

KSG Series

Safety unit for closed circuit systems

Technical Data Sheet



Description

Compact and complete safety unit for closed circuit heating systems according to EN 12828 standard.

KSG



Safety unit for closed circuit systems according to EN 12828, installed on a galvanized steel manifold, complete with air vent valve, 1/2" safety valve (3 bar), pressure gauge (0÷4 bar) with adjustable pointer and check valve. 1" F safety unit connection. PN 10.

| Type | Part no. | Setting | Connection | Outlet SRV | Power |
|---------|------------|---------|------------|------------|-------|
| KSG | 0270130INT | 3 bar | G1 | G3/4 | 50 kW |
| KSG-ISO | 0271133INT | 3 bar | G1 | G3/4 | 50 kW |

Other versions available on request

KSG/20M



Safety unit for closed circuit systems as per KSG, but with valve fixed in position F (front), R (right) and L (left). Version 20M with 3/4" valve. Version 25M with 1" valve. "F" (front) versions complete with insulation.

| Type | Part no. | Setting | Connection | Outlet SRV | Power |
|---------------|------------|---------|------------|------------|--------|
| KSG/20M-F-ISO | 0270136INT | 3 bar | G1 | G1 | 100 kW |
| KSG/25M-F-ISO | 0270137INT | 3 bar | G1 | G1 1/4 | 200 kW |

Other versions available on request

KSG-N



Safety unit for closed circuit systems according to EN 12828, up to 50kW complete with insulation - compact version, brass body with built-in air vent and safety valves incorporated into casting. Pressure gauge (0÷4 bar).

| Type | Part no. | Setting | Connection | Outlet SRV | Power |
|-------|----------|---------|------------|------------|-------|
| KSG-N | 0272015 | 1.5 bar | G1 | G3/4 | 50 kW |
| KSG-N | 0272025 | 2.5 bar | G1 | G3/4 | 50 kW |
| KSG-N | 0272030 | 3 bar | G1 | G3/4 | 50 kW |

KSG-MS



Safety unit for closed circuit systems according to EN 12828, up to 50kW, brass body with air vent valve and fixed safety valve (3 bar). Pressure gauge (0÷4 bar) DN63 with check valve.

| Type | Part no. | Setting | Connection | Outlet SRV | Power |
|--------|----------|---------|------------|------------|-------|
| KSG-MS | 0273330 | 3 bar | G1 | G3/4 | 50 kW |



KSG-G

Safety unit for closed circuit systems according to EN 12828, up to 50kW, cast iron body with air vent valve and directionally adjustable safety valve (3 bar). Pressure gauge (0÷4 bar) DN63 with check valve.

| Type | Part no. | Setting | Connection | Outlet SRV | Power |
|-------|------------|---------|------------|------------|-------|
| KSG-G | 0270230INT | 3 bar | G1 | G3/4 | 50 kW |

Technical features

| | |
|----------------------|---------------------------|
| Maximum temperature | 80°C |
| Nominal pressure | 10 bar |
| Discharge pressure | See safety valve settings |
| Pressure gauge scale | 0÷4 bar |

Material

KSG

| | |
|------------------------|------------------------|
| Manifold | Galvanized steel sheet |
| Safety valve body | CW617N brass |
| Safety valve diaphragm | Peroxide cured EPDM |
| Vent valve body | CW617N brass |
| Vent valve seals | EPDM |
| Pressure gauge body | ABS |

KSG-N

| | |
|------------------------|---------------------|
| Manifold | CB753S brass |
| Safety valve diaphragm | Peroxide cured EPDM |
| Vent valve seals | EPDM |
| Pressure gauge body | ABS |

KSG-MS

| | |
|------------------------|---------------------|
| Manifold | CW617N brass |
| Safety valve body | CW617N brass |
| Safety valve diaphragm | Peroxide cured EPDM |
| Vent valve body | CW617N brass |
| Vent valve seals | Silicone |
| Pressure gauge body | ABS |

KSG-G

| | |
|------------------------|---------------------|
| Manifold | |
| Safety valve body | G18-20 cast iron |
| Safety valve diaphragm | CW617N brass |
| Vent valve body | Peroxide cured EPDM |
| Vent valve seals | CW617N brass |
| Pressure gauge body | EPDM |
| | ABS |

Application

As an alternative to single devices, the safety unit incorporates the accessories and tools utilized in closed circuit systems to guarantee monitoring and safety of the system.

With a pressure gauge installed, system pressure can be monitored continuously.

The inclusion of check valves enables replacement of the pressure gauge and the vent valve without depressurizing the system. The **KSG30 Series** model allows directional adjustment of the safety valve through 360°.

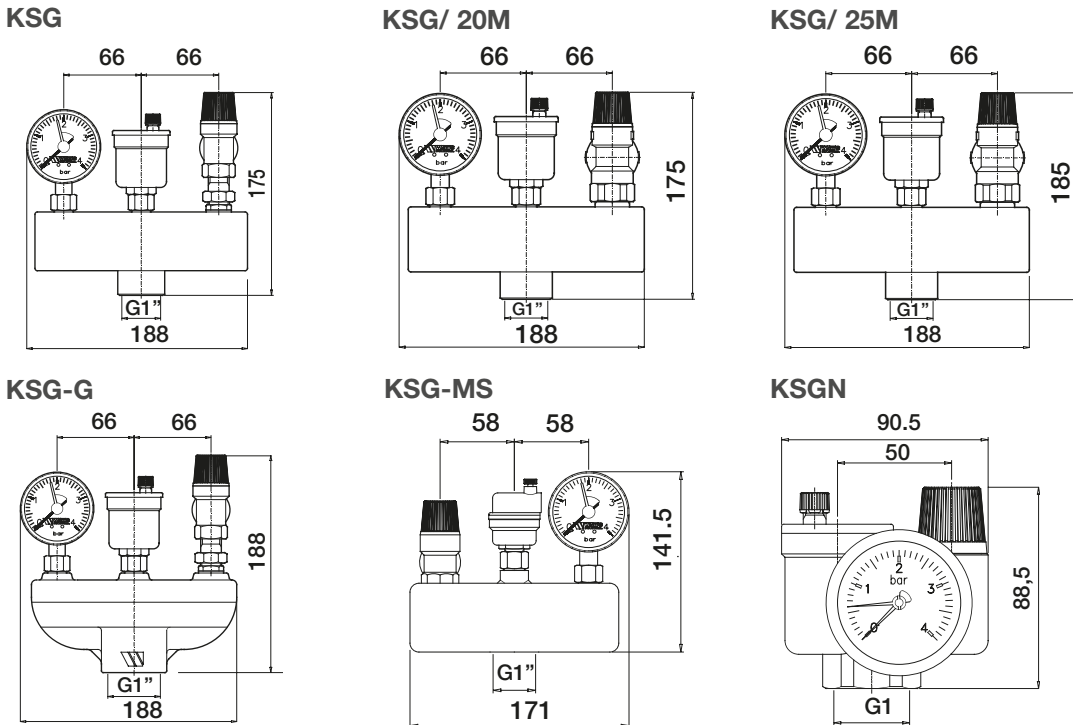
Operation

The **KSG Series** safety unit comes with pressure gauge, vent valve and safety valve.

The safety valve is spring-loaded, and allows system pressure to be maintained steady within the limit value envisaged for the installation.

The vent valve is equipped with an internal float, by means of which air accumulating in the system can be eliminated automatically.

Overall dimensions (mm)



Specification text

KSG Series

Safety unit **KSG Series** – WATTS brand – for closed circuit systems according to EN 12828, galvanized steel manifold, complete with air vent valve, check valve, directionally adjustable safety valve. Pressure gauge 0÷4 bar, DN63, with check valve.

KSG-M Series

Safety unit **KSG-M Series** – WATTS brand – for closed circuit systems according to EN 12828, galvanized steel manifold, complete with air vent valve, and safety valve in fixed position: front, right and left. 25M version with 3/4" valve.

KSG-N Series

Compact safety unit **KSG-N Series** – WATTS brand – for closed circuit systems according to EN 12828, up to 50 kW complete with insulation, brass body with built-in air vent and safety valves. Pressure gauge 0÷4bar DN63.

KSG-MS Series

Safety unit **KSG-MS Series** – WATTS brand – for closed circuit systems according to EN 12828, up to 50 kW, brass body with air vent valve, check valve and safety valve in fixed position. Pressure gauge (0÷4 bar), DN63, with check valve.

KSG-G Series

Safety unit **KSG-G Series** – WATTS brand – for closed circuit systems according to EN 12828, up to 50 kW, cast iron body with air vent valve, check valve and safety valve in fixed position.

Pressure gauge (0÷4 bar), DN63, with check valve.

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Watts Industries Italia S.r.l.

Via Brenno, 21 • 20853 Biassono (MB) • Italy
Tel. +39 039 4986.1 • Fax +39 039 4986.222
infowattsititalia@wattswater.com • www.watts.com