

# Pressure gauge

AT 1800, 1801, 1804, 1805,  
1806, 1807

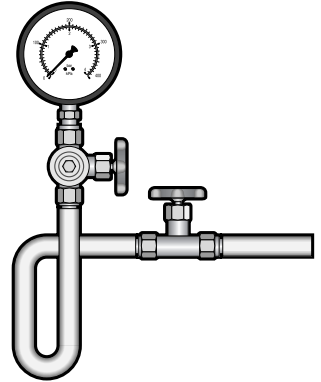
Dimension range	PN	Temperature range	Material
G 3/8	16/160	-20 - 280 °C	Brass, Steel, Stainless steel

## Range of Application

For pressure gauging, mainly warm/cold water, heat-water, steam and neutral liquids and gases.

## Quality Assurance

Valves, connection piece and pressure gauge are performed acc to SMS.

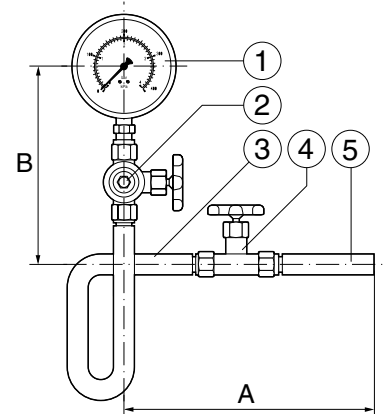


## Material Specification

1	Pressure gauge	AT 4259 alt. AT 4256	copper alloy
2	Pressure gauge valve	AT 1844 alt. AT 1894	brass alt. stainless steel
3	Syphon	AT 1820	steel
4	Pressure gauge valve	AT 1842 alt. AT 1892	brass alt. stainless steel
5	Weld connection fitting	AT 1825	steel

## Dimension

A		270
B	for body diam. 100	205
B	for body diam. 160	235



## Function and design

When pressure gauging steam or hot liquids, the pressure gauge equipment must be protected against high temperatures. The temperature at the pressure gauge must not go above 50°C. For this it is suitable to use a syphon.

The pressure gauge on steam boiler or other pressure vessels, for which official instructions are valid, shall be provided with a gauge valve with test flange for connection of a control manometer. To be able to adjust the control manometer valve during operation, the unit should be completed with a pressure gauge valve.

The pressure gauge AT 1806 is specially intended for district heating - primary, with a minimum of thread connections.

Note! At superheated steam a longer pipe than a syphon is requested to protect the manometer against overheating.

The pressure gauge equipment is delivered in a box with installation and maintenance instructions.

## Technical information

The pressure gauge equipment consists of the following components:

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1806, 1807

Qty		AT 1800	AT 1801	AT 1804	AT 1805	AT 1806	AT 1807
1	Pressure gauge class 1,0	AT 4259	AT 4256	AT 4259	AT 4256	AT 4259	AT 4259R/AT 4256R
	Body diameter	100	160	100	160	100	100/160
1	Pressure gauge valve	AT 1844	AT 1844	AT 1894	AT 1894	AT 1894	AT 1894
		brass	brass	stainless steel	stainless steel	stainless steel	stainless steel
1	Syphon acc to SMS 1648-B	AT 1820	AT 1820	AT 1820	AT 1820	AT 1820	AT 1820S
		steel	steel	steel	steel	steel	stainless steel
1	Pressure gauge valve	AT 1842	AT 1842	AT 1892	AT 1892	-	AT 1892
		brass	brass	stainless steel	stainless steel		stainless steel
2	Connection pieces G 3/8	AT 1849	AT 1849	AT 1899	AT 1899	-	AT 1899
	left thread against weld conn. fitting	brass	brass	stainless steel	stainless steel		stainless steel
	right thread against pressure gauge valve						
1	Weld conn. fitting, prepared for welding, left thread against pressure gauge valve	AT 1825	AT 1825	AT 1825	AT 1825	-	AT 1825S
							stainless steel
5	Copper glands, plane	AT 1799-01	AT 1799-01	AT 1799-01	AT 1799-01	AT 1799-01	AT 1799-04 (monel)

The pressure gauges shall be graduated 1-2,5, 0-4, 0-6, 0-10, 0-25, 0-40 and so on to 0-160 bar (e).

See separate product sheets for the components above.

Fig. No	Working pressure max bar (e)	Working temperature max °C
AT 1800-1801	100	100
	85,5	185
AT 1804-1807	160	150
	125	200
	20	280

## Designing

The scale area should be chosen acc. to standard areas. At constant pressure 2/3 of the scale area should not be exceeded, and at changing pressure 1/2 of the scale area.

## Accessories and Options

The pressure gauge can be delivered in damping performance and with scales divergent from standard.

Other accessories as dampers and pressure distributors can be offered.

## Installation

The pressure gauge equipment shall be mounted so that it can be easily read. It is also important, especially in lower pressure areas, that the equipment is mounted so that the pressure gauge is vertical with the tap downwards.

The weld connection fitting shall be mounted horizontally or preferably with inclination about 5 degrees downwards, which gives a good ventilation and water filled pipe and valve, with lower temperature as a consequence.

## Maintenance and Spareparts

All components can be delivered as separate spare parts.

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## How to order

### Exempel: AT 1800-10-6

AT 1800	-10	-6
Fig. No.	DN	Gradation (bar)
1800=brass armature, steel pipe, body diam. 100 mm		2,5
1800=brass armature, steel pipe, body diam. 100 mm		4
1804=armature stainless steel, steel pipe, body diam. 100 mm		6
1805=armature stainless steel, steel pipe, body diam. 160 mm		10
1806=like 04, but without pressure gauge valve and weld conn. fitting		16
1807=stainless steel, pressure gauge separately		25
		40