



Product Line Guide for Factory Automation

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www.norgren.com

1.800.514.0129
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A and EA Series
Aluminum NFPA
1-1/2" - 12" Bores
Single and Double Acting



J and EJ Series
Steel NFPA
1-1/2" - 12" Bores
Single and Double Acting



P-Series
Aluminum NFPA
1-1/2" - 4" Bores
Double Acting,
Adaptive cushioning



SS Series
Stainless Steel NFPA
1-1/8" - 8" Bores
Double Acting



N Series
Non-Rotating NFPA
1-1/8" - 4" Bores
Double Acting



LS Series Thrusters
Linear Thruster with NFPA
cylinder
1-1/2" - 2" Bores
Composite and Roller Bearings



TA Series Tiny Tim
Small Bore NFPA
3/4", 1", 1-1/8" Bores
Single and Double Acting



T Series Tiny Tim
Small Bore Non-NFPA
3/4" & 1-1/8" Bores
Single and Double Acting



ISOLine™
ISO 15552
32mm - 320mm Bores
Double Acting
Exposed Tie Rods or Profile Tube



Lintra® Lite
A44000 Lintra® Lite
Rodless Cylinder
25mm - 40mm bores
Compact, lightweight design



**C/146000
Lintra® Plus**
Rodless Cylinder
16mm - 80mm Bores
Internal, External, Roller Carriage



**PRA/882000,
PRA/862000**
IVAC Cleanline PRA/882000
IVAC Industrial PRA/862000
32mm-100mm bores
Double Acting, cylinder/valve



F-Series Plus
Round, Compact cylinder
9/16" - 3" Bores
Single and Double Acting



FPT Series
F-Plus Twin Rod, Non-Rotating
3/4" - 2" Bores
Double Acting



**F-Plus Multi-Power/
Multi-Position**
Compact Round Body cylinder
Multiply force output
Multiple positions in limited space



**F-Plus All Stainless
Steel**
Compact Corrosion Resistant
cylinder
9/16" - 4" bores
IP69K ingress protection



3C/QC Series
Extruded Multi-Power/
Multi-Position
12mm - 100mm bores
Extruded body alternative



EC/GC Series
Extruded Compact Actuators
12mm - 100mm bores
Standard and guided models



RPD Series Delrin
Delrin End Cap Roundline
9/16" - 2" Bores
Double Acting



RT Series Thrusters
Roundline Linear Thruster
9/16" - 3" Bores
Composite and Roller Bearings



**RP Series Roundline
Plus**
Round Body Disposable
5/16" - 3" Bores
Single and Double Acting



Rotary Actuators
Rack & Pinion Rotary
1/2" - 2-1/2" Bores
Single and Double Rack,
Multi-Position



**MC Series
MC2/MC3**
5/16" - 2" Bores
Magnetically Coupled Rodless
Unguided Cylinder



**MC Series
MC2S/MC3S**
5/16" - 2" Bores
Magnetically Coupled Rodless
Guided Cylinder



**MC Series
MCHL**
1-1/16" - 1-1/2" Bores
Magnetically Coupled Rodless
High Load Guided Cylinder



New!

Norgren ELION Rod-style
Electric Actuator
32, 40, 50, 63, 80, 100mm bores
ISO 15552 ball screw



New!

Norgren ELION Rodless
Electric Actuator
48, 60, 80, 100mm bores
Toothbelt or ball screw



New!

EFE/T Extruded Flat
Electric Actuator/Thruster
16, 20, 25, 32, 40, 50mm bores
Up to 200lbs thrust



New!

EET Extruded Thruster
Electric Actuator
16, 20, 25, 32mm bores
Ideal for high side loading applications



New!

NPET Narrow Profile Table
Electric Actuator
20 & 32mm bores
Ideal for cartesian-type and pick & place applications



New!

NST80 Series
Electric Actuator
Aluminum - Rodless
Single rail, belt-driven



New!

NB80/NB110 Series
Electric Actuator
Aluminum - Rodless
Single rail, belt-driven



New!

NB27 Series
Electric Actuator
Aluminum - Rodless
Single rail, belt-driven



New!

NHSXZ15/NHSXZ80
Electric Actuator
Aluminum - Linear Robot
T-Bot Construction



New!

NHSXY80
Electric Actuator
Aluminum - Linear Robot
H-Bot Construction



New!

Three-Position Cylinders (3R)
Available Bore sizes - 9/16", 3/4", 1-1/16", 1-1/2", 2"
Utilizes 2 pistons to create multiple stops
Double Acting



New!

Non-Rotating Cylinders (NR)
Available Bore sizes - 9/16", 3/4", 1-1/16", 1-1/2", 2", 2-1/2"
Square Rod
Double and Reverse Acting
Interchange for Roundline Plus



New!

All Stainless Steel Non-Repairable Cylinders (SR)
Same bore sizes as Roundline Plus (5/16" thru 3")
Double Acting models only
Composite bushings standard
FDA lube standard
Direct Interchange for Roundline Plus



New!

Tough Duty Cylinders (ZR)
Available Bore sizes - 3/4", 1-1/16", 1-1/2", 2"
Double Acting
Solid bumpers standard
Removable hex rod stud
Oversized rod and mounting dims



New!

Rod Lock Cylinders (LR)
Available Bore sizes - 3/4", 1-1/16", 1-1/2", 2", 2-1/2", 3"
Holds rod in place when lock is engaged
Double Acting
Not a safety device



New!

Roundline Hydraulic Cylinders (HR)
Available Bore sizes - 1-1/16", 1-1/2", 2"
Double Acting
500psi hydraulic rating



New!

Hole Punchers (HPR)
All sizes are a 3/4" bore
Available cutter sizes - 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8"
High strength materials for long life
Hollow rod to eject slugs



New!

Position Feedback Actuator
Round Body Position Control
1-1/16 - 3" Bores
Standard or Non-Contact



New!

Baghouse Cylinder
Steel or Aluminum NFPA cylinder with externally mounted valve and electrical junction box, among other optional components. Customized for baghouse filtration systems in power generation plants.



Reciprocating Air Motors
Cylinder/valve combination with stroke signal valves as ext. pilots. Used for pumping media (lubrication, fiberglass, foams, resins, hot melt glue, liquid polymers, waste gases & liquids)



Reed and Solid State Switches
Magnetically operated, non-contact sensing
LED, PNP, NPN
Flying leads or quick disconnect



Unit-Air Assembly
Cylinder/Valve combination unit
Typical Applications: Sorting systems, conveyors, diverters, various industrial applications



V5x
 Inline Solenoid & Air Pilot
 Port: 1/8", 1/4", 3/8" & 1/2"
 Function: 3/2, 5/2 & 5/3
 Cv: 0.48 to 2.48
 Voltage: 12 VDC, 24 VDC,
 110/120 VAC, 220 VAC



V6x
 Inline Solenoid & Air Pilot
 Port: 1/8", 1/4" & 3/8"
 Function: 3/2, 2x3/2, 5/2 & 5/3
 Cv: 0.75 to 2.6
 Voltage: 12 VDC, 24 VDC,
 110/120 VAC, 220 VAC



Nugget 200
 Inline Solenoid & Air Pilot
 Port: 1/4", 3/8" & 1/2"
 Function: 3/2, 5/2 & 5/3
 Cv: 1.67
 Voltage: 12 VDC, 24 VDC,
 110/120 VAC, 220 VAC



Nugget 500
 Inline Solenoid & Air Pilot
 Port: 1/2" & 3/4"
 Function: 5/2 & 5/3
 Cv: 4.0 to 5.6
 Voltage: 12 VDC, 24 VDC,
 110/120 VAC, 220 VAC



Poppet
 Inline & Subbase,
 Solenoid & Air Pilot
 Port: 1/4", 3/8", 1/2", 3/4", 1",
 1-1/4", 1-1/2" & 2"
 Function: 2/2, 3/2 & 4/2
 Cv: 1.2 to 49.5
 Voltage: 12 VDC, 24 VDC,
 110/120 VAC, 220 VAC



Miniature Manual valves
 NV series
 Port: 10-32(F), 1/8" NPT/ 10-32
 (F), 1/8" (F) NPT
 Cv: 0.2 to 0.54
 Function: 2/2NC, 3/2NC & 5/2



Super X
 Inline Manual & Mechanical
 Port: 1/8" & 1/4"
 Function: 3/2, 5/2 & 5/3
 Cv: 0.34 to 0.98



Nugget 200
 Inline Manual & Mechanical
 Port: 1/4", 3/8" & 1/2"
 Function: 3/2, 5/2 & 5/3
 Cv: 1.67



VHLA
 Inline Manual & Mechanical
 Port: 1/4", 3/8" to 1/2"
 Function: 4/2 & 4/3
 Cv: 0.4 to 3.1



C00
 Inline Lockout
 Port: 1/4", 3/8", 1/2", 3/4",
 1", 1-1/4" & 1-1/2"
 Function: 3/2
 Cv: 4.2 to 22.4



VR10 & VR15
 Manifold Mounted
 Port: PIF(5/32", 1/4", 5/16",
 4mm, 6mm & 8mm)
 Function: 2x3/2, 5/2 & 5/3
 Cv: 0.35 to 0.65
 Voltage: Wireway 24Vdc
 Connectivity: Multipole, EtherNet/
 IP, PROFINET, EtherCAT, IO-Link



VS18 & VS26
 Manifold Mounted
 Port: 1/8", 3/8", 1/4"PIF &
 3/8"PIF
 Function: 2x3/2, 5/2 & 5/3
 Cv: 0.56 to 1.37
 Voltage: Wireway
 (12 VDC, 24 VDC, 110/120 VAC)



Mini ISO
 Subbase Manifold
 Port: 1/8", 1/4" & PIF (1/4" & 3/8")
 Function: 2x3/2, 5/2 & 5/3
 Cv: 0.58 to 1.22
 Voltage: 12 VDC, 24 VDC,
 110/120 VAC, 220 VAC



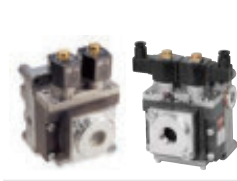
ISO Size, 1, 2 & 3
 Subbase Manifold
 Port: 1/4", 3/8" & 1/2"
 Function: 5/2 & 5/3
 Cv: 1.2 to 4.4
 Voltage: 12 VDC, 24 VDC,
 110/120 VAC, 220 VAC



VM10 & 15
 Stacking
 Port: PIF(1/8", 1/4", 5/32",
 5/16", 3/8")
 Function: 2x3/2, 5/2 & 5/3
 Cv: 0.44 to 1.00
 Voltage: Wireway
 (12 VDC & 24 VDC)



VP10, 12, 50, 50S & 51
 Inline or Manifold
 Port: 1/8" or 1/4"
 Function: 3/2 Proportional
 Flow: 6 to 60 SCFM or
 Cv: 0.2 to 1.4
 Control: 0 - 10V or 4 to 20 mA /
 open or closed loop
 Outlet Pressure Control:
 0 to 145 psi



Press Safety
 Inline
 Port: 1/4", 1/2", 3/4", 1" & 1-1/2"
 Function: 3/2 with Dynamic
 monitoring
 Flow: Cv 2.6 to 62.4
 12Vdc, 24 VDC, 110/120 VAC,
 220 VAC
 Voltage: 24 VDC & 110/120 VAC



Energy
 Inline or Manifold
 Port: 1/8" upto 1-1/2"
 Function: 3/2, 5/2, 5/3
 Materials: Stainless Steel,
 Brass and AL
 Certifications:
 CSA, FM, UL, SIL and Tuv
 Chemical, Refining,
 Power Plants, Oil & Gas



Commercial Vehicle
 Inline or Manifold
 Port: 1/8, 1/4" & 1/2"
 Function: 3/2, 5/2, 5/3
 Materials: Composite,
 Stainless Steel, Brass and AL
 Control: Air, Electrical or
 Manual/Mechanical
 Chassis Cab, Bus & Trailer



Miniature Solenoids
 Inline, Manifold & Proportional
 Body Width: 8mm, 10mm,
 15mm, 22mm & 32mm
 Function: 2/2, 3/2
 Power: 0.5 watts up to 10 watts

Common Applications

- Molding
- Paint Spraying
- Pilot Control
- Position Control
- Pressure Selection
- Tube Bending
- Baggers
- Case Erectors
- Conveying
- Packaging Equipment
- Palletizers
- Sealers
- Stacking
- Door Systems
- Gate Controls
- Safety Systems
- Shut Controls
- Sorting
- Test Equipment
- Weighing Systems
- Paint Spraying
- Printing & Ink Jet
- Remote Operation
- Tensioning & Winding Systems
- Tube Bending
- Leak Testing
- Pressure Control
- Stacking Systems
- Welding Control

Buschjost Valves



82520 & 84620 Series
 2-way Solenoid Valves - Direct Lift Seat
 Port: 1/8", 1/4", 3/8"
 Pressure: 0 - 580 psi
 Cv: 0.08 up to 0.58
 Seat Materials: NBR
 Materials: Brass & 316SS



82630 & 82570 Series
 2-way Solenoid Valves - Direct Lift Diaphragm
 Port: 1/4", 3/8" & 1/2"
 Pressure: 0 - 145 psi
 Cv: 1.7 to 2
 Seat Materials: NBR
 Materials: Brass & 316SS



82640 & 84490 Series
 2-way Solenoid Valves - Direct Lift Diaphragm
 Port: 1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1 1/2" & 2"
 Pressure: 0 - 232 psi
 Cv: 2.2 to 47.2
 Seat Materials: NBR & NBR-K
 Materials: Brass & 316SS



82410 & 82740 Series
 2-way Solenoid Valves - Indirect Diaphragm
 Port: 1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1 1/2" & 2"
 Pressure: 0 - 232 psi
 Cv: 2.2 to 47.2
 Seat Materials: NBR & HBNR
 Materials: Brass & 316SS
 UL and CSA certified versions available



85710 & 85750 Series
 2-way Solenoid Valves - Direct Lift Piston Seat
 Port: 1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1 1/2" & 2"
 Pressure: 0 - 580 psi
 Cv: 2.5 to 49.5
 Seat Materials: NBR-K
 Materials: Brass & 316SS
 UL and CSA certified versions available



84380 & 84390 Series
 2-way Piston Seat Valves - Pressure Actuated
 Port: 1/8", 1/4", 3/8"
 Pressure: 0 - 363 psi
 Cv: 0.14 to 2
 Seat Materials: PTFE
 Materials: Brass & 316SS



82190, 82290, 82390 & 82490 Series
 2-way Angle Seat Valves - Pressure Actuated
 Port: 1/8", 1/4", 3/8" & 1/2"
 Pressure: 0 - 232 psi
 Cv: 5.5 to 61
 Seat Materials: NBR
 Materials: Brass & 316SS



84510 & 84530 Series
 2-way Angle Seat Valves - Pressure Actuated
 Port: 1/2", 3/4", 1", 1-1/4", 1 1/2" & 2"
 Pressure: 0 - 290 psi
 Cv: 5.5 to 42.6
 Seat Materials: PTFE
 Materials: Brass & 316SS



84730 & 84750 Series
 2-way Angle Seat Valves - Pressure Actuated
 Port: 1/2", 3/4", 1", 1-1/4", 1 1/2" & 2"
 Pressure: 0 - 232 psi
 Cv: 5.5 to 16.1
 Seat Materials: NBR
 Materials: Brass & 316SS

Solenoid Valves



Series 1
 2 and 3-way Solenoid Valves
 Maximum MOPD (psi): 800
 Cv: up to 0.305
 Power Rating: 6 watts
 Ports: 10-32 UNF, 1/8"
 Certifications CSA & UL



Series 2
 2 and 3-way Solenoid Valves
 Maximum MOPD (psi): 1000
 Cv: up to 0.305
 Power Rating: 7 watts
 Ports: 10-32 UNF, 1/8"
 Certifications CSA & UL



Series 3
 2 and 3-way Solenoid Valves
 Maximum MOPD (psi): 1000
 Cv: up to 0.490
 Power Rating: 7 watts
 Ports: 10-32 UNF, 1/8", 1/4"
 Certifications CSA & UL



Series 6
 2 and 3-way Solenoid Valves
 Maximum MOPD (psi): 1200
 Cv: up to 0.610
 Power Rating: 10 watts
 Ports: 10-32 UNF, 1/8", 1/4", 3/8"
 Certifications CSA & UL



Q2 Series
 2-way Quick-Connect Valves
 Maximum MOPD (psi): 120
 Cv: up to 1
 Power Rating: 10 watts
 Port: 1/4" PIF & 3/8" PIF
 Certifications CSA, UL & NSF



NCSV Series
 Two-hand anti-tiedown control valve. Models that actuate any 3 or 4-way air piloted, spring return power valve or small single-acting cylinders or 4-way power valve for direct actuation of single or double acting air cylinders.

Common Applications

- Medical Devices
- Analytical/Biopharma
- Diagnostic Instrumentation
- Inkjet
- Air Filtration
- Conventional Energies
- Renewable Energies
- PET
- Food & Beverage
- Oil, Gas & Chemical Industries
- Sanitary
- Water Treatment
- Industrial Cooling
- Car Wash
- Water Management
- Agriculture
- Packaging
- Gas Handling
- Electronics
- Textiles
- Molding
- Climate Control
- Printing
- Cold & Hot Glue
- Filling
- Sorting
- On-Board Vehicle
- Cleaning Systems for Pipes
- Coffee Machines
- Dosing Equipment
- Food Steamers
- NAMUR Interface Valves
- Redundant Valve Systems
- Explosion Proof/Flame Proof Valves
- Process Controls
- Compressors
- Condensate Separating
- Conveyors
- Flame Cutting Machines
- Grinding Machines
- Sand Blasting Equipment
- Tube Foil Extruders
- Molding Presses
- Control of Bio-Gas
- Gas Injections Mixing Turbines
- Dust Filter Cleaning
- Steam Control
- Dosing of Fertilizers
- Milking Machines
- Printing Machines
- CNG & LNG Applications

Excelon® Plus Series



New!



New!



New!



New!



New!

**Excelon® Plus
BL82 & BL84 –
Filter/Regulator –
Lubricator boxed sets**

1/4", 3/8", 1/2", 3/4" (PTF/ISO G)
Polycarbonate bowl: 145 psi
82 Series Metal bowl: 246 psi
84 Series Metal bowl: 290 psi
Polycarbonate bowl: +14°F to +140°F
Metal bowl: -4°F to +149°F

**Excelon® Plus
B82G & B84G –
Filter/Regulators**

1/4", 3/8", 1/2", 3/4" (PTF/ISO G)
Polycarbonate bowl: 145 psi
82 Series Metal bowl: 246 psi
84 Series Metal bowl: 290 psi
Polycarbonate bowl: +14°F to +140°F
Metal bowl: -4°F to +149°F
Integrated Electronic Pressure
Sensor option

**Excelon® Plus
F82G & F84G –
General Purpose
Filters**

1/4", 3/8", 1/2", 3/4" (PTF/ISO G)
Polycarbonate bowl: 145 psi
82 Series Metal bowl: 246 psi
84 Series Metal bowl: 290 psi
Polycarbonate bowl: +14°F to +140°F
Metal bowl: -4°F to +149°F

**Excelon® Plus
F82C & F84C –
Coalescing Filters**

1/4", 3/8", 1/2", 3/4" (PTF/ISO G)
Polycarbonate bowl: 145 psi
82 Series Metal bowl: 246 psi
84 Series Metal bowl: 290 psi
Polycarbonate bowl: +14°F to +140°F
Metal bowl: -4 to +149°F

**Excelon® Plus
F82V & F84V – Vapor
Removal Filters**

1/4", 3/8", 1/2", 3/4" (PTF/ISO G)
Polycarbonate bowl: 145 psi
82 Series Metal bowl: 246 psi
84 Series Metal bowl: 290 psi
-4°F to +149°F



New!



New!



New!



New!



New!

**Excelon® Plus
R82G & R84G –
Pressure Regulators**

1/4", 3/8", 1/2", 3/4" (PTF/ISO G)
Inlet: 290 psi; -4°F to +149°F
Adjustable ranges:
4 to 58 psi
4 to 145 psi
10 to 247 psi
Integrated Electronic Pressure
Sensor option

**Excelon® Plus
L82M/C & L84M/C –
Oil Fog and Micro Fog
Lubricators**

1/4", 3/8", 1/2", 3/4" (PTF/ISO G)
Polycarbonate bowl: 145 psi
82 Series Metal bowl: 246 psi
84 Series Metal bowl: 290 psi
Polycarbonate bowl: +14°F to +140°F
Metal bowl: -4°F to +149°F

**Excelon® Plus
T82T & T84T –
Shut off Valves**

1/4", 3/8", 1/2", 3/4" (PTF/ISO G)
82 Series: 246 psi
84 Series: 290 psi
-4°F to +149°F

**Excelon® Plus
P84F & P84C
Soft Start/Dump Valves**

3/8", 1/2", 3/4" (PTF/ISO G)
145 psi (10 bar)
-4°F to 149°F

**Excelon® Plus Q84G –
Standalone Electronic
Pressure Sensor**

3/8", 1/2", 3/4" (PTF/ISO G)
0 to 145 psi
IO-Link Connectivity

Excelon® Series



**Excelon®
F72, F73, F74 Series**

General purpose filters, oil
removal, oil vapor, and filter/
regulators
1/4" to 3/4", 250 psig*
-30°F to 175°F*



**Excelon®
R72G, R73G, R74G**

1/4" to 3/4"
300 psig
-30°F to 175°F*



**Excelon®
L72M/C, L73M/C,
L74M/C**

1/4" to 1/2"
250 psig*
-30°F to 175°F*



**Excelon®
V72G, V74G**

1/4" to 3/4"
300 psig
-30°F to 175°F*



**Excelon®
B72G, B73G,
B74G, Filter/Regulator**

1/4" to 3/4"
250 psig*
-30°F to 175°F*

* See datasheet



**Excelon®
T72, T73, and T74**

Shut off valves
1/4" to 3/4", 250 psig
-30°F to 150°F*

Olympian® Plus Modular System

**F68 Series**

General purpose filters, oil removal, oil vapor, and filter/regulators
1/4" to 1-1/2", 250 psig*
-30°F to 175°F

**R68G**

General purpose
1/2" to 1-1/2"
250 psig*
-30°F to 175°F*

**L68M/C**

1/2" to 1-1/2"
250 psig*
-30°F to 175°F*

**B68E/G**

Filter/Regulator
1/2" to 1-1/2"
250 psig*
-30°F to 175°F*

**V68H**

1/2" to 1-1/2"
300 psig*
-30°F to 175°F*

* See datasheet

Miniature Series

**P68, and T64, and T68**

Smooth start/exhaust, & Lockout
1/2" to 1-1/2"
250 psig
0°F to 175°F*

**Series PTH**

Filter/Regulator-Lubricator
1/8" - 1/4"
250 psig*
0°F to 150°F*

**F07**

General purpose filter
1/8", 1/4"
250 psig*
-30°F to 175°F*

**F39**

Oil removal filter
1/8", 1/4"
250 psig*
-30°F to 150°F*

**R07, R46**

General purpose regulator
1/8", 1/4"
300 psig*
-30°F to 150°F*

**V07**

Miniature pressure relief valve
1/8", 1/4"
300 psig*
0°F to 150°F*

Ported Inline F, R, L's

**B07, B39**

Filter/Regulators
1/8", 1/4"
250 psig*
-30°F to 150°F*

**L07**

Micro-fog® lubricator
1/8", 1/4"
250 psig*
0°F to 175°F*

**B17**

Filter/Regulator
3/4" - 1-1/2", 250psig
-30°F to 175°F

**P8H**

Filter/Regulator-Lubricator
1" 250 psig
0°F to 175°F

**F17 and F18**

General purpose filter
3/4" to 1-1/2"
250 psig
-30°F to 175°F

**F46 and F47**

Oil removal filter
3/4", 1", 1-1/4"
250 psig
-30°F to 150°F

**L17**

Lubricator
Oil Fog or Micro-fog®
3/4" to 1-1/2"
250 psig
0°F to 175°F

**P8A**

Filter-Regulator-Lubricator
1", 250 psig
0°F to 175°F

**R17, R18**

General purpose regulator
3/4" to 2"
450 psig, 300 psig (R17)
-30°F to 175°F*



online configurators available for cylinders, valves, and FRLs:
www.norgren.com



Air
Preparation

Pressure, Micro-Trol, Instrument Regulators, Pilot and Feedback Regulators



11-002 & 20AG

Pressure regulator
1/4", 3/8", 1/2"
G3/4, G1
400 psig
-30°F to 175°F

R24

Micro-Trol
pressure regulator
1/4" to 1-1/4"
300 psig
0°F to 150°F

11-018

Precision regulator
1/4"
290 psig
-40°F to 175°F

**R40, R41,
11-400, 11-104**

Pilot Feedback, feedback
1/4"
360 to 400 psig
0°F to 175°F

**11-042, 11-008,
R18, R24**

Pilot operated regulator
1/4" to 2"
30 to 400 psig
0°F to 175°F

Stainless Steel Products



Maxseal IFR3 & IFR4

Filter/regulator
1/4" and 1/2"
290 psig
-22°F to 194°F

B38

General purpose filter/regulator
1/4", 1/2" PTF
450 psig*
-40°F to 175°F

F22, R22, L22

Filter, pressure regulator,
lubricator
1/2" NPTF
290 psig*
0°F to 175°F

F05

General purpose filter
1/4" PTF
300 psig
-13°F to 175°F

R05, B05

General purpose
regulator & filter/regulator
1/4" PTF
300 psig
-30°F to 150°F

Regulators



R06

Brass miniature
1/8", 1/4"
400 psig
-30°F to 150°F*

R14, R16

Miniature, preset,
nonadjustable
1/8", 1/4"
400 psig
-30°F to 150°F

11-044

Pressure regulator
1/4" tube connecton
250 psig
-30°F to 150°F*

R91

Pressure regulator
1/4"
150 psig
0°F to 125°F*
NSF approved R91W

R43, 11-009

Water regulator
1/4" to 1"
400 psig
-30°F to 200°F*

Fittings



Pneufit™
 Nickel Plated Brass
 Inch - 1/8" to 1/2" O/D tube
 Metric - 4 to 12mm O/D tube
 Vacuum to 260 psi



Pneufit™ C & M
 Composite
 Inch - 1/8" to 1/2" O/D tube
 Metric - 3 to 16mm O/D tube
 Vacuum to 150 psi



Pneufit™ D
 NSF 51 / 61 Acetal
 Inch - 5/32" to 1/2" O/D tube
 Vacuum to 230 psi



52 Series Barb Fittings
 Nickel Plated Brass
 Inch - 1/16" to 3/8" I/D tube



FleetFit™
 Brass DOT compliant vehicle fittings
 Inch - 3/16" to 3/4" O/D tube
 0 to 150 psi

Function Fittings and Flow Control



Pneufit™ Push-in Elbow Banjos
 1/8" to 1/2", 4 to 12 mm



Flow Controls
 5/32" to 1/2", 4 to 16 mm



T1000 Series
 Block form controls
 1/8" to 1/2" NPT or ISO G



Pneufit™ C Inline Flow Control
 5/32" to 1/2", 4 to 12 mm



M/800, C/800 Series
 Heavy duty flow controls - unidirectional
 1/8" to 1"



T51, T52, T53 Series
 Non-return
 5/32" to 1/2", 4 to 12 mm



Air fuses
 In-line excess flow shut-off valves
 1/4" to 1-1/2"



C20G Series
 Non-return valves
 5/32" to 1/2", M5, 1/8" to 1/2"



T65 Series
 Shuttle valves
 1/8", 1/4", NPT and ISO G



T70, C511 Series
 Quick exhaust valves
 1/8" to 3/4"

Pneumatic Accessories



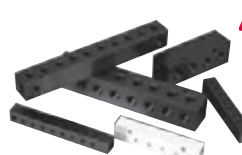
Pressure Sensor
 Fitting
 5/32", 4 mm



Mufflers & Silencers
 Bronze, Aluminum, and Plastic
 10-32 to 1-1/2" NPT



Tubing, cutters, mounts, markers



New!

Manifolds
 Available in a variety of port sizes, configurations, and materials including aluminum, brass, stainless steel, polypropylene, and nylon materials.

Vacuum Generators



NVP Series

Modular Venturi Generators
 Vacuum levels up to 29.5"Hg
 Vacuum flows up to 28.0 SCFM



NJ Series

Rugged Cylindrical Generators
 Vacuum levels up to 28.0"Hg
 Vacuum flows up to 28.0 SCFM



NVDF Series

Variable Flow Vacuum Generators
 Vacuum levels up to 25.0"Hg
 Vacuum flows up to 120.0 SCFM



NCDF Series

Adjustable Air Amplifier/Blowers
 Vacuum levels up to 9.0"Hg
 Vacuum flows up to 330.0 SCFM



NDF Series

Material Transfer Generators
 Vacuum levels up to 11.0"Hg
 Vacuum flows up to 600.0 SCF



NMVS Series

Multi-stage Generators
 Vacuum levels up to 28.0" Hg
 Vacuum flows up to 20.0 SCFM

Vacuum Cups



Vacuum Cups

A wide range of styles, materials, and sizes

End-of-Arm-Tooling & Accessories



NCRVT

Fully integrated vacuum tool designed for collaborative robots



Spring Levelers

Mechanical compensation for uneven surfaces



Mounting Brackets

To connect spring levelers and accessories to extrusions



Manifold Blocks

For mounting vacuum cups to extrusions and/or distributing vacuum to multiple locations

Common Applications

Food & Beverage

- Blow-off and cooling
- Liquid blending and mixing
- Inspection and removal
- Sorting

Packaging & Pharmaceutical

- Cartoning
- Bag forming/opening
- Bag/Box handling
- Bulk transfer of pellets/powders/solids
- De-nesting
- Palletizing
- Vacuum sealing
- Vessel evacuation

Materials (Plastics/ Glass/ Wood/Textile)

- Mold evacuation
- Thermoforming

Metal Fabrication

- Chip removal
- Stamping
- Workpiece holding

Robotics

- Assembly
- Material handling
- Part loading and unloading
- Pick and place

Printing

- Feeding
- Labeling

Electronics & Semiconductor

- Circuit board testing
- PCB assembly

Automotive

- Assembly
- Glass handling

Switches and Sensors


**18D
Pressure Switch**

Pneumatic/Hydraulic
Vac - 435 psi
70 to 6100 psi
1/4" NPT
7/16 - 20 UNF


**51D
Solid State Switch**

Pneumatic/all-fluid
14.5 to 145 psi
1/8" NPT


**PTN Analog Pressure
Transducer**

316 Stainless steel housing,
wetted components
1/4" NPT
-4°F to 257°F



New!

34D Pressure Sensor

For neutral and aggressive
gaseous and liquid fluids
Stainless steel wetted
components
-14.5 to 145 psi
IO-Link Connectivity

Warning

Improper selection, misuse, age or malfunction of components used in systems can cause failure in various modes. The system designer is warned to consider the failure modes of all component parts and to provide adequate safeguards to prevent personal injury or damage to equipment or property in the event of such failure modes. System designers and end users are cautioned to consult instruction sheets and specifications available from the factory. The system designer/end user is responsible for verifying that all requirements for the application are met.

Warranty

The products described herein are warranted subject to seller's Standard Terms and Condition of Sale, available at seller's website.

⚠ WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov.



online configurators available for cylinders, valves, and FRLs:
www.norgren.com



Switches
& Sensors

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Incorporating



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