## **Specifications**

For other materials or modifications, please consult TESCOM.

## **OPERATING PARAMETERS**

Pressure rating per criteria of ANSI/ASME B31.3

#### **Maximum Inlet Pressure**

Stainless Steel: 10,000 psig / 690 bar

**Brass:** 6000 psig / 415 bar

**Maximum Outlet Pressure** 

5-500, 5-800, 10-1500, 15-2500, 25-4000, 50-6000, 200-10,000 psig 0.3-35, 0.3-55, 0.7-105, 1-175, 1.7-275, 3.4-415, 14-690 bar

### **Design Proof Pressure**

150% maximum rated

Leakage

Bubble-tight

#### **Operating Temperature**

-40°F to 165°F / -40°C to 74°C

Flow Capacity Standard:  $C_V = 0.06$ 

**Optional:**  $C_V = 0.02, 0.12, 0.30$ 

#### MEDIA CONTACT MATERIALS

#### Body

316 Stainless Steel or Brass

#### **Bonnet**

300 Series Stainless Steel

#### 40 Micron Filter

300 Series Stainless Steel or Bronze

Seat

Main Valve: Vespel® Vent Valve: CTFE

Seals

Buna-N

#### **Back-Up Rings**

Teflon®

Trim

300 Series Stainless Steel

### OTHER

### Cleaning

CGA 4.1 and ASTM G93

#### Weight (without gauges)

Stainless Steel: 5.5 lbs / 2.5 kg

Brass: 5.7 lbs / 2.6 kg

Teflon®, Viton-A®, Kalrez®, and Vespel® are registered trademarks of E.l. du Pont de Nemours and Company.



TESCOM 26-1000 Series controls pressures up to 10,000 psig / 690 bar. This pressure reducing regulator offers standard venting providing decreased outlet pressure. The 26-1000 Series has an interchangeable spring and sensor for product versatility. The low torque handknob is easy to adjust.

# **Applications**

- Test equipment
- · Calibration stands
- Production equipment

#### **Features and Benefits**

- Can be easily converted to seven different outlet pressure ranges
- · Available with captured venting
- Numerous inlet and outlet porting options
- Available in Brass or Stainless Steel
- Unbalanced stem provides positive shut-off
- Safety and reliability of piston sensor
- Excellent sensitivity through a wide range of pressure settings
- Vents to zero psig / bar in all pressure ranges

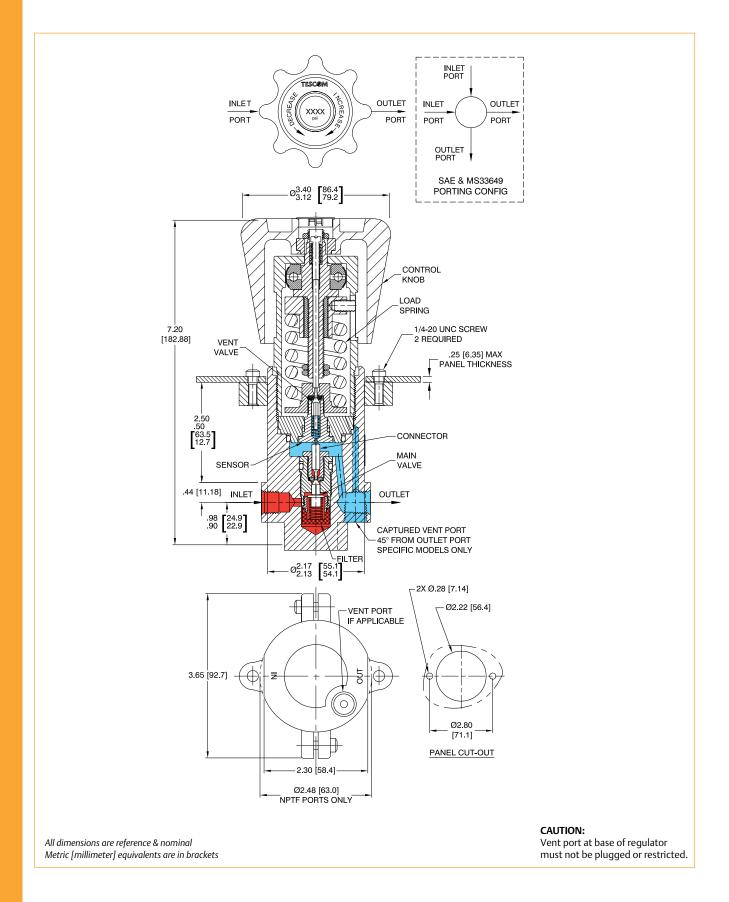






# **TESCOM**

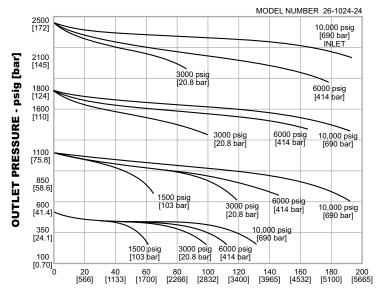
# 26-1000 Series Regulator Drawing



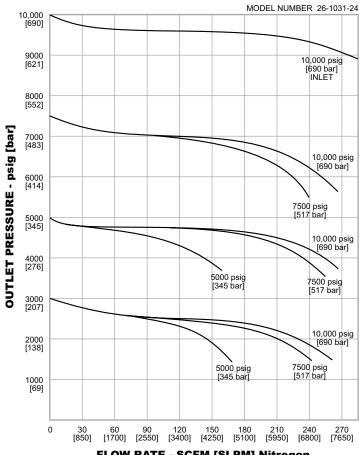


# 26-1000 Series Regulator Flow Charts

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.



FLOW RATE - SCFM [SLPM] Nitrogen



FLOW RATE - SCFM [SLPM] Nitrogen



# **TESCOM**

# 26-1000 Series Regulator 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:

26-10	1	4	- 3	4	[BLANK]
BASIC SERIES	BODY MATERIAL	OUTLET PRESSURE RANGE	INLET AND OUTLET PORT TYPE	INLET AND OUTLET PORT SIZE	OPTIONS
26-10	1 – Brass 6 – 316 Stainless Steel	1 – 200-10,000 psig 14-690 bar (Stainless Steel Body Only) 2 – 50-6000 psig 3.4-415 bar 3 – 25-4000 psig 1.7-275 bar 4 – 15-2500 psig 1-175 bar 5 – 10-1500 psig 0.7-105 bar 6 – 5-800 psig 0.3-55 bar 7 – 5-500 psig 0.3-35 bar	1 – SAE¹ (SAR¹ for Europe) 2 – NPTF 3 – MS33649¹ 4 – High Pressure 6 – Medium Pressure  1. Two inlet and outlet ports standard at 90°	<b>4</b> – 1/4" <b>6</b> – 3/8" (NPTF only)	[BLANK] – None  065 – 316 Stainless Steel Wetted  005 – Viton-A® O-rings  008 – 1/4* NPTF inlet and outlet gauge ports  045 – Non-venting  163 – 1/2* inlet and outlet ports  249 – 15,000 psig / 1034 bar inlet capability (Stainless Steel model only)



# **26-1000 Series Regulator Standard Modifications**

MODIFICATION FEATU	JRE			PART NUMBER SUFFIX
Captured Venting				002
The captured bonnet vent po	ort allows the user to: 1) captur	e fluids, 2) re-i	use vented media, and 3) provide	a secondary sealed barrier.
Standard Unit with Viton-A	N® Soft Goods			
Captured Venting with Vite	on-A® Soft Goods			
1/4" NPTF Inlet and Outlet	Gauge Ports at 60° Angle .			008
15,000 psig / 1034 bar Inle	t and Outlet Pressure Capa	bilities in St	ainless Steel	039
For varied outlet capabilitie	rs, consult factory.			
Wrench Adjustment with I	ocking Device			098
For applications subject to	vibration or accidental chang	es in pressure	settings.	
1/2" Inlet and Outlet Ports				163
Non-Venting with Viton-A	O-Rings			280
Air Ratio Device, Non-Vent	ing Only			045A
With pressure ranges of:				
Model Number	Max. P2 / psig	Ratio*	Notes	
26-10X1-XX-045A	10,000 / 690 bar	125-1	Stainless Steel Only	
26-10X2-XX-045A	6000 / 414 bar	75-1	Brass or Stainless Steel	
26-10X4-XX-045A	2500 / 172 bar	32-1	Brass or Stainless Steel	TELESIA TELESIA
26-10X5-XX-045A	1500 / 103 bar	19-1	Brass or Stainless Steel	26-1000 with
* Ratio is for reference only	,			Air Actuator
Seat Material: Teflon®, CTF	E, PEEK®, 17-4 PH Stainless S	teel		consult TESCOM
O-Ring Material: Teflon®, V	iton-A®, Ethylene Propylene	, Urethane, K	Calrez®	consult TESCOM
Vent Options: Captured Box	nnet, Non-Venting			consult TESCOM
Loading Options:				
Air Ratio**, Dome-Load (	1:1), Bias: captured bonnet	(negative or	positive bias), Wrench Adjust.	consult TESCOM
* * The air ratio model can	provide up to 15,000 psig / 10	034 bar outle	t pressure. For specific ratios, co	onsult factory.
<b>Pressures:</b> 20,000 psig / 137	79 bar inlet and outlet			consult TESCOM
<b>Flow Capacity:</b> $C_V = 0.12$ , $C_V = 0.12$	$_{V}$ = 0.02 (not available with n	netal seat)		consult TESCOM
Cartridge Mounted				consult TESCOM
Electronic Controls				consult TESCOM
Available to automate you	system. Can be used with air	ratio or dom	e-loaded models.	

# 26-1000 Series Regulator Accessories (optional at extra cost)

ITEM		PART NUMBER
Gauges Co	onsult GAUGES section of catalog	
Standard I	Repair Kit	P/N 38-1000-26
Standard S	Soft Goods Kits:	
Model:	26-10X1	P/N 389-1016
	26-10X2 and 26-10X3	P/N 389-1005
	26-10X4	P/N 389-1017
	26-10X5, 26-10X6, and 26-10X7	P/N 389-1002
Consult	Tescom about kits for modifications.	
Multiple R	Range Kit (see back page)	
<b>Main Valve Service Tool</b>		
System Au	utomation: To automate your system, an ER3000, or ER1200 Electropneun	natic PID Controller can be used with this regulator.
Consult	Tescom for additional information and a specific part number.	



## 26-1000 Multiple Range Kits

TESCOM's Multiple Range Kits permit the 26-1000 Series to be modified to any one of several different outlet pressure ranges. Modular design of these regulators permit the outlet pressure ranges to be changed while retaining the desirable characteristics of minimum lock-up, maximum sensitivity, precision and accuracy.

This can be done by interchanging a combination of sensors and load springs and can be accomplished while the regulator remains in line and connected to the system.

With the use of the Multiple Range Kits, the 26-1000 Series regulator has the ability to accomplish what would ordinarily require up to seven different regulators.

To change the pressure range, simply remove the control knob which is retained by a locknut, unscrew the bonnet  $(1\ ^3/^4$ " across the flats for the 26-1000) and remove the spring and sensor. Select the spring and sensor combination which will produce the pressure range required. Reassemble the regulator and resume regulator operation.

- · Economy and convenience of a single regulator
- Modular components
- · Minimum lock-up with maximum sensitivity
- Convert without removing from panel
- Color coded springs
- · No special tools involved

#### 26-1000 Series Kit



Desired Outlet	26-1000 SERIES				
Pressure Range	Sensor Assy. No.	Sensor P/N	Spring Color	Spring P/N	
200-10,000 psig / 14-690 bar	1	1006-XX	Silver	1051	
50-6000 psig / 3.4-414 bar	2	1007-XX	Silver	1051	
25-4000 psig / 1.7-276 bar	2	1007-XX	Gold	1050	
15-2500 psig / 1.0-172 bar	3	1008-XX	Silver	1051	
10-1500 psig / 0.7-103 bar	4	1009-XX	Silver	1051	
0-800 psig / 0-54 bar	4	1009-XX	Gold	1050	
0-500 psig / 0-35 bar	4	1009-XX	Olive	1049	

Since the 26-1000 regulator is provided with one spring and one sensor when shipped, the Multiple Range Kit will contain all other springs and sensors required to accomplish any of the above listed pressures ranges.

## **Part Number Selector for Multiple Range Kits**

Example for selecting a part number:

### **26-1000 SERIES**

38-100	χ .	- XXX	X	X
BASIC SERIES	SPRING COMBINATION	SENSOR ASSEMBLY NUMBERS	METALLIC MATERIAL	O-RING MATERIAL
38-100	1 – 1049-1050 2 – 1049-1051 3 – 1050-1051	1 2 3 4	2 – 300 Series Stainless Steel 6 – 316 Stainless Steel	<b>0 –</b> Buna-N <b>2 –</b> Viton-A <sup>®</sup> <b>5 –</b> Ethylene Propylene



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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