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^{.8} mbar l/s He

Nominal Flow 10 m³/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)



WEGA 1

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 NH₃, SO₂, 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







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TESCØM

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



TESCØM

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	
 D45170 - WEGA 1 single-stage, Nickel-plated Brass D45176 - WEGA 2 dual-stage, Nickel-plated Brass D45173 - WEGA 1 single-stage, Stainless Steel D45179 - WEGA 2 dual-stage, Stainless Steel 	Available inlet connectors / Cylin 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	der valve standards: Germany Netherlands U.K. France U.S.A. Italy	 00 - G 1/4" female 05 - 6 mm fitting, with 6 mm hose connector 08 - 8 mm fitting, with 8 mm hose connector*. 35 - Needle metering valve, 6 mm fitting, with 6 mm hose connector* 44 - With diaphragm metering valve, 6 mm fitting, with 6 mm hose connector** 62 - With diaphragm shut-off valve, 6 mm fitting, with 6 mm hose connector 	 1 - 1.5-22 psig*** / 0.10-1.5 bar 2 - 7.3-58 psig / 0.50-4.0 bar 3 - 14.5-145 psig / 1.00-10.0 bar 4 - 29-290 psig**** / 2.0-20 bar 	
	For other standards, please consult TESCOM.		** Only *** Only **** Only	Stainless Steel dual-stage single-stage	

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.

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 RANGE		FLOW
 D45395 - WEGA 1 single-stage, Nickel-plated Brass with flow meter D45178 - WEGA 2 dual-stage, Nickel-plated Brass with flow meter 	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	er valve standards: Germany Germany Netherlands U.K. France U.S.A. Italy sult TESCOM.	 00 – G 3/8" female 05 – 6 mm fitting, with 6 mm hose 08 – 8 mm fitting, with 8 mm hose 	e connector e connector * Only E ** Only c ** Only c *** Only c	A = 0.06 to 1 SLPM B = 0.5 to 4 SLPM C = 2 to 16 SLPM D = 4 to 32 SLPM**** Brass Stainless Steel Jual-stage ingle-stage
- F	Please specify gas to identify inlet con	nector according to n	ational standards.		

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 choose 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

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WARNING! Do not attempt to select, install, use or maintain this product until you have read and fully understood the TESCOM Safety, Installation and Operation Precautions.

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