

NA4 Series

Manifolds/Changeover Regulators

DNA042026X012

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure

3000 psig / 207 bar

Outlet Pressure Ranges

0-30 psig / 0-2.1 bar

0-60 psig / 0-4.1 bar

0-100 psig / 0-6.9 bar

0-150 psig / 0-10.3 bar

0-200 psig / 0-13.8 bar

0-300 psig / 0-20.7 bar

0-500 psig / 0-34.5 bar

0-750 psig / 0-51.7 bar

0-1000 psig / 0-68.9 bar

0-1500 psig / 0-103 bar

Design Proof Pressure

150% of rated pressure

Leakage

Internal: Bubble-tight

External: Bubble-tight

Operating Temperature

-40°F to 165°F / -40°C to 74°C

Flow Capacity

$C_v = 0.06$

MEDIA CONTACT MATERIALS

Seat

Teflon® (Regulators), CTFE (Valves)

Friction Sleeve (Inner)

Teflon®

Friction Sleeve (Outer)

316 Stainless Steel

Body

Brass, 316 Stainless Steel

Diaphragm (Outlet Option 0-5)

316 Stainless Steel

O-Rings (Outlet Option 6-9)

Buna-N

Remaining Parts

Brass, 316 Stainless Steel

OTHER

Panel

Brushed 304 Stainless Steel

Cleaning

CGA 4.1 and ASTM G93

Weight (approximate)

10 lbs / 4.5 kg

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



TESCOM NA4 Series Changeover System is designed to ensure a continuous supply of carrier and calibration gases with no interruption due to supply depletion or change out. Complete systems can include CGA connections, hoses, check valves, purge valves, pressure switches, alarms, etc.

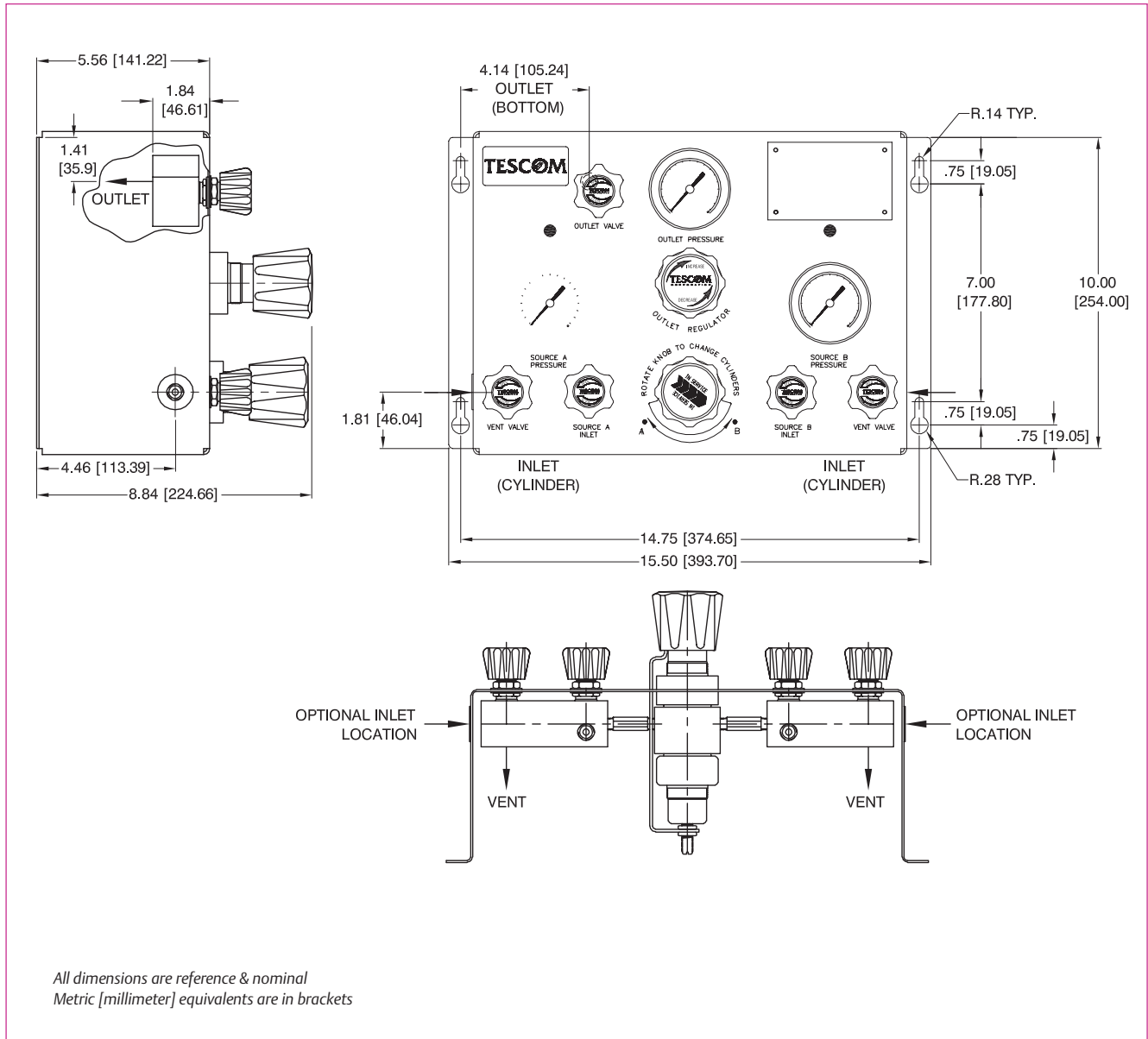
Applications

- Petrochemical analyzer sampling systems
- Gas delivery systems
- Laboratories
- Welding gases

Features and Benefits

- Supports up to eight cylinders per side - 16 total
- Brass or Stainless Steel regulators and valves
- Flexibility in shut-off valve type and location for increased customizing
- Available with either a low pressure or high pressure line regulator
- Optional remote mount annunciator

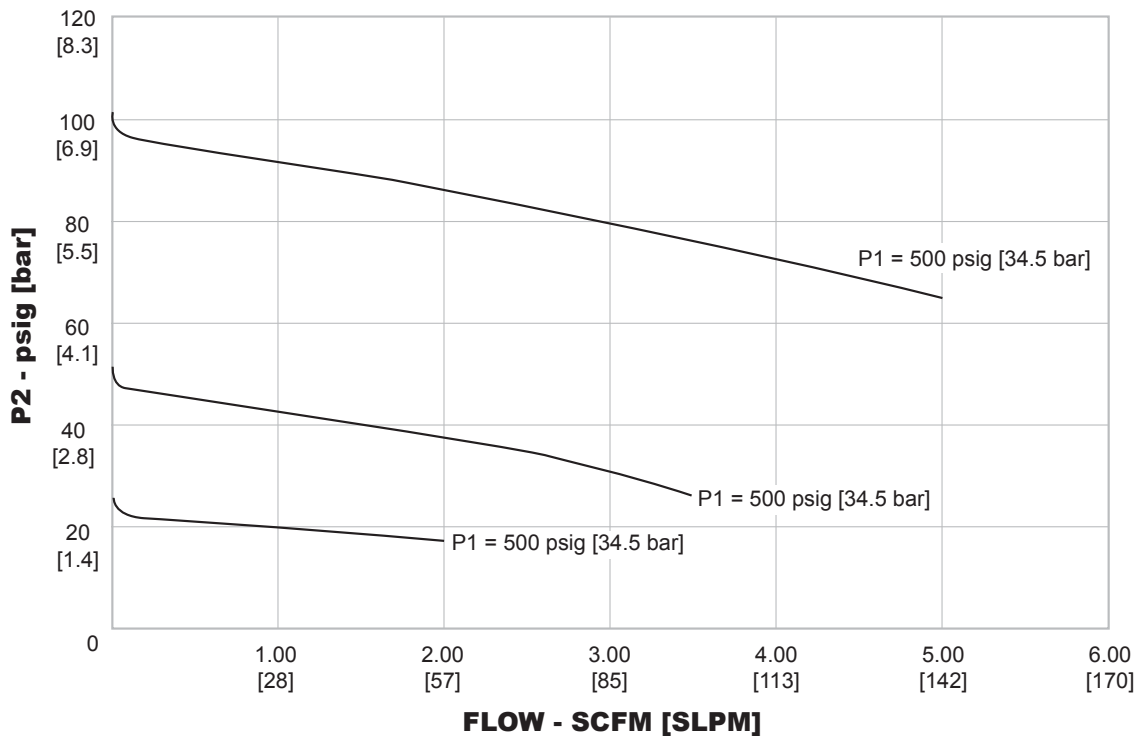
NA4 Series Changeover System Drawing



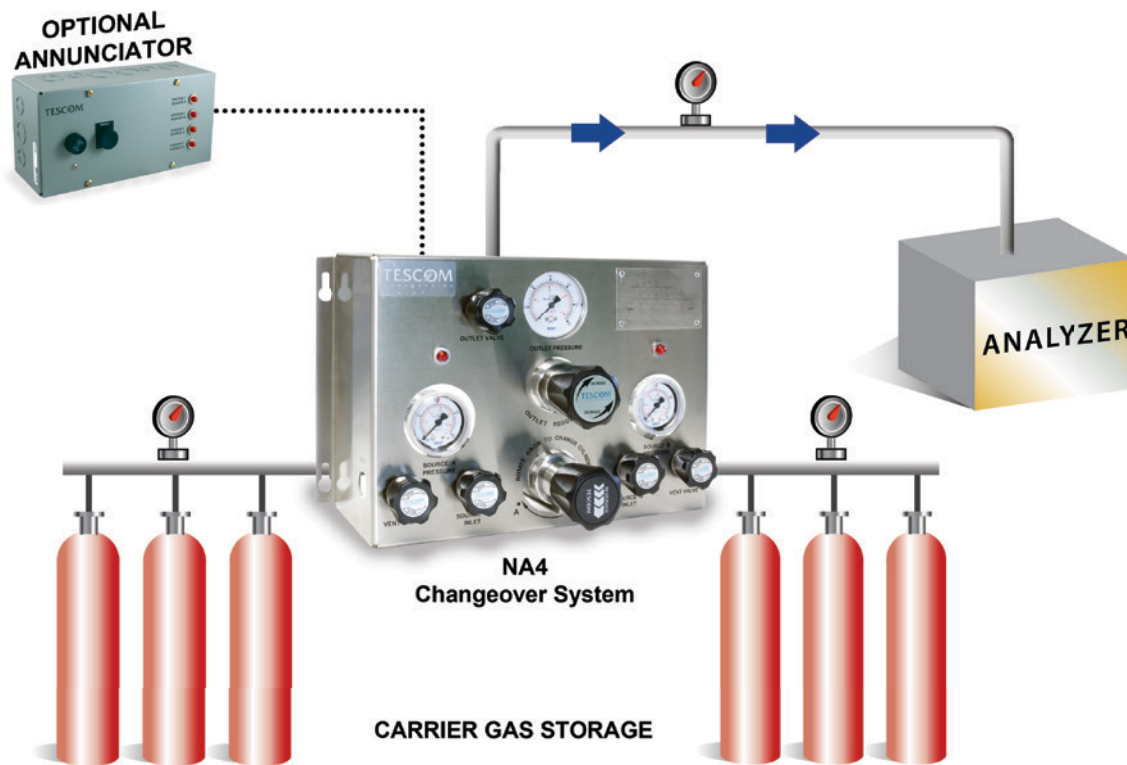
All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets

NA4 Series Changeover System 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.



NA4 Series Typical Installations



NA4 Series Changeover System 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:

| NA4 | 1 | 6 | 2 | 1 | 1 | 0 | 0 | 5 | 4 | 6 | 4 |
|--------------|---------------------------------|--------------------------------------|-----------------------|--------------------------|---------------------|--------------------------------|--|--|---|-----------------|---|
| BASIC SERIES | INLET & OUTLET PORT SIZE & TYPE | BODY MATERIAL | OUTLET PRESSURE RANGE | MAXIMUM INLET PRESSURE | OUTLET RELIEF VALVE | REGULATOR TYPE | PRESSURE SWITCH OPTIONS | ANNUNCIATOR OPTIONS | CHECK/SHUT-OFF VALVE OPTIONS | CONNECTION TYPE | NUMBER OF BOTTLES |
| NA4 | 1 - 1/4" NPTF | 1 - Brass 6 - 316 Stainless Steel | | 1 - 3000 psig 206 bar | 0 - No 1 - Yes | 0 - Non-Venting 3 - Venting | 4 - None 0 - Gauge with integral switch on inlets; lights on panel 1 - Gauge with integral switch on inlets; NO lights or light holes on panel | 0 - None 5 - Four channel remote mount annunciator with enclosure | 0 - None 1 - Standard check valves (at inlets of panel) 2 - Check valves integrated with CGA or BS nipple on each hose 3 - Shut-off valve on each hose 4 - Shut-off valve and integrated check on each hose 5 - Standard check valves (at inlets of panel) and shut-off valve on each hose | | 0 2 4 6 8 10 12 14 16 |

| NO. | OUTLET PRESSURE | CHANGEOVER DELIVERY | PRESSURE SWITCH SETTING | OUTLET GAUGE | RELIEF VALVE CRACK PRESSURE |
|-----|-----------------|---------------------|-------------------------|--------------|-----------------------------|
| C | 0-30 | 150 | 200 | 60 | 45 |
| 0 | 0-30 | 270 | 300 | 60 | 45 |
| 1 | 0-50 | 270 | 300 | 160 | 90 |
| 2 | 0-100 | 270 | 300 | 200 | 150 |
| 3 | 0-150 | 270 | 300 | 300 | 225 |
| B | 0-200 | 270 | 300 | 300 | 225 |
| 4 | 0-200 | 450 | 500 | 600 | 300 |
| 5 | 0-300 | 450 | 500 | 600 | 450 |
| 6 | 0-500 | 700 | 770 | 1000 | 750 |
| 7 | 0-750 | 900 | 990 | 1500 | 1125 |
| 8 | 0-1000 | 1200 | 1320 | 2000 | 1500 |
| 9 | 0-1500 | 2000 | 2200 | 2000 | 2000 |

| NO. | CONNECTION TYPE | PRESSURE SWITCH AND RELIEF VALVE O-RING | HOSE CORE MATERIAL | HOSE JACKET MATERIAL |
|-----|---------------------------|---|--------------------|-----------------------|
| 0 | No CGA Fittings, No Hoses | N/A | N/A | N/A |
| 1 | 1/4" Female End | Buna | Teflon® | Stainless Steel Braid |
| 2 | 1/4" Female End | Buna | Nylon | Polyurethane |
| 3 | CGA 580 (Helium) | Buna | Nylon | Polyurethane |
| 4 | CGA 580 (Argon, Nitrogen) | Buna | Teflon® | Stainless Steel Braid |
| 5 | CGA 350 (Hydrogen) | Buna | Nylon | Polyurethane |
| 6 | CGA 320 (Carbon Dioxide) | Buna | Teflon® | Stainless Steel Braid |
| 7 | BS3 (Helium) | Buna | Nylon | Polyurethane |
| 8 | BS3 (Argon, Nitrogen) | Buna | Teflon® | Stainless Steel Braid |
| 9 | BS4 (Hydrogen) | Buna | Nylon | Polyurethane |
| A | BS8 (Carbon Dioxide) | Buna | Teflon® | Stainless Steel Braid |
| E | 1/4" Female End | Buna | Stainless Steel | Stainless Steel Braid |



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*.