# Welding Purge Panel WPP Series

The Swagelok® WPP series welding purge panel displays the flow of purge gas and the resulting pressure at the weld point. This information allows the operator to set up weld configurations quickly and with repeatability. The welding purge panel:

- ensures steady, accurate flow of purge gas
- allows welds to be clean and stable while minimizing workbench clutter
- provides both ID and OD purge
- is compatible with all Swagelok welding systems.


## Features and Benefits

- The purge panel is highly configurable:
  - Choice of two or three flowmeters for added flexibility
  - Multiple gauge range options for welding different tube sizes
  - Fractional and metric options.
  - Optional pre-set regulator to reduce incoming purge gas pressure.
- The purge panel clearly indicates flow rates and can be used for welding many different tube sizes from 1/16 to 2 in. and 2 to 50 mm OD.
- An aluminum carrying handle is provided for easy transport.

## Materials of Construction

The WPP series welding purge panel consists of a powder-coated steel panel with 316 stainless steel Swagelok fluid system components. The components mounted on the purge panel include:

- Swagelok tube fittings
- Swagelok QC series quick connects
- Swagelok GP model flow meters
- Swagelok B model pressure gauge
- Swagelok KCY series regulator
- Magnehelic® pressure gauge.

## Testing, Cleaning, and Packaging

- Every Swagelok WPP series purge panel is shell tested to a requirement of no detectable leakage with a liquid leak detector at 50 psig (3.4 bar) nitrogen.
- All Swagelok WPP series purge panels are cleaned and packaged in accordance with Swagelok *Standard Cleaning and Packaging Specification (SC-10)*, MS-06-62.

For product technical data, including materials of construction, see the following catalogs:
Swagelok Gaugable Tube Fittings and Adapter Fittings, MS-01-140
Swagelok Quick Connects, MS-01-138
Swagelok GP Model Flow Meters, MS-02-346
Swagelok Pressure Gauges, MS-02-170
Swagelok Pressure Regulators, MS-02-230

## Pressure-Temperature Ratings

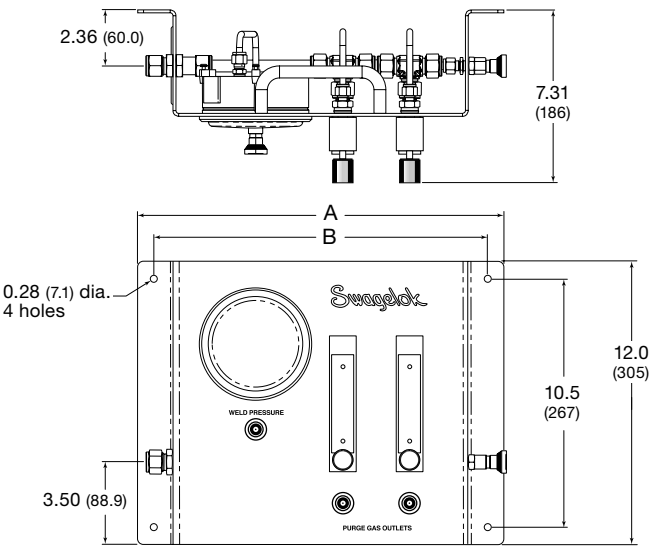
- Maximum inlet pressure:
  - 3600 psig (248 bar) for models with an integrated KCY series regulator
  - 50 psig (3.4 bar) for models *without* an integrated KCY series regulator
- Outlet pressure (with regulator option): 50 psig (3.4 bar)
- Maximum ambient temperature: 140°F (60°C)
- Maximum system media temperature: 176°F (80°C)

## Additional Products

- **QC Series Quick Connects**
  See the Swagelok *Quick Connects* catalog, MS-01-138, for more information.
- **LT Series Vinyl Tubing**
  See the Swagelok *Hose and Flexible Tubing* catalog, MS-01-180, for more information.
- **Internal Purge Pressure Kit**
  See the Swagelok *Orbital Welding System—Quick Reference Guide* catalog, MS-02-143, for more information.

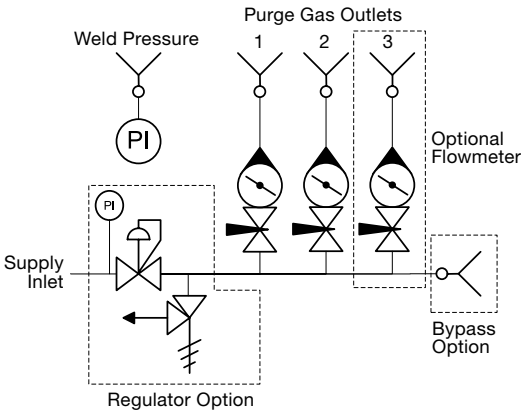
Swagelok®

## Dimensions




Dimensions, in inches (millimeters), are for reference only and are subject to change.

| Dimensions, in. (mm) | | |
|---|---|---|
| **Model** | **A** | **B** |
| 2 flow meters, no regulator | 15.50 (394) | 14.13 (359) |
| 2 flow meters, regulator option | 17.75 (451) | 16.38 (416) |
| 3 flow meters, no regulator | 18.50 (470) | 17.13 (435) |
| 3 flow meters, regulator option | 20.50 (521) | 19.13 (486) |




## Ordering Information

Build a WPP series purge panel ordering number by combining the designators in the sequence shown below.

| 1 | | 2 | | 3 | 4 | 5 | 6 | | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SS | - | WPP | - | **A** | **B** | **C** | P | - | **F** | Q | **A** | **R** | **B** |

**1 Fitting and Tube Material**
SS = 316 SS

**2 Series**
WPP = Welding purge panel

**3 Flow Meter Range, Position 1**
**A** = 2 to 20 std $ft^3/h$
**B** = 5 to 50 std $ft^3/h$
**C** = 10 to 100 std $ft^3/h$
**D** = 20 to 200 std $ft^3/h$
**E** = 50 to 500 std L/h
**F** = 100 to 1000 std L/h
**G** = 250 to 2500 std L/h
**H** = 500 to 5000 std L/h

**4 Flow Meter Range, Position 2**
**A** = 2 to 20 std $ft^3/h$
**B** = 5 to 50 std $ft^3/h$
**C** = 10 to 100 std $ft^3/h$
**D** = 20 to 200 std $ft^3/h$
**E** = 50 to 500 std L/h
**F** = 100 to 1000 std L/h
**G** = 250 to 2500 std L/h
**H** = 500 to 5000 std L/h

**5 Flow Meter Range, Position 3**
**A** = 2 to 20 std $ft^3/h$
**B** = 5 to 50 std $ft^3/h$
**C** = 10 to 100 std $ft^3/h$
**D** = 20 to 200 std $ft^3/h$
**E** = 50 to 500 std L/h
**F** = 100 to 1000 std L/h
**G** = 250 to 2500 std L/h
**H** = 500 to 5000 std L/h
**X** = No flow meter

**6 Flow Meter Model**
P = GP model

**7 Inlet Connection**
**F** = 1/2 in. Swagelok tube fitting
**M** = 12 mm Swagelok tube fitting

**8 Outlet Connections**
Q = 1/4 in. QC series body

**9 Magnehelic Gauge Range**
**A** = 0 to 2 in. $H_2O$
**B** = 0 to 5 in. $H_2O$
**C** = 0 to 10 in. $H_2O$
**D** = 0 to 50 mm $H_2O$
**E** = 0 to 125 mm $H_2O$
**F** = 0 to 250 mm $H_2O$

**10 Regulator Option**
**R** = Two-stage KCY regulator
**X** = No in-line regulator

**11 Bypass Option**
**B** = Bypass with 1/4 in. QC series body outlet
**X** = No bypass

**Safe Product Selection**
**When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.**

**Caution: Do not mix or interchange parts with those of other manufacturers.**

## Warranty Information

Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit swagelok.com or contact your authorized Swagelok representative.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