# **TESC**ØM

# WEGA 1 and 2 Regulators - Pressure Reducing

### DCATLABO12105XEN2

#### **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  $NH_3$ ,  $SO_2$ , 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>-s</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** Needle or 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 1: 3.75 lbs / 1.7 kg (with Flowmeter) Wega 2: 4.20 lbs / 1.9 kg Wega 2: 4.65 lbs / 2.1 kg (with Flowmeter)



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

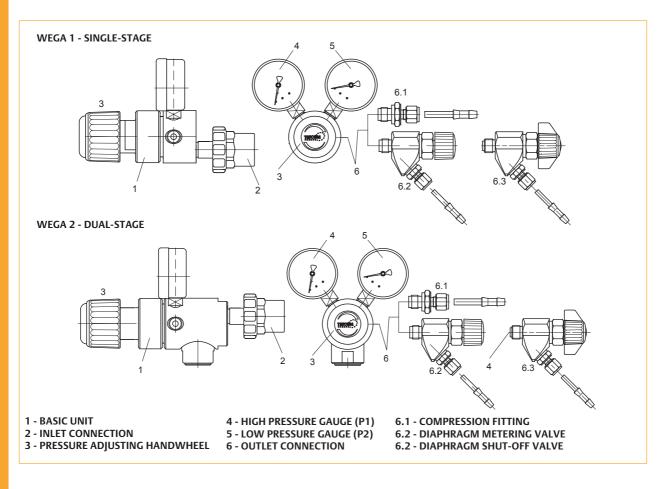
### **Features and Benefits**

- 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

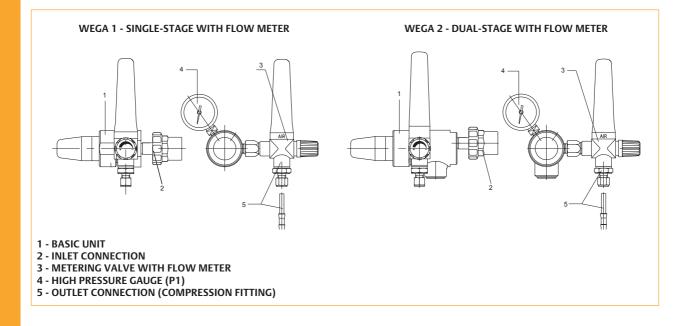


# TESCOM

## WEGA 1 and 2 Adjustable Regulator Drawings



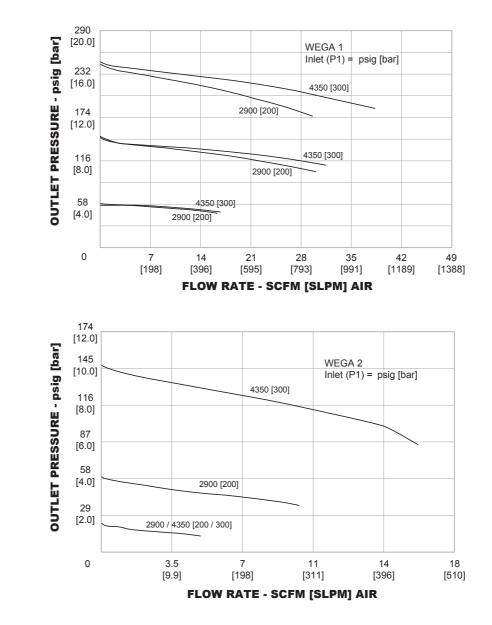
## WEGA 1 and 2 Preset Regulator with Flow Meter Drawings





# TESCØM

## 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 TESCOM catalog or on 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 and flow meter
- For CO or gas mixtures containing CO, please choose Stainless Steel version



# **TESC**ØM

## 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	
<ul> <li>D45170 - WEGA 1 single-stage, Nickel-plated Brass</li> <li>D45176 - WEGA 2 dual-stage, Nickel-plated Brass</li> <li>D45173 - WEGA 1 single-stage, Stainless Steel</li> <li>D45179 - WEGA 2 dual-stage, Stainless Steel</li> </ul>	Available inlet connectors / Cylind DIN 477-1- 2900 psig / 200 bar DIN 477-5- 4350 psig / 300 bar NEN 3268 BS 341 AFNOR / NF E 29-650 CGA-V1 UNI 11144	er valve standards: Germany Netherlands U.K. France U.S.A. Italy	<ul> <li>00 - G 1/4" female</li> <li>05 - 6 mm fitting, with 6 mm hose of 08 - 8 mm fitting, with 8 mm hose connector* **, *</li> <li>35 - Needle metering valve, 6 mm fit with 6 mm hose connector*</li> <li>44 - With diaphragm metering valve fitting, with 6 mm hose connector</li> <li>62 - With diaphragm shut-off valve, 6 mm fitting, with 6 mm hose con</li> </ul>	tting, 2, 6 mm tor**	<b>2</b> – 7.3-58 p. <b>3</b> – 14.5-145	sig*** / 0.10-1.5 bar sig / 0.50-4.0 bar 5 psig / 1.00-10.0 bar sig**** / 2.0-20 bar
	For other standards, please consult TESCOM.			** Only S *** Only o	Only Brass Only Stainless Steel Only dual-stage * Only single-stage	
	- Please specify gas to identify inlet - For gas mixtures, please consult y		g to national standards. :he connection number or cylinder valvo	e thread.		

Please reference "Cylinder Valve Connections" in the TESCOM catalog for additional information.
 For CO or gas mixtures containing CO, please select Stainless Steel.

## WEGA 1 and 2 with Flow Meter Part Number Selector

D45395	- NS		- 05	- 3
BASIC SERIES	INLET CONNECTION DEPENDING ON NATIONAL STANDARDS		OUTLET CONNECTION PROCESS GAS RA	NGE FLOW
<ul> <li>D45395 - WEGA 1 single-stage, Nickel-plated Brass with flow meter</li> <li>D45178 - WEGA 2 dual-stage, Nickel-plated Brass with flow meter</li> </ul>	Available inlet connectors / Cylind DIN 477-1- 2900 psig / 200 bar DIN 477-5- 4350 psig / 300 bar NEN 3268 BS 341 AFNOR / NF E 29-650 CGA-V1 UNI 11144 For other standards, please cons	Germany Germany Netherlands U.K. France U.S.A. Italy	** ***	
- F - F		gas supplier for the co ections" in the TESCC	nnection number or cylinder valve thread. DM catalog for additional information.	

#### **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

