



Pneumatic Division
 Richland, Michigan 49083

Installation & Service Instructions:
V682P

Moduflex Complete Modules

ISSUED: July, 2003

Supersedes: None

Doc. #V-682P, ECN030648, Rev. 1

! WARNING

To avoid unpredictable system behavior that can cause personal injury and property damage:

- Disconnect electrical supply (when necessary) before installation, servicing, or conversion.
- Disconnect air supply and depressurize all air lines connected to this product before installation, servicing, or conversion.
- Operate within the manufacturer's specified pressure, temperature, and other conditions listed in these instructions.
- Medium must be moisture-free if ambient temperature is below freezing.
- Service according to procedures listed in these instructions.
- Installation, service, and conversion of these products must be performed by knowledgeable personnel who understand how pneumatic products are to be applied.
- After installation, servicing, or conversion, air and electrical supplies (when necessary) should be connected and the product tested for proper function and leakage. If audible leakage is present, or the product does not operate properly, do not put into use.
- Warnings and specifications on the product should not be covered by paint, etc. If masking is not possible, contact your local representative for replacement labels.

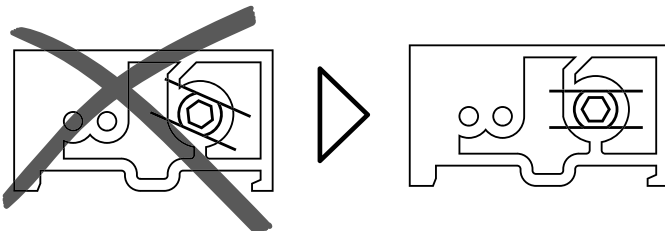
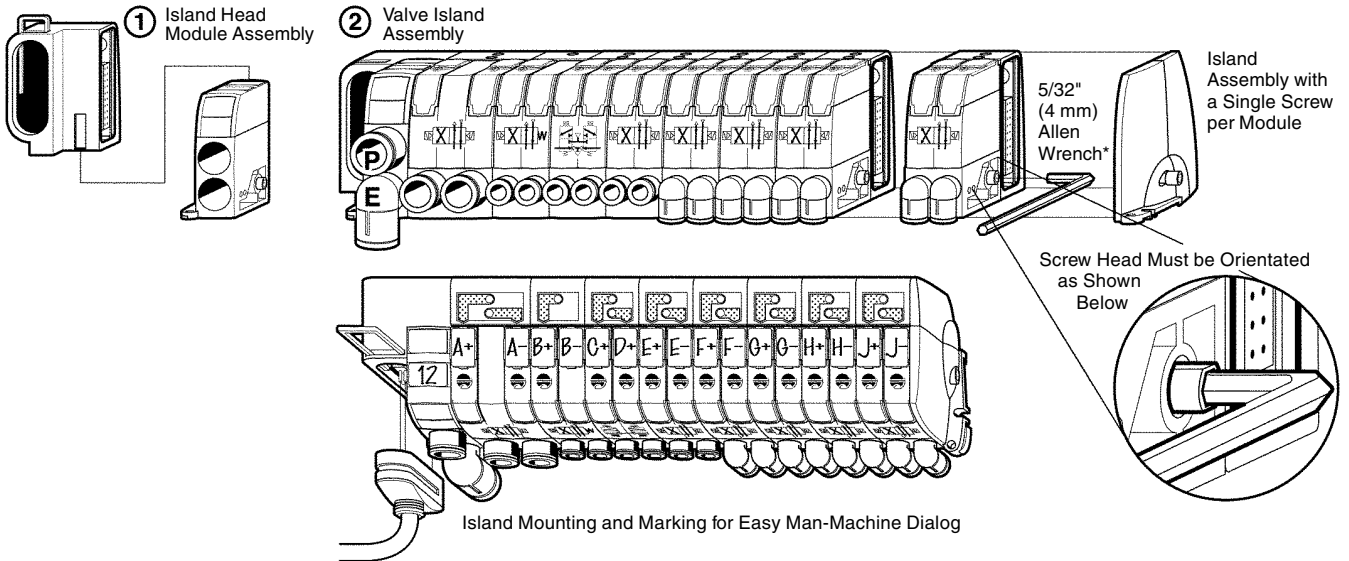
! WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application, including consequences of any failure and review the information concerning the product or systems in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

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See Catalog or www.parker.com for additional information, or call 1-800-C-PARKER in the USA.

Pneumatic Specifications

Fluid	Air, inert gas, filtered 40 μ ①, dry② or lubricated③
Operating Pressures	Vacuum to 120 PSI
Piloting Pressure	43 to 120 PSI for operating pressures below, use external pilot supply available on all head modules⑤
Pilot Supply	Internal with S Series , mixed internal / external with T and V Series
Exhaust Collection	All exhausts are collectable, including solenoid pilot exhaust
Life Cycle	100 million operations④ (with dry air, 3 Hz, 20°C, 6 bar)
Operating Temperatures	5°F to 140°F (32°F to 130°F for field bus systems)
Stocking Temperatures	-40°F to 155°F
Vibration Resistance	According to IEC 68 - 2 - 6 2G 2 to 150 Hz
Impact Resistance	According to IEC 68 - 2 - 27 15G 11 ms

① Class 5 according to ISO 8573-1

② Class 4 according to ISO 8573-1

③ With main air supply lubricated, must use external pilot supply with non-lubricated air

④ 4/2 valve

⑤ Double 3/2 minimum 50 PSI

Electrical Specifications

Solenoid Pilot Specification

In order to simplify selection, mounting and maintenance, only one solenoid pilot is required for all Moduflex.

Rated Coil Voltage	24V DC
Allowable Voltage Fluctuation	-15% to +10 % of nominal voltage
Electrical Connection	Polarity insensitive: PNP and NPN compatible
Coil insulation Type	Class B
Power Consumption	1W (42 mA)
Manual Override	Locking or non-locking, isolated if required
Response Time of the Complete Valve	9.6 ms \pm 1.2 on 4/2 double solenoid valve size 1 According to ISO 12238 14.8 ms \pm 2 on 4/2 double solenoid valve size 2
Type of Use	Continuous-duty solenoid
Dust and Water Protection	According to EN 60 529 S and T Series: IP67 V Series: IP65