## **Specifications**

For other materials or modifications, please consult TESCOM.

## **OPERATING PARAMETERS**

Pressure rating per criteria of ANSI/ASME B31.3

### **Maximum Inlet Pressure**

600 or 3500 psig / 41.4 or 241 bar

## **Outlet Pressure Ranges**

30, 60, or 100 psig / 2.1, 4.1, or 6.9 bar

## **Design Proof Pressure**

150% of maximum rated

## **Inboard Leak Rate**

1 x 10<sup>-9</sup> atm cc/sec He

## **Operating Temperature**

PCTFE Seat: -40°F to 140°F / -40°C to 60°C **Vespel® Seat:** -40°F to 350°F / -40°C to 177°C

### Flow Capacity

 $C_V = 0.06 (3500 \text{ psig} / 241 \text{ bar model})$  $C_V = 0.15 (600 \text{ psig} / 41.4 \text{ bar model})$ 

## MEDIA CONTACT MATERIALS

316L VAR Stainless Steel Electropolish

### Diaphragm

316L Stainless Steel

PCTFE (Polyimide (Vespel®) Optional for 3500 psiq / 241 bar model)

## Valve Stem

316 Stainless Steel

## Rear Seal

316 Stainless Steel

## **OTHER**

## **Internal Surface Finish**

10 R<sub>a</sub> microinch / 0.25 micrometer

## Connections

Welded female or male VCR®

Tube stubs

High Purity Internal Connections (H.P.I.C.)

(Internal style of VCR®, compatible with male swivel VCR®)

DI water electronic grade cleaned and ES 500 Particle Certified for internal electropolish models

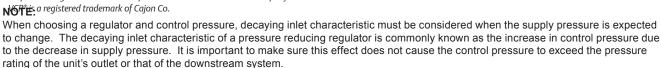
## **Internal Volume**

2.9 cc

## Weight (without gauges)

2.0 lbs / 0.9 kg

Vespel® is a registered trademark of E.I. du Pont de Nemours and Company.



For more information on decaying inlet, please refer to the Technical Information section of the product catalog and/or contact the TESCOM customer support further assistance.



TESCOM 74-2400 Series ultra high purity, tied diaphragm pressure reducing regulator provides low internal volume and an internally springless and threadless design. The 74-2400 Series offers a 10 R<sub>a</sub> surface finish and 316 Stainless Steel VAR. Inlet pressures are 600 or 3500 psiq / 41.3 or 241 bar with outlet pressures up to 100 psig / 6.9 bar.

# Applications

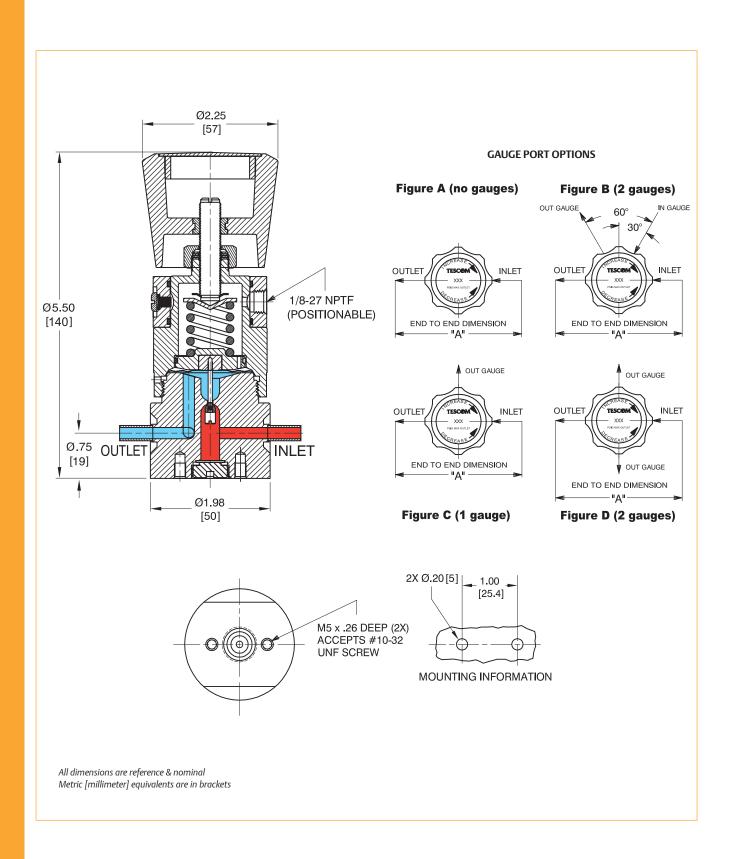
- 1/4" point-of-use
- Gas cabinets
- Semiconductor manufacturing
- Valve manifold boxes
- Research labs

## **Features and Benefits**

- Manufactured and tested using Total Quality tools including Statistical Process Control
- No internal springs and a low internal volume minimizes particle entrapment
- Metal-to-metal seal at diaphragm or body interface
- 10 R<sub>a</sub> microinch / 0.25 micrometer finish is available

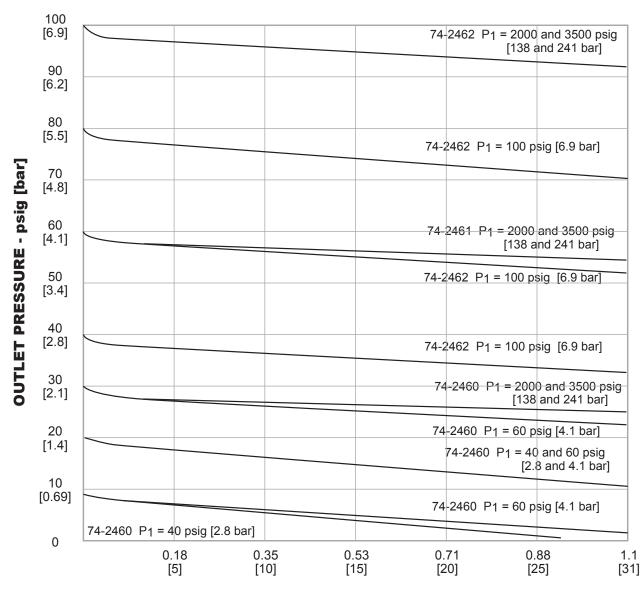
# 74-2400 SERIES

# 74-2400 Series Regulator Drawing



# 74-2400 Series Regulator Flow Chart

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] - AIR

# **74-2400 SERIES**

# 74-2400 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:

74-24	6	2	K	A4		1	0	
BASIC SERIES	BODY MATERIAL / FINISH	OUTLET PRESSURE RANGES	SEAT MATERIAL	INLET AND OUTLET 'A' PORT SIZE AND TYPE	' ± <b>0.06</b> "	MAXIMUM INLET PRESSURE	GAUGE PORT OPTIONS	NUMBER OF GAUGE PORTS (FIGURE)
74-24	6 – 316L VAR Stainless Steel Electropolish: 10 R <sub>a1</sub>	0 – 30 psig 2.1 bar 1 – 60 psig 4.1 bar 2 – 100 psig 6.9 bar	K – PCTFE (standard) V – Polyimide (Vespel®) (3500 psig / 241 bar model only)	RL – 1/2" Female Swivel RM – 1/4" Male Swivel RT – 1/4" Female Swivel RU – IN Port: 1/4" Male; OUT Port: 1/4" Female RV – IN Port: 1/4" Female;	3.70" 3.70"	<b>1</b> – 3500 psig 241 bar <b>2</b> – 600 psig 41.4 bar	0 - None 1 - 1/4" H.P.I.C. 2 - 1/4" H.P.I.C. 3 - 1/4" H.P.I.C. 4 - 1/4" Male Swivel 5 - 1/4" Male Swivel 6 - 1/4" Male Swivel 7 - 1/4" Female Swivel 8 - 1/4" Female Swivel 9 - 1/4" Fixed Male T - 1/4" Fixed Male U - 1/4" Fixed Male	0 (Figure A) 1 (Figure C) 2 (Figure B) 2 (Figure D) 1 (Figure C) 2 (Figure B) 2 (Figure B) 1 (Figure C) 2 (Figure B) 2 (Figure B) 1 (Figure B) 1 (Figure C) 2 (Figure B) 1 (Figure C) 2 (Figure B)