressure limiters). The pressure change values are listed in the Product Summary.

Technical data

Pressure connection

External thread G 1/2 (pressure gauge connection) to DIN 16 288 and internal thread G 1/4 to ISO 228 Part 1 (for gas applications internal thread permissible only up to 4 bar).

Switching device

Rugged housing (200) made of seawater-resistant diecast aluminium.

Materials

Pressure bellows: Material no. 1.4571
 Sensor housing: Material no. 1.4104
 Switch housing: GD Al Si 12 (DIN 1725)

Mounting position Vertically upright and horizontal.

Ambient temperature at switching device
 -25...+70°C

Medium temperature -25...+70°C.

The medium temperature at the pressure sensor must not exceed the permitted ambient temperature at the switching device. Temperatures may reach 85°C for short periods. Higher medium temperatures are possible provided the above limit values for the switching device are ensured by suitable measures (e.g. siphon).

Mounting

Directly on the pressure line (pressure gauge connection) or on a flat surface with two 4 mm Ø screws.

Calibration

The DWR-205 series is calibrated for rising pressure. This means that the adjustable switching pressure on the scale corresponds to the switching point at rising pressure. The reset point is lower by the amount of the switching differential. (See also page 30, 2. Calibration at upper switching point). The DWR-206 series is calibrated for falling pressure. This means that the adjustable switching pressure on the scale corresponds to the switching point at falling pressure. The reset point is higher by the amount of the switching differential. (See also page 30, 1. Calibration at lower switching point).

Bursting pressure For all types ≥ 100 bar, verified by TÜV test.

Switching differential For values see Product Summary.

Contact arrangement Single pole changeover switch.

Switching capacity	250 VAC (ohm)	250 VDC (ind)	24 VDC (ohm)	24 VDC (ohm)
Normal	8 A	5 A	0.3 A	8 A

Degree of protection IP 54 according to DIN 40 050
 IP 65 (alternative version)

Sealing P2

On request (can be fitted later).



Component tested for

Testing basis

Pressure 100/1, Issue 4.83
 For maximum pressure limiter
 For minimum pressure limiter
 DIN 3398, Part 3, Issue 11.92
 DIN 3398, Part 4, Issue 10.86

Function

Direction of action

Sensor

Steam

Hot water

Fuel gases

Liquid fuels

Registration no.

TÜV.SDB.02 – 310
 TÜV.SDB.02 – 309
 NG-4347AQ1411
 3 C028/05

Pressure limiter (with internal interlock)

For maximum and minimum pressure monitoring (SDBFS)

"Of special construction" by testing with 2 million cycles.

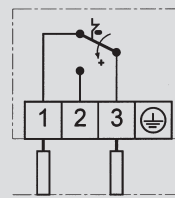
Important: When selecting the limiter, it is necessary to decide whether the device is to be used for maximum or minimum pressure monitoring. The direction of action cannot be reversed at the pressure limiter.

Product Summary

Type	Setting range	Switching differential (mean values)	Maximum working pressure 1*	Maximum working pressure 2*	Connection diagram
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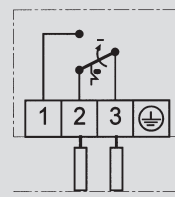
Maximum pressure limiters

DWR 06-205	0.1...0.6 bar	0.06 bar	6 bar	6 bar
DWR 1-205	0.2...1.6 bar	0.09 bar		
DWR 3-205	0.2...2.5 bar	0.20 bar	10 bar	16 bar
DWR 6-205	0.5...6 bar	0.30 bar		
DWR 625-205	0.5...6 bar	0.50 bar	20 bar	25 bar
DWR 16-205	3...16 bar	0.70 bar		
DWR 25-205	4...25 bar	1.4 bar	50 bar	63 bar
DWR 40-205	8...40 bar	2.3 bar		



Minimum pressure limiters

DWR 06-206	0.1...0.6 bar	0.06 bar	6 bar	6 bar
DWR 1-206	0.2...1.6 bar	0.09 bar		
DWR 3-206	0.2...2.5 bar	0.20 bar	10 bar	16 bar
DWR 6-206	0.5...6 bar	0.30 bar		
DWR 625-206	0.5...6 bar	0.50 bar	20 bar	25 bar
DWR 16-206	3...16 bar	0.70 bar		
DWR 25-206	4...25 bar	1.4 bar	50 bar	63 bar
DWR 40-206	8...40 bar	2.3 bar		



* Maximum working pressure and dimensions as for type series DWR. Pressure monitors DWR... (page 51) can also be used as maximum pressure and minimum pressure limiters with external interlock. You will find other maximum pressure limiters with safety sensor, type series SDBAM..., on page 50. Types DWAM... can also be used with external interlock as maximum pressure limiters.



Degree of protection:
IP 54/65