Specifications

For other materials or modifications, please consult TESCOM.

MEDIA

For inert and corrosive gases.
For high purity calibration gases / gas mixtures.

OPERATING PARAMETERS

Maximum Inlet Pressure
2900 psig / 200 bar

Outlet Pressure Ranges
7.25—21.75, 7.25—58, 14.5—101.5, 14.5—145 psig
0.5-1.5, 0.5-4.0, 1.0-7.0, 1.0-10.0 bar

Leakage Rate Against Atmosphere
2 x 10^{-8} atm cc/sec He

Nominal Flow Capacity
10 m^3/h (according to pressure and used gas)
C_V = 0.06
C_V = 0.15
Cv = 0.24 optional

Temperature Range
Seat PCTFE: -25°C to +60°C [-13°F to 140°F]
Seat TEFLON® PFA 350/PTFE: -25°C to +74°C [-13°F to 165°F]

Optional
Higher outlet pressure up to 500 psig / 35 bar
Relief valve with captured venting
Shut-off and metering valve at outlet
Absolute pressure version

MEDIA CONTACT MATERIALS

Body
316 Stainless Steel

Diaphragm
316 Stainless Steel, Nickel Alloy (Hastelloy®)

Seat
PCTFE, PTFE

Purging Seat
EPDM, FKM

OTHER

Inlet Connection
According to national standards like DIN477-1, CGA V-1 and BS341

Outlet Connection
1/4" NPTF female or compression fitting

Hastelloy® is a registered trademark of Haynes International, Inc.

WEGA-SP with manual connection & O-ring

TESCOM WEGA-SP (single stage) with integrated purge function includes shut-off function and check valve and is specially designed for use with corrosive or toxic gases and gas mixtures. The integrated purging device effectively removes residual moisture, aerial oxygen and remaining process gas.

Applications

- Pressure reduction of corrosive or toxic gas from pressure cylinders by inducting the purge gas. The process gas will be effectively eliminated from the regulator and the cylinder connection.
- Ideal for use in laboratories.

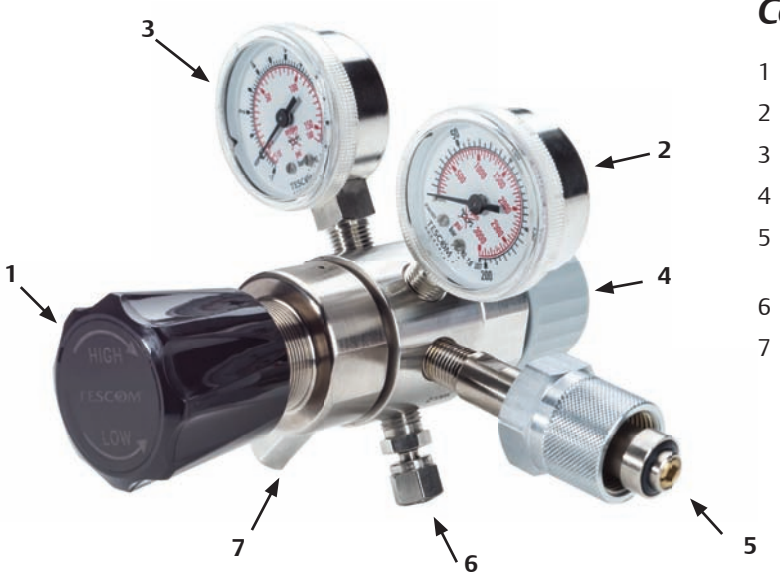
Features and Benefits

- Compact design without externally mounted purging device. Reduces weight, internal volume and installation length.
- Effective purging due to integrated purge valve and check-valve, low purge gas consumption, minimized risk of corrosion.
- Reduces consumption of expensive calibration gases and test gases because residual moisture and external gases are eliminated before starting-up the process.
- Optional tied diaphragm "positive seal" design provides additional shut-off assistance for corrosive gases.
- Valve trim and diaphragm made of Hastelloy® are available for extended life by reducing corrosion.
- Minimized helium leak rate due to reduced number of connections.

WEGA-SP

WEGA-SP with Integrated Purging Function

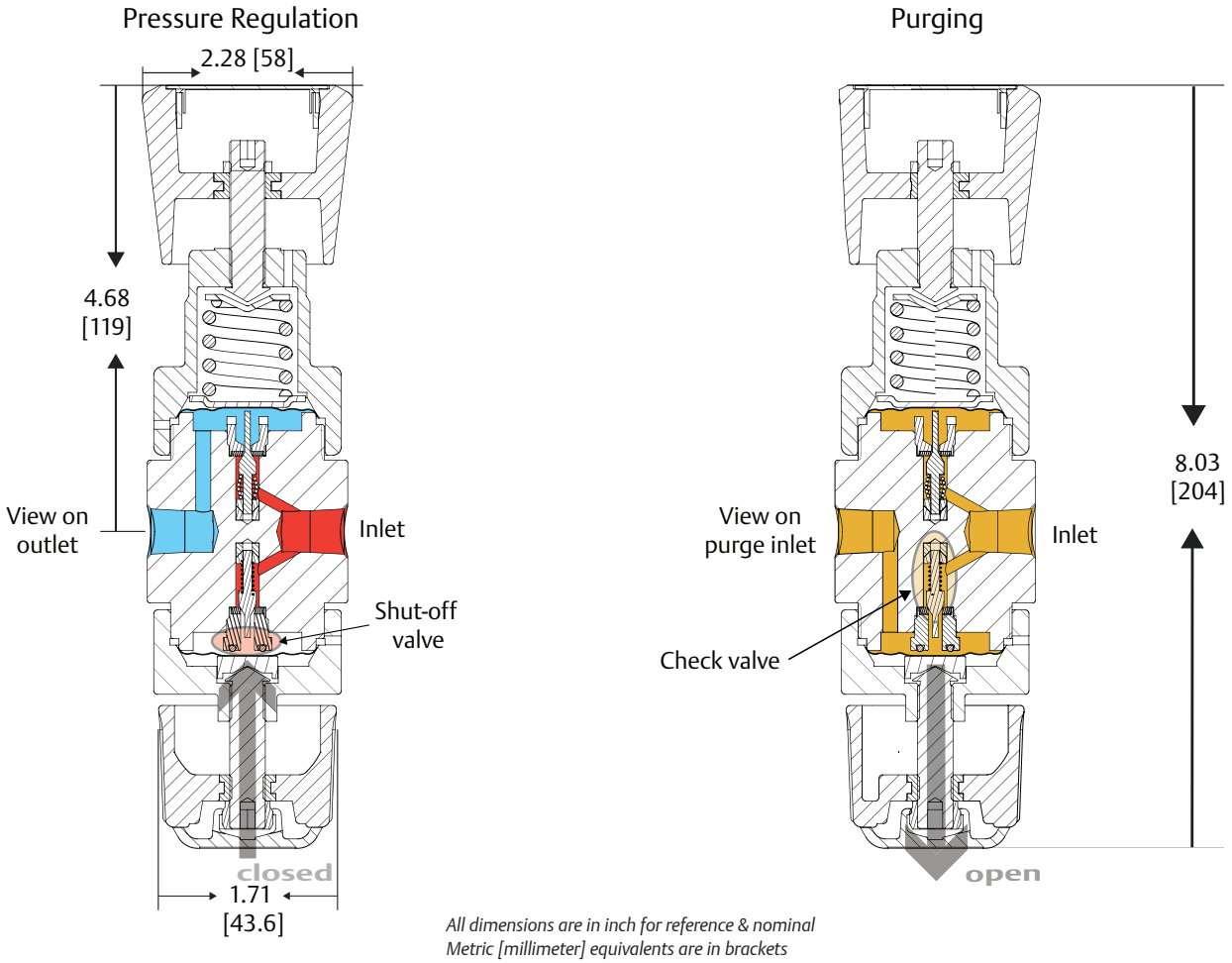
Assembly



Components

1 Pressure reducing regulator
2 Inlet gauge
3 Outlet gauge
4 Purging function with check valve
5 Inlet connection according to national standard
6 Purging inlet connection
7 Relief valve

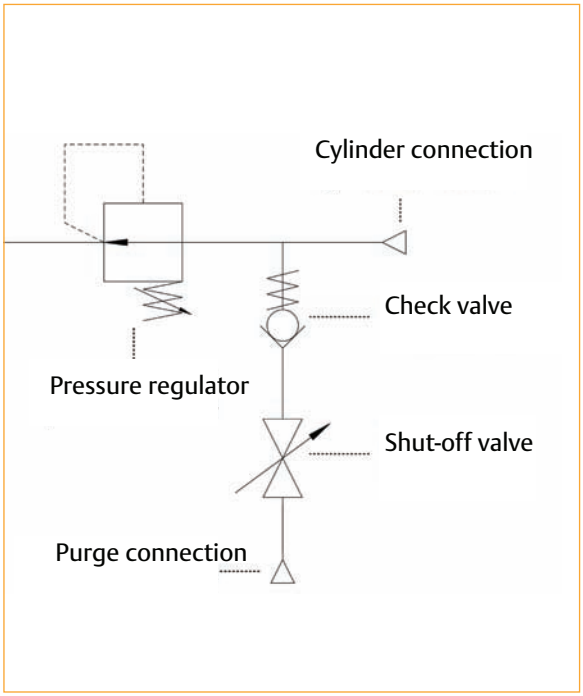
Assembly



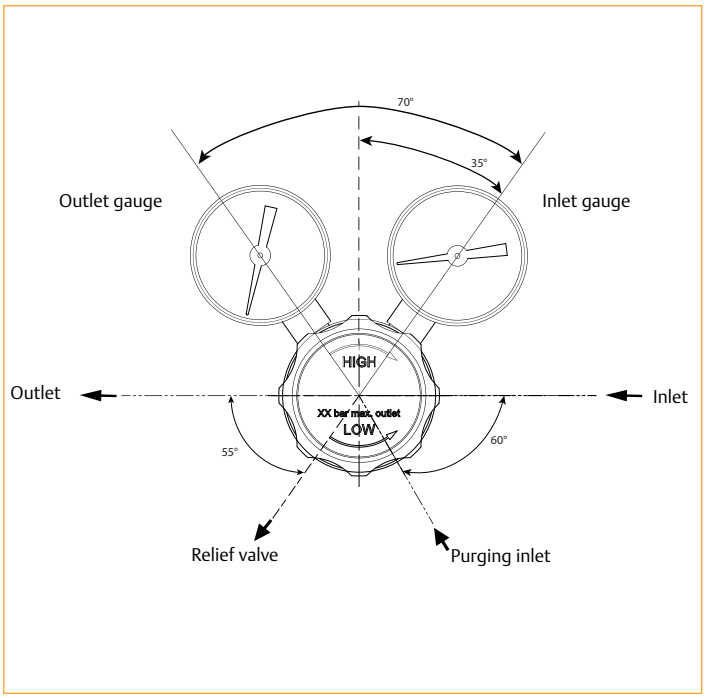
All dimensions are in inch for reference & nominal
Metric [millimeter] equivalents are in brackets

WEGA-SP with Integrated Purging Function

Functional Drawing

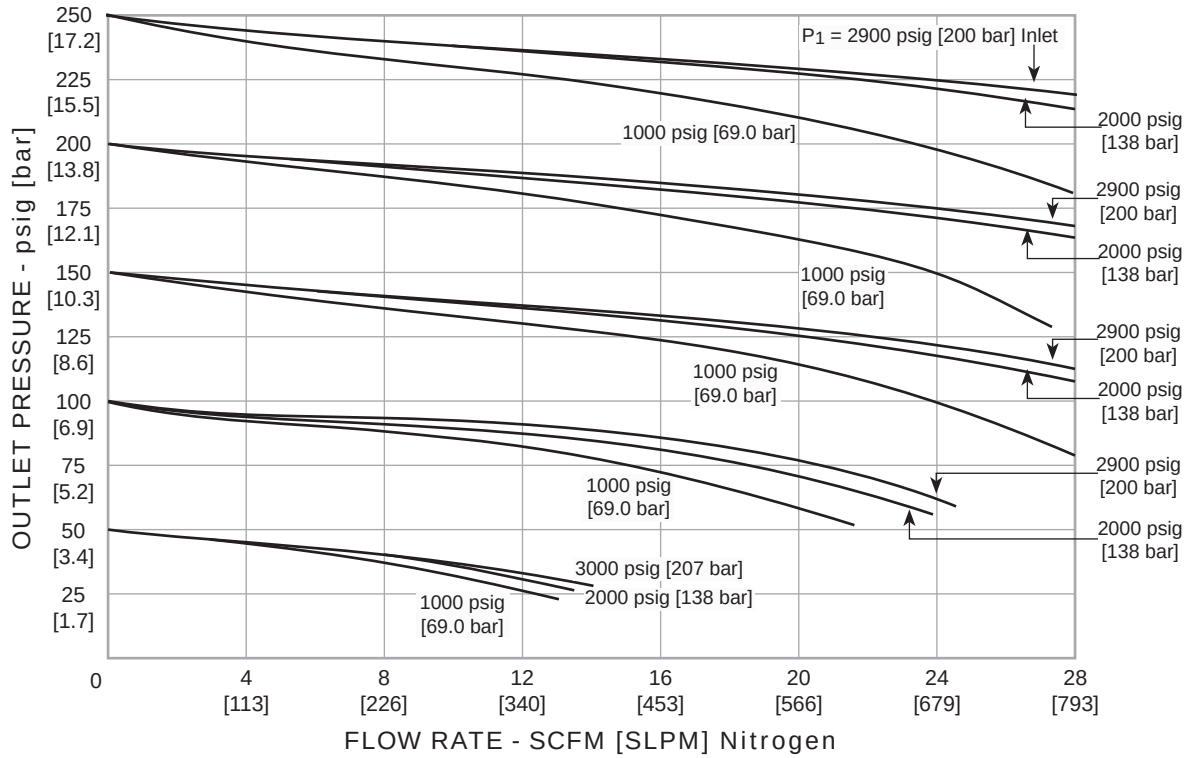


Connection Configuration



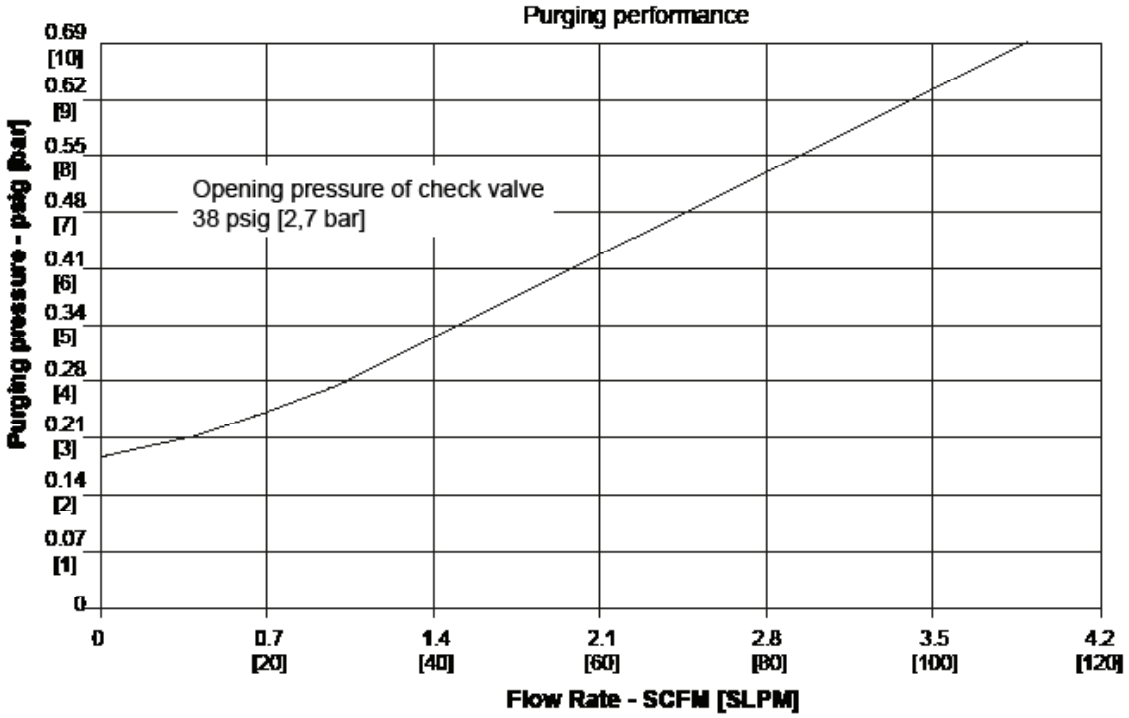
WEGA-SP with integrated Purging Function Flow Charts

For more information on how to read flow curves, please refer to the Flow Curves and Calculations document (debul2007x012) in the TESCOM catalog or on www.tescom.com.



WEGA-SP

WEGA-SP with Integrated Purging Function Flow Charts



WEGA-SP with Integrated Purging Function – Part Number Selector

Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.

Example for selecting a part number:

WSP - D K 20 - 05 - A 1 R

TYPE	CYLINDER CONNECTION STANDARD	INLET PRESSURE-CONNECTION	GAS	OUTLET CONNECTION	VALVE STEM	OUTLET PRESSURE RANGE BAR [PSIG]	RELIEF VALVE
WSP	**B** – BS341 **C** – CGA V-1 **D** – DIN 477-1	**H** – Hand connection with O-Ring-sealing [4] **K** – Hex swivel nut, Stainless Steel, with flat seal	**17** – Test gas [1] **18** – Test gas with Ammonia-, sulfur dioxide- or hydrogen sulfide-content [1] **19** – Sulfur dioxide [2] **20** – Ammonia [2, 3] **21** – Hydrogen sulfide [2] **24** – Chlorine [2] **25** – Nitrogen monoxide [1] **26** – Hydrogen chloride [2, 3]	**00** – 1/4" NPTF female **05** – compression fitting for 6 mm OD tube **08** – compression fitting for 1/4“ OD tube **62** – Diaphragm shut-off valve with 6 mm compression fitting and 6 mm hose connector	**A** – No Positive Seal **B** – Positive Seal (*longer life for corrosive gases)*	**1** – 0.5 - 1.5 [7.25 - 21.75] **2** – 0.5 - 4.0 [7.25 - 58.0] **3** – 1.0 - 7.0 [14.5 - 101.5] **4** – 1.0 - 10.0 [14.5 - 145.0]	**R** – Relief valve and compression fitting for 6 mm OD tube *(mandatory for Gas ID 17 & 18)* **P** – Plug
	N – none (1/4" NPTF)	**N** – none (1/4" NPTF)					

[1] Cv = 0.06 [2] Cv = 0.15 [3] Positive Seal: Hastelloy ® -Stem & diaphragm [4] Only available for DIN standard