



Excelon[®] Plus Series 82 and Series 84

Excelon[®] Plus is the latest generation of IMI Norgren Air Preparation equipment developed to meet the needs of today's customer. It offers exceptional performance, is compact and light-weight with no compromise on robustness, and is suitable for all automation applications.

Excelon[®] Plus has been designed with safety in mind, offering built in tamper proof features and a unique double lock mechanism on the bowls. Maintenance of the unit is simplified with the new system where the element assembly is removed together with the bowl.

The innovative family of IMI Norgren Excelon[®] Plus products can be used where both stand alone units or modular assemblies are required thanks to the slim line Quikclamp system. The one piece Quikclamp assembly with integrated brackets allows installation and removal of the units without breaking a pipe connection.

General Specifications

- Port sizes 1/4", 3/8", 1/2" or 3/4"
- Thread type PTF
- Fluid: Compressed air
- Maximum inlet pressure:
 - Polycarbonate bowl 150 psi (10 bar)
 - Metal bowl 300 psi (20 bar)
- Maximum temperature:
 - Polycarbonate bowl 140°F (60°C)
 - Metal bowl 150°F (65°C)
- All internal and external surfaces are protected with an Electrophoretic paint coating providing excellent corrosion and chip resistant protection



- ▶ *A Flexible modular system*
- ▶ *Built with safety in mind*
- ▶ *Best in class Water Extraction*
- ▶ *Reduced weight and size*
- ▶ *Available in 1/4", 3/8", 1/2" & 3/4", NPT ports*

314-427-0600

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Modular Flexibility

- All bodies have standard Quikclamp flanges for fast modular installation
- All bodies are threaded 1/4", 3/8", 1/2" or 3/4" PTF
- Keyhole mounting slots in the Quikclamp brackets to easily mount and dismount units

High Performance

- Can operate at 100% air flow through a 1/2" (12.7mm) diameter pipe to minimize pressure drop in system.
- High performance makes 3/4" porting possible. Depending on flow requirements, 3/4" porting makes these products a low cost alternative to larger 3/4" basic systems, resulting in:
 - Space savings
 - Purchase cost savings
- All major components are of die cast metal
 - Gives exceptional strength & long life in most applications
 - Quikclamps & inline combos can withstand high torque or bending moments

Easy to Mount

- Easy to mount choices
 - Pipe mounted
 - Universal bracket for single installations
 - Panel mounted (for pressure regulators, filter-regulators)
 - Quikclamp (with or without wall bracket) for rapid modular assembly
 - Integrated gauge, manual drain or auto-drain with PIF, is ready to fit 'out of the box'
- Products are only 70mm port to port



General Purpose Filter

- 5 or 40µm ratings
 - A grade to suit any application
 - Particulate removal to ISO 8573-1 Class 6 (5 Micron) and Class 7 (40 Micron)
- Elements have large surface area
 - High efficiency particle removal
 - Provides high flow
 - Allows extended service intervals
- High efficiency housing and lower
 - More than 98% condensate separation at 100% flow
 - Water extraction is to ISO 8573-1 Class 8 (>95%)
 - Low pressure loss
- Choice of quick release bowl styles
 - Guarded polycarbonate
 - Metal with prismatic sight glass for more durability



Coalescing Filter

- Bowl choices as the general purpose filter
- Must always be fitted downstream of a general purpose filter
- Oil removal to ISO 8573-1 Class 1 -Max remaining aerosol of 0.01mg/m³ (53 scfm, 1/2" port size, and 90 psig operating pressure).
- Oil free, instrument grade air provides dependable, reliable air quality for trouble free 'high technology' applications
 - Ex: spray painting where poor air quality can effect paint finish
- Standard pressure drop indicator advises when element needs to be changed
- Pleated element construction
 - Superior dirt holding capacity
 - Low pressure drop – 50% reduction compared to existing range
 - Increased flow capacity
 - Low energy consumption
- Polyester sleeve sock
 - Superior mechanical strength & chemical resistance
 - Maximum operating temperature 150°F (65°C) with metal bowl



Oil Vapor Removal Filter

Oil vapor removal filters feature activated carbon element that adsorbs oil vapors. Oil vapor removal to ISO 8573-1 Class 0 -Max remaining aerosol of 0.003 mg/m³ (53 scfm, 1/2" port size, 90 psig operating pressure). Should be used as part of a three stage filtration system with F84G general duty filter and F84C coalescing filter. Such combos provide air quality to ISO8573-1 Class 0 for particulates.

- Filter & element design optimises air velocity and contact time to reduce oil content of air leaving the filter to 0,003ppm @ 70°F (21°C)*
- Long life carbon cartridge element*
- Closed metal quick release 'bayonet' bowl is standard (Polycarbonate bowl available)

*Oil vapor removal filters must be protected upstream by a coalescing filter.

Filter Drains

Two drain options are available.

- Durable quarter turn manual drain
- Fully automatic drain removes condensate only when it is needed
 - Ideal for 'hard to service' locations
- Eliminates risk of condensate carry-over
- Minimal air loss when exhausting water



Pressure Regulators

- Large diaphragm area & good syphoning action for high flow with minimal pressure droop
- Balanced main valve
 - Stops effects of compressor swing & reductions in main line pressure
- A double convolute diaphragm ensures minimum hysteresis
- Symmetrical Quikclamp flange (inlet & outlet Excelon ears)
 - Provides 90° modular mounting
- Threaded bonnet
 - Can use panel nut to panel mount
- Push to lock adjusting knob
 - For easy adjustment. Lock keeps pressure setting stable
- Relieving diaphragm
 - Bleeds off excess downstream pressure
 - Allows for quick adjustment under 'no flow' conditions
- Choice of 60, 150 or 250 psi (4, 10, or 17 bar) regulating range
- An integrated gauge is standard. A 'no gauge' option means a gauge adapter kit is fitted with a 1/8" port for external gauge or threaded fitting & pipe to a remote gauge.

Optional Features

- All major components are of die cast metal
 - Offers better environment resilience to a plastic regulator
- T-handle adjuster with locknut
 - Allows lower torque adjustment
 - Create a custom 'Maximum set' pressure version.



Combined Filter-Regulators

- Combines features, options & performance of Filters and Regulators
 - Saves install time, space and cost!
- Integrated gauge and Push-in-Fitting on Auto-drain offers more simplicity and is ready for use out of the box

Excelon® Plus Lubrication Systems

- Two design choices in 1/2" family
 - "C" Oil-fog for single tool or actuator applications
 - "M" Micro-fog for complex piping systems and circuits
- Body has many standard features
 - Threaded oil fill plug – easy to remove hexagonal shape and screwdriver slot
 - 360° sight dome for adjustment visibility
 - Color coded for identification: green = oil-fog; red = micro-fog
- Choice of two quick release 'bayonet' bowls – guarded polycarbonate or metal with red prismatic sight glass
 - Standard 0,2l bowl
- Both micro-fog and oil-fog types can be filled under pressure using a quick fill connector. Oil-fog units with standard bowls can be filled under pressure (Not on rapid cycle units), without a quick fill connector.
- Elastomeric flow sensor
 - Provides constant oil density output throughout the flow range



Shut-Off Valves

This is a 'Ball' type rotating Safety Shut-off Valve

- Valve is lockable in closed position
 - Using additional padlock with or without a padlock lockout device
- Easy to operate full flow device
- Easy to isolate system with no reduction in performance
- Valve function is 3/2
- Threaded Exhaust port so exhaust air can be piped away or silencer fitted
- Easy to combine due to ergonomic Quikclamp system - Ready to use



Service & Maintenance Made Easy

- Easy to service
 - Units can be repaired in-line
 - Quikclamps allow for rapid 'removal and replacement' (removal from service without breaking pipework)
- High visibility sight glass shows liquid condensate level in bowl
- Quick release 'bayonet' bowls with double safety lock
- Patented 'Q' drain removes condensate with a quick, no mess 1/4 turn
- Pressure drop indicator (standard on coalescing fi filters) shows when element replacement is required
- Filters & Filter/Regulators have a unique maintenance system: Low clearance, no tools, one piece filter element removal

Can Help Create Safe Pneumatic Systems

- Tamper Proof options on both shut-off valve & regulator knob available using padlock accessory features
- Double safety lock on bowl
 - Bowl clip with audible click plus safety detent when pressurised
- Combined with either 18D or 51D adjustable pressure switches the system can detect when air pressure reaches an unacceptable high or low level.
- Can be combined with IMI Norgren soft start/dump valves for safe reapplication of air or system exhausting (rapid or emergency dumping of air supply)

Part numbers listed are **in Stock Now** at John Henry Foster!

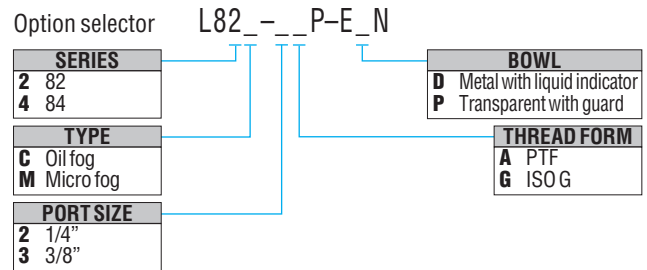
Lubricators, Metal with Level Indicator



Series	Flow scfm	Port Size NPT	Part Number
Oil Fog			
82	51	1/4	L82C-2AP-EDN
		3/8	L82C-3AP-EDN
84	193*	3/8	L84C-3AP-EDN
		1/2	L84C-4AP-EDN
		3/4	L84C-6AP-EDN
Micro Fog			
82	45	1/4	L82M-2AP-EDN
		3/8	L82M-3AP-EDN
84	155*	3/8	L84M-3AP-EDN
		1/2	L84M-4AP-EDN
		3/4	L84M-6AP-EDN

Maximum supply pressure: 290 psi

* Based on 1/2" port size



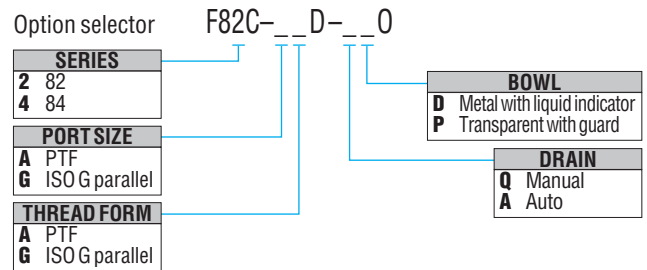
Coalescing Filters, Metal with Level Indicator



Series	Flow scfm	Port Size NPT	Part Number
Manual Drain			
82	32	1/4	F82C-2AD-QD0
		3/8	F82C-3AD-QD0
84	53*	3/8	F84C-3AD-QD0
		1/2	F84C-4AD-QD0
		3/4	F84C-6AD-QD0
Auto Drain			
82	48	1/4	F82C-2AD-ADO
		3/8	F82C-3AD-ADO
84	165*	3/8	F84C-3AD-ADO
		1/2	F84C-4AD-ADO
		3/4	F84C-6AD-ADO

Maximum supply pressure: 290 psi
0.01 micron partical removal

* Based on 1/2" port size



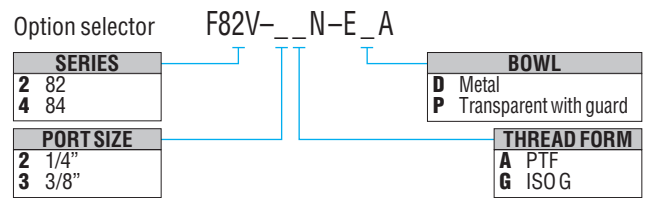
Oil Vapor Filters, Metal bowl - no sight glass



Series	Flow scfm	Port Size NPT	Part Number
Closed Bowl			
82	32	1/4	F82V-2AN-EDA
		3/8	F82V-3AN-EDA
84	53*	3/8	F84V-3AN-EMA
		1/2	F84V-4AN-EMA
		3/4	F84V-6AN-EMA

* Based on 1/2" port size

Maximum supply pressure (metal bowl with Level Indicator): 290 psi
Remaining oil content: 0.003 mg/m3 max



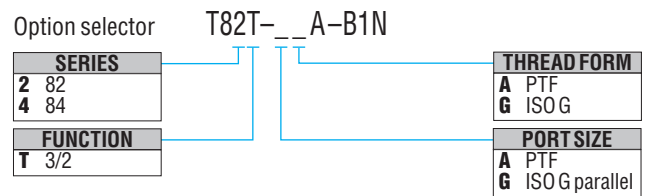
3/2 Shut-Off Valves



Series	Flow scfm	Port Size NPT	Part Number
Closed Bowl			
82	86	1/4	T82T-2AA-B1N
		3/8	T82T-3AA-B1N
84	343*	3/8	T84T-3AA-B1N
		1/2	T84T-4AA-B1N
		3/4	T84T-6AA-B1N

* Based on 1/2" port size

Maximum supply pressure: 290 psi
Valve function: 3/2 way
Exhaust port: 1/4 NPT
Lockable in closed position



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Norgren Excelon® Plus Series 82 and Series 84

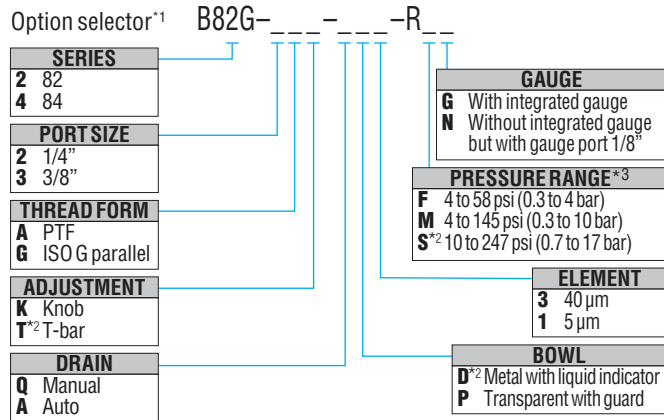
Filter/Regulators, Metal with Level Indicator



Maximum supply pressure:
290 psi
Outlet pressure range:
4 to 145 psi - Standard
Integrated pressure Gauge:
Standard

Series	Flow scfm	Port Size NPT	Part Number
Auto Drain			
82	79	1/4	B82G-2AK-AD3-RMG
		3/8	B82G-3AK-AD3-RMG
84	212*	3/8	B84G-3AK-AD3-RMG
		1/2	B84G-4AK-AD3-RMG
		3/4	B84G-6AK-AD3-RMG
Manual Drain			
82	79	1/4	B82G-2AK-QD3-RMG
		3/8	B82G-3AK-QD3-RMG
84	212*	3/8	B84G-3AK-QD3-RMG
		1/2	B84G-4AK-QD3-RMG
		3/4	B84G-6AK-QD3-RMG

* Based on 1/2" port size



*1 All models shown are for flow direction left to right. With flow direction right to left use the imi-precision.com online configurator or contact IMI Norgren
*2 Units with 246 psi (17 bar) outlet pressure range available only with T-bar adjustment and metal bowl; therefore substitute T at 7th position, D at 9th position, and S at 12th position. T-bar handle only available with 17 bar option.
*3 Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of specified ranges.

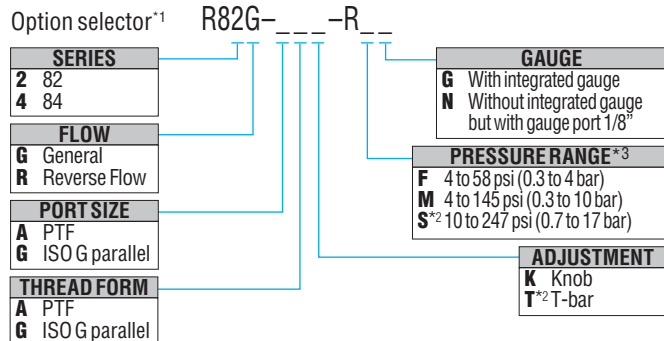
Pressure Regulators



Maximum supply pressure:
290 psi
Outlet pressure range:
4 to 145 psi - Standard
Integrated pressure Gauge:
Standard

Series	Flow scfm	Port Size NPT	Part Number
Knob Adjustment			
82	66	1/4	R82G-2AK-RMG
		3/8	R82G-3AK-RMG
84	265*	3/8	R84G-3AK-RMG
		1/2	R84G-4AK-RMG
		3/4	R84G-6AK-RMG
T-handle Adjustment			
82	66	1/4	R82G-2AT-RMG
		3/8	R82G-3AT-RMG
84	265*	3/8	R84G-3AT-RSG
		1/2	R84G-4AT-RSG
		3/4	R84G-6AT-RSG

* Based on 1/2" port size



*1 All models shown are for flow direction left to right. With flow direction right to left use the imi-precision.com online configurator or contact IMI Norgren
*2 Units with 246 psi (17 bar) outlet pressure range available only with T-bar adjustment and metal bowl; therefore substitute T at 7th position and S at 9th position. T-bar handle only available with 247 psi option.
*3 Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of specified ranges.

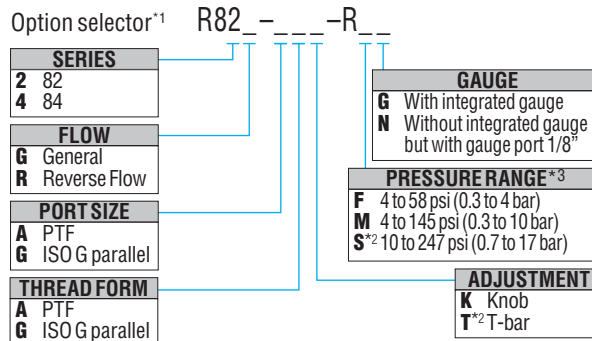
General Purpose Filters, Metal with Level Indicator



Maximum supply pressure:
290 psi
40 micron element:
Standard

Series	Flow scfm	Port Size NPT	Part Number
Manual Drain			
82	48	1/4	F82G-2AN-QD3
		3/8	F82G-3AN-QD3
84	165*	3/8	F84G-3AN-QD3
		1/2	F84G-4AN-QD3
		3/4	F84G-6AN-QD3
Auto Drain			
82	48	1/4	F82G-2AN-AD3
		3/8	F82G-3AN-AD3
84	165*	3/8	F84G-3AN-AD3
		1/2	F84G-4AN-AD3
		3/4	F84G-6AN-AD3

* Based on 1/2" port size



























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*2 Units with 247 psi outlet pressure range available only with T-bar adjustment; therefore substitute T at 7th position and S at 9th position. T-bar handle only available with 247 psi option.
*3 Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of specified ranges.

Part numbers listed are **in Stock Now** at John Henry Foster!

Series 82

Norgren Excelon® Plus Accessories

	Quickclamp		Auto Drain Kit with Metal Nut - Inch		R82 / B82 Elastomer kit		Porous Plastic Silencer 1/4" PTF
Part Number	820014-51KIT	Part Number	6000-61KIT	Part Number	FRLB82-Kit	Part Number	C/S2
	Quickclamp - Bracket Assembled		Pressure Sensing Block 1/4 PTF		Padlock Lock Out Device		Sintered Bronze Silencer 1/4 PTF
Part Number	820014-52KIT	Part Number	820016-50KIT	Part Number	820055-02KIT	Part Number	MS002A
	Neck Mount Bracket And Panel Nut		Pressure Sensing Block 1/4 NPT		Padlock		Filter Cartridge 5 micron
Part Number	820068-51KIT	Part Number	820028-50KIT	Part Number	820055-01KIT	Part Number	820038-50KIT
	Filter Unit Mounting Bracket		Port Adaptors 1/4 PTF		Digital pressure switch 51D (-14 to 145 psi)		Filter Cartridge 40 micron
Part Number	820024-50KIT	Part Number	820028-50KIT	Part Number	0860810000000000	Part Number	820038-51KIT
	Panel Mounting Nut		Port Adaptors 3/8 PTF		Pneumatic pressure switch 18D (7 to 120 psi)		Vapor Removal Carbon Filter Element
Part Number	820048-89KIT	Part Number	820015-03KIT	Part Number	0881300000000000	Part Number	820041-50KIT
	Integrated 10 Bar Gauge		Integrated 20 Bar Gauge		Pressure Switch Interface Block (18D)		Coalescing Filter Element
Part Number	820073-01KIT	Part Number	820073-02KIT	Part Number	0523109000000000	Part Number	820044-50KIT



Part numbers listed are **in Stock Now** at John Henry Foster!

Norgren Excelon® Plus
Series 82 and Series 84

Series 84
Norgren Excelon® Plus Accessories

	Quickclamp		Auto Drain Kit with Metal Nut - Inch		R84 / B84 Elastomer kit		Porous Plastic Silencer 1/4" PTF
Part Number	840014-51KIT	Part Number	6000-61KIT	Part Number	FRLB84-Kit	Part Number	C/S2
	Quickclamp - Bracket Assembled		Pressure Sensing Block 1/4 PTF		Padlock Lock Out Device		Sintered Bronze Silencer 1/4 PTF
Part Number	840014-52KIT	Part Number	840016-50KIT	Part Number	840055-02KIT	Part Number	MS002A
	Neck Mount Bracket And Panel Nut		Port Adaptors 3/8 PTF		Padlock		Filter Cartridge 5 micron
Part Number	840068-51KIT	Part Number	840015-02KIT	Part Number	840055-01KIT	Part Number	840038-50KIT
	Filter Unit Mounting Bracket		Port Adaptors 1/2 PTF		Digital pressure switch 51D (-14 to 145 psi)		Filter Cartridge 40 micron
Part Number	840024-50KIT	Part Number	840015-03KIT	Part Number	086081000000000	Part Number	840038-51KIT
	Panel Mounting Nut		Port Adaptors 3/4 PTF		Pneumatic pressure switch 18D (7 to 120 psi)		Vapor Removal Carbon Filter Element
Part Number	840048-89KIT	Part Number	840015-04KIT	Part Number	088130000000000	Part Number	840041-50KIT
	Integrated 10 Bar 140 psi Gauge		Integrated 20 Bar 300 psi Gauge		Pressure Switch Interface Block (18D)		Coalescing Filter Element
Part Number	840073-01KIT	Part Number	840073-02KIT	Part Number	033771700000000	Part Number	840044-50KIT
	Full Flow Porting Block 3/4 PTF		Full Flow Porting Block 3/8 PTF				
Part Number	840028-68KIT	Part Number	840028-50KIT				



Part numbers listed are **in Stock Now** at John Henry Foster!

Excelon® Plus Modular System

Filter/regulator - Lubricator Combination Units



Maximum supply pressure:
290 psi
40 micron element:
Standard

Option selector*1 BL82-

SERIES		THREAD FORM	
2	82	A	PTF
4	84	G	ISO G parallel
PORT SIZE		UNITS	
2	1/4"	1	Shut-off valve and Gauge and brackets
3	3/8"	5	Gauge and bracket
UNITS			
0	Filter/Regulator w. auto drain, Micro fog lubricator, Polycarbonate bowls		
1	Filter/Regulator w. auto drain, Oil fog lubricator, Polycarbonate bowls		
2	Filter/Regulator w. manual drain, Micro fog lubricator, Polycarbonate bowls		
3	Filter/Regulator w. manual drain, Oil fog lubricator, Polycarbonate bowls		
5	Filter/Regulator w. auto drain, Micro fog lubricator, Metal bowls		
6	Filter/Regulator w. auto drain, Oil fog lubricator, Metal bowls		
7	Filter/Regulator w. manual drain, Micro fog lubricator, Metal bowls		
8	Filter/Regulator w. manual drain, Oil fog lubricator, Metal bowls		

F/R-L Combination Units - Metal Bowls with Level Indicator, Micro Fog Lubricators

Series	Flow scfm	Port Size NPT	Part Number	Assembly Includes				
				Shut off	Clamp with bracket	Filter/regulator	Clamp with bracket	Lubricator
Manual Drain								
82	51*	1/4	BL82-271A	T82T-2AA-B1N	820014-52KIT	B82G-2AK-QD3-RMG	820014-52KIT	L82M-2AP-EDN
		3/8	BL82-371A	T82T-3AA-B1N	820014-52KIT	B82G-3AK-QD3-RMG	820014-52KIT	L82M-3AP-EDN
84	155^	3/8	BL84-371A	T84T-3AA-B1N	840014-52KIT	B84G-3AK-QD3-RMG	840014-52KIT	L84M-3AP-EDN
		1/2	BL84-471A	T84T-4AA-B1N	840014-52KIT	B84G-4AK-QD3-RMG	840014-52KIT	L84M-4AP-EDN
		3/4	BL84-671A	T84T-6AA-B1N	840014-52KIT	B84G-6AK-QD3-RMG	840014-52KIT	L84M-6AP-EDN
Auto Drain								
82	51*	1/4	BL82-251A	T82T-2AA-B1N	820014-52KIT	B82G-3AK-AD3-RMG	820014-52KIT	L82M-2AP-EDN
		3/8	BL82-351A	T82T-3AA-B1N	820014-52KIT	B82G-4AK-AD3-RMG	820014-52KIT	L82M-3AP-EDN
84	155^	3/8	BL84-351A	T84T-3AA-B1N	840014-52KIT	B84G-3AK-AD3-RMG	840014-52KIT	L84M-3AP-EDN
		1/2	BL84-451A	T84T-4AA-B1N	840014-52KIT	B84G-4AK-AD3-RMG	840014-52KIT	L84M-4AP-EDN
		3/4	BL84-671A	T84T-6AA-B1N	840014-52KIT	B84G-6AK-AD3-RMG	840014-52KIT	L84M-6AP-EDN

* Based on lubricator flow

^ Based on 1/2" port size lubricator

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About John Henry Foster

John Henry Foster Company is a full-line fluid power distributor with territories covering parts of Missouri and Illinois and is the Midwest leader in fluid power sales. We have been serving our customers in Missouri and Illinois for over 75 years! Please visit www.jhf.com to learn more about us.

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