

### Specifications

For other materials or modifications, please consult TESCOM.

#### FLUID MEDIA

Non-corrosive gases and gas mixtures up to 6.0 (99.999 Vol %) purities  
Stainless Steel versions for calibration gases with NH<sub>3</sub>, SO<sub>2</sub>, or NO content (ppm range)

#### OPERATING PARAMETERS

##### Maximum Inlet Pressure

2900 psig / 200 bar  
4350 psig / 300 bar (optional)

##### Outlet Pressure Ranges

**Single-stage:** 7.3-58, 14.5-145, 29-290 psig  
0.50-4.0, 1.00-10.0, 2.0-20.0 bar

**Dual-stage:** 1.5-22, 7.3-58, 14.5-145 psig  
0.10-1.5, 0.50-4.0, 1.00-10.0 bar

##### Leakage Rate Against Atmosphere

10<sup>-8</sup> mbar l/s He

##### Nominal Flow

10 m<sup>3</sup>/h (depending on pressure and gas)

##### Inlet Connection

According to DIN 477-1 (2900 psig / 200 bar) or  
DIN 477-5 (4350 psig / 300 bar)  
Other national standards on request

##### Outlet Connection

**Regulator:** G 1/4" female

**Valve:** G 1/8" female

##### Standard Outlet Connection Mounted

6 mm compression fitting including 6 mm hose connector

##### Options at Outlet

Diaphragm metering valve

#### MEDIA CONTACT MATERIALS

##### Body

Stainless Steel 1.4404 / 316L or Nickel-plated Brass

##### Diaphragm

316L Stainless Steel

##### Relief Valve

FKM

#### OTHER

##### Weight

**Wega 1:** 3.30 lbs / 1.5 kg

**Wega 2:** 4.20 lbs / 1.9 kg



TESCOM single-stage WEGA 1 and dual-stage WEGA 2 cylinder pressure regulators are for gas purities up to 6.0 quality. A relief valve is integrated into the body for low internal gas volume. Both models are lightweight with a compact design.

### Applications

- Reduction of high pressure gases in storage cylinders to a low operating pressure
- For calibration gases with NH<sub>3</sub>, SO<sub>2</sub>, or NO content

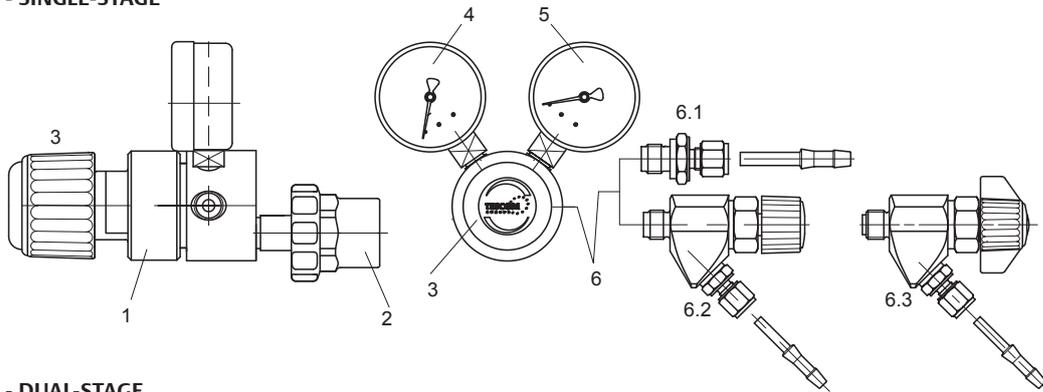
### Features and Benefits

- Maximum inlet pressure of 2900 psig / 200 bar or 4350 psig / 300 bar (new 4350 psig / 300 bar cylinder technique)
- Modular inlet and outlet connectors offers versatility
- Relief valve integrated into the body
- Dual-stage version avoids decaying inlet pressure deviation
- Low internal gas volume
- Compact dual-stage version

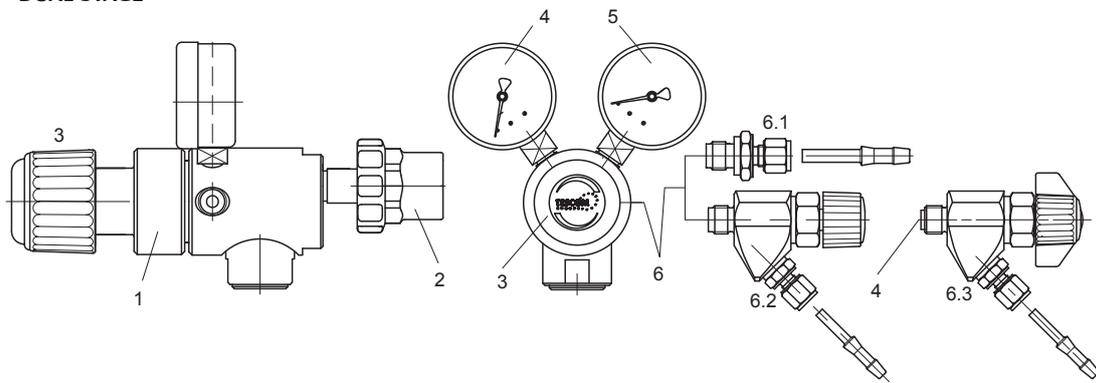
# WEGA 1 & 2

## WEGA 1 and 2 Adjustable Regulator Drawings

### WEGA 1 - SINGLE-STAGE



### WEGA 2 - DUAL-STAGE



1 - BASIC UNIT

2 - INLET CONNECTION

3 - PRESSURE ADJUSTING HANDWHEEL

4 - HIGH PRESSURE GAUGE (P1)

5 - LOW PRESSURE GAUGE (P2)

6 - OUTLET CONNECTION

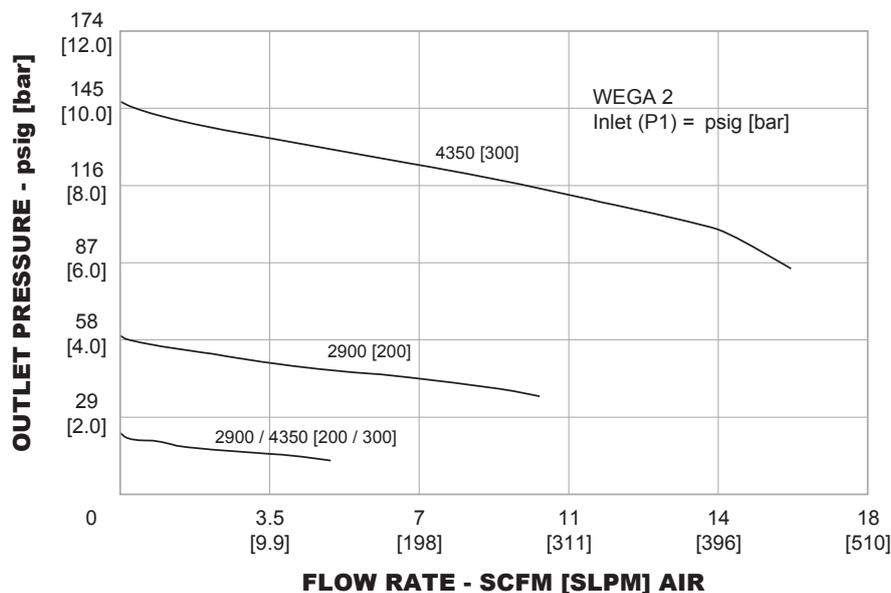
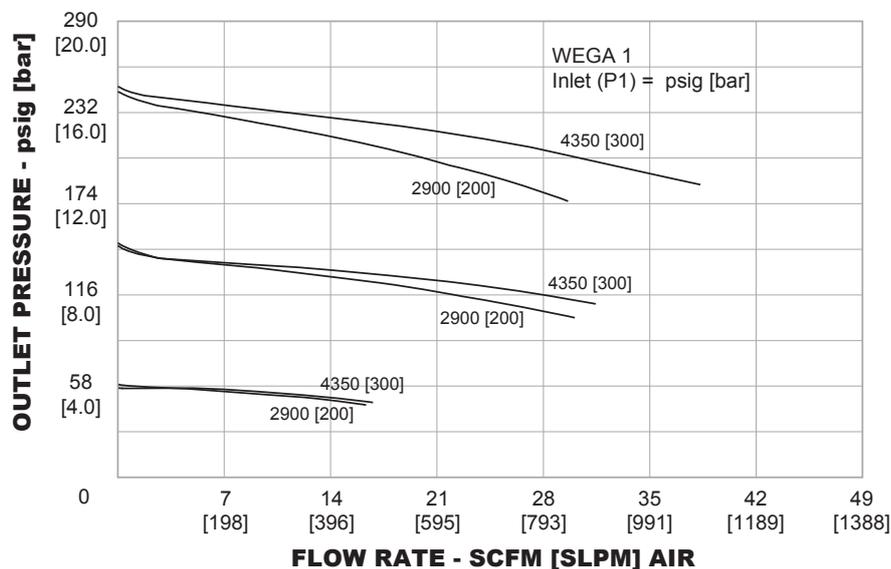
6.1 - COMPRESSION FITTING

6.2 - DIAPHRAGM METERING VALVE

6.3 - DIAPHRAGM SHUT-OFF VALVE

### WEGA 1 and 2 Regulator Flow Charts

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



**Notice**

If you do not want to use the ordering system it is important to specify the following items:

- Gas or gas mixture
- Inlet pressure (P1): 2900 or 4350 psig / 200 or 300 bar
- Outlet pressure (P2): check last column of ordering information
- Flow per minute or hour
- Outlet connection e.g. compression fitting, hose connector, none (= female thread)
- Options such as shutoff or metering valve
- For CO or gas mixtures containing CO, please choose Stainless Steel version

# WEGA 1 & 2

## WEGA 1 and 2 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:

D45170	-	NS	-	44	-	3
BASIC SERIES	INLET CONNECTION DEPENDING ON NATIONAL STANDARDS		OUTLET CONNECTION PROCESS GAS RANGE		OUTLET PRESSURE	
<b>D45170</b> - WEGA 1 single-stage, Nickel-plated Brass	Available inlet connectors / Cylinder valve standards: DIN 477-1- 2900 psig / 200 bar Germany		<b>00</b> – G 1/4" female		<b>1</b> – 1.5-22 psig*** / 0.10-1.5 bar	
<b>D45176</b> - WEGA 2 dual-stage, Nickel-plated Brass	DIN 477-5- 4350 psig / 300 bar Germany		<b>05</b> – 6 mm fitting, with 6 mm hose connector		<b>2</b> – 7.3-58 psig / 0.50-4.0 bar	
<b>D45173</b> - WEGA 1 single-stage, Stainless Steel	NEN 3268 Netherlands		<b>08</b> – 8 mm fitting, with 8 mm hose connector***, *		<b>3</b> – 14.5-145 psig / 1.00-10.0 bar	
<b>D45179</b> - WEGA 2 dual-stage, Stainless Steel	BS 341 U.K. AFNOR / NF E 29-650 France CGA-V1 U.S.A. UNI 11144 Italy		<b>44</b> – With diaphragm metering valve, 6 mm fitting, with 6 mm hose connector**		<b>4</b> – 29-290 psig**** / 2.0-20 bar	
	<div style="border: 1px solid black; padding: 2px; width: fit-content;">For other standards, please consult TESCOM.</div>				<div style="border: 1px solid black; padding: 2px; width: fit-content;">* Only Brass ** Only Stainless Steel *** Only dual-stage **** Only single-stage</div>	

- Please specify gas to identify inlet connector according to national standards.
- For gas mixtures, please consult your gas supplier for the connection number or cylinder valve thread.
- Please reference "Cylinder Valve Connections" in the TESCOM catalog for additional information.
- For CO or gas mixtures containing CO, please select Stainless Steel.

### REPAIR KITS:

PART NUMBER	REGULATOR SERIES
D43441	WEGA 1, Brass
D43442	WEGA 1, Stainless Steel
D43439	WEGA 2, Brass
D43440	WEGA 2, Stainless Steel

**ACCESSORIES:** Reference WEGA Accessories datasheet