Product Line Guides
for Industrial Automation

www.imi-precision.com/us
1.800.514.0129
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

NEN Series
Aluminum NFPA
1-1/2" - 4" Bores
Double Acting, Bolt on Mountings

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

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

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

Series 90000
Extruded Body Compact
12mm - 100mm Bores
Single & Double Acting

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

**F-Series Plus**
Round, Compact cylinder
9/16" - 4" Bores
Single and Double Acting

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

**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

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

**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.

**Additional Baghouse cylinder applications**
The Baghouse cylinder is ideal for industrial applications requiring system control in a single, comprehensive package. The use of an NFPA cylinder assures mounting flexibility in any industrial setting.

**Reciprocating Air Motors**
Description: Cylinder/valve combination with stroke signal valves serving as external pilots
Typical Applications: Pumping media such as: lubrication, fiberglass, foams, resins, hot melt glue, liquid polymers, waste gases & liquids.
## Directional Control Valves

### 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: 12Vdc, 24Vdc, 110/120Vac, 220Vac

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

### Poppet
- **Inline & Subbase, Solenoid & Air Pilot**
- Function: 2/2, 3/2 & 4/2
- Cv: 1.2 to 49.5
- Voltage: 12Vdc, 24Vdc, 110/120Vac, 220Vac

### 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

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

### C00
- **Inline Lockout**
- Function: 3/2
- Cv: 4.2 to 22.4

## 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**
### Directional Control Valves

**ISO Solenoid**
- Subbase Manifold
- Port: 1/4", 3/8" & 1/2"
- Function: 5/2 & 5/3
- Cv: 1.2 to 4.4
- Voltage: 12Vdc, 24Vdc, 110/120Vac, 220Vac

**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: 12Vdc, 24Vdc, 110/120Vac, 220Vac

**VS18, 26 & 45**
- Manifold Mounted
- Port: 1/8", 3/8", 1/2" 1/4" PIF & 3/8" PIF
- Function: 2x3/2, 5/2 & 5/3
- Cv: 0.56 to 4.2
- Voltage: Wireway (12Vdc, 24Vdc, 110/120Vac)

**VM10 & 15**
- Stacking
- Function: 2x3/2, 5/2 & 5/3
- Cv: 0.44 to 1.00
- Voltage: Wireway (12Vdc & 24Vdc)

**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, 24Vdc, 110/120Vac, 220Vac
- Voltage: 24Vdc & 110/120Vac

**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

**Switches and Sensors**
- Inline
- Port: 1/4" or 7/16-20 UNF
- Medium: Vacuum, Air and Hydraulic
- Output Signal: 1 x PNP or 2 x PNP
- Repeatability: 3%

### Common Applications

- **Paint Spraying**
- **Pilot control**
- **Position control**
- **Printing & Ink Jet**
- **Remote Operation**
- **Tensioning & Winding Systems**
- **Tube bending**

- **Door Systems**
- **Gate Controls**
- **Leak testing**
- **Safety systems**
- **Shut controls**
- **Sorting**
- **Weighing systems**

- **Case Erectors**
- **Conveying**
- **Packaging Equipment**
- **Palletizers**
- **Pressure Control**
- **Stacking Systems**
- **Welding control**
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*
- 0°F to 150°F*

**Excelon P72, P74, P74, and T72, T73, and T74**
- Smooth start/exhaust
- Smooth Start/exhaust
- 1/4" to 3/4", 150 psig
- 0°F to 175°F*

Excelon Combination Units

**Filter/Regulator-Lubricator boxed sets**
- 1/4" to 1/2"
- 250 psig*
- 0°F to 150°F*

**C72A, C73A, C74A**
- Filter-Regulator-Lubricator
- 1/4" to 3/4"
- 250 psig
- -30°F to 175°F*

Inch and Metric Fittings and Accessories

A full line of inch, and metric fittings, accessories and tubing.

Olympian Plus Modular System

**F64, 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

**R64G/R, R68G**
- 1/2" to 1-1/2"
- 250 psig*
- -30°F to 175°F*

**L64M/C, 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*

**V64H, V68H**
- 1/2" to 1-1/2"
- 300 psig*
- -30°F to 175°F*

**P64, P68, and T64, and T68**
- Smooth start/ exhaust, & Lockout
- 1/2" to 1-1/2"
- 250 psig, 0°F to 175°F*

Miniature Series

**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"
- 250 psig*
- 300 psig*
- -30°F to 150°F*

**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*

* See catalog
**Air Preparation Products**

**Ported Inline F, R, L’s**

- **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
  - 0°F to 175°F

- **L17 Lubricator**
  - 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

**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

- **R38 Instrument, B38 filter/reg. and 11-018 precision regulator**
  - 1/4”
  - 290 psig
  - -40°F to 175°F

- **R40, R41, 11-400, 11-104**
  - Pilot Feedback, feedback regulator
  - 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 Prouducts**

- **Maxseal IFR3 & IFR4**
  - Filter/regulator
  - 1/4” and 1/2”
  - 290 psig
  - -22°F to 194°F

- **B38**
  - General puruse 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

**Water and Air 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 connection
  - 250 psig
  - -30°F to 150°F

- **R91**
  - Pressure regulator
  - 1/4”
  - 150 psig
  - 0°F to 125°F

- **R43, 11-009**
  - Water regulator
  - 1/4” to 1”
  - 400 psig
  - -30°F to 200°F

* See catalog
Fittings and Flow Controls

**Fittings**

- **Pneufit Push-in**
  - Inch
  - 1/8" to 1/2" O/D tube

- **Pneufit C Composite, and Pneufit M**
  - Inch
  - 1/8" to 1/2" O/D tube

- **Pneufit D**
  - Inch
  - 5/32" to 1/2" O/D tube

- **Pneufit Push-in**
  - Metric
  - 4 to 14 mm O/D tube

- **Pneufit C Composite, and Pneufit M**
  - Metric
  - 3 to 16 mm O/D tube

- **Pneufit D**
  - Metric
  - 4 to 12 mm O/D tube

**Function Fittings and Flow Controls**

- **Pneufit Push-in**
  - elbow banjo
  - 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**
  - 5/32" to 1/2", 4 to 12 mm

- **M/800, C/800 Series**
  - Heavy duty
  - 1/8" to 1"

- **T51, T52, T53 Series**
  - Non-return
  - 5/32" to 1/2", 4 to 12 mm
FUNCTION FITTINGS AND FLOW CONTROLS (cont)

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”

T15 Series
Inline, push-in Flow controls
1/8” to 1/2”, 3 to 12 mm

Pressure Sensor fitting
5/32”, 4 mm

FLEETFIT VEHICLE FITTINGS

FleetFit push-in fittings
inch and metric

TUBING AND ACCESSORIES

Tubing, cutters, mounts, markers
<table>
<thead>
<tr>
<th>Buschjost</th>
<th>Series 82520 &amp; 84620</th>
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<tbody>
<tr>
<td>Port: 1/8&quot;, 1/4&quot;, 3/8&quot;</td>
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<td>Pressure: 0 - 580 PSI</td>
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<td>Cv = 0.08 up to 0.58</td>
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<tr>
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<td>Cv = 2.2 to 47.2</td>
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<td>Seat Materials: NBR &amp; HBNR</td>
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<tr>
<td>Cv = 2.5 to 49.5</td>
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<tr>
<td>Seat Materials: NBR-K</td>
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<td>Cv = 0.14 to 2</td>
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<td>Seat Materials: PTFE</td>
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<tr>
<td>Cv = 5.5 to 61</td>
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<td>Pressure: 0 - 290 PSI</td>
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<td>Cv = 5.5 to 42.6</td>
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<td>Seat Materials: PTFE</td>
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<td>Cv = 5.5 to 16.1</td>
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**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
### Fluid Control Valves

#### KIP Series 1
- Maximum MOPD (psi): 800
- Cv: up to 0.305
- Power Rating: 6 watts
- Ports: 10-32 UNF, 1/8”
- Certifications CSA & UL

#### KIP Series 2
- Maximum MOPD (psi): 1000
- Cv: up to 0.305
- Power Rating: 7 watts
- Ports: 10-32 UNF, 1/8”
- Certifications CSA & UL

#### KIP Series 3
- Maximum MOPD (psi): 1000
- Cv: up to 0.490
- Power Rating: 7 watts
- Ports: 10-32 UNF, 1/8”, 1/4”
- Certifications CSA & UL

#### KIP Series 6
- 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

#### KIP Q2
- Maximum MOPD (psi): 120
- Cv: up to 1
- Power Rating: 10 watts
- Port: 1/4” PIF & 3/8” PIF
- Certifications CSA, UL & NSF

#### KIP Liquid Level
- LS 1, 25 BN, 35SS, LS 11 & 50 SS
- Temperature: -40 to 300°F
- Pressure: up to 750PSI
- Min Liquid SP GR: 0.50, 0.65, 0.72, 0.80 & 0.90
- Float Materials: Polypropylene, Buna N & 316 SS
- Certifications: NSF, UL & CSA

#### Energy
- Inline, Manifold & NAMUR
- Port: 1/8” up to 1-1/2”
- Function: 2/2, 3/2, 5/2, 5/3
- Materials: Stainless Steel, Brass & AL
- Certifications: CSA, FM, UL, SIL & Tuv

#### 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

#### Directional Control
- Inline, Manifold, Proportional, Manual & Mechanical
- Port: 1/8” up to 2”
- Function: 2/2, 3/2, 2x3/2 & 4/2, 5/2 & 5/3
- Cv: .01 to 49.5
- Voltage: 12 VDC, 24 VDC, 110/120 VAC, 220 VAC

### Common Applications

- 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
**D11 Series**
Refrigerated Compressed
Flow: 10 scfm - 200 scfm
Compressor: 1/6 HP - 1 HP
Refrigerant: R134a, R404a
Pressure Dew Point: 35°F to 42°F

**D10 Series**
Air Cooled Refrigerated
Flow: 250 scfm - 7,500 scfm
Compressor: 1 3/4 HP - 6 HP
Refrigerant: R404a
Pressure Dew Point: 38°F

**D50 Series**
Compact Heatless Regenerative
Flow: 10 scfm - 50 scfm
Desiccant: Activated Alumina
Pressure Dew Point: -40°F Ultra-Dry Air

**F21 / F61 Filters**
High Flow Mainline Filter
Flow: 625 scfm - 10,000 scfm
Ports: 2.5” - 3” NPT, 4” - 8” Flanged
Filter: 1.0µ Particle / 0.1µ Oil / Vapor
Dryers and Mainline Filters

D51 Series
Heatless Regenerative
Flow: 25 scfm - 6,250 scfm
Desiccant: Activated Alumina
Pressure Dew Point: -40°F Ultra-Dry Air

D60 Series
Externally Heated Regenerative
Flow: 100 scfm - 6,250 scfm
Heater: 1kW - 50kW
Pressure Dew Point: -40°F Ultra-Dry Air

D70 Series
Blower Purge Regenerative
Flow: 250 scfm - 6,250 scfm
Heater: 4kW - 87kW
Pressure Dew Point: -40°F Ultra-Dry Air

Common Applications

Laboratory Applications
Temperature Controlled Test Chambers
Medical Equipment & Instruments

Clean Room Applications
Precision Instrumentation

Painting Applications
Auto Body & Powder Coating

Plant Air Applications
Air Powered Tools & Instruments