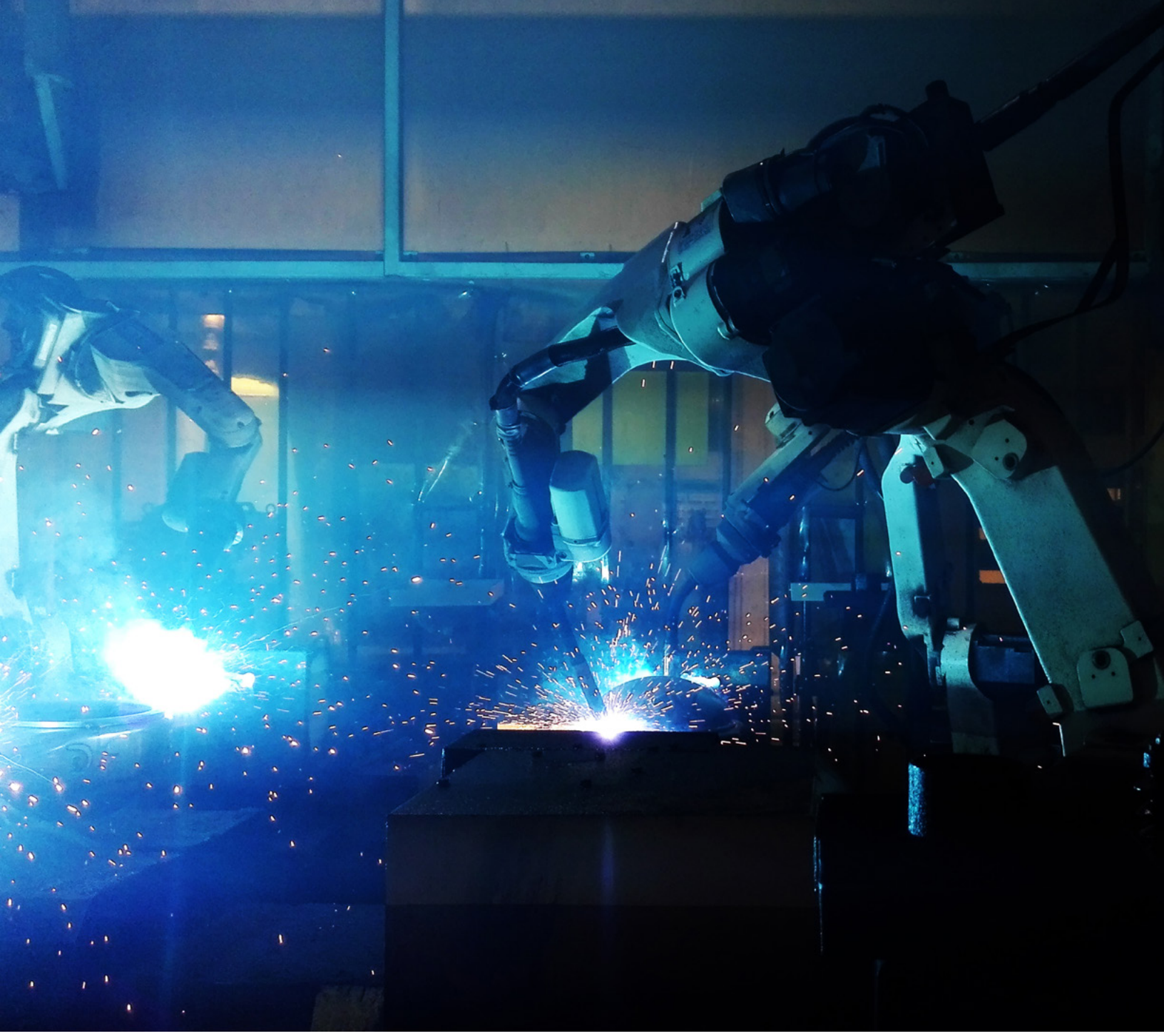

Automation CRN Catalog

Parker Canada Division

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Table of Contents

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CANADIAN REGISTRATION NUMBER LOCATOR

CRN

In order to legally install and operate a variety of pressure retaining systems in Canada, a CRN may be required on parts being used. Parker Canada wants to ensure your purchase upholds a high standard of safety and quality.

Locate the accompanying CRN for purchased Parker parts. Look for products that have an existing CRN; *parker.com/crn.*

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Approved Working Pressure

Type	Product Family Approved	CRN #'s	PSI	Bar
Filter Regulators	P31EB	0H19559	250	17.2
Filter Regulators	P32EB	0H19559	250	17.2
Filter Regulators	P33EA	0H19559	250	17.2
Filter Regulators	PB12	0H19106	300	20.7
Filter Regulators	PB558	0H19106	300	20.7
Filters	F30	0E19063	200	13.8
Filters	F35 / 35F	0E19063	250	17.2
Filters	F43 / 43F	0E19063	250	17.2
Filters	P31FB	0E19433	200	13.8
Filters	P32FB	0E19433	200	13.8
Filters	P33FA	0E19433	200	13.8
Filters	P3YF / M90	0E19132	160	11
Filters	P3YFA / F90	0E19132	160	11
Filters	PF10	0E19116	395	27.2
Filters	PF11	0E19116	300	20.7
Filters	PF501	0E19116	300	20.7
Filters	PF504	0E19116	300	20.7
Lubricators	P31LB	0H19559	250	17.2
Lubricators	P32LB	0H19559	250	17.2
Lubricators	P33LA	0H19559	250	17.2
Lubricators	PL10	0H19106	140	9.7
Pressure Regulators	09R	0C17071	300	20.7
Pressure Regulators	54R	0C17071	300	20.7
Pressure Regulators	PR11	0C18891	300	20.7
Pressure Regulators	PR354	0C18891	300	20.7
Pressure Regulators	R119	0C18449	125	8.6
Pressure Regulators	R21 / 52R	0C19078	200	13.8
Pressure Regulators	R30	0C19078	200	13.8
Pressure Regulators	R31	0C19078	200	13.8
Pressure Regulators	R40 and R41	0C17071	300	20.7
Pressure Regulators	P31RB	0C19560	145	10
Pressure Regulators	P32RB	0C19560	145	10
Pressure Regulators	P33RA	0C19560	145	10
Pressure Regulators	P3YR	0C20362	160	11
Valves	EZ	0C19618	290	20
Valves	LV	0C19618	290	20
Valves	P2LAX	0C19076	232	16
Valves	P2LBX	0C19076	232	16
Valves	P2LCX	0C19076	174	12
Valves	P2LDX	0C19076	174	12
Valves	P3YV / V90	0C20362	254	17.5
Valves	P3YT / E90	0C20362	181	12.5

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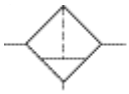
P31 Particulate Filter – Mini

CRN: 0E19433

- Integral 1/4" ports (NPT, BSPP & BSPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminum construction
- One hand operation for easy element cartridge removal
- Positive bayonet latch to ensure correct & safe fitting



Manual drain

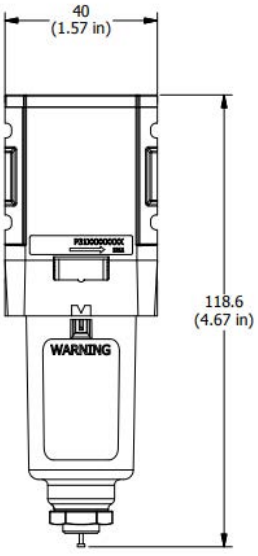
Pulse drain

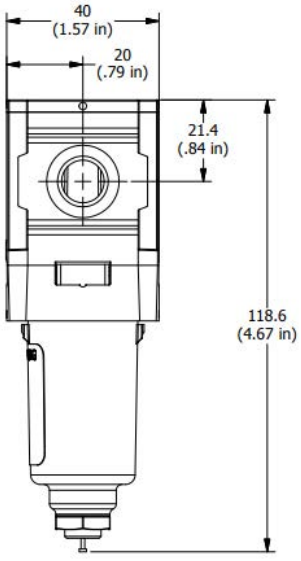
Port size	Description ‡	Part number
1/4"	5 micron, metal bowl no sight glass, tire drain	**P31FB92EMTN**

Operating information

CRN Registered Max Working Pressure:	200 psi (13.8 bar)
Supply pressure (max): Metal bowl	250 psig (17 bar)
Operating temperature: Metal bowl	14°F to 150°F (-10°C to 65.5°C)
Standard filtration:	5 micron
Flow capacity*:	25 scfm (12 dm^3/s, ANR)
Useful retention†:	0.4 US oz. (12 cm^3)
Weight:	0.24 lb (0.11 kg)

* Inlet pressure 91.3 psig (6.3 bar). Pressure drop 4.9 psig (0.34 bar).
† Useful retention refers to volume below the quiet zone baffle.





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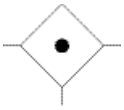
P31 Coalescing and Adsorber Filters – Mini

CRN: 0E19433

- Integral 1/4" ports (NPT, BSPP & BSPT)
- Removes liquid aerosols and sub micron particles
- Oil free air for critical applications, such as air gauging, pneumatic instrumentation and control
- Differential Pressure Indicator (DPI) standard on coalescing filters
- Positive bayonet latch to ensure correct and safe fitting
- Adsorbing activated carbon element removes oil vapors and most hydrocarbons

Note: To optimize the life of coalescing element, it is advisable to install a P31F pre-filter with a 5 micron element upstream of the coalescing filter.

To optimize the life of an Adsorber it is advisable to install a P31 Coalescing Filter upstream of the Adsorber. Adsorber element should be replaced approximately every 1000 hours of service.



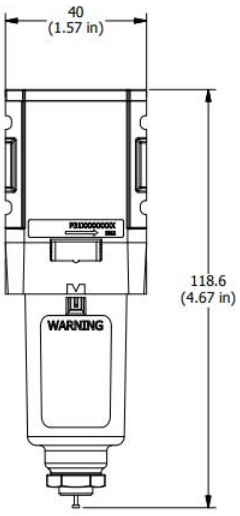
Port size	Description ‡	Element	Part number
1/4"	Metal bowl no sight glass, tire drain	5 micron	**P31FB92DMTN**

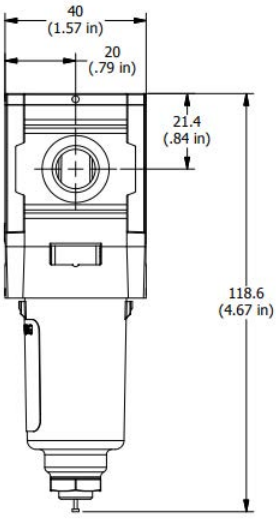
Operating information

CRN Registered Max Working Pressure:	200 psi (13.8 bar)
Supply pressure (max):	
Metal bowl w/o DPI	250 psig (17 bar)
Operating temperature:	
Metal bowl	14°F to 150°F (-10°C to 65.5°C)
Standard filtration:	1.0 and 0.01 micron
Adsorber	Max. oil carryover (ppm w/w) 0.003 @ 70°F (21°C)
Flow capacity*:	
1.0 micron coalescing 0.01 micron coalescing Activated carbon adsorber	12 scfm (5.5 dm^3/s, ANR) 7.5 scfm (3.6 dm^3/s, ANR) 12.7 scfm (6 dm^3/s, ANR)
Useful retention†:	0.4 US oz. (12 cm^3)
Weight:	0.24 lb (0.11 kg)

* Inlet pressure 91.3 psig (6.3 bar). Pressure drop 3 psig (0.2 bar), saturated element.

† Useful retention refers to volume below the quiet zone baffle.





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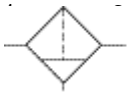
P32 Particulate Filter – Compact

CRN: 0E19433

- Integral 1/4", 3/8" or 1/2" ports (NPT, BSPP & BSPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminum construction
- Positive bayonet latch to ensure correct & safe fitting



Manual drain

Auto drain

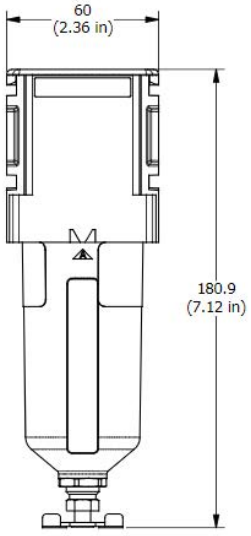
Port size	Description ‡	Part number
1/4"	5 micron, metal bowl no sight glass, draincock	**P32FB92EMDN**
3/8"	5 micron, metal bowl no sight glass, draincock	**P32FB93EMDN**
1/2"	5 micron, metal bowl no sight glass, draincock	**P32FB94EMDN**

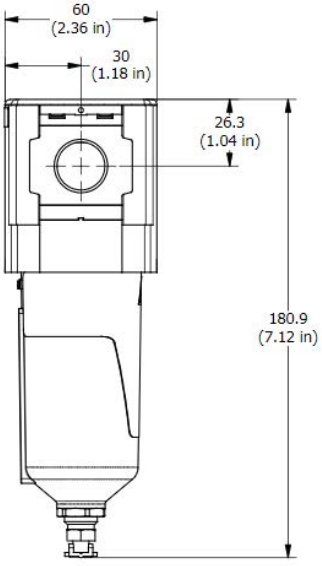
Operating information

CRN Registered Max Working Pressure:		200 psi (13.8 bar)
Supply pressure (max): Metal bowl		250 psig (17 bar)
Operating temperature: Metal bowl		-13°F to 150°F (-25°C to 65.5°C)
Standard filtration:		5 micron
Flow capacity*:	1/4	50 scfm (24 dm^3/s, ANR)
	3/8	78 scfm (37 dm^3/s, ANR)
	1/2	82 scfm (39 dm^3/s, ANR)
Useful retention†:		1.7 US oz. (51 cm^3)
Weight:		0.62 lb (0.28 kg)

* Inlet pressure 91.3 psig (6.3 bar). Pressure drop 4.9 psig (0.34 bar).
† Useful retention refers to volume below the quiet zone baffle.

Air quality:
Within ISO 8573-1: 1991 Class 3 (Particulates)
Within ISO 8573-1: 2001 Class 6 (Particulates)





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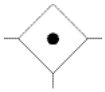
P32 Coalescing and Adsorber Filters – Compact

CRN: 0E19433

- Integral 1/4", 3/8" or 1/2" ports (NPT, BSPP & BSPT)
- Removes liquid aerosols and sub micron particles
- Oil free air for critical applications, such as air gauging, pneumatic instrumentation and control
- Differential Pressure Indicator (DPI) standard on Coalescing Filters
- Positive bayonet latch to ensure correct & safe fitting
- Adsorbing activated carbon element removes oil vapors and most hydrocarbons

Note: To optimize the life of coalescing element, it is advisable to install a P32F pre-filter with a 5 micron element upstream of the coalescing filter.
To optimize the life of an Adsorber it is advisable to install a P32 Coalescing Filter upstream of the Adsorber. Adsorber element should be replaced approximately every 1000 hours of service.

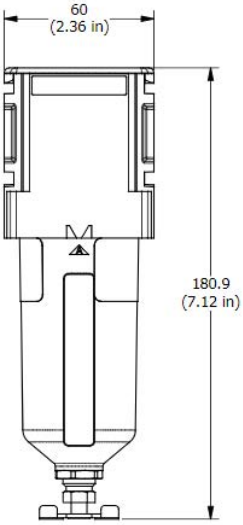


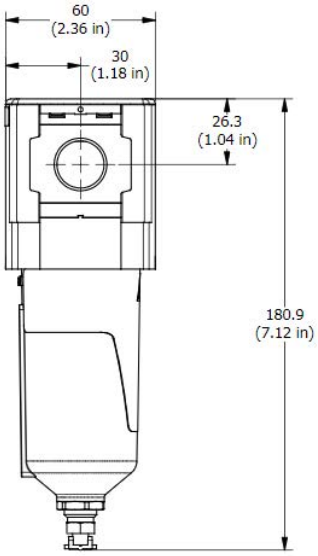
Port size	Description ‡	Element	Part number
1/4"	Metal bowl no sight glass, draincock	5 micron	**P32FB92DMDN**
3/8"	Metal bowl no sight glass, draincock	5 micron	**P32FB93DMDN**
1/2"	Metal bowl no sight glass, draincock	5 micron	**P32FB94DMDN**

Operating information

CRN Registered Max Working Pressure:	200 psi (13.8 bar)
Supply pressure (max):	
Metal bowl w/o DPI	250 psig (17 bar)
Operating temperature:	
Metal bowl	-13°F to 150°F (-25°C to 65.5°C)
Standard filtration:	1.0 and 0.01 micron
Adsorber	Max. oil carryover (ppm w/w) 0.003 @ 70°F (21°C)
Flow capacity*:	
1.0 micron coalescing	53 scfm (25 dm^3/s, ANR)
0.01 micron coalescing	36 scfm (17 dm^3/s, ANR)
Activated carbon adsorber	85 scfm (40 dm^3/s, ANR)
Useful retention†:	1.7 US oz. (51 cm^3)
Weight:	0.71 lb (0.32 kg)

* Inlet pressure 91.3 psig (6.3 bar). Pressure drop 3 psig (0.2 bar), saturated element.
† Useful retention refers to volume below the quiet zone baffle.





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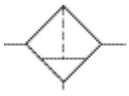
P33 Particulate Filter – Standard

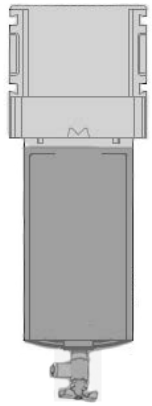
- Integral 1/2" or 3/4" ports (NPT, BSPP & BSPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminum construction
- Positive bayonet latch to ensure correct & safe fitting



Manual drain

Auto drain

CRN: 0E19433



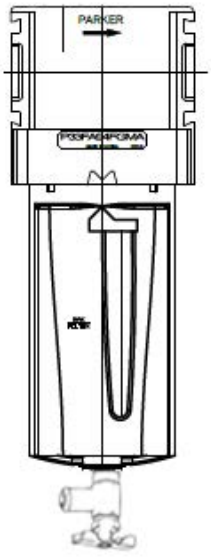
Port size	Description ‡	Part number
1/2"	5 micron, metal bowl no sight glass, draincock	**P33FA94EMDN**
3/4"	5 micron, metal bowl no sight glass, draincock	**P33FA96EMDN**

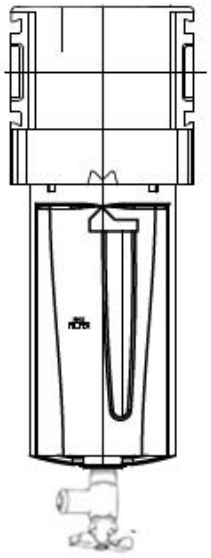
Operating information

CRN Registered Max Working Pressure:		200 psi (13.8 bar)
Supply pressure (max):		
Metal bowl		250 psig (17 bar)
Operating temperature:		
Metal bowl		-13°F to 150°F (-25°C to 65.5°C)
Standard filtration:		5 micron
Flow capacity*:	1/2	85 scfm (40 dm^3/s, ANR)
	3/4	102 scfm (48 dm^3/s, ANR)
Useful retention†:		2.8 US oz. (85 cm^3)
Weight:		1.01 lb (0.46 kg)

* Inlet pressure 91.3 psig (6.3 bar). Pressure drop 4.9 psig (0.34 bar).
† Useful retention refers to volume below the quiet zone baffle.

Air quality: Within ISO 8573-1: 1991 Class 3 (Particulates)
Within ISO 8573-1: 2001 Class 6 (Particulates)





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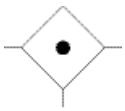
P33 Coalescing and Adsorber Filters – Standard

CRN: 0E19433

- Integral 1/2" or 3/4" ports (NPT, BSPP & BSPT)
- Removes liquid aerosols and sub micron particles
- Oil free air for critical applications, such as air gauging, pneumatic instrumentation and control
- Differential Pressure Indicator (DPI) standard on Coalescing Filters
- Positive bayonet latch to ensure correct & safe fitting
- Adsorbing activated carbon element removes oil vapors and most hydrocarbons

Note: To optimize the life of coalescing element, it is advisable to install a P33F pre-filter with a 5 micron element upstream of the coalescing filter.

To optimize the life of an Adsorber it is advisable to install a P33 Coalescing Filter upstream of the Adsorber. Adsorber element should be replaced approximately every 1000 hours of service.



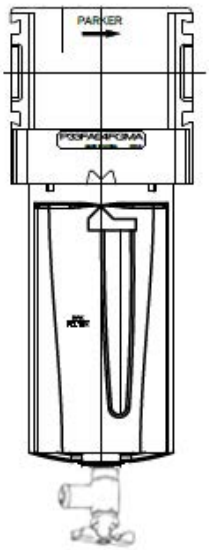
Port size	Description ‡	Element	Part number
1/2"	Metal bowl no sight glass, draincock	5 micron	**P33FA94DMDN**
3/4"	Metal bowl no sight glass, draincock	5 micron	**P33FA96DMDN**

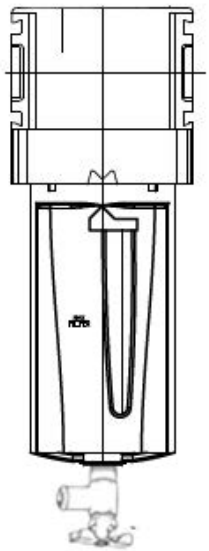
Operating information

CRN Registered Max Working Pressure:	200 psi (13.8 bar)
Supply pressure (max):	
Metal bowl w/o DPI	250 psig (17 bar)
Operating temperature:	
Metal bowl	-13°F to 150°F (-25°C to 65.6°C)
Standard filtration:	1.0 and 0.01 micron
Adsorber	Max. oil carryover (ppm w/w) 0.003 @ 70°F (21°C)
Flow capacity*:	
1.0 micron coalescing	68 scfm (32 dm^3/s, ANR)
0.01 micron coalescing	42 scfm (20 dm^3/s, ANR)
Activated carbon adsorber	72 scfm (34 dm^3/s, ANR)
Useful retention†:	2.8 US oz. (85 cm^3)
Weight:	1.10 lb (0.50 kg)

* Inlet pressure 91.3 psig (6.3 bar). Pressure drop 3 psig (0.2 bar), saturated element.

† Useful retention refers to volume below the quiet zone baffle.





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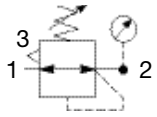
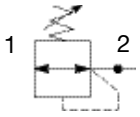
P31 Regulators – Mini

- Integral 1/4" ports (NPT, BSPP & BSPT)
- Robust but lightweight aluminum construction
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Relieving & non-relieving types
- Non-rising knob

CRN: 0C19560



Self relieving regulator with gauge



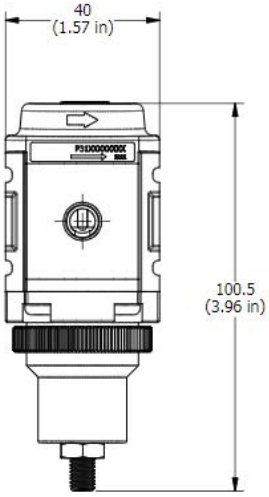
Non-relieving regulator

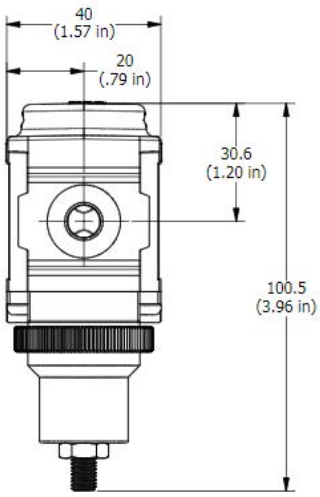
Port size	Description (relieving)	Part number
1/4"	0-116psi, metal bonnet, relieving	**P31RB92BMNM**

Operating information

CRN Registered Max Working Pressure:		145 psi (10 bar)
Flow capacity*:	1/4	68 scfm (32 dm^3/s, ANR)
Operating temperature†:		-4°F to 150°F (-20°C to 65.5°C)
Supply pressure (max):		300 psig (20 bar)
Adjusting range pressure:		30 psig (0-2 bar) 60 psig (0-4 bar) 125 psig (0-8 bar) 232 psig (0-16 bar)
Gauge port (2 each)**		1/8 BSPP, BSPT, NPT
Weight:		0.37 lb (0.17 kg)

* Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar) and 14.5 psig (1 bar) pressure drop.
** Non-gauge option only.
† Units with square gauges: 5°F to 150°F (-15°C to 65.5°C)





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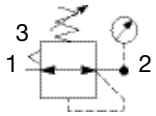
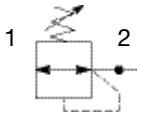
P32 Regulators – Compact

- Integral 1/4", 3/8" or 1/2" ports (NPT, BSPP & BSPT)
- Robust but lightweight aluminum construction
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Relieving & non-relieving types
- Regulator will reverse flow as standard
- Non-rising knob
- Available T-handle



Self relieving regulator with gauge



Non-relieving regulator

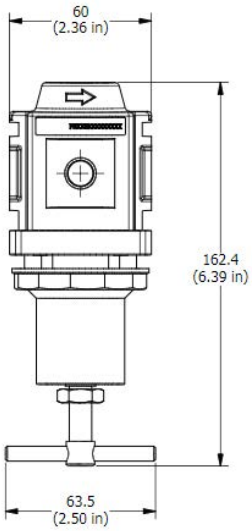
Port size	Description (relieving)	Part number
1/4"	0-125psi, Metal Bonnet, T-handle, relieving	**P32RB92BMNM**
3/8"	0-125psi, Metal Bonnet, T-handle, relieving	**P32RB93BNNM**
1/2"	0-125psi, Metal Bonnet, T-handle, relieving	**P32RB94BNNM**

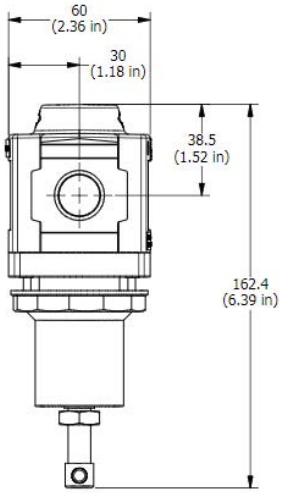
CRN: 0C19560

Operating information

CRN Registered Max Working Pressure:	145 psi (10 bar)
Flow capacity*:	
1/4	148 scfm (70 dm^3/s, ANR)
3/8, 1/2	165 scfm (78 dm^3/s, ANR)
Operating temperature:	-13°F to 150°F (-25°C to 65.5°C)
Supply pressure (max):	300 psig (20 bar)
Adjusting range pressure:	30 psig (0-2 bar) 60 psig (0-4 bar) 125 psig (0-8 bar) 250 psig (0-17 bar)
Gauge port (2 each)	1/4 NPT, BSPP, BSPT
Weight:	0.90 lb (0.41 kg)

* Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar) and 14.5 psig (1 bar) pressure drop.





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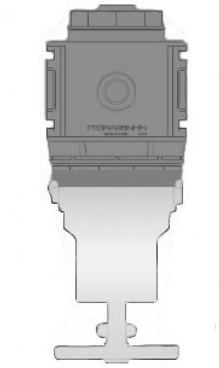
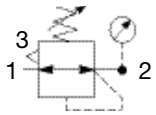
P33 Regulators – Standard

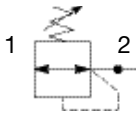
CRN: 0C19560

- Integral 1/2" or 3/4" ports (NPT, BSPP & BSPT)
- Robust but lightweight aluminum construction
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Relieving & non-relieving types
- Non-rising knob





Self relieving regulator with gauge



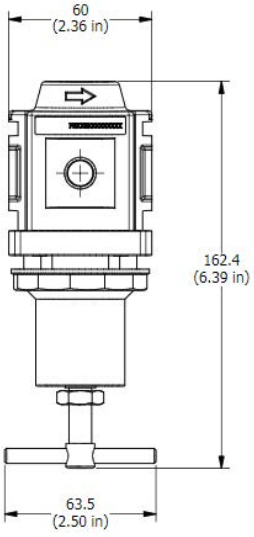
Non-relieving regulator

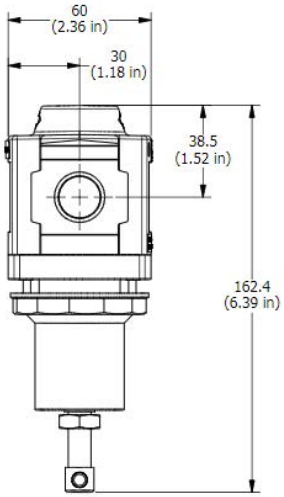
Port size	Description (relieving)	Part number
1/2"	5-125psi, metal bonnet, T-handle, relieving	**P33RA94BMNM**
3/4"	5-125psi, metal bonnet, T-handle, relieving	**P33RA96BMNM**

Operating information

CRN Registered Max Working Pressure:	145 psi (10 bar)
Flow capacity*:	
1/2, 3/4	233 scfm (110 dm^3/s, ANR)
Operating temperature:	-13°F to 150°F (-25°C to 65.5°C)
Supply pressure (max):	300 psig (20 bar)
Adjusting range pressure:	0 to 30 psig (0 to 2 bar) 0 to 60 psig (0 to 4 bar) 0 to 125 psig (0 to 8 bar) 0 to 250 psig (0 to 17 bar)
Gauge port (2 each):	1/4 NPT, BSPP, BSPT
Weight:	1.37 lb (0.62 kg)

* Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar) and 14.5 psig (1 bar) pressure drop.





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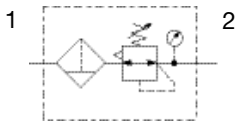
P31 Filter / Regulators – Mini

- Integral 1/4" ports (NPT, BSPP & BSPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminum construction
- Positive bayonet latch to ensure correct & safe fitting
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation

CRN: 0H19559



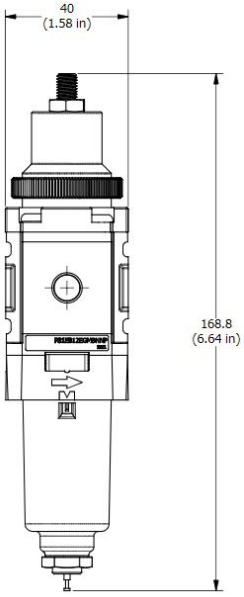
Port size	Description (relieving)	Bowl / drain type ‡	Part number
1/4"	0-116psi, 5 micron, metal bonnet, metal bowl no sight glass, tire drain		**P31EB92EMTBMNM**

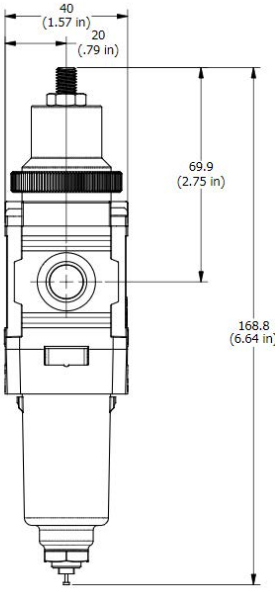
Operating information

CRN Registered Max Working Pressure:	250 psi (17.2 bar)
Flow capacity*: 1/4	73 scfm (35 dm³/s, ANR)
Operating temperature‡:	
Metal bowl	14°F to 150°F (-10°C to 65.5°C)
Supply pressure (max):	
Metal bowl	250 psig (17 bar) 5 micron
Standard filtration	
Useful retention†:	0.4 US oz. (12 cm³)
Adjusting range pressure:	0 to 30 psig (0 to 2 bar) 0 to 60 psig (0 to 4 bar) 0 to 125 psig (0 to 8 bar) 0 to 250 psig (0 to 17 bar)
Gauge port (2 each)**:	1/8 NPT, BSPP, BSPT
Weight:	0.42 lb (0.19 kg)

* Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar) and 14.5 psig (1 bar) pressure drop.
** Non-gauge option only.
‡ Units with square gauges: 5°F to 150°F (-15°C to 65.5°C)
† Useful retention refers to volume below the quiet zone baffle.

Air quality: Within ISO 8573-1: 1991 Class 3 (Particulates)
Within ISO 8573-1: 2001 Class 6 (Particulates)





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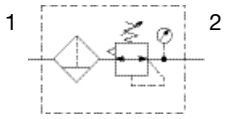
P32 Filter / Regulators – Compact

- Integral 1/4", 3/8" or 1/2" ports (NPT, BSPP & BSPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminum construction
- Positive bayonet latch to ensure correct & safe fitting
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation



Port size	Description (relieving)	Part number
1/4"	0-125psi, 5 micron metal bonnet, T handle, metal bowl no sight glass, draincock	**P32EB92EMDBMNM**
3/8"	0-125psi, 5 micron metal bonnet, T handle, metal bowl no sight glass, draincock	**P32EB93EMDBMNM**
1/2"	0-125psi, 5 micron metal bonnet, T handle, metal bowl no sight glass, draincock	**P32EB94EMDBMNM**

CRN: 0H19559

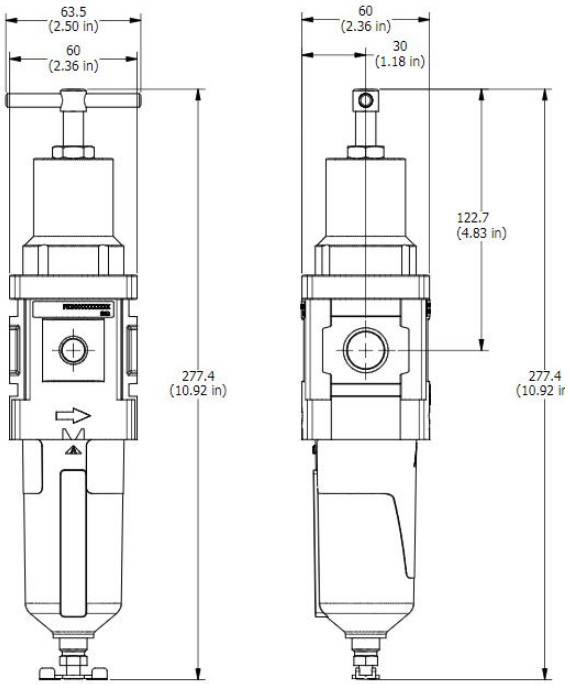
Operating information

CRN Registered Max Working Pressure:		250 psi (17.2 bar)
Flow capacity*:	1/4	148 scfm (70 dm3/s, ANR)
	3/8	158 scfm (75 dm3/s, ANR)
	1/2	164 scfm (77 dm3/s, ANR)
Operating temperature: Metal bowl		-13°F to 150°F (-25°C to 65.5°C)
Supply pressure (max): Metal bowl		250 psig (17 bar)
Standard filtration:		5 micron
Useful retention†:		1.7 US oz. (51 cm^3)
Adjusting range pressure:		0 to 30 psig (0 to 2 bar) 0 to 60 psig (0 to 4 bar) 0 to 125 psig (0 to 8 bar) 0 to 250 psig (0 to 17 bar)
Gauge port (2 each):		1/4 NPT, BSPP, BSPT
Weight:		1.17 lb (0.53 kg)

* Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar) and 14.5 psig (1 bar) pressure drop.

† Useful retention refers to volume below the quiet zone baffle.

Air quality: Within ISO 8573-1: 1991 Class 3 (Particulates)
Within ISO 8573-1: 2001 Class 6 (Particulates)



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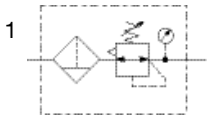
P33 Filter / Regulators – Standard

- Integral 1/2" or 3/4" ports (NPT, BSPP & BSPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminum construction
- Positive bayonet latch to ensure correct & safe fitting
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation

CRN: 0H19559



Port size	Description / relieving	Bowl / drain type ‡	Part number
1/2"	5-125psi, 5 micron, metal bonnet, no sigh glass, draincock	Metal	**P33EA94EMDBMNM**
3/4"	5-125psi, 5 micron, metal bonnet, no sigh glass, draincock	Metal	**P33EA96EMDBMNM**

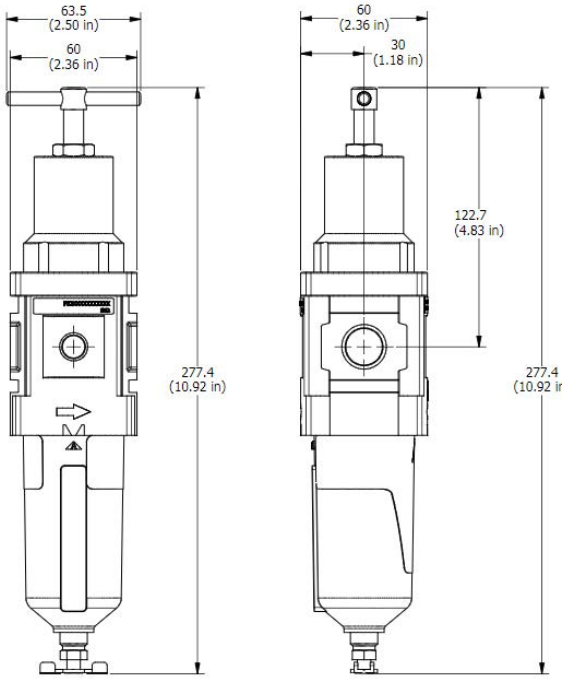
Operating information

CRN Registered Max Working Pressure:		250 psi (17.2 bar)
Flow capacity*:	1/2	200 scfm (94 dm³/s, ANR)
	3/4	235 scfm (109 dm³/s, ANR)
Operating temperature: Metal bowl		-13°F to 150°F (-25°C to 65.5°C)
Supply pressure (max): Metal bowl		250 psig (17 bar) 250 psig (17 bar)
Standard filtration:		5 micron
Useful retention†:		2.8 US oz. (85 cm³)
Adjusting range pressure:		0 to 30 psig (0 to 2 bar) 0 to 60 psig (0 to 4 bar) 0 to 125 psig (0 to 8 bar) 0 to 250 psig (0 to 17 bar)
Gauge port (2 each):		1/4 NPT, BSPP, BSPT
Weight:		1.87 lbs (0.85 kg)

* Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar) and 14.5 psig (1 bar) pressure drop.

† Useful retention refers to volume below the quiet zone baffle.

Air quality: Within ISO 8573-1: 1991 Class 3 (Particulates)
Within ISO 8573-1: 2001 Class 6 (Particulates)



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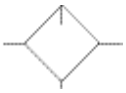
P31 Lubricators – Mini

- Integral 1/4" ports (NPT, BSPP & BSPT)
- Robust but lightweight aluminum construction
- Proportional oil delivery over a wide range of air flows
- Finger tip ratchet control for precise oil drip rate adjustment

CRN: 0H19559



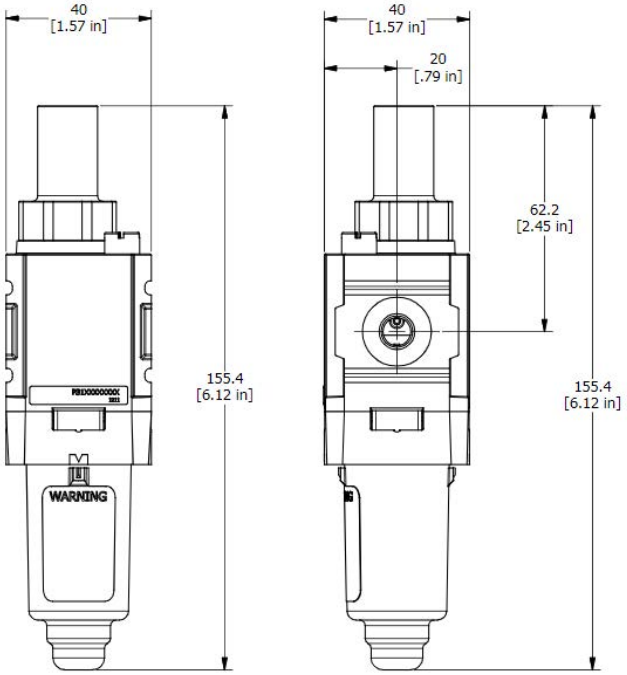
Lubricator with drain

Port size	Description ‡	Part number
1/4"	Metal bowl no drain, metal fill top	**P31LB92MMNN**

Operating information

CRN Registered Max Working Pressure:	250 psi (17.2 bar)
Flow capacity*: 1/4	52 scfm (25 dm^3/s, ANR)
Operating temperature: Metal bowl	14°F to 150°F (-10°C to 65.5°C)
Supply pressure (max): Metal bowl	250 psig (17 bar)
Bowl capacity:	0.6 US oz. (18 cm^3)
Weight:	0.29 lb (0.13 kg)

* Inlet pressure 91.3 psig (6.3 bar). Pressure drop 4.9 psig (0.34 bar).



Suggested Lubricant ..... **F442 Oil**

Petroleum based oil of 100 to 200 SUS viscosity at 100°F (38°C) and an aniline point greater than 200°F (93°C)

(DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR SYNTHETIC OILS.)

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P32 Lubricators – Compact

- Integral 1/4", 3/8" or 1/2" ports (NPT, BSPP & BSPT)
- Robust but lightweight aluminum construction
- Proportional oil delivery over a wide range of air flows
- Finger tip ratchet control for precise oil drip rate adjustment
- Fill from top under system pressure

Lubricator
with drain

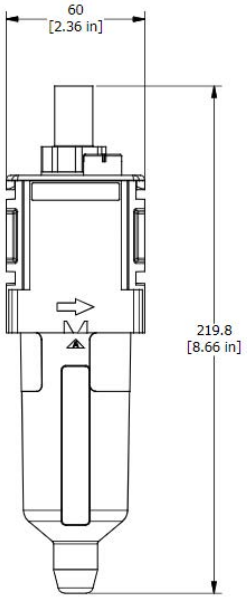
CRN: 0H19559

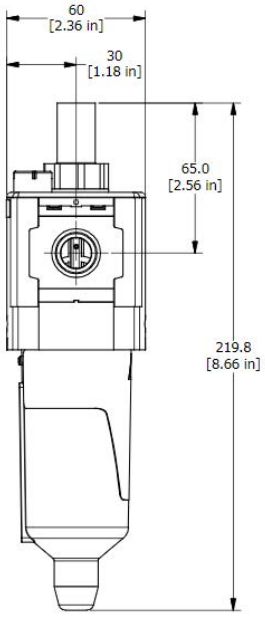
Port size	Description ‡	Part number
1/4"	Metal bowl no drain, metal fill top	**P32LB92CMNN**
3/8"	Metal bowl no drain, metal fill top	**P32LB93CMNN**
1/2"	Metal bowl no drain, metal fill top	**P32LB94CMNN**

Operating information

CRN Registered Max Working Pressure:	250 psi (17.2 bar)
Flow capacity*:	
1/4	38 scfm (17 dm^3/s, ANR)
3/8	70 scfm (33 dm^3/s, ANR)
1/2	90 scfm (42 dm^3/s, ANR)
Operating temperature:	
Metal bowl	14°F to 150°F (-10°C to 65.5°C)
Supply pressure (max):	
Metal bowl	250 psig (17 bar)
Bowl capacity:	4.09 US oz. (121 cm^3)
Weight:	0.68 lb (0.31 kg)

* Inlet pressure 91.3 psig (6.3 bar). Pressure drop 4.9 psig (0.34 bar).





Suggested Lubricant .....**F442 Oil**

Petroleum based oil of 100 to 200 SUS viscosity at 100°F (38°C) and an aniline point greater than 200°F (93°C)

(DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR SYNTHETIC OILS.)

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P33 Lubricators – Standard

- Integral 1/2" or 3/4" ports (NPT, BSPP & BSPT)
- Robust but lightweight aluminum construction
- Proportional oil delivery over a wide range of air flows
- Finger tip ratchet control for precise oil drip rate adjustment
- Fill from top under system pressure

CRN: 0H19559

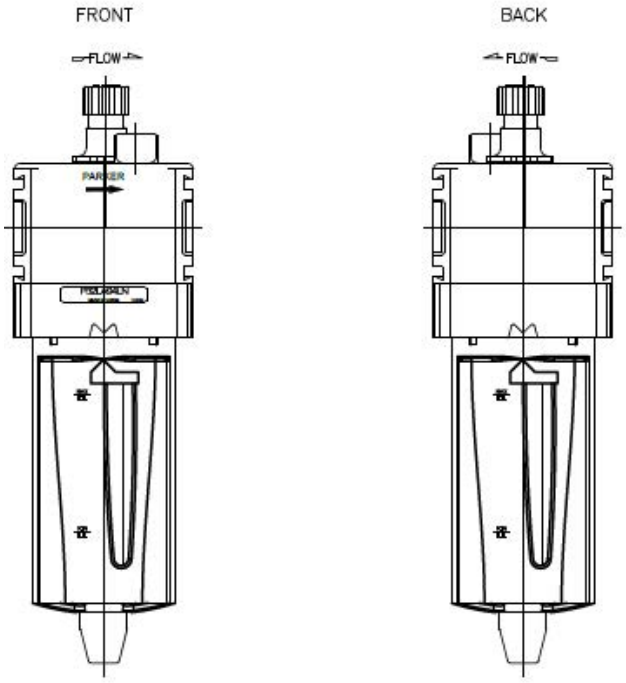
Lubricator
with drain

Port size	Description ‡	Part number
1/2"	Metal bowl no drain, metal fill top	**P33LA94CMNN**
3/4"	Metal bowl no drain, metal fill top	**P33LA96CMNN**

Operating information

CRN Registered Max Working Pressure:	250 psi (17.2 bar)
Flow capacity*:	
1/2	110 scfm (52 dm^3/s, ANR)
3/4	150 scfm (71 dm^3/s, ANR)
Operating temperature:	
Metal bowl	14°F to 150°F (-10°C to 65.5°C)
Supply pressure (max):	
Metal bowl	250 psig (17 bar)
Bowl capacity:	6.1 US oz. (181 cm^3)
Weight:	1.04 lb (0.47 kg)

* Inlet pressure 91.3 psig (6.3 bar). Pressure drop 4.9 psig (0.34 bar).



Suggested Lubricant .....**F442 Oil**

Petroleum based oil of 100 to 200 SUS viscosity at 100°F (38°C) and an aniline point greater than 200°F (93°C)

(DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR SYNTHETIC OILS.)

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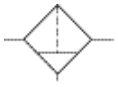
P3Y Particulate Filter

- Integral 3/4" or 1" ports (NPT & BSPP)
- High efficiency particulate element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminium construction
- Low temperature -40°C (-40°F) with combined manual / semi-auto drain as standard

CRN: 0E19132



Manual drain

Auto drain

Port size	Description	Part number
3/4"	Combined manual /semi-auto drain	**P3YFA96ESCN**
3/4"	Auto drain	**P3YFA96ESAN**
1"	Combined manual /semi auto drain	**P3YFA98ESCN**
1"	Auto drain	**P3YFA98ESAN**

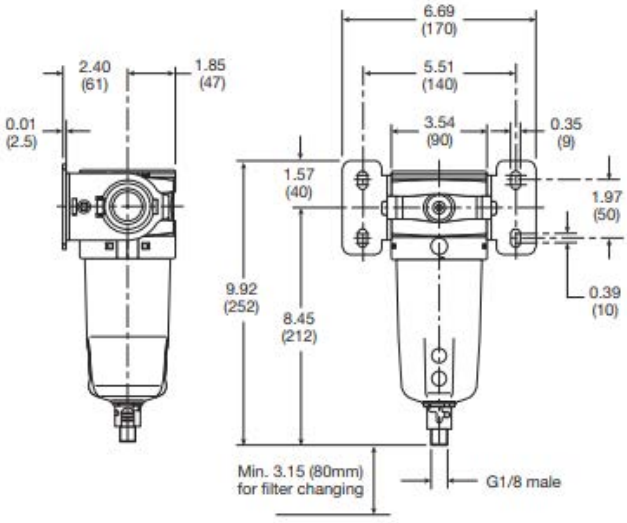
Operating information

CRN Registered Max Working Pressure:		160 psi (11 bar)
Supply pressure (max)*:		254 psig (17.5 bar)
Operating temperature:		
Auto drain		14°F to 140°F (-10°C to 60°C)
Combined drain		-40°F to 140°F (-40°C to 60°C)
Standard filtration		5 micron
Manual / semi-auto drain:		Closed at 11.6 psig (0.8 bar) G1/8 thread male
Auto drain bowl pressure:		Closed at 11.6 psig (0.8 bar)
Bowl capacity:		4.4 US oz. (130 cm^3)
Standard filtration:		5 micron
Flow capacity†:	3/4"	170 scfm (80.2 dm^3/s, ANR)
	1"	170 scfm (80.2 dm^3/s, ANR)
Fluid:		Compressed air
Weight:		1.98 lb (0.9 kg)

† Inlet pressure 91.4 psig (6.3 bar) inlet pressure and 7.3 psig (0.5 bar) pressure drop.

* Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C).

Air quality:
Within ISO 8573-1: 1991 Class 3 and 5 (Particulates)
Within ISO 8573-1: 2001 Class 6 and 7 (Particulates)



Inches (mm)

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P3Y Coalescing Filter

- Extended high efficiency filter element provides greater filtration surface area.
- Integral 3/4" or 1" ports (BSPP & NPT)
- Removes liquid aerosols and sub micron particles
- Oil free air for critical applications, such as air gauging, pneumatic instrumentation and control
- Adsorber activated carbon element removes oil vapors and most hydrocarbons
- Robust but lightweight aluminum construction

CRN: 0E19132

Notes: To optimize the life of the coalescing element, it is advisable to install a P3YFA pre-filter with a 5 micron element upstream of the coalescing filter.

To optimize the life of the adsorber element, it is advisable to install a P3Y coalescing 0.01 micron filter upstream of the adsorber filter.

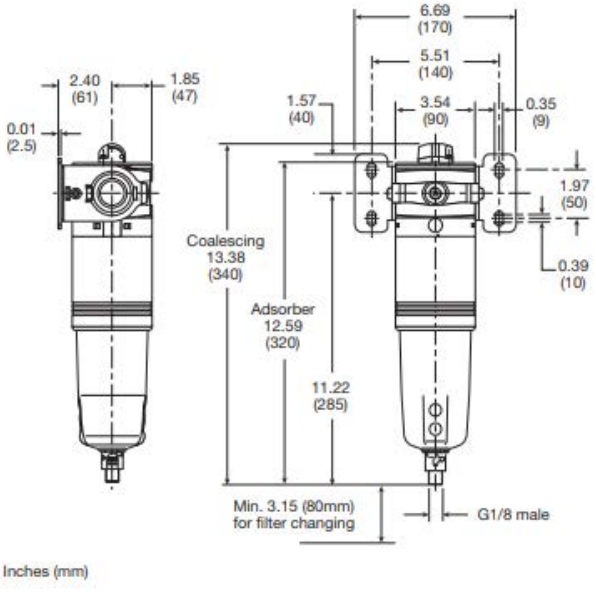
Port size	Description	Part number
3/4"	Coalescing filter 0.01 micron, combined manual / semi-auto drain	**P3YFA96DSCN**
3/4"	Coalescing filter 0.01 micron, auto drain	**P3YFA96DSAN**
1"	Coalescing filter 0.01 micron, combined manual / semi-auto drain	**P3YFA98DSCN**
1"	Coalescing filter 0.01 micron, auto drain	**P3YFA98DSAN**

Operating information

CRN Registered Max Working Pressure:		160 psi (11 bar)
Supply pressure (max)*:		254 psig (17.5 bar)
Operating temperature:		14°F to 140°F (-10°C to 60°C)
Manual / auto drain:		Closed at 11.6 psig (0.8 bar) G1/8 thread male
Media specifications: Adsorber, max oil carryover		0.008 mg/m³ (PPM w/w)
Bowl capacity:		4.4 US oz. (130 cm³)
Standard filtration:		0.01 micron
Flow capacity†:	3/4" 1"	275 scfm (176.9 dm³/s, ANR) 307 scfm (144.8 dm³/s, ANR)
Fluid:		Compressed air
Weight:		3.5 lb (1.6 kg)

† Inlet pressure 91.4 psig (6.3 bar) inlet pressure and 7.3 psig (0.5 bar) pressure.

* Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C).



Inches (mm)

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Parker Canada Division
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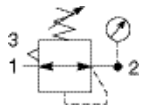
All CRN certifications can be downloaded from: parker.com/crn.

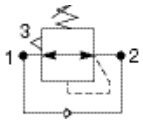
P3Y Regulators

CRN: 0C20362

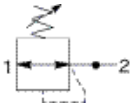
- Integral 3/4" or 1" ports (BSPP and NPT)
- Robust but lightweight aluminium construction
- Secondary pressure ranges 12 and 16 bar
- Rolling diaphragm for extended life
- Secondary aspiration plus rolling diaphragm provides quick response and accurate pressure regulation
- Optional tamperproof regulator padlock
- Reverse flow / relieving option
- Low temperature -40°C (-40°F)



Self relieving regulator with gauge



Reverse flow relieving regulator



Non-relieving regulator

Port size	Description	Part number
3/4"	174 psig relieving	**P3YRA96BNEN**
1"	174 psig relieving	**P3YRA98BNFN**

Operating information

Supply pressure (max)*:		160 psig (11 bar)
Operating temperature:		-40°F to 140°F (-40°C to 60°C)
Flow capacity†:	3/4"	380 scfm (179.3 dm^3/s, ANR)
	1"	550 scfm (259.6 dm^3/s, ANR)
Fluid:		Compressed air
Gauge port (x2):		1/4"
Weight:		2.4 lb (1.08 kg)

† Inlet pressure 145 psig (10 bar) inlet pressure, 91.4 psig (6.3 bar) set pressure and 7.3 psig (0.5 bar) pressure drop.

* Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C).

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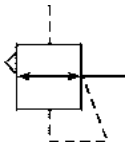
P3Y Pilot Operated Regulator

CRN: 0C20362

- Integral 3/4" or 1" ports (BSPP & NPT)
- Pilot controlled regulators can be mounted “out of reach” with pilot regulator installed in a convenient location
- Constant pilot bleed control for accurate pressure control
- Balanced poppet provides quick response
- High flow

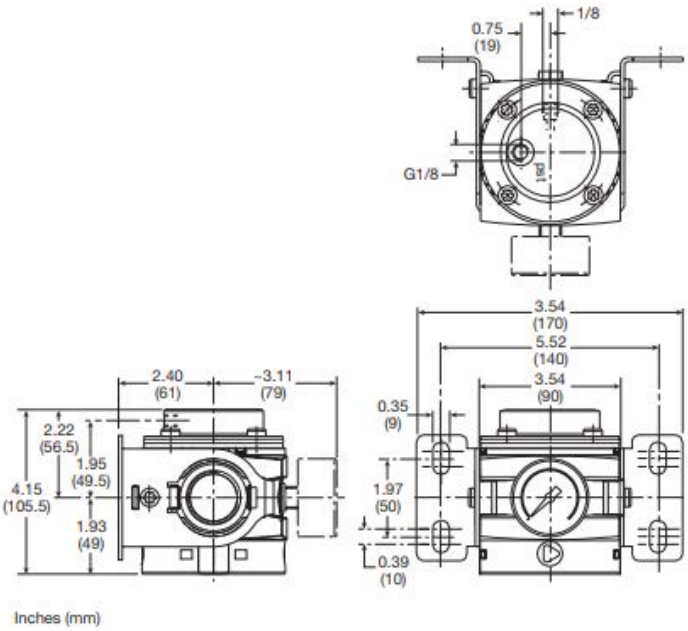


Port size	Description	Part number
3/4"	Pilot operated regulator	**P3YRA96BPPN**
1"	Pilot operated regulator	**P3YRA98BPPN**

Operating information

Supply pressure (max):		254 psig (17.5 bar)
Operating temperature:		-40°F to 140°F (-40°C to 60°C)
Flow capacity†:	3/4"	550 scfm (259.6 dm³/s, ANR)
	1"	550 scfm (259.6 dm³/s, ANR)
Fluid:		Compressed air
Weight:		2.6 lb (1.2 kg)

† Inlet pressure 145 psig (10 bar) inlet pressure, 91.4 psig (6.3 bar) set pressure and 7.3 psig (0.5 bar) pressure drop.



Inches (mm)

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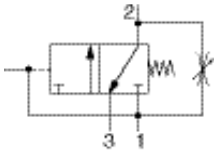
All CRN certifications can be downloaded from: parker.com/crn.

P3Y Combined Soft Start / Dump Valve

- Modular design with 3/4" & 1" integral ports (BSPP or NPT)
- Provides for the safe introduction of pressure
- Automatically dumps downstream pressure on the loss of pilot signal
- Adjustable slow start
- Solenoid or air pilot options
- High flow & exhaust capability

CRN: 0C20362



Port size	Description	Part number
3/4"	Air pilot operated	P3YTA96PPN
3/4"	24VDC 30mm coil	P3YTA96SCNA2CN
1"	Air pilot operated	P3YTA98PPN
1"	24VDC 30mm coil	P3YTA98SCNA2CN

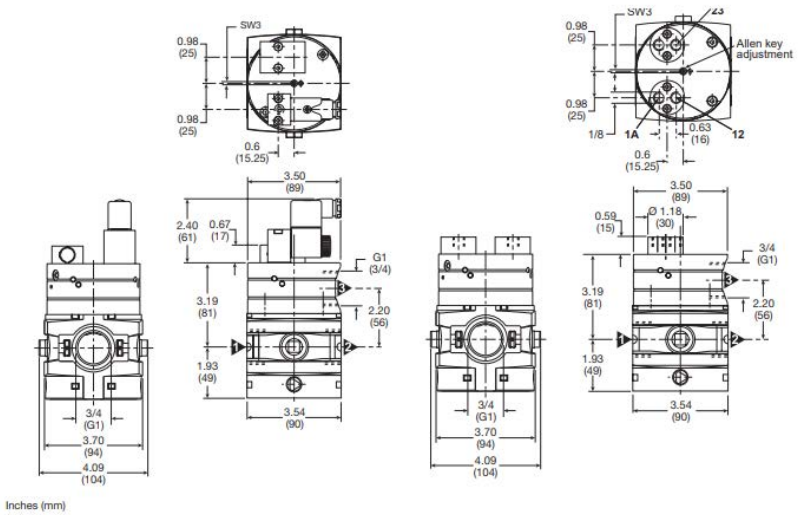
Operating information

Operating pressure (max):		
30mm coil		232 psig (16 bar)
Operating pressure (min):		2.9 psig (0.2 bar)
Operating temperature*:		
Solenoid operated		14°F to 140°F (-10°C to 60°C)
Air pilot operated		14°F to 140°F (-10°C to 60°C)
Air pilot port:		1/8"
Exhaust port:		1"
Gauge port:		1/4"
Flow capacity†:	3/4"	371 scfm (175.1 dm³/s, ANR)
	1"	424 scfm (200.1 dm³/s, ANR)
Fluid:		Compressed air
Weight:	Air pilot	3.1 lb (1.4 kg)
	30mm coil	3.5 lb (1.6 kg)

† Inlet pressure 91.4 psig (6.3 bar) inlet pressure and 7.3 psig (0.5 bar) pressure drop.

* Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C).

Snap pressure: Full flow when downstream pressure reaches 50% of the inlet pressure.



Inches (mm)

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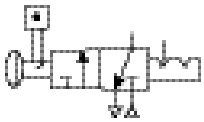
All CRN certifications can be downloaded from: parker.com/crn.

P3Y Modular Ball Valve

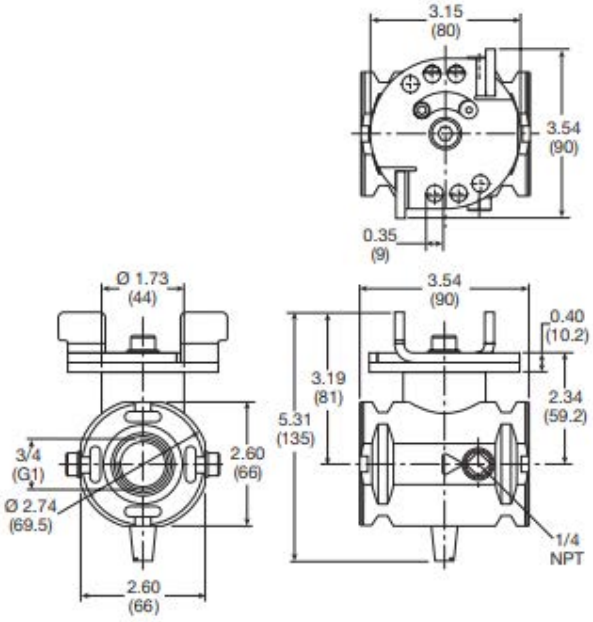
- Positive bubble tight shut-off
- 90° turn handle to prevent unauthorized adjustment
- Pad lockable (up to 6 times)
- When the inlet pressure is turned off the downstream vents through the exhaust port



CRN:0C20362

Operating information

Operating pressure (max):		254 psig (17.5 bar)
Operating pressure (min):		29 psig (2 bar)
Operating temperature:		14°F to 140°F (-10°C to 60°C)
Flow capacity†:	3/4"	705.6 scfm (333 dm³/s, ANR)
	1"	705.6 scfm (333 dm³/s, ANR)
Weight:	3/4"	2.4 lb (1.1 kg)
	1"	2.4 lb (1.1 kg)



Inches (mm)

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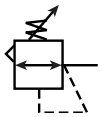
All CRN certifications can be downloaded from: parker.com/crn.

R119 Regulators – Standard

- High flow performance featuring rugged design for the most demanding applications
- Ideal for those installations calling for constant pressure with wide variation in flow
- Diaphragm operated design with balanced poppet design for quick and accurate regulation
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Heavy duty tee handle adjustment
- Panel mount version available
- 1/4", 3/8", 1/2", 3/4", 1", 1-1/2" ports (NPT, BSPP)



Port size	Description (0-125 psig reduced pressure)	Part number
1/4"	Without gauge, relieving, NPT	**R119-02CX7**
3/8"	Without gauge, relieving, NPT	**R119-03CX7**
1/2"	Without gauge, relieving, NPT	**R119-04CX7**
3/4"	Without gauge, relieving, NPT	**R119-06CX7**
1"	Without gauge, relieving, NPT	**R119-08CX7**
1-1/2"	Without gauge, relieving, NPT	**R119-12CX7**

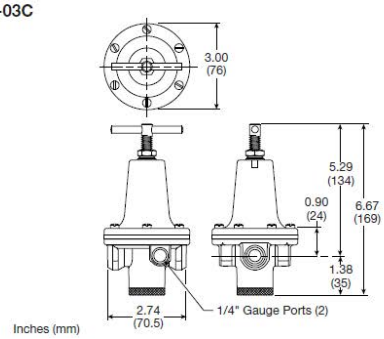
CRN: 0C18449

Operating information

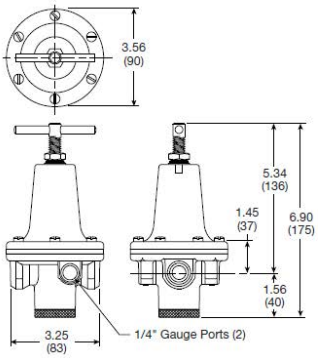
Supply pressure (max):		300 psig (0 to 20.7 bar)
Reduced pressure range:		2 to 125 psig (0.15 to 8.5 bar)
CRN Registered Maximum working pressure:		125 psig (8.6 bar)
Operating temperature:		40°F to 125°F (4.4°C to 52°C)
Flow capacity†:		
High flow	1/4"	100 scfm (47.2 dm^3/s, ANR)
	3/8"	110 scfm (51.9 dm^3/s, ANR)
	1/2"	150 scfm (70.8 dm^3/s, ANR)
	3/4"	300 scfm (141.6 dm^3/s, ANR)
	1"	400 scfm (188.8 dm^3/s, ANR)
	1-1/2"	500 scfm (236 dm^3/s, ANR)
Gauge ports (2):		1/4 inch
Weight:	1/4"	1.8 lb (0.82 kg)
	3/8"	1.8 lb (0.82 kg)
	1/2"	3.2 lb (1.45 kg)
	3/4"	6.2 lb (2.81 kg)
	1"	6.2 lb (2.81 kg)
	1-/2"	7.2 lb (3.27 kg)

† scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary setting and 20 psig pressure drop.

R119-02C, R119-03C

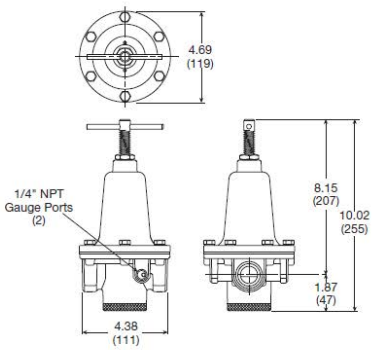


R119-04C

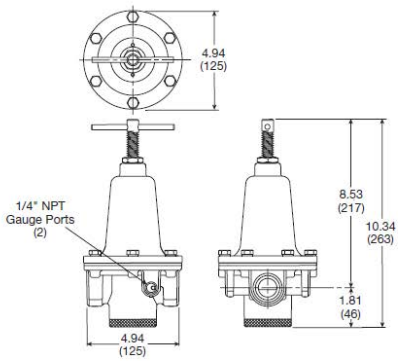


Inches (mm)

R119-06C, R119-08C



R119-12C



Inches (mm)

Parker Hannifin Corporation
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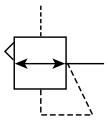
www.parker.com/canada

All CRN certifications can be downloaded from: parker.com/crn.

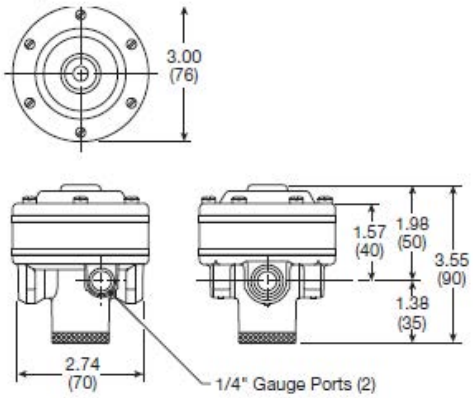
R119 – Pilot Operated Regulators

- Adapted for control by a remote or distant small pilot regulator. Ideal for maximum capacity requirements in applications where units are not readily accessible
- High flow performance featuring rugged design for the most demanding applications
- Ideal for those installations calling for constant pressure with wide variation in flow
- Diaphragm operated design with balanced poppet and constant bleed pilot for quick and accurate regulation.
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- 1/4", 3/8", 1/2" ports (NPT, BSPP)

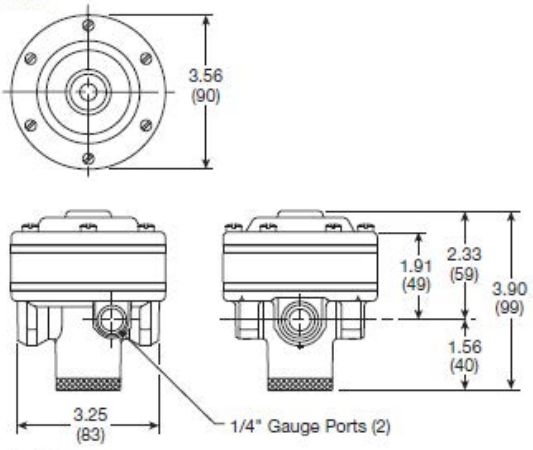


Port size	Description (0-125 psig reduced pressure)	Part number
1/4"	Without gauge, relieving, NPT	**R119-02JX7**
3/8"	Without gauge, relieving, NPT	**R119-03JX7**
1/2"	Without gauge, relieving, NPT	**R119-04JX7**

R119-02J, R119-03J



R119-04J



Inches (mm)

CRN: 0C18449

Operating information

Supply pressure (max):		300 psig (0 to 20.7 bar)
Air consumption:		Constant bleed from air pilot chamber: approx. 0.17 scfm (10 scfh)
Operating temperature:		40°F to 125°F (4.4°C to 52°C)
Pilot pressure:		1/4", 3/8" thread - 1/8" 1/2" thread - 1/4"
Reduced pressure range:		Adjustable to within 5 to 7 psig (0.34 to 0.48 bar) of supply pressure
Flow capacity†:		
High flow	1/4"	100 scfm (47.2 dm^3/s, ANR)
	3/8"	110 scfm (51.9 dm^3/s, ANR)
	1/2"	150 scfm (70.8 dm^3/s, ANR)
Gauge ports (2):		1/4 inch
Weight:	1/4"	1.6 lb (0.73 kg)
	3/8"	1.6 lb (0.73 kg)
	1/2"	2.6 lb (1.18 kg)

† scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary setting and 20 psig pressure drop.

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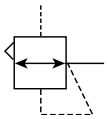
All CRN certifications can be downloaded from: parker.com/crn.

R119 Pilot Operated Regulators - Hi-Flow

- Adapted for control by a remote or distant small pilot regulator. Ideal for maximum capacity requirements in applications where units are not readily accessible
- High flow performance featuring rugged design for the most demanding applications
- Ideal for those installations calling for constant pressure with wide variation in flow
- Piston operated design with balanced poppet and dual constant bleed for quick and accurate regulation
- 2", 2-1/2" ports (NPT, BSPP)



Port size	Description (0-125 psig reduced pressure)	Part number
1/4"	Without gauge, relieving, NPT	**R119-02JX7**
3/8"	Without gauge, relieving, NPT	**R119-03JX7**
1/2"	Without gauge, relieving, NPT	**R119-04JX7**
3/4"	Without gauge, relieving, NPT	**R119-06JX7**
1"	Without gauge, relieving, NPT	**R119-08JX7**
1-1/2"	Without gauge, relieving, NPT	**R119-12JX7**
2"	Without gauge, relieving, NPT	**R119-16JX7**
2-1/2"	Without gauge, relieving, NPT	**R119-20JX7**

NOTE: Non-relieving not available.

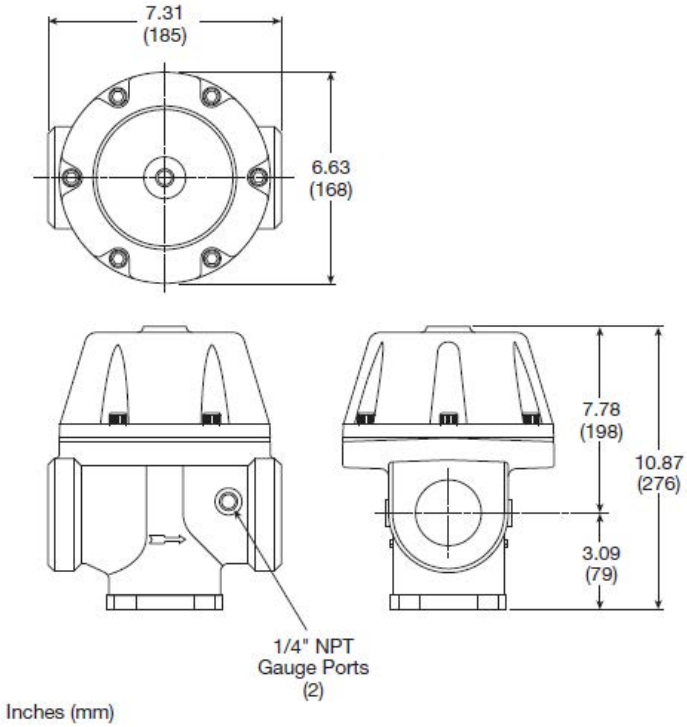
CRN: 0C18449

Operating information

Supply pressure (max):		300 psig (0 to 20.7 bar)
Air consumption:		
Constant bleed from		Air pilot chamber: approx. 0.17 scfm (10 scfh)
		Reduced pressure: approx. 0.17 scfm (10 scfh)
Operating temperature:		40°F to 120°F (4.4°C to 48.9°C)
Reduced pressure range:		Adjustable to within 5 to 7 psig (0.34 to 0.48 bar) of supply pressure
Flow capacity†:		
High flow	2"	1800 scfm (850 dm^3/s, ANR)
	2-1/2"	1800 scfm (850 dm^3/s, ANR)
Gauge ports (2):		
Can be used for full flow		1/4 inch
High pressure outlet for pilot		1/4 inch
Weight:		15 lb (6.8 kg)

† scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary setting and 20 psig pressure drop.

R119-16J, R119-20J



Inches (mm)

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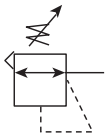
All CRN certifications can be downloaded from: parker.com/crn.

52R Regulators – Relieving

- Balanced poppet design
- Non-rising, pressure-adjusting dial
- High-relief flow (3/16" relief orifice)
- Two 1/4" gauge ports
- Constant bleed, piston operated
- 1/4", 3/8", 1/2", 3/4" ports (NPT, BSPP)

CRN: 0C19078

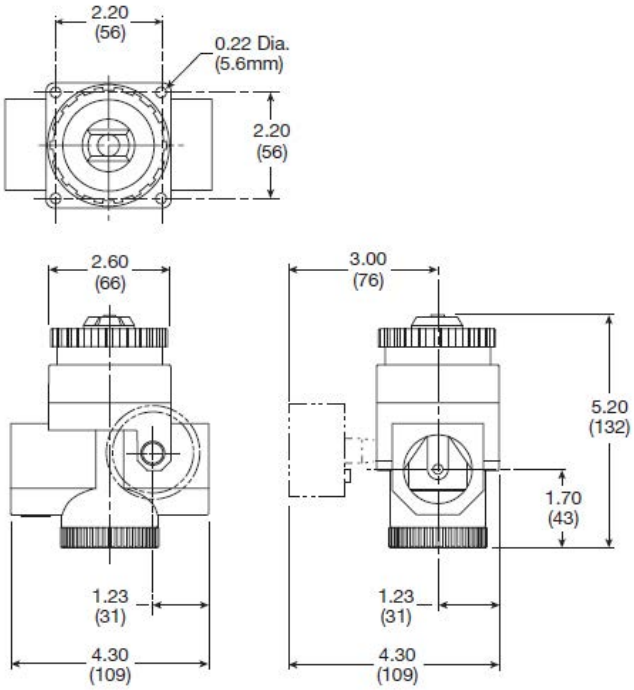


Port size	Description	Part number
1/4"	Standard pressure 5 to 160 psig (0.34 to 11 bar)	**52R126XA**
3/8"	Standard pressure 5 to 160 psig (0.34 to 11 bar)	**52R226XA**
1/2"	Standard pressure 5 to 160 psig (0.34 to 11 bar)	**52R326XA**
3/4"	Standard pressure 5 to 160 psig (0.34 to 11 bar)	**52R426XA**

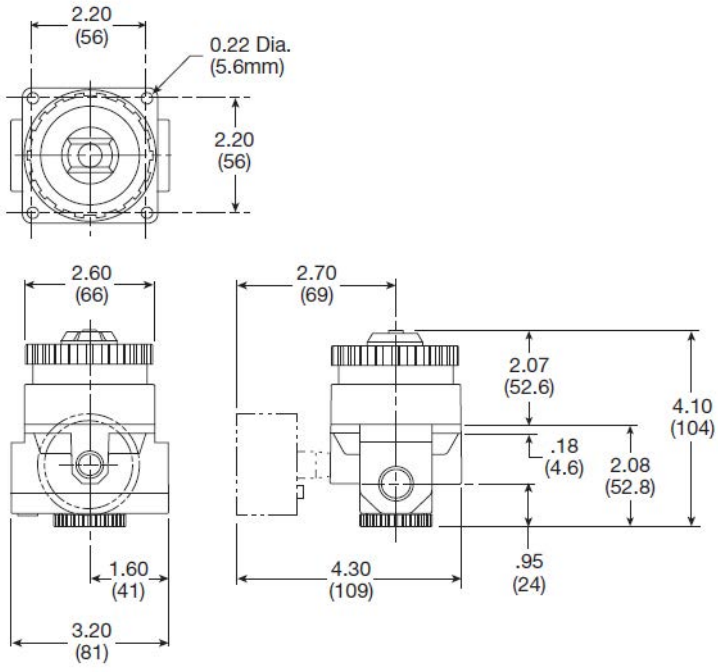
Operating information

Adjusting pressure range:		5 to 160 psig (0 to 11.0 bar)
Canadian registration: max working pressure		200 psi (13.8 bar)
Bleed rate:		0.05 scfm (0.02 dm^3/s, ANR)
Operating temperature (max):		32°F to 150°F (0°C to 65.6°C)
Supply pressure (max):		300 psig (20.7)
Flow capacity†:	1/4"	117 scfm (55.2 dm^3/s, ANR)
	3/8"	180 scfm (85 dm^3/s, ANR)
	1/2"	195 scfm (92 dm^3/s, ANR)
	3/4"	220 scfm (103.8 dm^3/s, ANR)
Gauge ports:		Two ports 1/4" (can be used as additional high flow 1/4 inch outlet ports)
Weight:		2.3 lb (1.04 kg)

† scfm = Inlet pressure 100 psig (6.9 bar) inlet. Secondary pressure 90 psig (6.2 bar).



Inches (mm)



Inches (mm)

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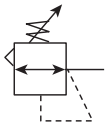
All CRN certifications can be downloaded from: parker.com/crn.

53R Regulators – Relieving

- Balanced poppet design
- Non-rising, pressure-adjusting dial
- High-relief flow (3/16" relief orifice)
- Two 1/4" gauge ports
- Constant bleed, piston operated
- 3/4", 1", 1-1/4" ports (NPT, BSPP)



CRN: 0C19078

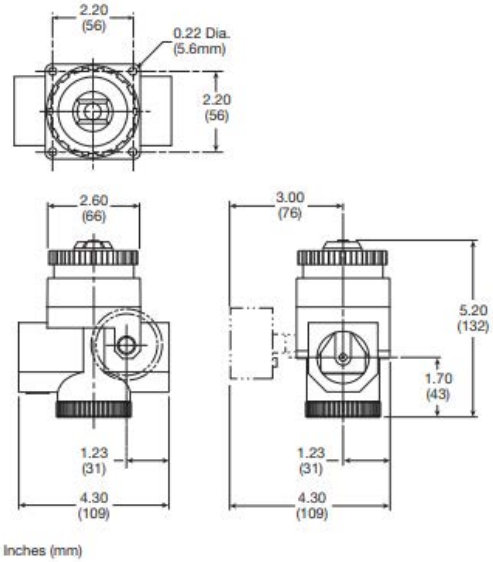
Port size	Description	Part number
3/4"	Standard pressure 5 to 160 psig (0.34 to 11 bar)	**53R426XA**
3/4"	Low pressure 2 to 40 psig (0.14 to 3 bar)	**53R425XA**
1"	Standard pressure 5 to 160 psig (0.34 to 11 bar)	**53R526XA**
1"	Low pressure 2 to 40 psig (0.14 to 3 bar)	**53R525XA**
1-1/4"	Standard pressure 5 to 160 psig (0.34 to 11 bar)	**53R626XA**
1-1/4"	Low pressure 2 to 40 psig (0.14 to 3 bar)	**53R625XA**

Operating information

Adjusting pressure range: CRN Registered Max.		5 to 160 psig (0 to 11.0 bar)
Working Pressure		200 psig
Bleed Rate:		0.05 scfm (0.02 dm³/s, ANR)
Operating temperature (max):		32°F to 150°F (0°C to 65.6°C)
Supply pressure (max):		300 psig (20.7)
Flow capacity†:	3/4"	400 scfm (188.8 dm³/s, ANR)
	1"	650 scfm (306.8 dm³/s, ANR)
	1-1/4"	700 scfm (330.4 dm³/s, ANR)
Gauge ports:		Two ports 1/4" (can be used as additional high flow 1/4 inch outlet ports)
Weight:		2.3 lb (1.04 kg)

† scfm = Inlet pressure 100 psig (6.9 bar) inlet. Secondary pressure 80 psig (5.5 bar).

Note: Metal bottom plug is standard



Inches (mm)

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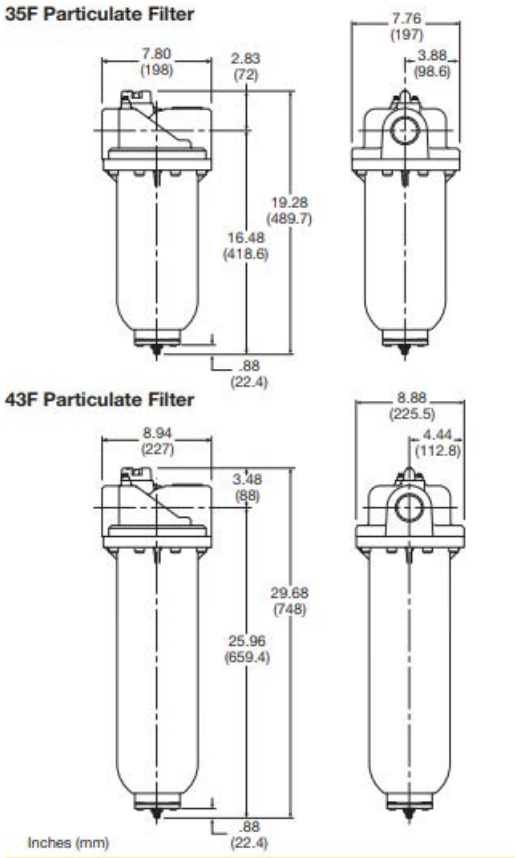
All CRN certifications can be downloaded from: parker.com/crn.

35F / 43F Particulate Filters – Hi-Flow

- Heavy-duty cast aluminum housings to withstand operating pressures up to 250 psig*
- 1-1/2" & 2" (35F), 3" (43F) ports, NPT & BSPP

CRN: 0E19063

Port size	Description	Part number
1-1/2"	Metal bowl	**35F7MBAC**
2"	Metal bowl	**35F8MBAC**
3"	Metal bowl	**43F**



Operating information

CRN Registered Max Working Pressure:		250 psi (17.2 bar)
Supply pressure (max): With pressure gauge without DPI*		250 psig (17.2 bar)
Operating temperature:		32°F to 150°F (0°C to 65.6°C)
Flow capacity†: High flow	1-1/2"	1280 scfm (604.1 dm^3/s, ANR)
	2"	1400 scfm (660.7 dm^3/s, ANR)
	3"	2900 scfm (1368.6 dm^3/s, ANR)
Bowl capacity:	35F	13.9 oz.
	43F	17.2 oz.
Standard Filtration:		5 micron
Weight:	35F	19.3 lb (8.7 kg)
	43F	32.8 lb (14.9 kg)

† scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

* Without differential pressure indicator, max supply pressure is 250 psig (17.2 bar).

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35F / 43F Coalescing Filters – Hi-Flow

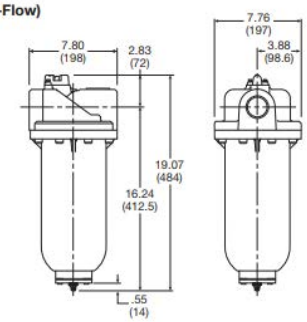
- Heavy-duty cast aluminum housings to withstand operating pressures up to 250 psig*
- High-flow filter elements: coalescing, 1 micron and 0.01 micron
- 1-1/2", 2", 3" ports (NPT, BSPP)

CRN: 0E19132

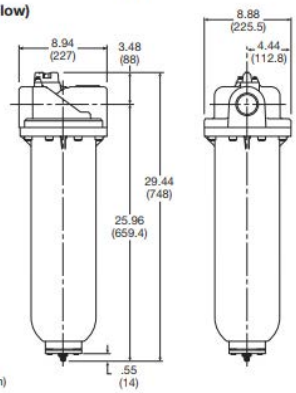
* Without Differential Pressure Indicator – Max. supply pressure is 250 psig (20.1 bar).

Port size	Description	Part number
1-1/2"	0.01 micron / auto float	**35F77EAP**
1-1/2"	1.0 micron / auto float	**35F77HAP**
2"	0.01 micron / auto float	**35F87EAP**
2"	1.0 micron / auto float	**35F87HAP**
3"	0.01 micron / auto float	**43FN7EAP**
3"	1.0 micron / auto float	**43FN7HAP**

35F (Hi-Flow)



43F (Hi-Flow)



Operating information

CRN Registered Max Working Pressure:		250 psi (17.2 bar)
Supply pressure (max): With pressure gauge without DPI*		250 psig (17.2 bar)
Operating temperature:		32°F to 150°F (0°C to 65.6°C)
Flow capacity†: High flow	(35F) 1-1/2"	710 scfm (335 dm^3/s, ANR)
	(35F) 2"	710 scfm (335 dm^3/s, ANR)
	(43F) 3"	1770 scfm (835 dm^3/s, ANR)
Bowl capacity:	35F	13.9 oz.
	43F	17.2 oz.
Standard Filtration:		0.01 & 1 micron
Weight:	35F	19.3 lb (8.7 kg)
	43F	32.8 lb (14.9 kg)

† scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

* Filtration temperature of 70°F (21°C) @ 100 psig (6.9 bar) with typical compressor lubricating oil and protected by 0.01 micron filter.

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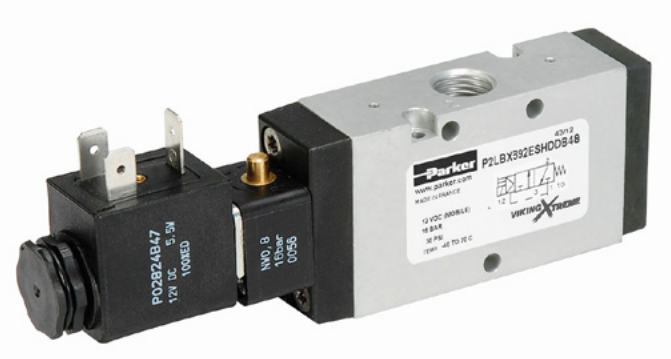
Viking Extreme Series

The Viking Xtreme valve range is robust, versatile and combines high performance with compact installation dimensions. Large flow capacity, short change-over times and low change-over pressure are important characteristics of this valve range.

CRN: 0C19076



Ports
- P2LAX: 1/8 inch NPT & BSPP
- P2LBX: 1/4 inch NPT & BSPP
- P2LCX: 3/8 inch NPT & BSPP
- P2LDX: 1/2 inch NPT & BSPP

Mounting
- Inline
- IEM aluminum bar

Solenoids

1.2 watts to 7.3 watts
- 22mm (Type B) & 30mm 3-pin (DIN 43650)
- 15mm 3-pin (EN 17530-803)
- M12, 4-pin, surge suppression
- Grommet, surge suppression
- Conduit
- Deutsche Connectors, surge suppression

12VDC to 240VAC

Certification / approval
- IP65 Rated, RoHS, CE
- cCSAus Approved to 145 PSIG (10 bar)
- Canada Registration Number available (CRN)
- ATEX option available

Mobile applications
- Viking Xtreme tested to +5g shock and vibration
- Solenoids operate with wide voltage tolerance bands
- Corrosion resistant design
- Passed 500 hour salt spray test

Operating information

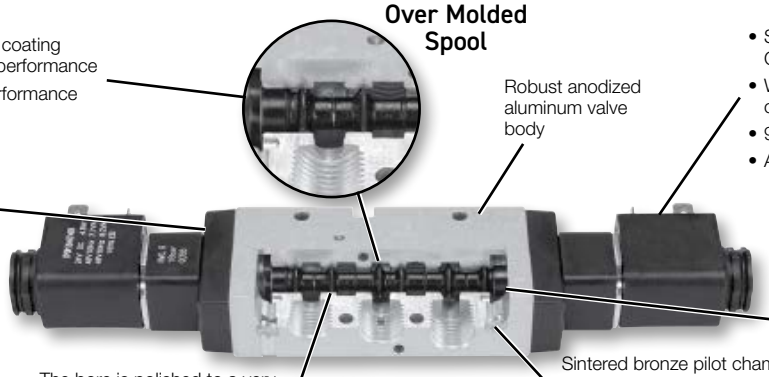
CRN Registered Max. Working Pressure:	174 psi (12.0 bar)
Operating pressure:	
Normal:	Vacuum to 145 PSIG (Vacuum to 10 bar)
Xtreme: (P2LAX & P2LBX)	Vacuum to 232 PSIG (Vacuum to 16 bar)
(P2LCX & P2LDX)	Vacuum to 174 PSIG (Vacuum to 12 bar)
Minimum: See chart	
Operating temperature:	
Normal:	14°F to 122°F (-10°C to 50°C)
Xtreme:	-40°F to 158°F (-40°C to 70°C)

Material specifications

Body	Anodized aluminum
End caps	Anodized aluminum
Coils	Thermoplastic
Fasteners	Stainless steel
Spool	Aluminum and nitrile rubber
Springs	Stainless steel

Features

Over Molded Spool
- Aluminum spool with nitrile rubber coating ground to exact size for optimum performance
- Precision ground for maximum performance
- Wide operating temperature range
  - Low temperature to -40°



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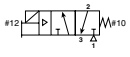
Viking Xtreme Series - P2LAX

Single Solenoid, 3-way, 2-position, Normal Operating Pressure / Temperature, Non-locking Manual Override

	Solenoid	Port size (NPT)	Cv	Valve type	Response time (msec)	Weight lb (kg)	Voltage	Part number
		1/8"	0.7	P2LAX	18 / 40	0.84 (0.38)	24VDC	**P2LAX391ESNDDB49**
							120VAC	**P2LAX391ESNDDB53**
	22mm DIN	1/4"	1.3	P2LBX	18 / 45	0.84 (0.38)	24VDC	**P2LBX392ESNDDB49**
							120VAC	**P2LBX392ESNDDB53**
		3/8"	2.5	P2LCX	25 / 75	1.72 (0.78)	24VDC	**P2LCX393ESNDDB49**
							120VAC	**P2LCX393ESNDDB53**
		1/2"	2.7	P2LDX	25 / 75	1.72 (0.78)	24VDC	**P2LDX394ESNDDB49**
P2LAX 22mm DIN Shown							120VAC	**P2LDX394ESNDDB53**
		1/8"	0.7	P2LAX	18 / 40	0.84 (0.38)	24VDC	**P2LAX391ESNDDG49**
							120VAC	**P2LAX391ESNDDG53**
	18" Grommet	1/4"	1.3	P2LBX	18 / 45	0.84 (0.38)	24VDC	**P2LBX392ESNDDG49**
							120VAC	**P2LBX392ESNDDG53**
		3/8"	2.5	P2LCX	25 / 75	1.72 (0.78)	24VDC	**P2LCX393ESNDDG49**
							120VAC	**P2LCX393ESNDDG53**
		1/2"	2.7	P2LDX	25 / 75	1.72 (0.78)	24VDC	**P2LDX394ESNDDG49**
P2LAX 18" Grommet Shown							120VAC	**P2LDX394ESNDDG53**
		1/8"	0.7	P2LAX	18 / 40	0.84 (0.38)	24VDC	**P2LAX391ESNDD7B9**
	M12 Coil with LED	1/4"	1.3	P2LBX	18 / 45	0.84 (0.38)	24VDC	**P2LBX392ESNDD7B9**
		3/8"	2.5	P2LCX	25 / 75	1.72 (0.78)	24VDC	**P2LCX393ESNDD7B9**
		1/2"	2.7	P2LDX	25 / 75	1.72 (0.78)	24VDC	**P2LDX394ESNDD7B9**
P2LAX M12 Coil Shown								
		1/8"	0.7	P2LAX	18 / 40	0.84 (0.38)	24VDC	**P2LAX391ESNXB549**
							120VAC	**P2LAX391ESNXB553**
	15mm DIN	1/4"	1.3	P2LBX	18 / 45	0.84 (0.38)	24VDC	**P2LBX392ESNXB549**
							120VAC	**P2LBX392ESNXB553**
		3/8"	2.5	P2LCX	25 / 75	1.72 (0.78)	24VDC	**P2LCX393ESNXB549**
							120VAC	**P2LCX393ESNXB553**
		1/2"	2.7	P2LDX	25 / 75	1.72 (0.78)	24VDC	**P2LDX394ESNXB549**
P2LAX 15mm DIN Shown							120VAC	**P2LDX394ESNXB553**

Notes: Above valves are rated for an operating temperature from 14°F to 122°F (-10°C to 50°C). See model code matrix for additional options.
Response time: Actuate to 90% pressure / return to exhaust to 10% of supply pressure. 93 PSIG (6.3 bar) / temperature 68°F (20°C).

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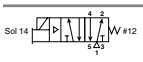
Viking Xtreme Series - P2LBX

Single Solenoid, 4-way, 2-position, Normal Operating Pressure / Temperature, Non-locking Manual Override

	Solenoid	Port size (NPT)	Cv	Valve type	Response time (msec)	Weight lb (kg)	Voltage	Part number
	22mm DIN	1/8"	0.7	P2LAX	15 / 35	0.49 (0.22)	24VDC	**P2LAX591ESNDDB49**
							120VAC	**P2LAX591ESNDDB53**
		1/4"	1.3	P2LBX	18 / 45	0.84 (0.38)	24VDC	**P2LBX592ESNDDB49**
							120VAC	**P2LBX592ESNDDB53**
		3/8"	2.5	P2LCX	27 / 75	1.68 (0.76)	24VDC	**P2LCX593ESNDDB49**
							120VAC	**P2LCX593ESNDDB53**
		1/2"	2.7	P2LDX	25 / 75	1.68 (0.76)	24VDC	**P2LDX594ESNDDB49**
P2LBX 22mm DIN Shown							120VAC	**P2LDX594ESNDDB53**
	18" Grommet	1/8"	0.7	P2LAX	15 / 35	0.49 (0.22)	24VDC	**P2LAX591ESNDDG49**
							120VAC	**P2LAX591ESNDDG53**
		1/4"	1.3	P2LBX	18 / 45	0.84 (0.38)	24VDC	**P2LBX592ESNDDG49**
							120VAC	**P2LBX592ESNDDG53**
		3/8"	2.5	P2LCX	27 / 75	1.68 (0.76)	24VDC	**P2LCX593ESNDDG49**
							120VAC	**P2LCX593ESNDDG53**
		1/2"	2.7	P2LDX	25 / 75	1.68 (0.76)	24VDC	**P2LDX594ESNDDG49**
P2LAX 18" Grommet Shown							120VAC	**P2LDX594ESNDDG53**
	M12 Coil with LED	1/8"	0.7	P2LAX	15 / 35	0.49 (0.22)	24VDC	**P2LAX591ESNDD7B9**
		1/4"	1.3	P2LBX	18 / 45	0.84 (0.38)	24VDC	**P2LBX592ESNDD7B9**
		3/8"	2.5	P2LCX	27 / 75	1.68 (0.76)	24VDC	**P2LCX593ESNDD7B9**
		1/2"	2.7	P2LDX	25 / 75	1.68 (0.76)	24VDC	**P2LDX594ESNDD7B9**
P2LAX M12 Coil Shown								
	15mm DIN	1/8"	0.7	P2LAX	15 / 35	0.49 (0.22)	24VDC	**P2LAX591ESNXB549**
							120VAC	**P2LAX591ESNXB553**
		1/4"	1.3	P2LBX	18 / 45	0.84 (0.38)	24VDC	**P2LBX592ESNXB549**
							120VAC	**P2LBX592ESNXB553**
		3/8"	2.5	P2LCX	27 / 75	1.68 (0.76)	24VDC	**P2LCX593ESNXB549**
							120VAC	**P2LCX593ESNXB553**
		1/2"	2.7	P2LDX	25 / 75	1.68 (0.76)	24VDC	**P2LDX594ESNXB549**
P2LAX 15mm DIN Shown							120VAC	**P2LDX594ESNXB553**

Notes: Above valves are rated for an operating temperature from 14°F to 122°F (-10°C to 50°C). See model code matrix for additional options.
Response time: Actuate to 90% pressure / return to exhaust to 10% of supply pressure. 93 PSIG (6.3 bar) / temperature 68°F (20°C).

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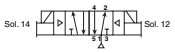
Double Solenoid, 4-way, 2-position, Normal Operating Pressure / Temperature, Non-locking Manual Override



P2LBX 22mm DIN Shown

P2LAX 18" Grommet Shown

P2LBX M12 Coil Shown

P2LAX 15mm DIN Shown

Solenoid	Port size (NPT)	Cv	Valve type	Response time (msec)	Weight lb (kg)	Voltage	Part number
22mm DIN	1/8"	0.7	P2LAX	10 / 10	0.60 (0.27)	24VDC	**P2LAX591EENDDB49**
						120VAC	**P2LAX591EENDDB53**
	1/4"	1.3	P2LBX	12 / 12	0.93 (0.42)	24VDC	**P2LBX592EENDDB49**
						120VAC	**P2LBX592EENDDB53**
	3/8"	2.5	P2LCX	17 / 17	1.78 (0.81)	24VDC	**P2LCX593EENDDB49**
						120VAC	**P2LCX593EENDDB53**
	1/2"	2.7	P2LDX	17 / 17	1.78 (0.81)	24VDC	**P2LDX594EENDDB49**
						120VAC	**P2LDX594EENDDB53**
18" Grommet	1/8"	0.7	P2LAX	10 / 10	0.60 (0.27)	24VDC	**P2LAX591EENDDG49**
						120VAC	**P2LAX591EENDDG53**
	1/4"	1.3	P2LBX	12 / 12	0.93 (0.42)	24VDC	**P2LBX592EENDDG49**
						120VAC	**P2LBX592EENDDG53**
	3/8"	2.5	P2LCX	17 / 17	1.78 (0.81)	24VDC	**P2LCX593EENDDG49**
						120VAC	**P2LCX593EENDDG53**
	1/2"	2.7	P2LDX	17 / 17	1.78 (0.81)	24VDC	**P2LDX594EENDDG49**
						120VAC	**P2LDX594EENDDG53**
M12 Coil with LED	1/8"	0.7	P2LAX	10 / 10	0.60 (0.27)	24VDC	**P2LAX591EENDD7B9**
	1/4"	1.3	P2LBX	12 / 12	0.93 (0.42)	24VDC	**P2LBX592EENDD7B9**
	3/8"	2.5	P2LCX	17 / 17	1.78 (0.81)	24VDC	**P2LCX593EENDD7B9**
	1/2"	2.7	P2LDX	17 / 17	1.78 (0.81)	24VDC	**P2LDX594EENDD7B9**
15mm DIN	1/8"	0.7	P2LAX	10 / 10	0.60 (0.27)	24VDC	**P2LAX591EENXB549**
						120VAC	**P2LAX591EENXB553**
	1/4"	1.3	P2LBX	12 / 12	0.93 (0.42)	24VDC	**P2LBX592EENXB549**
						120VAC	**P2LBX592EENXB553**
	3/8"	2.5	P2LCX	17 / 17	1.78 (0.81)	24VDC	**P2LCX593EENXB549**
						120VAC	**P2LCX593EENXB553**
	1/2"	2.7	P2LDX	17 / 17	1.78 (0.81)	24VDC	**P2LDX594EENXB549**
						120VAC	**P2LDX594EENXB553**

Notes: Above valves are rated for an operating temperature from 14°F to 122°F (-10°C to 50°C). See model code matrix for additional options.
Response time: Actuate to 90% pressure / return to exhaust to 10% of supply pressure. 93 PSIG (6.3 bar) / temperature 68°F (20°C).

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Double Solenoid, 4-way, 3-position All Ports Blocked, 3-position Center Exhaust, Normal Operating Pressure / Temperature, Non-locking Manual Override

	Solenoid	Port size (NPT)	Cv	Valve type	Response time (msec)	Weight lb (kg)	Voltage	Part number All Ports Blocked All ports blocked	Part number Center Exhaust Center exhaust
 P2LBX 22mm DIN Shown	22mm DIN	1/8"	0.5	P2LAX	18 / 40	0.62 (0.28)	24VDC 120VAC	**P2LAX691EENDDB49** **P2LAX691EENDDB53**	**P2LAX891EENDDB49** **P2LAX891EENDDB53**
		1/4"	0.9	P2LBX	22 / 55	0.97 (0.44)	24VDC 120VAC	**P2LBX692EENDDB49** **P2LBX692EENDDB53**	**P2LBX892EENDDB49** **P2LBX892EENDDB53**
		3/8"	1.8	P2LCX	30 / 90	2.45 (1.11)	24VDC 120VAC	**P2LCX693EENDDB49** **P2LCX693EENDDB53**	**P2LCX893EENDDB49** **P2LCX893EENDDB53**
		1/2"	1.9	P2LDX	30 / 90	2.45 (1.11)	24VDC 120VAC	**P2LDX694EENDDB49** **P2LDX694EENDDB53**	**P2LDX894EENDDB49** **P2LDX894EENDDB53**
 P2LBX 18" Grommet Shown	18" Grommet	1/8"	0.5	P2LAX	18 / 40	0.62 (0.28)	24VDC 120VAC	**P2LAX691EENDDG49** **P2LAX691EENDDG53**	**P2LAX891EENDDG49** **P2LAX891EENDDG53**
		1/4"	0.9	P2LBX	22 / 55	0.97 (0.44)	24VDC 120VAC	**P2LBX692EENDDG49** **P2LBX692EENDDG53**	**P2LBX892EENDDG49** **P2LBX892EENDDG53**
		3/8"	1.8	P2LCX	30 / 90	2.45 (1.11)	24VDC 120VAC	**P2LCX693EENDDG49** **P2LCX693EENDDG53**	**P2LCX893EENDDG49** **P2LCX893EENDDG53**
		1/2"	1.9	P2LDX	30 / 90	2.45 (1.11)	24VDC 120VAC	**P2LDX694EENDDG49** **P2LDX694EENDDG53**	**P2LDX894EENDDG49** **P2LDX894EENDDG53**
 P2LBX M12 Coil Shown	M12 Coil with LED	1/8"	0.5	P2LAX	18 / 40	0.62 (0.28)	24VDC	**P2LAX691EENDD7B9**	**P2LAX891EENDD7B9**
		1/4"	0.9	P2LBX	22 / 55	0.97 (0.44)	24VDC	**P2LBX692EENDD7B9**	**P2LBX892EENDD7B9**
		3/8"	1.8	P2LCX	30 / 90	2.45 (1.11)	24VDC	**P2LCX693EENDD7B9**	**P2LCX893EENDD7B9**
		1/2"	1.9	P2LDX	30 / 90	2.45 (1.11)	24VDC	**P2LDX694EENDD7B9**	**P2LDX894EENDD7B9**
 P2LBX 15mm DIN Shown	15mm DIN	1/8"	0.5	P2LAX	18 / 40	0.62 (0.28)	24VDC 120VAC	**P2LAX691EENXB549** **P2LAX691EENXB553**	**P2LAX891EENXB549** **P2LAX891EENXB553**
		1/4"	0.9	P2LBX	22 / 55	0.97 (0.44)	24VDC 120VAC	**P2LBX692EENXB549** **P2LBX692EENXB553**	**P2LBX892EENXB549** **P2LBX892EENXB553**
		3/8"	1.8	P2LCX	30 / 90	2.45 (1.11)	24VDC 120VAC	**P2LCX693EENXB549** **P2LCX693EENXB553**	**P2LCX893EENXB549** **P2LCX893EENXB553**
		1/2"	1.9	P2LDX	30 / 90	2.45 (1.11)	24VDC 120VAC	**P2LDX694EENXB549** **P2LDX694EENXB553**	**P2LDX894EENXB549** **P2LDX894EENXB553**

Notes: Above valves are rated for an operating temperature from 14°F to 122°F (-10°C to 50°C). See model code matrix for additional options.
Response time: Actuate to 90% pressure / return to exhaust to 10% of supply pressure. 93 PSIG (6.3 bar) / temperature 68°F (20°C).

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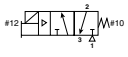
Single Solenoid, 3-way, 2-position, Xtreme Operating Pressure / Temperature, Non-locking Manual Override



P2LBX 22mm DIN Shown

P2LBX 18" Grommet Shown

Solenoid	Port size (NPT)	Cv	Valve type	Response time (msec)	Weight lb (kg)	Voltage	Part number
22mm DIN	1/8"	0.7	P2LAX	15 / 45	0.84 (0.38)	12VDC	P2LAX391ESHDDB47
						24VDC	P2LAX391ESHDDB48
	1/4"	1.3	P2LBX	25 / 65	0.84 (0.38)	12VDC	P2LBX392ESHDDB47
						24VDC	P2LBX392ESHDDB48
	3/8"	2.5	P2LCX	25 / 85	1.01 (0.46)	12VDC	P2LCX393ESHDDB47
						24VDC	P2LCX393ESHDDB48
	1/2"	2.7	P2LDX	25 / 85	1.01 (0.46)	12VDC	P2LDX394ESHDDB47
						24VDC	P2LDX394ESHDDB48
18" Grommet	1/8"	0.7	P2LAX	15 / 45	0.84 (0.38)	12VDC	P2LAX391ESHDDG47
						24VDC	P2LAX391ESHDDG48
	1/4"	1.3	P2LBX	25 / 65	0.84 (0.38)	12VDC	P2LBX392ESHDDG47
						24VDC	P2LBX392ESHDDG48
	3/8"	2.5	P2LCX	25 / 85	1.01 (0.46)	12VDC	P2LCX393ESHDDG47
						24VDC	P2LCX393ESHDDG48
	1/2"	2.7	P2LDX	25 / 85	1.01 (0.46)	12VDC	P2LDX394ESHDDG47
						24VDC	P2LDX394ESHDDG48

Notes: Above valves have Mobile Rated Coils and are rated for an operating temperature from -40°F to 158°F (-40°C to 70°C).
See model code matrix for additional options.
Response time: Actuate to 90% pressure / return to exhaust to 10% of supply pressure. 93 PSIG (6.3 bar) / temperature 68°F (20°C).

Single Solenoid, 4-way, 2-position, Xtreme Operating Pressure / Temperature Non-locking Manual Override

P2LBX 22mm DIN Shown

P2LAX 18" Grommet Shown

Solenoid	Port size (NPT)	Cv	Valve type	Response time (msec)	Weight lb (kg)	Voltage	Part number
22mm DIN	1/8"	0.7	P2LAX	15 / 45	0.84 (0.38)	12VDC	P2LAX591ESHDDB47
						24VDC	P2LAX591ESHDDB48
	1/4"	1.3	P2LBX	20 / 55	0.84 (0.38)	12VDC	P2LBX592ESHDDB47
						24VDC	P2LBX592ESHDDB48
	3/8"	2.5	P2LCX	25 / 85	1.01 (0.46)	12VDC	P2LCX593ESHDDB47
						24VDC	P2LCX593ESHDDB48
	1/2"	2.7	P2LDX	25 / 85	1.01 (0.46)	12VDC	P2LDX594ESHDDB47
						24VDC	P2LDX594ESHDDB48
18" Grommet	1/8"	0.7	P2LAX	15 / 45	0.84 (0.38)	12VDC	P2LAX591ESHDDG47
						24VDC	P2LAX591ESHDDG48
	1/4"	1.3	P2LBX	25 / 65	0.84 (0.38)	12VDC	P2LBX592ESHDDG47
						24VDC	P2LBX592ESHDDG48
	3/8"	2.5	P2LCX	28 / 85	1.01 (0.46)	12VDC	P2LCX593ESHDDG47
						24VDC	P2LCX593ESHDDG48
	1/2"	2.7	P2LDX	25 / 85	1.01 (0.46)	12VDC	P2LDX594ESHDDG47
						24VDC	P2LDX594ESHDDG48

Notes: Above valves have Mobile Rated Coils and are rated for an operating temperature from -40°F to 158°F (-40°C to 70°C).
See model code matrix for additional options.
Response time: Actuate to 90% pressure / return to exhaust to 10% of supply pressure. 93 PSIG (6.3 bar) / temperature 68°F (20°C).

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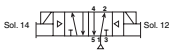
Double Solenoid, 4-way, 2-position, Xtreme Operating Pressure / Temperature, Non-locking Manual Override



22mm DIN

P2LBX 22mm DIN Shown

18" Grommet

P2LAX 18" Grommet Shown

Solenoid	Port size (NPT)	Cv	Valve type	Response time (msec)	Weight lb (kg)	Voltage	Part number
22mm DIN	1/8"	0.7	P2LAX	11 / 11	0.60 (0.27)	12VDC	**P2LAX591EEHDDB47**
						24VDC	**P2LAX591EEHDDB48**
	1/4"	1.3	P2LBX	13 / 13	0.93 (0.42)	12VDC	**P2LBX592EEHDDB47**
						24VDC	**P2LBX592EEHDDB48**
	3/8"	2.5	P2LCX	18 / 18	1.06 (0.48)	12VDC	**P2LCX593EEHDDB47**
						24VDC	**P2LCX593EEHDDB48**
	1/2"	2.7	P2LDX	18 / 18	1.06 (0.48)	12VDC	**P2LDX594EEHDDB47**
						24VDC	**P2LDX594EEHDDB48**
18" Grommet	1/8"	0.7	P2LAX	11 / 11	0.60 (0.27)	12VDC	**P2LAX591EEHDDG47**
						24VDC	**P2LAX591EEHDDG48**
	1/4"	1.3	P2LBX	13 / 13	0.93 (0.42)	12VDC	**P2LBX592EEHDDG47**
						24VDC	**P2LBX592EEHDDG48**
	3/8"	2.5	P2LCX	18 / 18	1.06 (0.48)	12VDC	**P2LCX593EEHDDG47**
						24VDC	**P2LCX593EEHDDG48**
	1/2"	2.7	P2LDX	18 / 18	1.06 (0.48)	12VDC	**P2LDX594EEHDDG47**
						24VDC	**P2LDX594EEHDDG48**

Notes: Above valves have Mobile Rated Coils and are rated for an operating temperature from -40°F to 158°F (-40°C to 70°C).
See model code matrix for additional options.
Response time: Actuate to 90% pressure / return to exhaust to 10% of supply pressure. 93 PSIG (6.3 bar) / temperature 68°F (20°C).

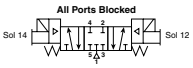
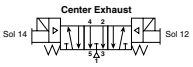
Double Solenoid, 4-way, 3-position All Ports Blocked, 3-position Center Exhaust, Xtreme Operating Pressure / Temperature Non-locking Manual Override

22mm DIN

P2LBX 22mm DIN Shown

18" Grommet

P2LBX 18" Grommet Shown

Solenoid	Port size	Cv	Valve type (NPT)	Response time (msec)	Weight lb (kg)	Voltage	Part number: All Ports Blocked 	Part number: Center Exhaust 
22mm DIN	1/8"	0.5	P2LAX	18 / 40	0.62 (0.28)	12VDC	**P2LAX691EEHDDB47**	**P2LAX891EEHDDB47**
						24VDC	**P2LAX691EEHDDB48**	**P2LAX891EEHDDB48**
	1/4"	0.9	P2LBX	22 / 55	0.97 (0.44)	12VDC	**P2LBX692EEHDDB47**	**P2LBX892EEHDDB47**
						24VDC	**P2LBX692EEHDDB48**	**P2LBX892EEHDDB48**
	3/8"	1.8	P2LCX	30 / 90	2.45 (1.11)	12VDC	**P2LCX693EEHDDB47**	**P2LCX893EEHDDB47**
						24VDC	**P2LCX693EEHDDB48**	**P2LCX893EEHDDB48**
	1/2"	1.9	P2LDX	30 / 90	2.45 (1.11)	12VDC	**P2LDX694EEHDDB47**	**P2LDX894EEHDDB47**
						24VDC	**P2LDX694EEHDDB48**	**P2LDX894EEHDDB48**
18" Grommet	1/8"	0.5	P2LAX	18 / 40	0.62 (0.28)	12VDC	**P2LAX691EEHDDG47**	**P2LAX891EEHDDG47**
						24VDC	**P2LAX691EEHDDG48**	**P2LAX891EEHDDG48**
	1/4"	0.9	P2LBX	22 / 55	0.97 (0.44)	12VDC	**P2LBX692EEHDDG47**	**P2LBX892EEHDDG47**
						24VDC	**P2LBX692EEHDDG48**	**P2LBX892EEHDDG48**
	3/8"	1.8	P2LCX	30 / 90	2.45 (1.11)	12VDC	**P2LCX693EEHDDG47**	**P2LCX893EEHDDG47**
						24VDC	**P2LCX693EEHDDG48**	**P2LCX893EEHDDG48**
	1/2"	1.9	P2LDX	30 / 90	2.45 (1.11)	12VDC	**P2LDX694EEHDDG47**	**P2LDX894EEHDDG47**
						24VDC	**P2LDX694EEHDDG48**	**P2LDX894EEHDDG48**

Notes: Above valves have Mobile Rated Coils and are rated for an operating temperature from -40°F to 158°F (-40°C to 70°C).
See model code matrix for additional options.
Response time: Actuate to 90% pressure / return to exhaust to 10% of supply pressure. 93 PSIG (6.3 bar) / temperature 68°F (20°C).

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Viking Xtreme Single & Double Solenoid Operated Valves

P2L	A	X	5	91	ES	H	D	D	G	49

Valve size	
1/8"	A
1/4"	B
3/8"	C
1/2"	D

Series	
Viking Xtreme	X

Valve type / function	
Internal pilot supply to solenoid*	
3/2 NC - 2-position	**3**
5/2 2-position	**5**
5/3 3-position, APB	**6**
5/3 3-position, PC	**7**
5/3 3-position, CE	**8**
External pilot supply to the solenoids through ports #12 & #14	
3/2 NC - 2-position	L
5/2 2-position	N
5/3 3-position, APB	P
5/3 3-position, PC	Q
5/3 3-position, CE	R

* Size A & B solenoid valves can be field converted from internal to external pilot. See page C25 for details.

Main port thread	
G1/8 (P2LA)	11
G1/4 (P2LB)	12
G1/4 (P2LB) NAMUR Mount	1N*
G3/8 (P2LC)	13
G1/2 (P2LD)	14
1/8" NPT (P2LA)	**91**
1/4" NPT (P2LB)	**92**
1/4" NPT (P2LB) NAMUR Mount	**9N***
3/8" NPT (P2LC)	**93**
1/2" NPT (P2LD)	**94**

* NAMUR mount available for 5/2, 2-position only.

Operator return	
Double solenoid	**EE**
Single solenoid, spring return	**ES***

* Not available with 3-position valves.

Valve type / operating pressure and temperature	
Normal, vacuum to 145 PSIG (10 bar), 14°F to 122°F (-10°C to 50°C), CSA Approved	**N**
Xtreme, vacuum to 145 PSIG (10 bar), -40°F to 140° F (-40°C to 70°C), CSA Approved	**K**
Xtreme, vacuum to 232 PSIG (16 bar), -40°F to 140° F (-40°C to 70°C)	**H***

* P2LC and P2LD solenoid operated valves have a maximum pressure rating of 175 PSIG (12 bar)

Solenoid pilot type	
D**	**Vented pilot exhaust**
N**	Tapped pilot exhaust
X*	15mm solenoid vented pilot exhaust

* Available enclosure "5", "X" and valve type "N" only.
** Not available on enclosure "5" & "X".

Voltage	
B9‡	**24 VDC w/ surge suppression & LED**
42	24VAC
45	12VDC
46†	**12VDC mobile with surge suppression**
47*	**12 VDC mobile**
48*	**24 VDC mobile**
49	**24VDC**
53	**120VAC**
57	240VAC
Blank	Valve less coil

* Only available with enclosures "A", "B", "G" & "5".
‡ Enclosure "7" only
† Enclosure "G", "T", "V" only.

Enclosures / lead length	
5†	**15mm, 3-pin DIN 43650C, 8mm pin spacing**
7§	**M12 4-pin coil with surge suppression & LED**
A	30mm square 3-pin – ISO 4400 Form A (male only)
B	**22mm rectangular 3-pin – type B industrial (male only)**
E*	Intrinsically safe, FM / CSA
F‡	Hazardous duty 1/2" NPT, FM / CSA
G	**Grommet - 18" leads**
H	1/2" NPT conduit - 18" leads
N**	Valve less "A - V, 7" enclosure
T#	**Grommet, single solenoid, 2-pin deutsche connector, surge suppression**
V#	**Grommet, double solenoid, 4-pin deutsche connector, surge suppression**
X†	Valve less 15mm solenoid

* Only available with voltage code "49" & override option "A", valve type "N" Only. Solenoid coil only CSA approved.
** Solenoid pilot type "D" & "N" only.
# Voltage code "46" only.
‡ Valve type "N" Only. Solenoid coil only CSA approved.
† Solenoid pilot type "X" only.
§ Voltage code "B9" only. Valve type "N" only.

Overrides	
A**	No override
B†	**Flush - Non-locking**
C*	**Flush - locking**
D	**Extended non-locking**
E*†	**Extended - locking**
X†	Valve less 15mm solenoid

* Override for valve type "N" only.
** Not available on enclosure "5", 15mm solenoid. Available solenoid pilot type "D" & "N" only.
† Available solenoid pilot type "X" only.

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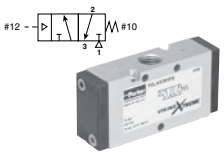
Viking Xtreme Series

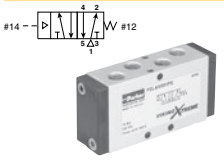
Single Remote Pilot, 3-way, 2-position, Xtreme Operating Pressure / Temperature, Non-locking Manual Override



P2LAX Shown

Port size (NPT)	Cv	Response time (msec)	Weight lb (kg)	Valve type	Part number
1/8"	0.7	15 / 45	0.68 (0.31)	P2LAX	**P2LAX391PS**
1/4"	1.3	25 / 65	0.68 (0.31)	P2LBX	**P2LBX392PS**
3/8"	2.5	25 / 65	0.88 (0.40)	P2LCX	**P2LCX393PS**
1/2"	2.7	25 / 65	0.88 (0.40)	P2LDX	**P2LDX394PS**

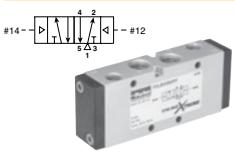
Single Remote Pilot, 4-way, 2-position, Xtreme Operating Pressure / Temperature, Non-locking Manual Override



P2LAX Shown

Port size (NPT)	Cv	Response time (msec)	Weight lb (kg)	Valve type	Part number
1/8"	0.7	15 / 45	0.33 (0.15)	P2LAX	**P2LAX591PS**
1/4"	1.3	20 / 55	0.68 (0.31)	P2LBX	**P2LBX592PS**
3/8"	2.5	25 / 85	0.90 (0.41)	P2LCX	**P2LCX593PS**
1/2"	2.7	25 / 85	0.90 (0.41)	P2LDX	**P2LDX594PS**

Double Remote Pilot, 4-way, 2-position, Xtreme Operating Pressure / Temperature, Non-locking Manual Override



P2LBX Shown

Port size (NPT)	Cv	Response time (msec)	Weight lb (kg)	Valve type	Part number
1/8"	0.7	11 / 11	0.33 (0.15)	P2LAX	**P2LAX591PP**
1/4"	1.3	13 / 13	0.68 (0.31)	P2LBX	**P2LBX592PP**
3/8"	2.5	18 / 18	0.90 (0.41)	P2LCX	**P2LCX593PP**
1/2"	2.7	18 / 18	0.90 (0.41)	P2LDX	**P2LDX594PP**

Double Remote Pilot, 4-way, 3-position All Ports Blocked, 3-position Center Exhaust, Xtreme Operating Pressure / Temperature, Non-locking Manual Override

P2LBX Shown

Port size (NPT)	Cv	Response time (msec)	Weight lb (kg)	Valve type	Part number: All ports blocked	Part number: Center exhaust
1/8"	0.5	18 / 50	0.31 (0.14)	P2LAX	**P2LAX691PP**	**P2LAX891PP**
1/4"	0.9	25 / 65	0.73 (0.33)	P2LBX	**P2LBX692PP**	**P2LBX892PP**
3/8"	1.8	30 / 90	0.93 (0.42)	P2LCX	**P2LCX693PP**	**P2LCX893PP**
1/2"	1.9	30 / 90	0.93 (0.42)	P2LDX	**P2LDX694PP**	**P2LDX894PP**

Notes: Above valves are rated for an operating temperature from -40°F to 158°F (-40°C to 70°C). See model code matrix for additional options.
Response time: Actuate to 90% pressure / return to exhaust to 10% of supply pressure. 93 PSIG (6.3 bar) / temperature 68°F (20°C).

Viking Xtreme Remote Air Pilot Operated Valves

Operating information

Operating pressure:
(P2LAX & P2LBX)
Vacuum to 232 PSIG (Vacuum to 16 bar)
(P2LCX & P2LDX)
Vacuum to 174 PSIG (Vacuum to 12 bar)

Operating temperature:
-40°F to 158°F (-40°C to 70°C)

P2L | A | X | 5 | 91 | PS

Valve size	
1/8"	A
1/4"	B
3/8"	C*
1/2"	D*

* P2LCX and P2LDX manual & remote air pilot valves have a maximum pressure rating of 175 PSIG (12 bar).

Valve type / function	
Internal pilot supply to solenoid	
3/2 NC - 2-position	3
5/2 2-position	5
5/3 3-position, APB	6
5/3 3-position, PC	7
5/3 3-position, CE	8

Operators / return	
PP	Double remote pilot
PS*	Single remote pilot, spring return

* Not available with 3-position valves.

Main port thread	
11	G1/8 (P2LA)
12	G1/4 (P2LB)
1N*	G1/4 NPT (P2LB) NAMUR mount
13	G3/8 (P2LC)
14	G1/2 (P2LD)
91	1/8" NPT (P2LA)
92	1/4" NPT (P2LB)
9N*	1/4 NPT (P2LB) NAMUR mount
93	3/8" NPT (P2LC)
94	1/2" NPT (P2LD)

* 5/2, 2-position valve only.

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ATEX Certified Single & Double Solenoid Operated Valves

Viking ATEX valves meet ATEX directive 94/9/EC with the following classification : CE Ex II 2GD c 135oc. This directive lays down minimum safety requirements for products intended for use in potentially explosive atmospheres. The Directive is commonly referred to as the 'ATEX' Directive ('ATmospheres EXplosibles'), but may also be called the ATEX Equipment Directive or ATEX 95. Both ATEX certified solenoid, remote pilot and manual operated valves, as well as complete solenoid pilot assemblies are available.

ATEX classification details:

CE Ex: fulfils the ATEX directive
II : Group II Equipment Area
2GD : Equipment Category 2. Gas Zone 1,2 and Dust Zone 21,22
c : Safe Design (EN13463-5)
135°C : Real temperature of the surface of product for test

Temperature Class of Solenoid : T4 135°C, ATEX 8-22T

Operating information

Operating pressure:	Vacuum to 145 PSIG (vacuum to 10 bar)
Operating temperature:	14°F to 122°F (-10°C to 50°C)

P2L A X 5 91 ES A D D M 49

Valve size	
1/8"	A
1/4"	B
3/8"	C
1/2"	D

Valve type / function	
Internal Pilot Supply to Solenoid	
2-position valve	5
3-position valve APB	6
3-position valve PC	7
3-position valve CE	8
External Pilot Supply to Solenoids through Ports #12 & #14	
2-position valve	N
3-position valve APB	P
3-position valve PC	Q
3-position valve CE	R

Main port thread	
G1/8 (P2LA)	11
G1/4 (P2LB)	12
G3/8 (P2LC)	13
G1/2 (P2LD)	14
1/8" NPT (P2LA)	91
1/4" NPT (P2LB)	92
3/8" NPT (P2LC)	93
1/2" NPT (P2LD)	94

Operator return	
EE	Double solenoid
ES*	Single solenoid, spring return

* Not available with 3-position valves.

Solenoid pilot type	
D	Vented pilot exhaust
N	Tapped pilot exhaust (M5)

Overrides	
D	Extended non-locking

Enclosures	
M	ATEX 8-22T EExm T4 135°C

Voltage	
49	24VDC

NOTE:
1. ATEX Valve includes a coil with sealed 3 meter cable.
2. Replacement solenoid kit P2FS13A3DM49 includes coil with sealed 3 meter cable, valve armature, solenoid, solenoid nut, screws and o-rings.

These products are designed for utilization in applications falling under the scope of ATEX Directive 94/9/EC. This coverage could only be referred to as long as operations required for the installation and the maintenance of these products are complying with related standards.

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Solenoids with Deutsche Connections : Environmentally-Sealed Transportation Connectors

Viking valves with solenoid options “T” & “V” include a grommet lead wire solenoid with internal surge suppression connected to Deutsche DTP Series male connectors. Heat shrunk cover holds the grommet lead wires together between the solenoid and deutsche connector. An environmentally-sealed connector designed specifically for cable to cable applications in harsh environments such as on the engine or transmission, under the hood, on the chassis or in the cab applications. On signal level circuits where even a small degradation in connection may be critical, these connectors will provide the reliability and performance when properly connected to DTP female connector assemblies. Thermoplastic housings with silicone seals are used to allow the connector to withstand conditions of extreme temperature and moisture. Properly wired and mated connection will withstand immersion under three feet of water without loss of electronic qualities or leakage.

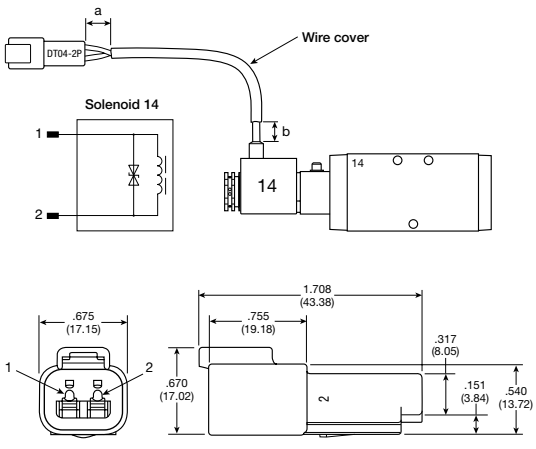
Deutsche Connector & Solenoid Information

		“T” Single Solenoid Option	“V” Double Solenoid Option
Solenoid Kit		**P2FCT446**	**P2FCV446**
Connector Information	Housing material	Thermoplastic	Thermoplastic
	Grommet seal material	Silicone	Silicone
	Connector housing / seal number	DT04-2P*	DT04-4P*
	Contact material	Copper alloy	Copper alloy
	Contact number	0460-202-16141*	0460-202-16141*
	Sealing plug (Wedge) material	Thermoplastic	Thermoplastic
	Wedge number	W2P*	W4P*
	Temperature rating of connector	-67°F (-55°C) to +257°F (+125°C)	-67°F (-55°C) to +257°F (+125°C)
Solenoid	Voltage	12VDC +10%, -30% mobile with bi-directional surge suppression	12VDC +10%, -30% mobile with bi-directional surge suppression
	Number of solenoids	1	2
	Connector pin out	pin 1 & 2	12 solenoid : pin 1 & 2 14 solenoid : pin 3 & 4
	Wire length (Connector to solenoid)	19" (483mm)	12 Solenoid : 19" (482mm) 14 Solenoid : 7.75" (196.5mm)
	Exposed insulated wire (a)	0.25" (6.4mm) - 0.5" (12.7mm)	0.25" (6.4mm) - 0.5" (12.7mm)
	Exposed insulated wire (b)	0.75" (19.1mm) - 1.5" (38.1mm)	0.75" (19.1mm) - 1.5" (38.1mm)
	Wire cover material	Heat shrunk PVC	Heat shrunk PVC

* Deutsche Industrial reference numbers. Male connections provided, mating female components and assemblies can be sourced from qualified Deutsche connector distributors.

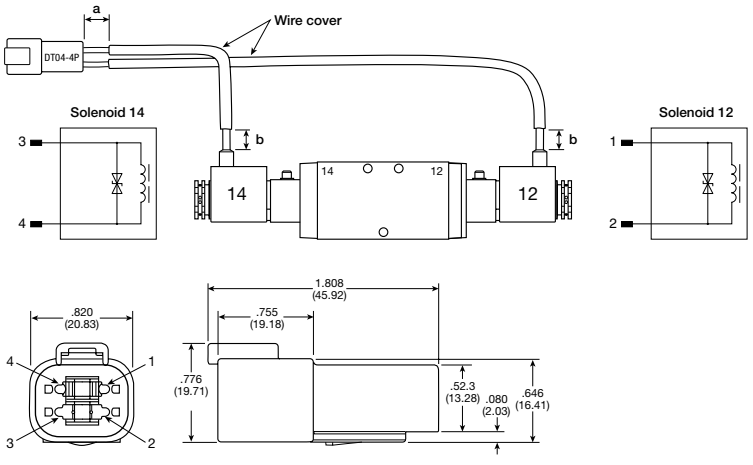
Enclosure / Lead Length - Option “T”

Solenoid Kit P2FCT446 shown



Enclosure / Lead Length - Option “V”

Solenoid Kit P2FCV446 shown



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Pilot Operator Kits

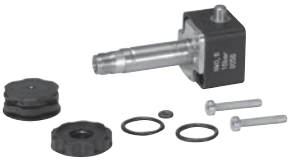
P2FP13 N 4 C

Type	
Pilot operator kit	P2FP13

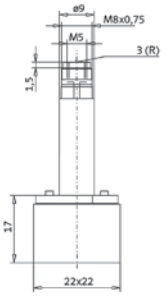
Pressure / temperature	
145 PSIG (10 bar) 14°F to 122°F (-10°C to 50°C)	N
232 PSIG (16 bar) -40°F to 158°F (-40°C to 70°C)	H

	Overrides
A	No override
C*	Locking (bistable) flush - plastic
D	Non-locking (monostable) extended - brass

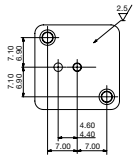
* Only available with "N" Pressure / Temperature option.

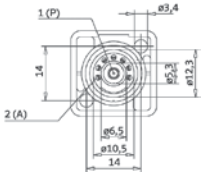


Kit includes:
Armature valve (1), solenoid nuts (2), screws (2), o-rings (3)



Operator mounting pattern (mm)





Solenoid Pilot Operators & Coils

Solenoid pilot options

The P2FP13*4* (NC) 3/2 solenoid pilot operators are designed for piloting pneumatic control valves with compressed air or other inert gases.

The P2FP operator is available for Normal operating pressures up to 10 bar or the Xtreme maximum operating pressure of 16 bar and wide band voltage tolerances required for mobile applications.

Corrosion resistant design

The pilot valve body is manufactured in thermoplastic PA6 material and the core tube brass / stainless steel. The plunger / core is made from stainless steel and the valve seats from FKM.

Solenoid pilot exhaust

These operators all exhaust out of the top of the core tube which is tapped M5. The standard solenoid nut (Solenoid pilot type "D") fitted to the core tube is a diffuser nut which allows the exhaust to escape to atmosphere. This nut also minimizes ingress of dirt into the valve through this port. The alternative plastic knurled nut (Solenoid pilot type "N") can be specified (refer to part number system) if the exhaust air needs captured and piped away using the M5 tapped port.

Mobile applications

Viking Xtreme valves are tested to +5g shock and vibration. Solenoid operated valves are designed to operate with wide voltage tolerance bands within the ambient temperature ranges stated in the technical section.

Coils

Coils are wound with enameled copper wire, having a temperature index of 180°C with class F insulation (155°C) and are encapsulated in Thermoplastic resin. When fitted with suitable connector and correct gasket, they give protection to IP65.

Manual override options

The pilot operators can be supplied with locking or non-locking manual override. The standard manual override is the monostable (spring return) extended brass override. Alternatively the bistable (locking) override can be specified as an alternative for the Normal duty 10 bar option.

Spares

Solenoid operators are available as spares complete with mounting screws and seals. Coils and connectors should be ordered separately unless ATEX certified and intrinsically safe is needed. ATEX certified operators and coils must be ordered together.

Transients

Interrupting the current through the solenoid coil produces momentary voltage peaks which, under unfavorable conditions, can amount to several hundred times the rated operating voltage. Normally, these transients do not cause problems, but to achieve the maximum life of relays in the circuit (and particularly of transistors, thyristors and integrated circuits) it is desirable to provide protection by means of voltage-dependent resistors (varistors). All connectors / cable plugs with LEDs include this type of circuit protection.

Materials

Pilot Valve

Body ..... Polyamide

Armature tube:
Normal pilot operator ..... Brass
Xtreme pilot operator..... Stainless steel

Plunger & core..... Corrosion resistant CR-NI steel

Seals ..... FKM

Screws ..... Stainless steel

Coil

Encapsulation material..... Thermoplastic

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Solenoid Kits

P2FC | B | 4 | 49

Type	
Solenoid Kit	C

Enclosures / lead length	
M12 4-pin coil with surge suppression & LED	**7 §**
30mm square 3-pin – ISO 4400 Form A (male only)	**A**
22mm rectangular 3-pin – Type B Industrial (male only)	**B**
Hazardous duty, FM / CSA	F*
Grommet - 18" leads	**G**
1/2" NPT conduit - 18" leads	**H**
Grommet, single solenoid, 2-pin deutsche connector, surge suppression	**T #**
Grommet, double solenoid, 4-pin deutsche connector, surge suppression	**V #**
Grommet 72" leads	Q
1/2" conduit 72" leads	R

* Only available with voltage codes "45", "49", "53" & "57". Not for use with the Xtreme version (-40°C to 70°C).

Voltage code 46 only.

§ Voltage code B9 only.

	Voltage
B9 ‡	**24 VDC w/ surge suppression & LED**
42	24VAC
45	12VDC
46 †	**12 VDC mobile w/ surge suppression**
47*	**12 VDC mobile**
48*	**24 VDC mobile**
49	**24VDC**
53	**120VAC**
57	240VAC

* Only available with enclosures "A", "B" & "G". Additional voltages are available upon request. Contact customer support for more information.

‡ Enclosure 7 only

† Enclosure G, T, V only.

Solenoid Enclosures

Option 7

M12, 4-Pin Coil with Surge Suppression

Option A

30mm Square, 3-Pin ISO 4400, DIN 43650A

Option B

22mm Rectangular, 3-Pin DIN, Type B Industrial

Option G & Q

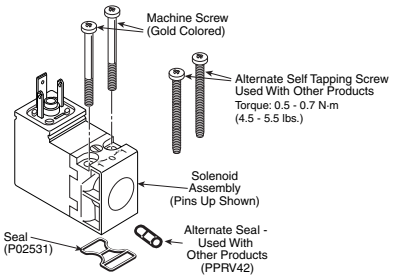
Grommet, 18" or 72" Leads

Option H & R

1/2" Conduit, 18" or 72" Leads

Solenoid Kits – 3-Pin, EN175301-803 (Former DIN 43650C), 15mm, 8mm

Standard



PS2982*##P – Enclosure '5'

*	## Voltage						
Override	42	45	47 †	48 †	49	53	57
B	O	O	S	S	S	S	O
C	O	O	S	S	S	S	O
D	O	O	O	O	O	O	O
E	O	O	O	O	O	O	O

S - Standard; O - Option

† Mobile voltage

Kit includes: Solenoid, (2) machine screws, (2) self threading screws, (1) gasket, (1) 3-cell gasket.

Solenoid Information (Solenoids are rated for continuous duty.)

Voltage				Enclosure "5"		Enclosure "A"		Enclosure "7", "B" to "R"	
	AC								
Code	60Hz	50Hz	DC	Power consumption	Holding (Amps)	Power consumption	Holding (amps)	Power consumption	Holding (amps)
B9†	w	—	24	—	—	—	—	4.8W	.20
42	24	22		1.6VA	.065	3.9VA	.14	7.3VA	.31
45	—	—	12	1.2W	.098	2.6W	.21	4.6W	.37
46*†	—	—	12	—	—	—	—	5.5W	.46
47*	—	—	12	0.91W	.074	6.2W	.52	5.5W	.46
48*	—	—	24	0.91W	.033	6.8W	.29	6.0W	.25
49	—	—	24	1.2W	.049	2.7W	.11	4.8W	.20
53	120	110	—	1.6W	.013	4.1VA	.04	6.3VA	.05
57	240	230	—	1.6W	.007	3.7VA	.02	6.4VA	.03

* Mobile voltages. † Surge suppression.

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Intrinsically safe solenoid valves (“E” option)

Hazardous location class:

Class I; Groups A, B, C & D

Class II; Groups E, F, & G

Class III; Div. I

For use in low voltage (24VDC) Intrinsically Safe applications. NO OTHER VOLTAGE IS APPROVED.

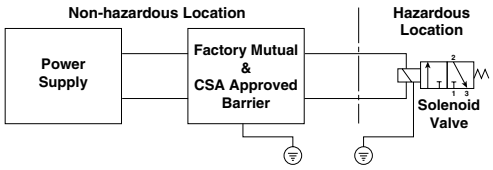
Comes standard with non-lighted solenoid connector.

36mm Coil width.

Must be connected to an FM approved Barrier.

For dimensions, reference standard solenoid models. Maximum internally piloted valve pressure is 115 PSIG. Pressures to 145 PSIG can be used when external pilot is utilized and pilot pressure is limited to 115 PSIG.

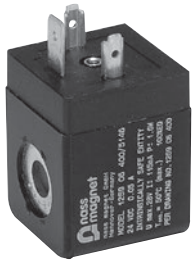
The intrinsically safe coil width (30mm) is wider than the body width of valve type A & B valves. If mounted on a manifold, the valves need to be staggered to fit and must be single solenoid valves only.

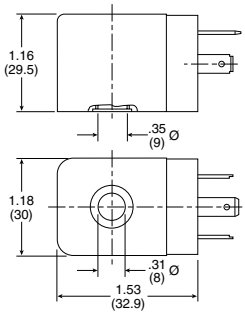


Intrinsically safe solenoid pilot assembly kits

Description	Part number
24VDC	**P2FS13N1AE49**

Kit includes: coil, armature, connector, o-ring & screws





Hazardous duty solenoid valves (“F” option)

Hazardous location class:

Class I; Zone I EX, M, II & T4

Class I; Div. I, Groups A, B, C, & D

Class II & III; Div. I, Groups E, F, & G

Comes standard with 1/2" conduit connection.

Voltage range = ±10%

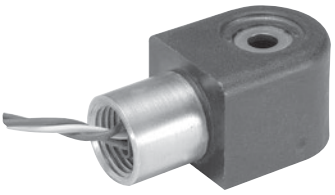
Ambient temperature range = -20°C (-4°F) to 60°C (140°F)

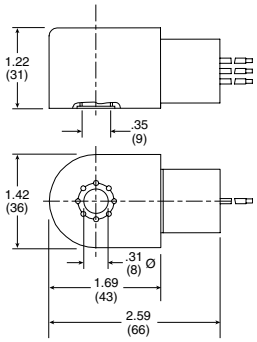
Duty factor = 100%

IP65 Rated (with connected conduit connector)

Notes:

1. Maximum non-hazardous location voltage not to exceed 250V RMS.
2. Factory Mutual requires connections per ISA RP 12.6 instructions.
3. CSA requires “Installation to be in accordance with the Canadian Electrical Code. Part I.”
4. The hazardous duty coil width (36mm) is wider than the body width of valve type A, B, C & D valves. Valves can not be mounted to IEM manifolds without installing a blanking plate between valves.

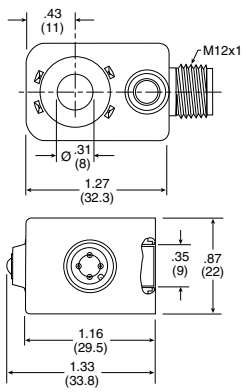


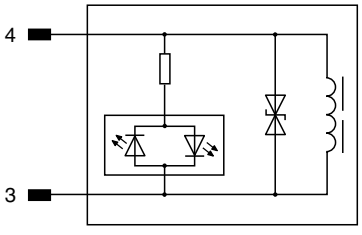


Option F
Hazardous Duty FM / CSA

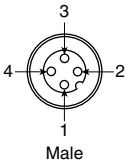
M12, 24VDC solenoid coil (“7” option)

Connection type: M12, metal thread, M12 x 1
DIN EN 60947-5-2 appendix D
LED color: yellow
Bi-directional surge suppression





1. Not Used
2. Not Used
3. +/– (blue)
4. +/– (black)



4-Pin Female Wiring Diagram
(only Pins 4 & 3 are used)
Per ISO 20401

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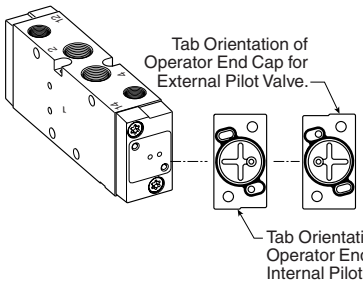
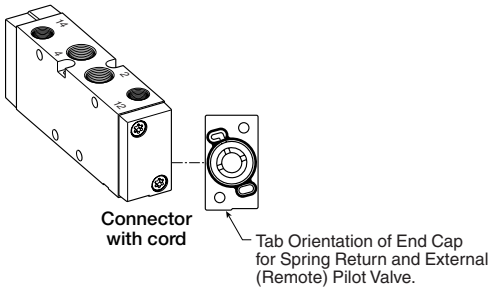
Internal to external pilot conversion (size A & B only)

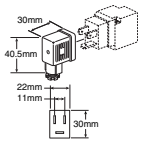
To convert from Internal to External Pilot Valve, simply remove the (2) fasteners that attach the end cap to the valve body. Rotate the end cap 180° and attach back to the valve body. For single solenoid valves, only the 14-End needs to be rotated. For double solenoid valves, both ends must be converted for proper function.

The 12 & 14-Ports are always tapped no matter what Valve Type / Function is selected. For Internal Pilot Function, ports do NOT need to be plugged.





22mm Rectangular 3-Pin – Type B Industrial
(Use with Enclosure "B")



Description	Connector with 6' (2m) cord	Connector
Unlighted	**PS2429JBP**	**PS2429BP**
Light – 24V60Hz. 24VDC	**PS2430J79BP***	**PS243079BP**
Light – 120V/60Hz	**PS2430J83BP***	**PS243083BP**
Light – 240V/60Hz	N/A	**PS243087BP**

* LED with surge suppression.

Note: Max ø6.5mm cable size required for connector w/o 6' (2m) cord. IP65 rated when properly installed.

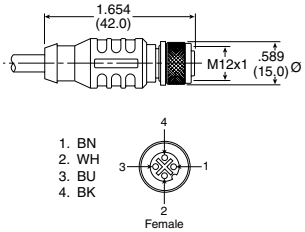
Engineering Data:
Conductors: 2 Poles Plus Ground; Cable Range (Connector Only): 6 to 8mm (0.24 to 0.31 Inch); Contact Spacing: 11mm

M12 A-code Cables

Description	Part number
4-Pin female to flying lead cable, PVC, 2m	**RKC 4.4T-2**

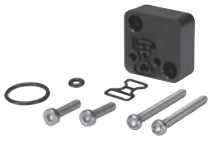
RKC Female Sockets

* Only pins 3 and 4 are used with solenoids Option "7".



4-Pin Female Wiring Diagram

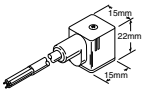
15mm Solenoid Mount

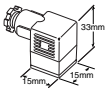


Description	Part number
15mm solenoid mount	**P2FA22-15**

Kit includes: adapter (1), O-rings (2), gasket (1), screws (4)

15mm 3-Pin DIN 43650C
(Use with Enclosure "5")





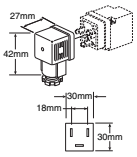
	Cord length	Connector	Connector only / Connector with cord
Unlighted	18 Inches	**PS2932BP**	**PS2932HBP**
Unlighted	6 Feet	**PS2932BP**	**PS2932JBP**
Light – 12VAC or DC	6 Feet	**PS294675BP**	**PS2946J75BP***
Light – 24VAC or DC	6 Feet	**PS294679BP**	**PS2946J79BP***
Light – 110/120VAC	6 Feet	**PS294683BP**	**PS2946J83BP***
Light – 240/230VAC		**PS294687BP**	N/A

* LED with surge suppression.

Note: Max ø6.5mm cable size required for connector w/o 6' (2m) cord. IP65 rated when properly installed.

Engineering data:
Conductors: 2 poles plus ground Cable range (connector only): 4 to 6mm (0.16 to 0.24 Inch) Contact spacing: 8mm

30mm Square 3-Pin – ISO 4400, DIN 43650A
(Use with Enclosure "A")



Description	Connector with 6' (2m) cord	Connector
Unlighted	**PS2028JCP**	**PS2028BP**
Light – 6-48V. 50/60Hz. 6-48VDC	**PS2032J79CP***	**PS203279BP**
Light – 120V/60Hz	**PS2032J83CP***	**PS203283BP**
Light – 240V/60Hz	N/A	**PS203283BP**

* LED with surge suppression.

Note: Max ø6.5mm cable size required for connector w/o 6' (2m) cord. IP65 rated when properly installed.

Engineering data:
Conductors: 2 poles plus ground; cable range (connector only): 8 to 10mm (0.31 To 0.39 Inch); contact spacing: 18mm

Replacement Solenoid Nut

Description	Part number
Solenoid diffuser nut	**PS1556**

Description	Part number
Solenoid vented nut	**PS2892P**

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It is the users responsibility to verify product performance when applied at maximum tolerance ranges of multiple technical specifications simultaneously.

Operating temperature

- **Normal**.....14°F to 122°F (-10°C to 50°C)
- **Xtreme**..... -40°F to 158°F (-40°C to 70°C)

Flow Rating

Valve size	Port size	2-position	3-position
P2LAX	1/8"	0.7	0.5
P2LBX	1/4"	1.3	0.9
P2LCX	3/8"	2.5	1.8
P2LDX	1/2"	2.7	1.9

Operating pressure*

Maximum: Normal.....145 PSIG (10 bar)
Xtreme.....232 PSIG (16 bar)
Minimum:

	Minimum PSIG (bar)			
Valve type - internal pilot	**P2LAX**	**P2LBX**	**P2LCX**	**P2LDX**
Single solenoid - spring return	46 (3.2)	51 (3.5)	51 (3.5)	51 (3.5)
Single remote pilot - spring return	46 (3.2)	51 (3.5)	51 (3.5)	51 (3.5)
Double solenoid - 2-position	22 (1.5)	22 (1.5)	22 (1.5)	22 (1.5)
Double remote pilot - 2-position	22 (1.5)	22 (1.5)	22 (1.5)	22 (1.5)
Double solenoid - 3-position (APB, PC, CE)	51 (3.5)	51 (3.5)	51 (3.5)	51 (3.5)
Double remote pilot - 3-position (APB, PC, CE)	51 (3.5)	51 (3.5)	51 (3.5)	51 (3.5)

Valve type - External pilot	**P2LAX**	**P2LBX**	**P2LCX**	**P2LDX**
All Viking series	Vacuum			

* P2LC and P2LD solenoid operated valves have a maximum pressure rating of 175 PSIG (12 bar).

Size A and B solenoid valves can be field converted from internal pilot to external pilot and visa versa. See previous page for information.

Solenoid voltage characteristics

Non-Mobile Coil -

Voltage Code 42, 45, 49, 53, 57

15mm, DIN 43650C (Enclosure: 5)
+10%, -15%

Mobile Coil -

Voltage Code 47, 48

15mm, Din 43650C (Enclosure: 5)
+25%, -30%

Voltage Code 46

(Enclosure G,T,V)
+10%, -30%

Solenoid voltage characteristics

Non-mobile coils -

Voltage code B9, 42, 45, 49, 53, 57

Enclosure (7, A, B, E, F, G, H)
+10%, -10%

Mobile coils - (valve type N)

22mm 12 & 24VDC - Mobile (47 & 48 voltage code)

Minimum inlet pressure (bar)	Operating temperature		
	-10°C	**+10°C**	**+50°C**
3	+30 / -25% VDC	+30 / -20% VDC	+25 / -15% VDC
6	+30 / -30% VDC	+30 / -25% VDC	+25 / -20% VDC
8	+30 / -30% VDC	+30 / -30% VDC	+25 / -25% VDC
10	+30 / -30% VDC	+30 / -30% VDC	+25 / -30% VDC

30mm 12 & 24VDC - Mobile (47 & 48 voltage code)

Minimum inlet pressure (bar)	Operating temperature		
	-10°C	**+10°C**	**+50°C**
3	+30 / -30% VDC	+30 / -30% VDC	+25 / -30% VDC
6	+30 / -30% VDC	+30 / -30% VDC	+25 / -30% VDC
8	+30 / -30% VDC	+30 / -30% VDC	+25 / -30% VDC
10	+30 / -30% VDC	+30 / -30% VDC	+25 / -30% VDC

Mobile coils - (valve type K & H)

22mm 12 & 24VDC - Mobile (47 & 48 voltage code)

Minimum inlet pressure (bar)	Operating temperature			
	-40°C	**+10°C**	**+50°C**	**+70°C**
4	+30 / -25% VDC	+30 / -25% VDC	+30 / -10% VDC	+20 / -10% VDC
8	+30 / -30% VDC	+30 / -25% VDC	+30 / -15% VDC	+20 / -15% VDC
12	+30 / -30% VDC	+30 / -30% VDC	+30 / -15% VDC	+20 / -15% VDC
16	+30 / -30% VDC	+30 / -30% VDC	+30 / -20% VDC	+20 / -20% VDC

30mm 12 & 24VDC - Mobile (47 & 48 voltage code)

Minimum inlet pressure (bar)	Operating temperature			
	-40°C	**+10°C**	**+50°C**	**+70°C**
4	+30 / -30% VDC	+30 / -30% VDC	+25 / -30% VDC	+15 / -30% VDC
8	+30 / -30% VDC	+30 / -30% VDC	+25 / -30% VDC	+15 / -30% VDC
12	+30 / -30% VDC	+30 / -30% VDC	+25 / -30% VDC	+15 / -30% VDC
16	+30 / -30% VDC	+30 / -30% VDC	+25 / -30% VDC	+15 / -30% VDC

Note: All table ratings are based on 100% continuous duty and 5G shock vibration. At 50% continuous duty all ratings are +30% / -30% for all Temperatures and Pressures.

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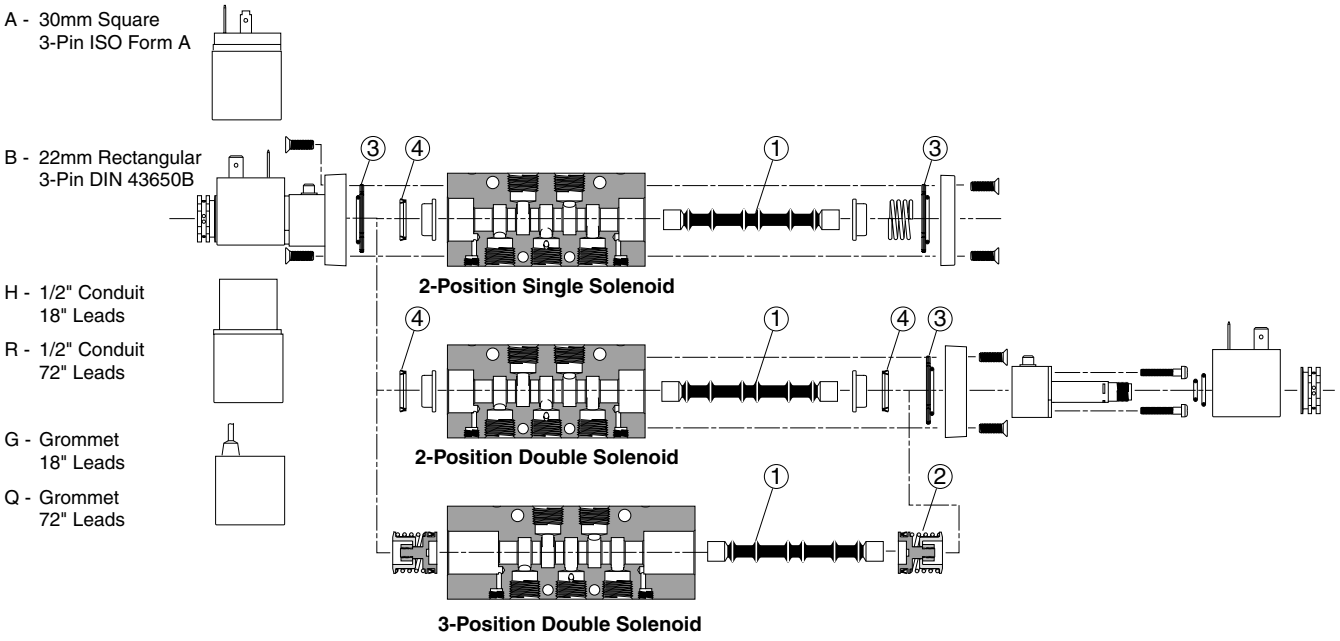
Spool Service Kits

Description	Includes items (qty.)	Part number
Size A, 4-way, 2-position, solenoid & air pilot valves	1 (1), 3 (2), 4 (2)	**P2LAXSK1**
Size A, 4-way, 3-position, solenoid & air pilot valves	1 (1), 2 (2), 3 (2), 4 (2)	**P2LAXSK2**
Size A & Size B, 3-way, 2-position, solenoid & air pilot valves	1 (1), 3 (2), 4 (2)	**P2LAXBXSK1**
Size B, 4-way, 2 & 3-position valves	1 (1), 3 (2), 4 (2)	**P2LBXSK1**
Size C & Size D, 3-way, 2-position valves	1 (1), 3 (2), 4 (2)	**P2LCXDXSK1**
Size C & Size D, 4-way, 2 & 3-position valves	1 (1), 3 (2), 4 (2)	**P2LCXDXSK1**



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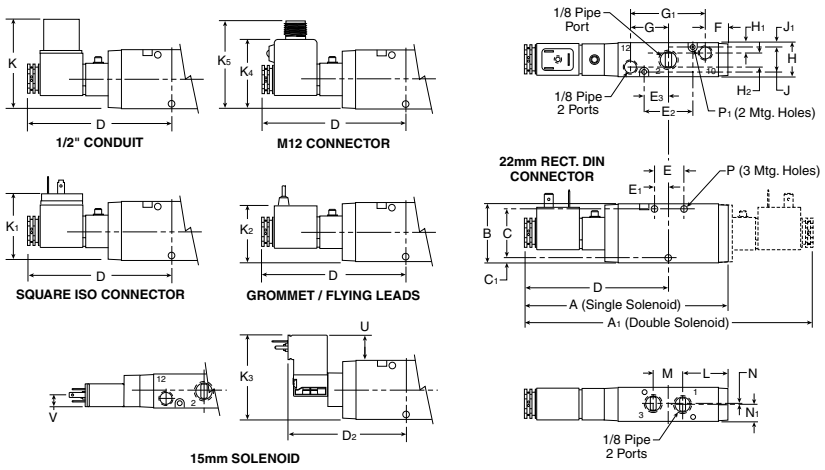
P2LAX 3/2 Single & Double Operators – Solenoid

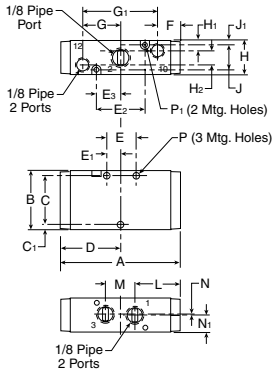


P2LAX 3/2 (solenoid)

A	A1	B	C	C1	D
5.35	7.60	1.57	1.26	.16	3.80
(136)	(193)	(40)	(32)	(4)	(97)
D2	**E**	**E1**	**E2**	**E3**	**F**
3.00	.79	.39	1.26	.63	.55
(76.8)	(20)	(10)	(32)	(16)	(14)
G	**G1**	**H**	**H1**	**H2**	**J**
.98	1.97	.87	.26	.35	.65
(25)	(50)	(22)	(6.6)	(9)	(16.5)
J1	**K**	**K1**	**K2**	**K3**	**K4**
.11	2.36	1.61	1.50	2.24	1.70
(2.9)	(60)	(41)	(38)	(57)	(43.3)
K5	**L**	**M**	**N**	**N1**	**P**
2.10	1.14	.79	.02	.42	Ø .17
(53.3)	(29)	(20)	(0.5)	(11)	Ø (4.3)
P1	**U**	**V**			
Ø .12	0.81	0.29			
Ø (3.1)	(20.5)	(7.5)			

Inches (mm)

P2LAX 3/2 Single & Double Operators – Remote Air Pilot

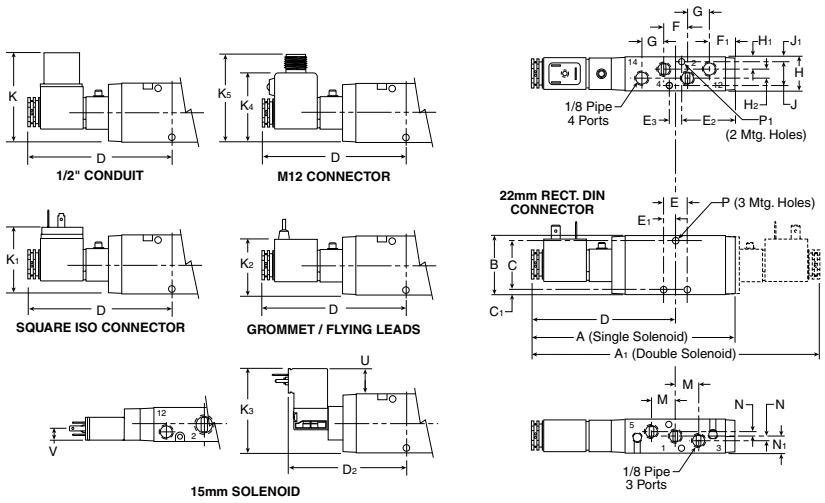


P2LAX 3/2 (remote air pilot)

A	B	C	C1	D	E
3.07	1.57	1.26	.16	1.54	.79
(78)	(40)	(32)	(4)	(39)	(20)
E1	**E2**	**E3**	**F**	**G**	**G1**
.39	1.26	.63	.55	.98	1.97
(10)	(32)	(16)	(14)	(25)	(50)
H	**H1**	**H2**	**J**	**J1**	**L**
.87	.26	.35	.65	.11	1.14
(22)	(6.6)	(9)	(16.5)	(2.9)	(29)
M	**N**	**N1**	**P**	**P1**	
.79	.02	.42	Ø .17	Ø .12	
(20)	(0.5)	(11)	Ø (4.3)	Ø (3.1)	

Inches (mm)

P2LAX 5/2 & 5/3 Single & Double Operators, 4-way



P2LAX 5/2 & 5/3 (solenoid)

A	A1	B	C	C1	D
5.47	7.72	1.57	1.30	.14	3.86
(139)	(196)	(40)	(33)	(3.5)	(98)
D2	**E**	**E1**	**E2**	**E3**	**F**
3.48	.63	.31	1.42	.33	.63
(88.3)	(16)	(8)	(36)	(8.5)	(16)
F1	**G**	**H**	**H1**	**H2**	**J**
.67	.59	.87	.31	.24	.63
(17)	(15)	(22)	(8)	(6)	(16)
J1	**K**	**K1**	**K2**	**K3**	**K4**
.12	2.36	1.61	1.50	2.24	1.63
(39)	(60)	(41)	(38)	(57)	(41.3)
K5	**M**	**N**	**N1**	**P**	**P1**
2.10	.63	.12	.43	Ø .17	Ø .12
(53.3)	(16)	(3)	(11)	Ø (4.3)	Ø (3.1)
U	**V**				
0.81	0.29				
(20.5)	(7.5)				

Inches (mm)

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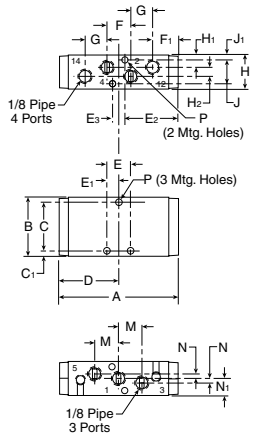
P2LAX 5/2 & 5/3 Single & Double Operators – Remote Pilot

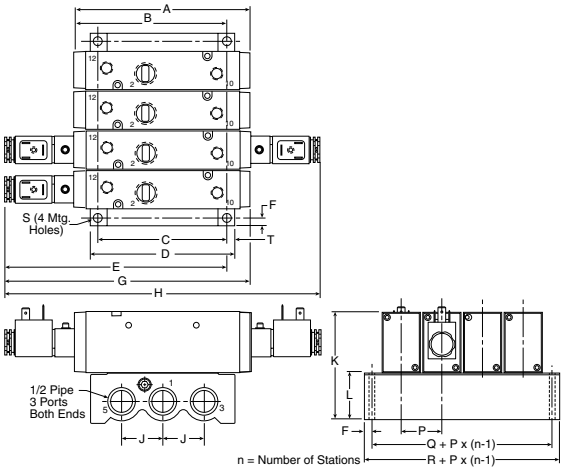


P2LAX 5/2 & 5/3 (remote)

A	B	C	C1	D
3.19 (81)	1.57 (40)	1.30 (33)	.14 (3.5)	1.59 (40.5)
E	**E1**	**E2**	**E3**	**F**
1.47 (16)	.31 (8)	1.42 (36)	.33 (8.5)	.63 (16)
F1	**G**	**H**	**H1**	**H2**
.67 (17)	.59 (15)	.87 (22)	.31 (8)	.24 (6)
J	**J1**	**M**	**N**	**N1**
.63 (16)	.12 (3)	.63 (16)	.12 (3)	.43 (11)
P	**P1**			
Ø .17 Ø (4.3)	Ø .12 Ø (3.1)			

Inches (mm)

P2LAX 3/2 Single & Double Operators – IEM Aluminum Bar Manifold

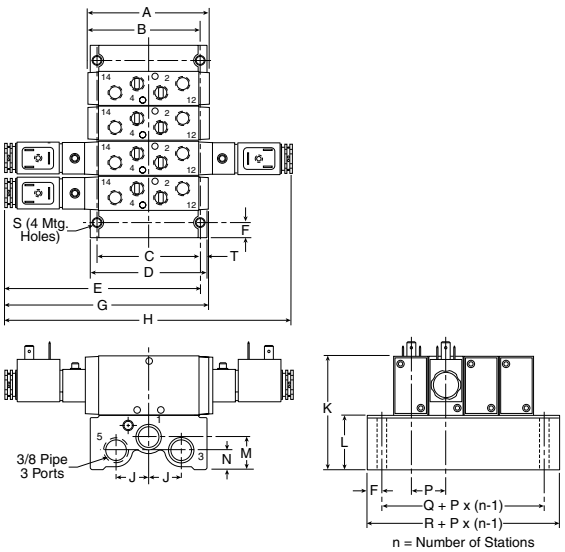


P2LAX 3/2
IEM Aluminum bar manifold

A	B	C	D	E
3.07 (78)	2.83 (72)	2.76 (70)	3.12 (79)	5.18 (132)
F	**G**	**H**	**J**	**K**
41 (10.5)	5.35 (136)	7.72 (193)	.87 (22)	3.11 (79)
L	**M**	**N**	**P**	**Q**
1.54 (39)	.87 (22)	.52 (13.2)	.93 (23.5)	1.56 (39.5)
R	**S**	**T**		
2.36 (60)	Ø .22 Ø (5.5)	.18 (4.5)		

Inches (mm)

P2LAX 5/2 & 5/3 Single & Double Operators – IEM Aluminum Bar Manifold



P2LAX 5/2 & 5/3
IEM Aluminum bar manifold

A	B	C	D	E
3.19 (81)	2.97 (76)	2.76 (70)	3.12 (79)	5.26 (134)
F	**G**	**H**	**J**	**K**
41 (10.5)	5.47 (139)	7.72 (196)	.87 (22)	3.11 (79)
L	**M**	**N**	**P**	**Q**
1.54 (39)	.87 (22)	.52 (13.2)	.93 (23.5)	1.56 (39.5)
R	**S**	**T**		
2.36 (60)	Ø .22 Ø (5.5)	.18 (4.5)		

Inches (mm)

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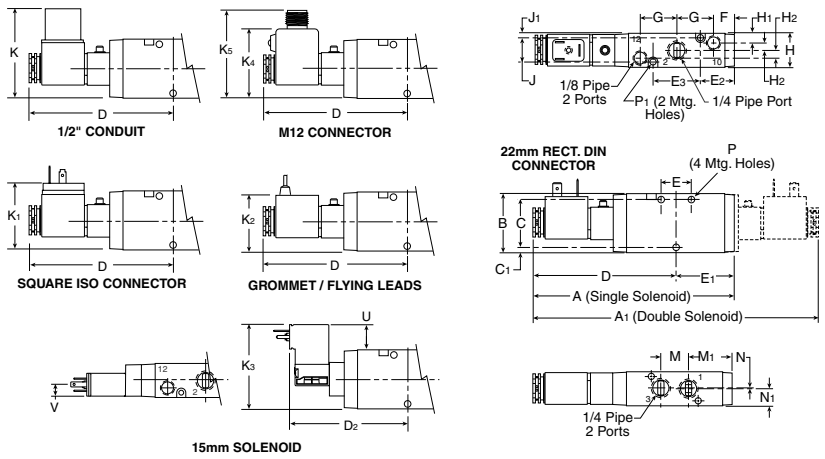
P2LBX 3/2 Single & Double Operators – Solenoid

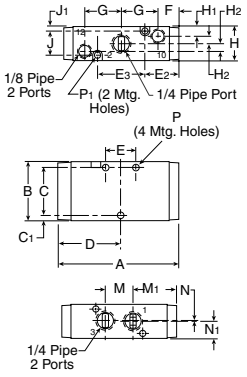


P2LBX 3/2 (solenoid)

A	A1	B	C	C1	D
5.35 (136)	7.60 (193)	1.57 (40)	1.26 (32)	.16 (4)	3.80 (96.5)
D2	**E**	**E1**	**E2**	**E3**	**F**
3.02 (76.8)	.79 (20)	1.54 (39)	.51 (13)	1.26 (32)	.55 (14)
G	**H**	**H1**	**H2**	**J**	**J1**
.98 (25)	.87 (22)	.26 (6.6)	.18 (4.5)	.65 (16.5)	.11 (2.9)
K	**K1**	**K2**	**K3**	**K4**	**K5**
2.36 (60)	1.61 (41)	1.50 (38)	2.24 (57)	1.63 (41.3)	2.10 (53.3)
M	**M1**	**N**	**N1**	**P**	**P1**
.79 (20)	1.14 (29)	.02 (0.5)	.42 (11)	Ø .17 Ø (4.3)	Ø .12 Ø (3.1)
U	**V**				
0.81 (20.5)	0.29 (7.5)				

Inches (mm)

P2LBX 3/2 Single & Double Operators – Remote Air Pilot

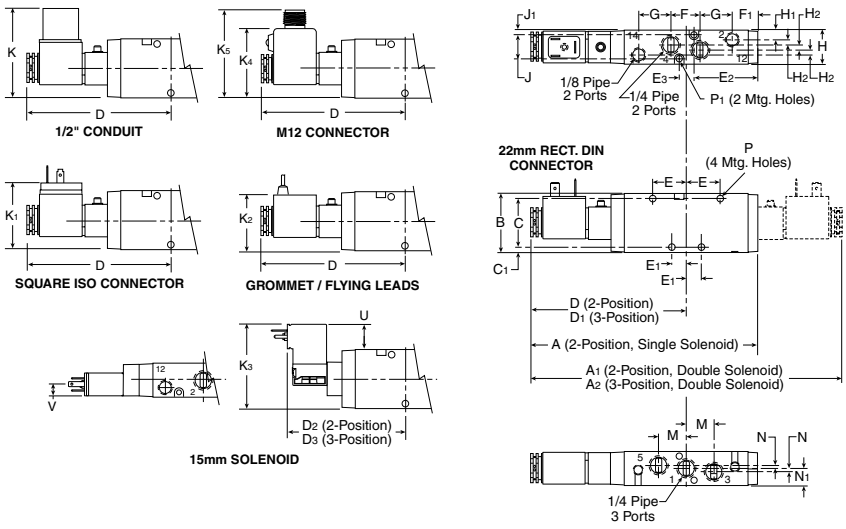


P2LBX 3/2 (remote air pilot)

A	B	C	C1	D	E
3.08 (78)	1.57 (40)	1.26 (32)	.16 (4)	1.54 (39)	.79 (20)
E2	**E3**	**F**	**G**	**H**	**H1**
.51 (13)	1.26 (32)	.55 (14)	.98 (25)	.87 (22)	.26 (6.6)
H2	**J**	**J1**	**M**	**M1**	**N**
.18 (4.5)	.65 (16.5)	.11 (2.9)	.79 (20)	1.14 (29)	.02 (0.5)
N1	**P**	**P1**			
.42 (11)	Ø .17 Ø (4.3)	Ø .12 Ø (3.1)			

Inches (mm)

P2LBX 5/2 & 5/3 Single & Double Operators – Solenoid



P2LBX 5/2 & 5/3 (solenoid)

A	A1	A2	B	C	C1
6.14 (156)	8.39 (213)	9.23 (235)	1.57 (40)	1.26 (32)	.16 (4)
D	**D1**	**D2**	**D3**	**E**	**E1**
4.21 (107)	4.64 (118)	3.48 (88.3)	3.92 (99.6)	.91 (23)	.39 (10)
E2	**E3**	**F**	**F1**	**G**	**H**
1.73 (44)	.39 (10)	.79 (20)	.67 (17)	.87 (22)	.87 (22)
H1	**H2**	**J**	**J1**	**K**	**K1**
.26 (6.6)	.12 (3)	.65 (16.5)	.12 (3)	2.36 (60)	1.61 (41)
K2	**K3**	**K4**	**K5**	**M**	**N**
1.50 (38)	2.24 (57)	1.70 (43.3)	2.10 (53.3)	.79 (20)	.08 (2)
N1	**P**	**P1**	**U**	**V**	
.43 (11)	Ø .17 Ø (4.3)	Ø .12 Ø (3.1)	0.81 (20.5)	0.29 (7.5)	

Inches (mm)

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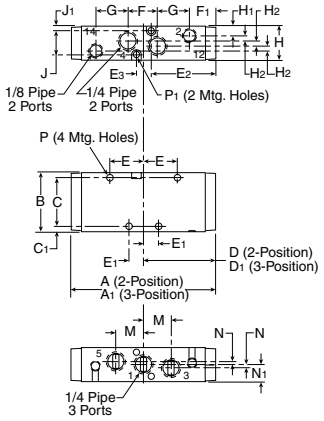
P2LBX 5/2 & 5/3 Single & Double Operators – Remote Air Pilot

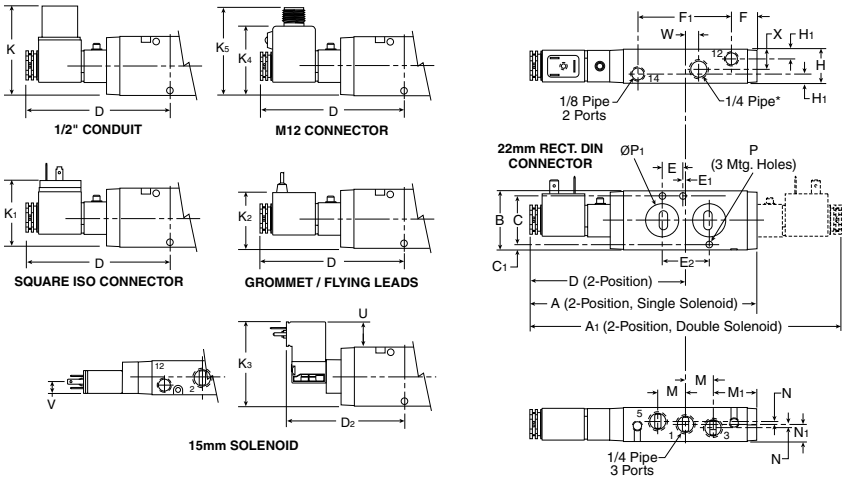


P2LBX 5/2 & 5/3 (remote air pilot)

A	A1	B	C	C1	D
3.95	4.61	1.57	1.26	.16	1.93
(100)	(117)	(40)	(32)	(4)	(49)
D1	**E**	**E1**	**E2**	**E3**	**F**
2.28	91	.39	1.73	.39	.79
(58)	(23)	(10)	(44)	(10)	(20)
F1	**G**	**H**	**H1**	**H2**	**J**
.67	.87	.8	.26	.12	.65
(17)	(22)	(22)	(6.6)	(3)	(16.5)
J1	**K**	**M**	**N**	**N1**	**P**
.11	2.90	.79	.08	.43	Ø .17
(2.8)	(74)	(20)	(2)	(11)	Ø (4.3)
P1					
Ø .12					
Ø (3.1)					

Inches (mm)

P2LBX 5/2 Single & Double Operators – Solenoid NAMUR



P2LBX 5/2 (NAMUR)

A	A1	B	C	C1	D
6.15	8.39	1.57	1.26	.16	4.21
(156)	(213)	(40)	(32)	(4)	(107)
D2	**E**	**E1**	**E2**	**F**	**F1**
3.48	.47	.08	.94	.67	2.52
(88.3)	(12)	(2)	(24)	(17)	(64)
K	**K1**	**K2**	**K3**	**K4**	**K5**
2.36	1.61	1.50	2.24	1.70	2.10
(60)	(41)	(38)	(57)	(43.3)	(53.3)
H	**H1**	**M**	**M1**	**N**	**N1**
.87	.26	.79	1.14	.08	.43
(22)	(6.6)	(20)	(29)	(2)	(11)
P	**P1**	**U**	**V**	**W**	**X**
Ø .22	Ø .76	0.81	0.29	0.39	0.50
Ø (5.5)	Ø (19.4)	(20.5)	(7.5)	(10)	(12.6)

Inches (mm)

* Valve includes 1/4 pipe plug, o-rings and mounting bolts.

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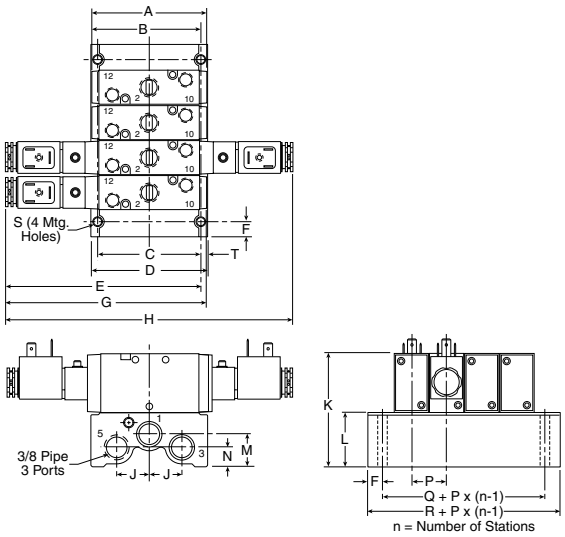
P2LBX 3/2 Single & Double Operators – IEM Aluminum Bar Manifold

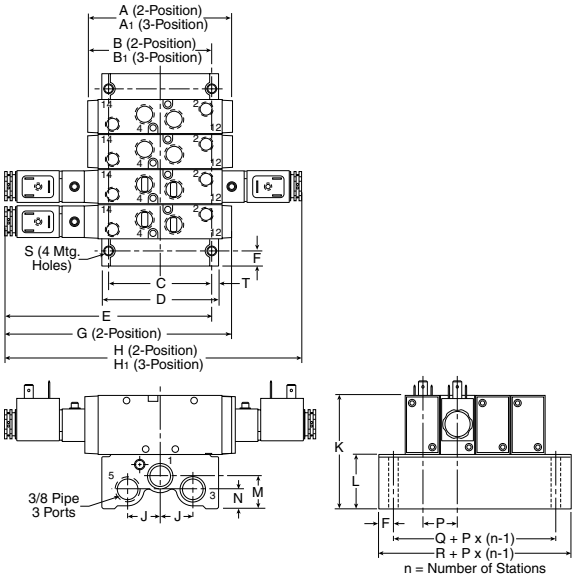


P2LBX 3/2
IEM Aluminum bar manifold

A	B	C	D	E
3.86 (78)	2.91 (74)	2.76 (70)	3.12 (79)	5.17 (131)
F	**G**	**H**	**J**	***K***
.40 (10.2)	5.33 (136)	7.6 (193)	.87 (22)	3.11 (79)
L	**M**	**N**	**P**	**Q**
1.47 (37)	.87 (22)	.52 (13.2)	.93 (23.5)	1.56 (39.6)
R	**S**	**T**		
2.36 (60)	Ø .22 Ø (5.5)	.18 (4.6)		

Inches (mm)

P2LBX 5/2 & 5/3 Single & Double Operators – IEM Aluminum Bar Manifold



P2LBX 5/2 & 5/3
IEM Aluminum bar manifold

A	A1	B	B1	C
3.86 (98)	4.70 (120)	3.42 (84)	3.73 (95)	2.76 (70)
D	**E**	**F**	**G**	**H**
3.12 (79)	5.59 (142)	.40 (10.2)	6.14 (156)	8.39 (213)
H1	**J**	**K**	**L**	**M**
9.23 (235)	.87 (22)	3.11 (79)	1.47 (37)	.87 (22)
N	**P**	**Q**	**R**	**S**
.52 (13.2)	.93 (23.5)	1.56 (39.6)	2.36 (60)	Ø .22 Ø (5.5)
T				
.18 (4.6)				

Inches (mm)

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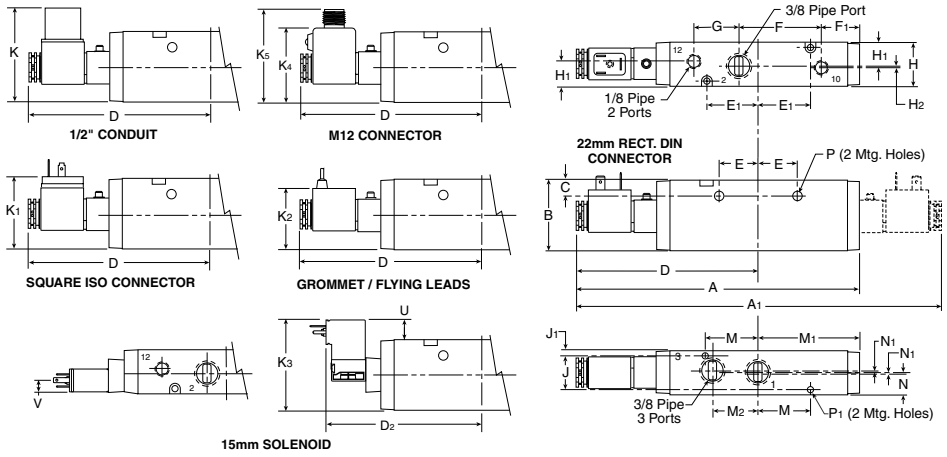
P2LCX 3/2 Single & Double Operators – Solenoid



P2LCX 3/2 (solenoid)

A	A1	B	C	D
7.66 (194.5)	9.80 (249)	1.89 (48)	.43 (11)	4.90 (124.5)

D2	E	E1	F	F1
4.17 (105.8)	1.04 (26.5)	1.40 (35.5)	2.24 (57)	1.02 (26)

G	H	H1	H2	J
1.22 (31)	1.18 (30)	.67 (17)	.02 (0.5)	.91 (23)

J1	K	K1	K2	K3
.14 (3.5)	2.52 (64)	1.77 (45)	1.65 (42)	2.41 (61.3)

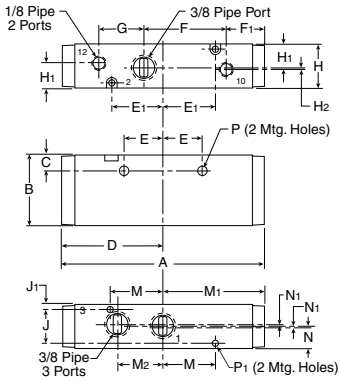
K4	K5	M	M1	M2
1.78 (45.3)	2.26 (57.3)	1.40 (35.5)	2.76 (70)	1.18 (30)

N	N1	P	P1	U
.55 (14)	.04 (1)	Ø .27 Ø (6.9)	Ø .17 Ø (4.4)	0.52 (13.3)

V
0.65 (7.5)

Inches (mm)

P2LCX 3/2 Single & Double Operators – Remote Air Pilot



P2LCX 3/2 (remote air pilot)

A	B	C	D	E
5.51 (140)	1.89 (48)	.43 (11)	2.76 (70)	1.04 (26.5)

E1	F	F1	G	H
1.40 (35.5)	2.24 (57)	1.02 (26)	1.22 (31)	1.18 (30)

H1	H2	J	J1	M
.67 (17)	.02 (0.5)	.91 (23)	.14 (3.5)	1.40 (35.5)

M1	M2	N	N1	P
2.76 (70)	1.18 (30)	.55 (14)	.04 (1)	Ø .27 Ø (6.9)

P1
Ø .17 Ø (4.4)

Inches (mm)

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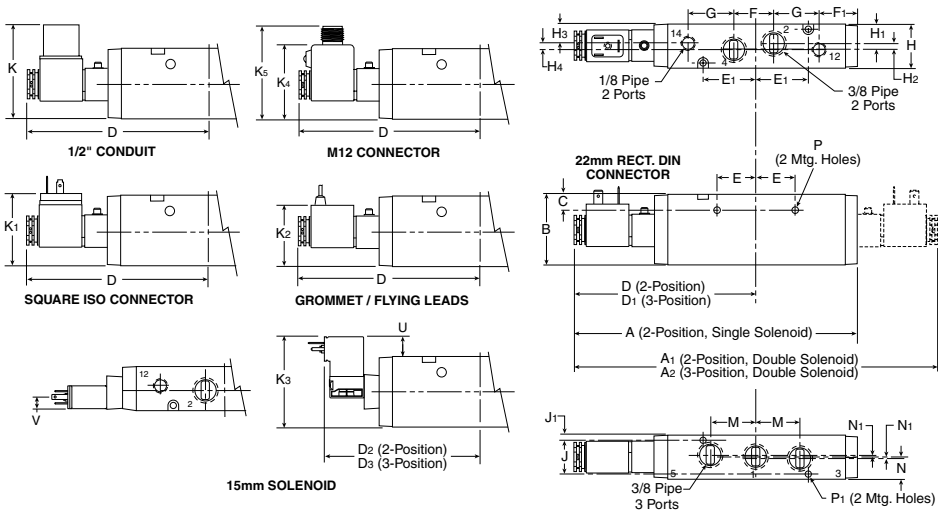
P2LCX 5/2 & 5/3 Single & Double Operators – Solenoid



P2LCX 5/2 & 5/3 (solenoid)

A	A1	A2	B	C
7.68 (195)	9.84 (250)	10.71 (272)	1.89 (48)	.43 (11)

D	D1	D2	D3	E
4.92 (125)	5.35 (136)	4.17 (105.8)	4.61 (117.2)	1.04 (26.5)

E1	F	F1	G	H
1.40 (35.5)	1.06 (27)	1.02 (26)	1.22 (31)	1.18 (30)

H1	H2	H3	H4	J
.53 (13.5)	.12 (3)	.51 (13)	.16 (4)	.91 (23)

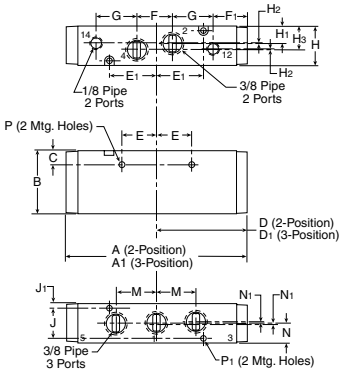
J1	K	K1	K2	K3
.14 (3.5)	2.52 (64)	1.77 (45)	1.65 (42)	2.41 (61.3)

K4	K5	M	N	N1
1.78 (45.3)	2.26 (57.3)	1.18 (30)	.55 (14)	.04 (1)

P	P1	U	V
Ø .27 Ø (6.9)	Ø .17 Ø (4.4)	0.52 (13.3)	0.29 (7.5)

Inches (mm)

P2LCX 5/2 & 5/3 Single & Double Operators – Remote Air Pilot



P2LCX 5/2 & 5/3 (remote air pilot)

A	A1	B	C	D	D1
5.51 (140)	6.38 (162)	1.89 (48)	.43 (11)	2.76 (70)	3.18 (81)

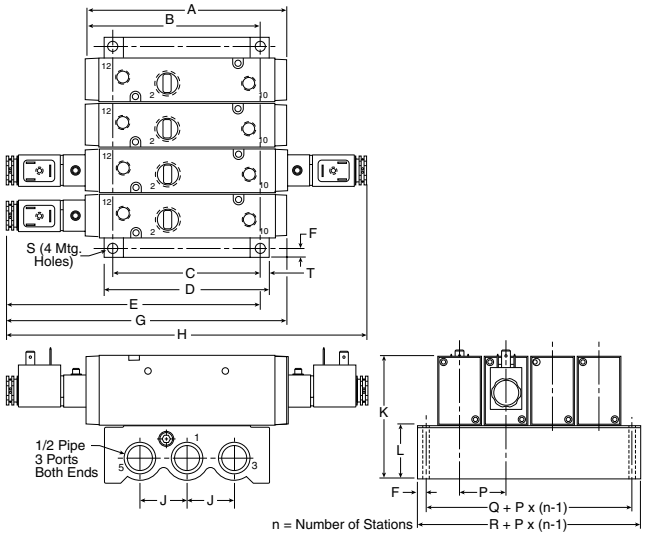
E	E1	F	F1	G	H
1.04 (26.5)	1.40 (35.5)	1.06 (27)	1.02 (26)	1.22 (31)	1.18 (30)

H1	H2	H3	J	J1	M
.51 (13)	.02 (0.5)	.12 (3)	.91 (23)	.14 (3.5)	1.18 (30)

N	N1	P	P1
.55 (14)	.04 (1)	Ø .27 Ø (6.9)	Ø .17 Ø (4.4)

Inches (mm)

P2LCX 3/2 Single & Double Operators – IEM Aluminum Bar Manifold



P2LCX 3/2
IEM Aluminum bar manifold

A	B	C	D	E	F
5.51 (140)	4.96 (126)	3.94 (100)	4.41 (112)	7.11 (180.5)	.24 (6)

G	H	J	K	L	P
7.66 (194.5)	9.80 (249)	1.26 (32)	3.43 (87)	1.54 (39)	1.24 (31.5)

Q	R	S	T
1.77 (45)	2.24 (57)	Ø .26 Ø (6.5)	.24 (6)

Inches (mm)

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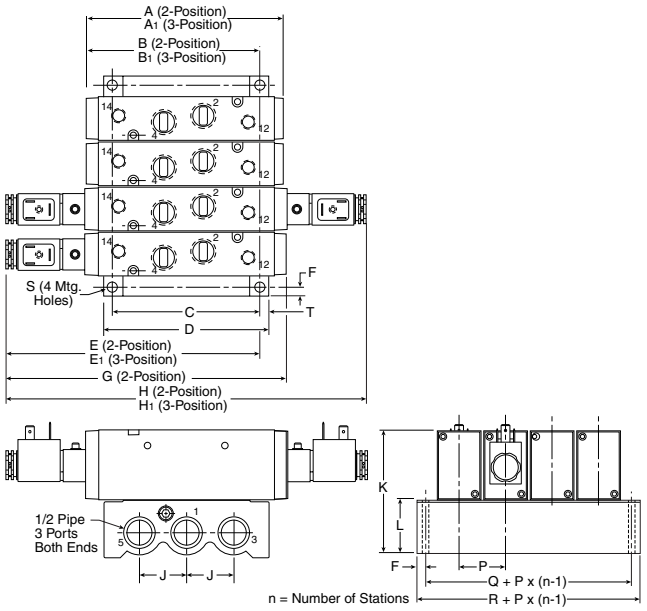
P2LCX 5/2 & 5/3 Single & Double Operators – IEM Aluminum Bar Manifold

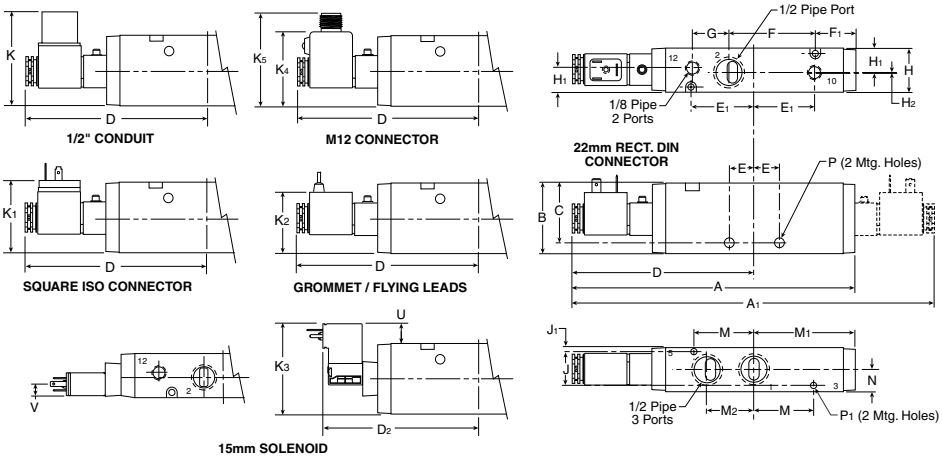


P2PCX 5/2 & 5/3
IEM Aluminum bar manifold

A	A1	B	B1	C
5.51	6.38	4.72	5.16	3.94
(140)	(162)	(120)	(131)	(100)
D	**E**	**E1**	**F**	**G**
4.41	6.89	7.13	.24	7.68
(112)	(170)	(181)	(6)	(195)
H	**H1**	**J**	**K**	**L**
9.84	10.71	1.26	3.43	1.54
(250)	(272)	(32)	(87)	(39)
P	**Q**	**R**	**S**	**T**
1.24	1.77	2.24	Ø .26	.24
(31.5)	(45)	(57)	Ø (6.5)	(6)

Inches (mm)

P2LDX 3/2 Single & Double Operators – Solenoid



P2LDX 3/2 (solenoid)

A	A1	B	C	D
7.66	9.80	1.89	1.59	4.90
(194.5)	(249)	(48)	(40.5)	(124.5)
D2	**E**	**E1**	**F**	**F1**
4.17	.67	1.65	2.36	1.08
(105.8)	(17)	(42)	(60)	(27.5)
G	**H**	**H1**	**H2**	**J**
.98	1.18	.67	.02	.91
(25)	(30)	(17)	(0.5)	(23)
J1	**K**	**K1**	**K2**	**K3**
.14	2.52	1.77	1.65	2.41
(3.5)	(64)	(45)	(42)	(61.3)
K4	**K5**	**M**	**M1**	**M2**
1.78	2.26	1.65	2.76	1.30
(45.3)	(57.3)	(42)	(70)	(33)
N	**P**	**P1**	**U**	**V**
.59	Ø .26	Ø .17	0.65	0.29
(15)	Ø (6.6)	Ø (4.4)	(16.5)	(7.5)

Inches (mm)

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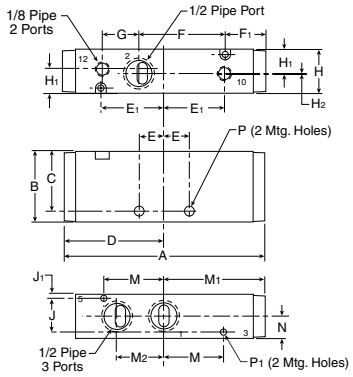
P2LDX 3/2 Single & Double Operators – Remote Air Pilot

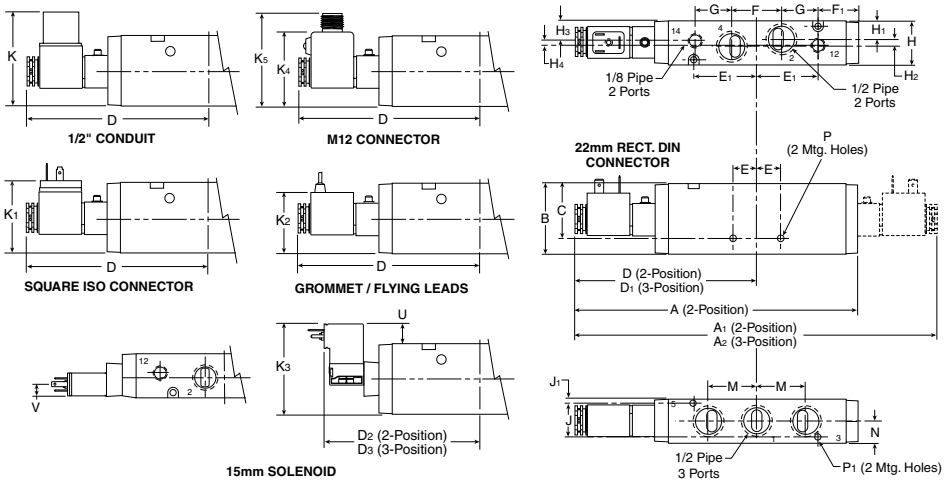


P2LDX 3/2 (remote air pilot)

A	B	C	D	E
5.51	1.89	1.59	2.76	.67
(140)	(48)	(40.5)	(70)	(17)
E1	**F**	**F1**	**G**	**H**
1.65	2.36	1.08	.98	1.18
(42)	(60)	(27.5)	(25)	(30)
H1	**H2**	**J**	**J1**	**M**
.67	.02	.91	.14	1.65
(17)	(0.5)	(23)	(3.5)	(42)
M1	**M2**	**N**	**P**	**P1**
2.76	1.30	.59	Ø .26	Ø .17
(70)	(33)	(15)	Ø (6.6)	Ø (4.4)

Inches (mm)

P2LDX 5/2 & 5/3 Single & Double Operators – Solenoid

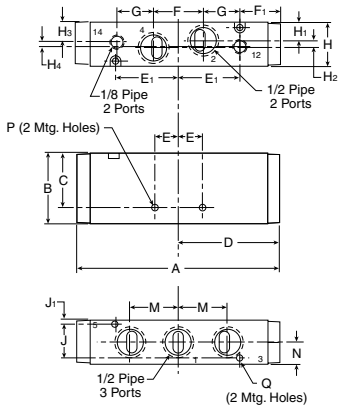


P2LDX 5/2 & 5/3 (solenoid)

A	A1	A2	B	C
7.67	9.84	10.7	1.89	1.59
(195)	(250)	(272)	(48)	(40.5)
D	**D1**	**D2**	**D3**	**E**
4.92	5.79	4.17	4.61	.67
(125)	(147)	(105.3)	(117.2)	(17)
E1	**F**	**F1**	**G**	**H**
1.65	1.34	1.10	.98	1.18
(42)	(34)	(28)	(25)	(30)
H1	**H2**	**H3**	**H4**	**J**
.49	.20	.51	.16	.91
(12.5)	(5)	(13)	(4)	(23)
J1	**K**	**K1**	**K2**	**K3**
.14	2.52	1.77	1.65	2.41
(3.5)	(64)	(45)	(42)	(61.3)
K4	**K5**	**M**	**N**	**P**
1.78	2.26	1.30	.59	Ø .26
(45.3)	(57.3)	(33)	(15)	Ø (6.6)
P1	**U**	**V**		
Ø .17	0.52	0.29		
Ø (4.4)	(13.3)	(7.5)		

Inches (mm)

P2LDX 5/2 & 5/3 Single & Double Operators – Remote Pilot



P2LDX 5/2 & 5/3 (remote)

A	B	C	D	E
5.47	1.89	1.59	2.63	.67
(139)	(48)	(40.5)	(67)	(17)
E1	**F**	**F1**	**G**	**H**
1.65	1.34	1.08	.98	1.18
(42)	(34)	(27.5)	(25)	(30)
H1	**H2**	**H3**	**H4**	**J**
.49	.20	.51	.16	.91
(12.5)	(5)	(13)	(4)	(23)
J1	**P**	**M**	**N**	**Q**
.14	Ø .26	1.29	.59	Ø .17
(3.5)	Ø (6.6)	(32.7)	(15)	Ø (4.4)

Inches (mm)

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Parker Canada Division
Milton, Ontario
www.parker.com/CRN

Viking Xtreme Manual Series

The Viking Xtreme Manual valve range is robust, versatile and combines high performance with compact installation dimensions. The valves rugged lever actuator has been specifically designed for gloved hands to suit mobile applications in the most arduous of environments. Available in 3/2, 5/2 and 5/3 functions with either spring return or detented lever. The lever actuated versions are available across the entire range from 1/8 to 1/2 port sizes.

- **Heavy duty lever**
- **Inline valve**
  – 1/8", 1/4", 3/8", 1/2" NPT & BSPP
- **2-position models**
  – 4-way & 3-way
- **3-position models**
  – all ports blocked
  – pressure center
  – center exhaust
- **Approval**
  – Canada Registration Number available (CRN)
- **Over-moulded single piece aluminium spool**
  – Reduced product complexity
  – Increased flow
  – Wide operating temperature range
  – Stable seal performance even with high flow / pressure drop across spool.

Operating information

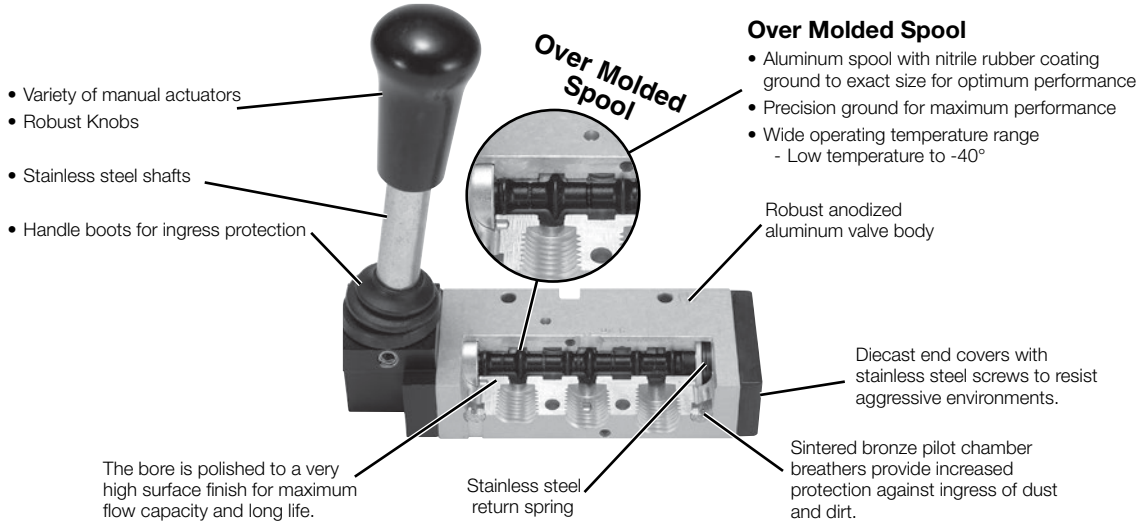
Operating pressure:	Type A & B:	Vacuum to 232 PSIG (Vacuum to 16 bar Max.)
	Type C & D:	Vacuum to 174 PSIG (Vacuum to 12 bar Max.)
Temperature range:	Xtreme:	-40°F to 140°F (-40°C to 60°C)

Material specifications

End covers	Anodized aluminum
Lever	Reinforced polyamide plastic
Lever housing	Acetal plastic
Piston	Acetal plastic / anodized aluminum
Seals	Nitrile rubber
Screws	Stainless steel
Spool	Aluminum & nitrile rubber
Springs	Stainless steel
Valve body	Anodized aluminum

Lever Handle – 1/8" valve size, 5/2 & 5/3 only	**Twist Handle – 1/4" valve sizes**	**Lever Handle – All other valve sizes**
		

Features



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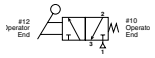
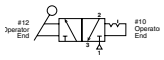
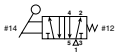
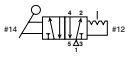
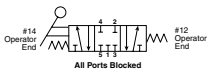
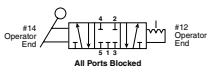
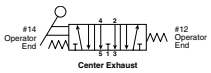
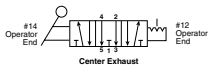
Viking Xtreme Manual Series

3/2 - 2-position *	Symbol	Valve type	Port size	Cv	Weight lb (kg)	Part number NPT	Part number BSPP
		Lever spring return	1/8	0.6	0.73 (0.33)	**P2LAX391VS**	**P2LAX311VS**
			1/4	1.5	0.73 (0.33)	**P2LBX392VS**	**P2LBX312VS**
			3/8	2.5	0.88 (0.40)	**P2LCX393VS**	**P2LCX313VS**
			1/2	2.7	1.32 (0.60)	**P2LDX394VS**	**P2LDX314VS**
		Lever detent	1/8	0.7	0.73 (0.33)	**P2LAX391VV**	**P2LAX311VV**
			1/4	1.3	0.73 (0.33)	**P2LBX392VV**	**P2LBX312VV**
			3/8	2.5	0.88 (0.40)	**P2LCX393VV**	**P2LCX313VV**
			1/2	2.7	1.32 (0.60)	**P2LDX394VV**	**P2LDX314VV**

5/2 - 2-position *	Symbol	Valve type	Port size	Cv	Weight lb (kg)	Part number NPT	Part number BSPP
		Lever spring return	1/8	0.6	0.40 (0.18)	**P2LAX591VS**	**P2LAX511VS**
			1/4	1.5	0.73 (0.33)	**P2LBX592VS**	**P2LBX512VS**
			3/8	2.5	0.88 (0.40)	**P2LCX593VS**	**P2LCX513VS**
			1/2	2.7	1.32 (0.60)	**P2LDX594VS**	**P2LDX514VS**
		Lever detent	1/8	0.7	0.40 (0.18)	**P2LAX591VV**	**P2LAX511VV**
			1/4	1.3	0.73 (0.33)	**P2LBX592VV**	**P2LBX512VV**
			3/8	2.5	0.88 (0.40)	**P2LCX593VV**	**P2LCX513VV**
Size P2LAX Shown			1/2	2.7	1.32 (0.60)	**P2LDX594VV**	**P2LDX514VV**

5/3 - 3-position,* all ports blocked	Symbol	Valve type	Port size	Cv	Weight lb (kg)	Part number NPT	Part number BSPP
		Lever spring center	1/8	0.6	0.40 (0.18)	**P2LAX69111**	**P2LAX61111**
			1/4	1.5	0.73 (0.33)	**P2LBX69211**	**P2LBX61211**
			3/8	2.5	1.56 (0.71)	**P2LCX69311**	**P2LCX61311**
Size P2LAX Shown			1/2	2.7	1.61 (0.73)	**P2LDX69411**	**P2LDX61411**
		Lever detent	1/8	0.7	0.40 (0.18)	**P2LAX69122**	**P2LAX61122**
			1/4	1.3	0.73 (0.33)	**P2LBX69222**	**P2LBX61222**
			3/8	2.5	1.56 (0.71)	**P2LCX69322**	**P2LCX61322**
			1/2	2.7	1.61 (0.73)	**P2LDX69422**	**P2LDX61422**

5/3 - 3-position,* center exhaust	Symbol	Valve type	Port size	Cv	Weight lb (kg)	Part number NPT	Part number BSPP
		Lever spring center	1/8	0.6	0.40 (0.18)	**P2LAX89111**	**P2LAX81111**
			1/4	1.5	0.73 (0.33)	**P2LBX89211**	**P2LBX81211**
			3/8	2.5	1.56 (0.71)	**P2LCX89311**	**P2LCX81311**
			1/2	2.7	1.61 (0.73)	**P2LDX89411**	**P2LDX81411**
		Lever detent	1/8	0.7	0.40 (0.18)	**P2LAX89122**	**P2LAX81122**
			1/4	1.3	0.73 (0.33)	**P2LBX89222**	**P2LBX81222**
			3/8	2.5	1.56 (0.71)	**P2LCX89322**	**P2LCX81322**
			1/2	2.7	1.61 (0.73)	**P2LDX89422**	**P2LDX81422**

***** Valve lever movement 90° to ports.

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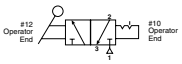
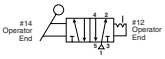
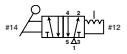
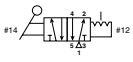
Viking Xtreme Manual Series

3/2 - 2-position	Symbol	Valve type	Port size	Cv		Part number NPT	Part number BSPP
		Twist handle detent	1/4	1.3	0.73 (0.33)	**P2LBX392JJ**	**P2LBX312JJ**

5/2 - 2-position	Symbol	Valve type	Port size	Cv		Part number NPT	Part number BSPP
		Twist handle detent	1/4	1.3	0.73 (0.33)	**P2LBX592JJ**	**P2LBX512JJ**

5/2 - 2-position *	Symbol	Valve type	Port size	Cv		Part number NPT	Part number BSPP
		Lever spring return	1/4	1.3	0.73 (0.33)	**P2LBX592ZS**	**P2LBX512ZS**
		Lever detent	1/4	1.3	0.73 (0.33)	**P2LBX592ZZ**	**P2LBX512ZZ**

***** Valve lever movement inline to ports.

Viking Xtreme Manual Operated Valves

Vacuum to 232 PSIG (Vacuum to 16 bar) -40°F to 140°F (-40°C to 60°C)

P2L A X 5 91 VS

Valve size	
1/8"	A
1/4"	**B**
3/8"	**C**
1/2"	D

Valve type / function	
3/2 NC - 2-position	**3**
5/2 2-position	**5**
5/3 3-position, APB	**6**
5/3 3-position, PC	7
5/3 3-position, CE	**8**

Actuator / position / lever	
JJ*	**Twist handle detent, 2-position**
VS	**Spring return lever, 2-position, 90° to ports**
VV	**Lever, detent, 2-position, 90° to ports**
ZS**	Spring return lever, 2-position, inline to ports
ZZ**	Lever detent, 2-position, inline to ports
11	Spring centered lever, 3-position, 90° to ports
22	Lever, detent, 3-position, 90° to ports
55**	Spring return lever, 3-position, inline to ports
66**	Lever detent, 3-position, inline to ports

* Not available with 3-position valves. Available Size B only.
** Size B valve only.

Main port thread	
11	G1/8 (P2LA)
12	G1/4 (P2LB)
1N*	G1/4 (P2LB) NAMUR mount
13	G3/8 (P2LC)
14	G1/2 (P2LD)
91	**1/8" NPT (P2LA)**
92	**1/4" NPT (P2LB)**
9N*	**1/4 NPT (P2LB) NAMUR mount**
93	**3/8" NPT (P2LC)**
94	1/2" NPT (P2LD)

* 5/2, 2-position valve only.

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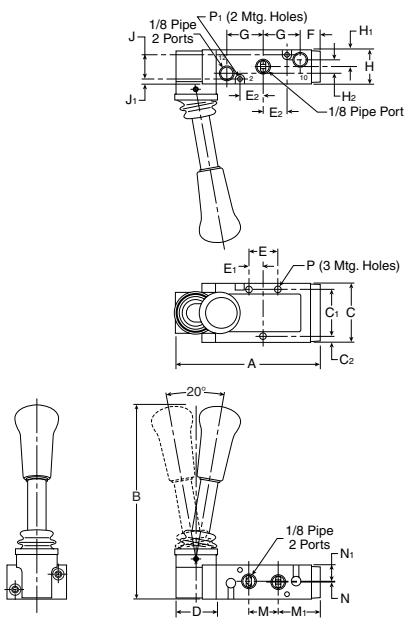
P2LAX 3/2 Hand Lever Operated
Lever operation 90° to ports movement

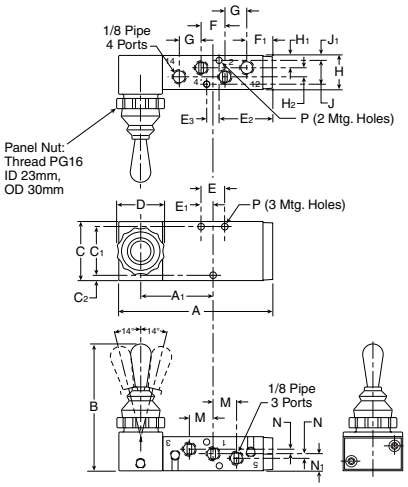


P2LAX 3/2

A	B	C
3.88 (99)	5.23 (133)	1.57 (40)
C1	**C2**	**D**
1.26 (32)	.16 (4)	1.06 (27)
E	**E1**	**E2**
.79 (20)	.39 (10)	.63 (16)
F	**G**	**H**
.55 (14)	.98 (25)	.87 (22)
H1	**H2**	**J**
.42 (10.6)	.02 (0.5)	.65 (16.5)
J1	**M**	**M1**
.11 (2.9)	.79 (20)	1.14 (29)
N	**N1**	**P**
.18 (4.5)	.26 (6.6)	Ø .17 Ø (4.3)
P1		
Ø .12 Ø (3.1)		

Inches (mm)

P2LAX 5/2 & 5/3 Hand Lever Operated
Lever operation 90° to ports movement

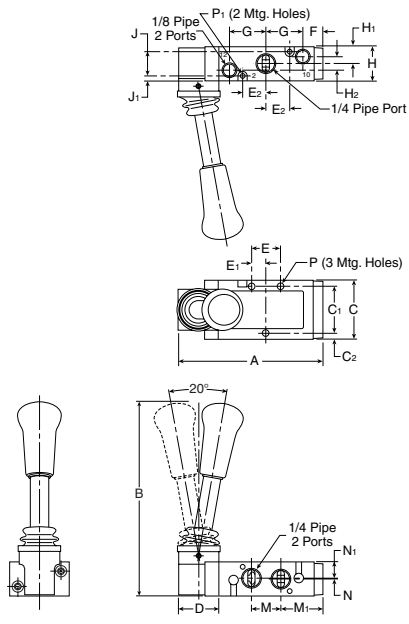


P2LAX 5/2 & 5/3

A	A1	B
4.02 (102)	1.89 (48)	3.23 (82)
C	**C1**	**C2**
1.57 (40)	1.30 (33)	.14 (3.5)
D	**E2**	**E3**
1.18 (30)	1.42 (36)	.33 (8.5)
F	**F1**	**G**
.63 (16)	.67 (17)	.59 (15)
H	**H1**	**H2**
.87 (22)	.31 (8)	.24 (6)
J	**J1**	**M**
.63 (16)	.12 (3)	.63 (16)
N	**N1**	**P**
.12 (3)	.43 (11)	Ø .16 Ø (4.1)

Inches (mm)

P2LBX 3/2 Hand Lever Operated
Lever operation 90° to ports movement

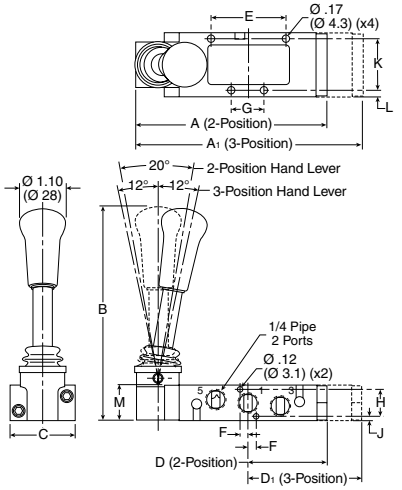


P2LBX 3/2

A	B	C
3.88 (99)	5.23 (133)	1.57 (40)
C1	**C2**	**D**
1.26 (32)	.16 (4)	1.06 (27)
E	**E1**	**E2**
.79 (20)	.39 (10)	.63 (16)
F	**G**	**H**
.55 (14)	.98 (25)	.87 (22)
H1	**H2**	**J**
.42 (10.6)	.02 (0.5)	.65 (16.5)
J1	**M**	**M1**
.11 (2.9)	.79 (20)	1.14 (29)
N	**N1**	**P**
.18 (4.5)	.26 (6.6)	Ø .17 Ø (4.3)
P1		
Ø .12 Ø (3.1)		

Inches (mm)

P2LBX 5/2 & 5/3 Hand Lever Operated
Lever operation 90° to ports movement



P2LBX 5/2 & 5/3

A	A1	B
4.67 (118.5)	5.51 (140)	5.19 (131.8)
C	**D**	**D1**
1.57 (40)	1.93 (49)	2.35 (59.8)
E	**F**	**G**
1.81 (46)	.20 (5)	.79 (20)
H	**J**	**K**
.65 (16.5)	.11 (2.85)	1.26 (32)
L	**M**	
.16 (4)	.87 (22.2)	

Inches (mm)

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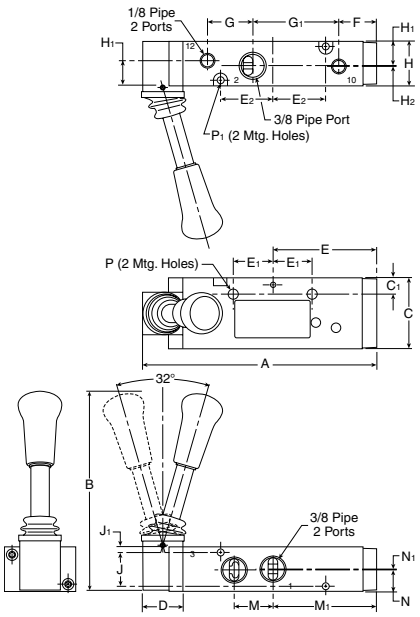
P2LCX 3/2 Hand Lever Operated
Lever operation 90° to ports movement

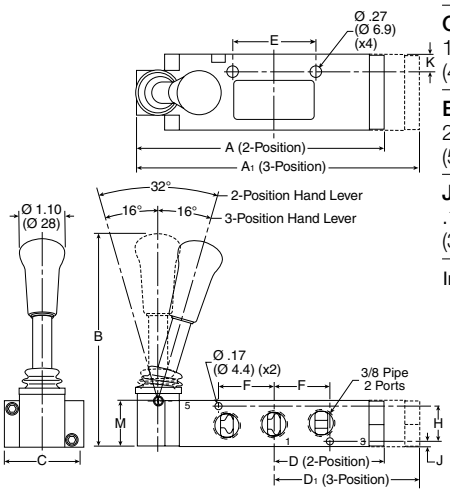


P2LCX 3/2

A	B	C
6.20 (158)	5.36 (136)	1.89 (48)
C1	**D**	**E**
.43 (11)	1.06 (27)	2.76 (70)
E1	**E2**	**F**
1.04 (27)	1.40 (36)	1.02 (26)
G	**G1**	**H**
1.22 (31)	2.24 (57)	1.18 (30)
H1	**H2**	**J**
.67 (17)	.02 (0.5)	.91 (23)
J1	**M**	**M1**
.14 (3.5)	1.18 (30)	2.76 (70)
N	**N1**	**P**
.59 (15)	.04 (1)	Ø .27 Ø (6.9)
P1		
Ø .17 Ø (4.4)		

Inches (mm)

P2LCX 5/2 & 5/3 Hand Lever Operated
Lever operation 90° to ports movement

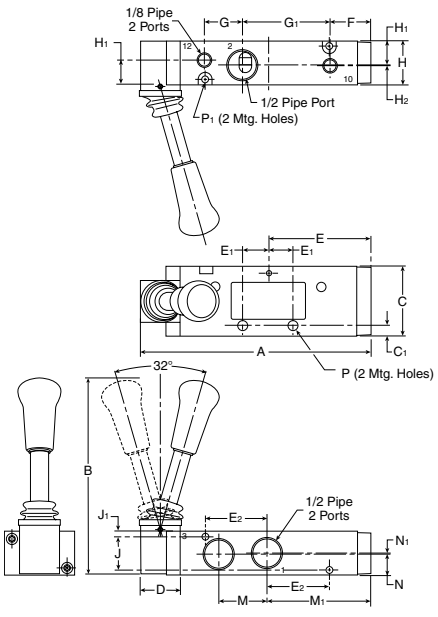


P2LCX 5/2 & 5/3

A	A1	B
6.20 (157.5)	7.07 (179.5)	5.36 (136.3)
C	**D**	**D1**
1.89 (48)	2.76 (70)	3.19 (81)
E	**F**	**H**
2.09 (53)	1.40 (35.5)	.91 (23)
J	**K**	**M**
.14 (3.5)	.43 (11)	1.18 (30)

Inches (mm)

P2LDX 3/2 Hand Lever Operated
Lever operation 90° to ports movement

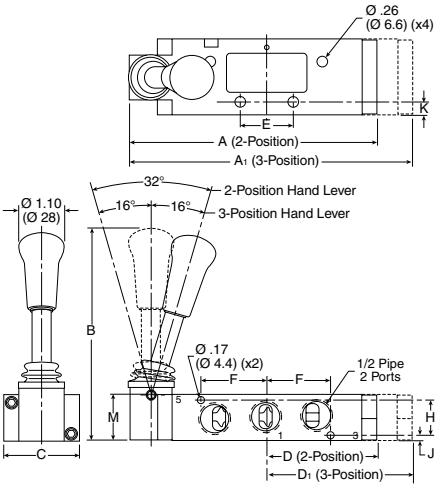


P2LDX 3/2

A	B	C
6.20 (158)	5.36 (136)	1.89 (48)
C1	**D**	**E**
.30 (7.5)	1.06 (27)	2.76 (70)
E1	**E2**	**F**
.67 (17)	1.65 (42)	1.08 (28)
G	**G1**	**H**
.98 (25)	2.36 (60)	1.18 (30)
H1	**H2**	**J**
.67 (17)	.02 (0.5)	.91 (23)
J1	**M**	**M1**
.14 (3.5)	1.30 (33)	2.76 (70)
N	**N1**	**P**
.59 (15)	.04 (1)	Ø .26 Ø (6.6)
P1		
Ø .17 Ø (4.4)		

Inches (mm)

P2LDX 5/2 & 5/3 Hand Lever Operated
Lever operation 90° to ports movement



P2LDX 5/2 & 5/3

A	A1	B
6.20 (157.5)	7.07 (179.5)	5.36 (136.3)
C	**D**	**D1**
1.89 (48)	3.19 (81)	2.76 (70)
E	**F**	**H**
1.34 (34)	1.65 (42)	.91 (23)
J	**K**	**M**
.14 (3.5)	.30 (7.5	1.18 (30)

Inches (mm)

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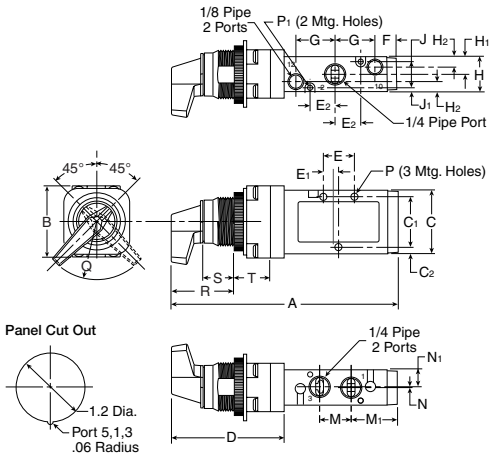
P2LBX 3/2 Twist Lever Operated



P2LBX 3/2

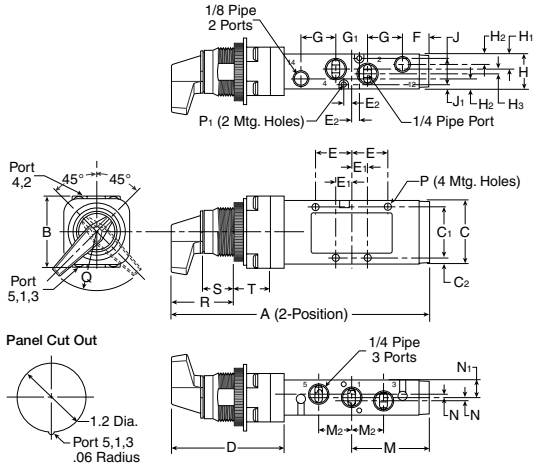
A	B	C	C1	C2	D	E	E1	E2
5.67	1.79	1.57	1.26	.16	2.87	.79	.39	.63
(144)	(45.5)	(40)	(32)	(4)	(73)	(20)	(10)	(16)

F	G	H	H1	H2	J	J1	M	M1
.55	.98	.87	.44	.26	.65	.11	.79	1.14
(14)	(25)	(22.2)	(11.1)	(6.6)	(16.5)	(2.9)	(20)	(29)

N	N1	P	P1	Q	R	S	T
.02	.42	Ø .17	Ø .12	1.5R	1.85	1.10	.67
(0.5)	(10.6)	Ø (4.3)	Ø (3.1)	(38.1)R	(47)	(28)	(17)

Inches (mm)

P2LBX 5/2 Twist Lever Operated



P2LBX 5/2

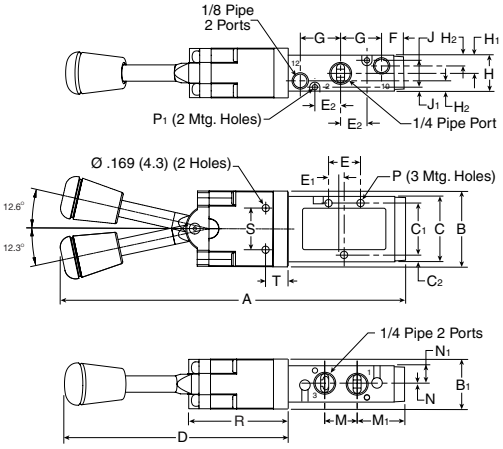
A	B	C	C1	C2	D	E	E1	E2	F
6.46	1.79	1.57	1.26	.15	2.87	.91	.39	.20	.67
(164)	(45.5)	(40)	(32)	(4)	(73)	(23)	(10)	(5)	(17)

G	G1	H	H1	H2	H3	J	J1	M	M2
.87	.79	.87	.44	.26	.12	.65	.11	1.93	.79
(22)	(20)	(22.2)	(11.1)	(6.6)	(3)	(16.5)	(2.9)	(49)	(20)

N	N1	P	P1	Q	R	S	T
.08	.44	Ø .17	Ø .12	1.5R	1.85	1.10	.67
(0.2)	(11.1)	Ø (4.3)	Ø (3.1)	(38.1)R	(47)	(28)	(17)

Inches (mm)

P2LBX 3/2 Knob Lever Operated
Lever operation inline with ports



P2LBX 3/2

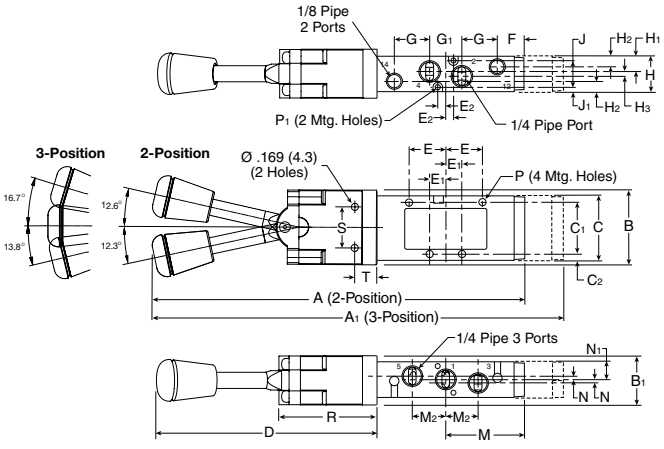
A	B	B1	C	C1	C2	D	E	E1
8.19	1.79	1.2	1.57	1.26	.16	5.39	.79	.39
(208)	(45.5)	(30.5)	(40)	(32)	(4)	(137)	(20)	(10)

E2	F	G	H	H1	H2	J	J1	M
.63	.55	.98	.87	.44	.26	.65	.11	.79
(16)	(14)	(25)	(22.2)	(11.1)	(6.6)	(16.5)	(2.9)	(20)

M1	N	N1	P	P1	R	S	T
1.14	.02	.42	Ø .17	Ø .12	2.38	.98	.52
(29)	(0.5)	(10.6)	Ø (4.3)	Ø (3.1)	(60.5)	(25.0)	(13.2)

Inches (mm)

P2LBX 5/2 & 5/3 Knob Lever Operated
Lever operation inline with ports



P2LBX 5/2 & 5/3

A	A1	B	B1	C	C1	C2	D	E	E1
8.97	9.84	1.79	1.2	1.57	1.26	.15	5.39	.91	.39
(228)	(250)	(45.5)	(30.5)	(40)	(32)	(4)	(137)	(23)	(10)

E2	F	G	G1	H	H1	H2	H3	J	J1
.20	.67	.87	.79	.87	.44	.26	.12	.65	.11
(5)	(17)	(22)	(20)	(22.2)	(11.1)	(6.6)	(3)	(16.5)	(2.9)

M	M2	N	N1	P	P1	R	S	T
1.93	.79	.08	.44	Ø .17	Ø .12	2.38	.98	.52
(49)	(20)	(0.2)	(11.1)	Ø (4.3)	Ø (3.1)	(60.5)	(25.0)	(13.2)

Inches (mm)

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All CRN certifications can be downloaded from: parker.com/crn.

EZ Series

The EZ series meets all the same standards as the LV series with the added feature of a soft start when opened. There are still 2 detented positions for the handle (push close, pull to open), but when pulled open, an adjustable needle valve controls the rate of pressure build-up. This can protect equipment during start up after maintenance. The EZ is distinguishable from the LV series by the blue dot on the label.

CRN: 0C19618

Features

- Combines lockout and soft-start functions in a single unit
- Used in systems for compliance with OSHA standard 29 CFR part 1910
- 3/8 Inch to 1-1/4 inch pipe sizes
- Cv's from 3.7 to 13.7
- 3/4 and 1-1/4 inch: exhaust ports available
- Exhaust port threaded for installation of silencer or line for remote exhausting
- Inline or surface mountable
- Yellow cast aluminum body with red handle. Blue dot on body indicates EZ Series valve
- Fluorocarbon slipper seals for easy shifting, even after long periods of inactivity

Material specifications

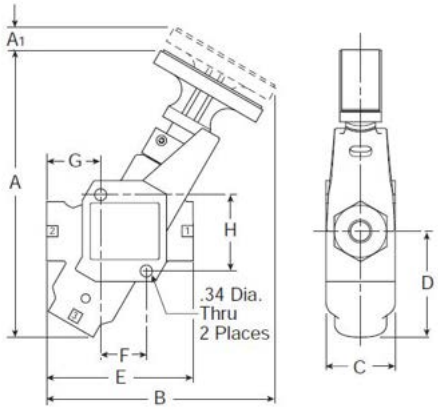
Description	
Body:	Cast aluminum alloy
Handle:	Plastic
Spool:	Aluminum
Seals:	Carboxylated nitrile
Detent spring:	Stainless steel
Grease:	Magnalube G †

† Trademark Magnalube

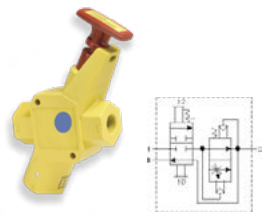
Operating information

CRN Registered Max. Working Pressure:	290 psi (20.0 bar)
Operating pressure:	
Standard	15 to 300 PSIG
Operating temperature:	40°F to 175°F

Operating media: Clean, dry, compressed air (5 micron)



EZ Series



Port in/out	Port exhaust	SCFM in/out	SCFM exhaust	Wt (lb)	Part number *
3/8	3/4	136.4	181	2.1	EZ03NB6-CRN
1/2	3/4	161.4	189	2.1	EZ04NB6-CRN
3/4	3/4	181.9	216	2.1	EZ06NB6-CRN
3/4	1-1/4	272.7	248	3.2	EZ06NBA-CRN
1	1-1/4	311.4	273	3.2	EZ08NBA-CRN
1-1/4	1-1/4	368.2	291	3.2	EZ0ANBA-CRN

NOTE: Exhaust flow rates calculated using inlet pressure 100 psig (6.7 bar), pressure drop 5 psi (0.34 bar), air temp 68°F (20°C), and 36% relative humidity.
* For BSPP ports, change 5th digit from "N" to "B"

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Milton, Ontario
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All CRN certifications can be downloaded from: parker.com/crn.

LV Series

Lockout valves are installed in pneumatic drop legs, or individual pneumatic control lines. In accordance with OSHA procedures, lockout valves are used during maintenance and service procedures of pneumatically (air) operated equipment.

CRN: 0C19618

- Used for compliance with OSHA 29 CFR part 1910
- 1/4" to 2" pipe sizes. NPT or BSPP
- Yellow cast aluminum body with red handle or stainless steel (NACE MR0175 / ISO 15156)
- Inline or surface mountable
- Built in port for pressure verification to meet ANSI B11 and PMMI B155 requirements
- Fluorocarbon slipper seals for easy shifting, even after long periods of inactivity

Material specifications

Description	LV
Body:	Cast aluminum alloy
Handle:	Plastic
Spool:	Aluminum
Seals:	Carboxylated nitrile
Detent spring:	Stainless steel
Grease:	Magnalube G †

† Trademark Magnalube

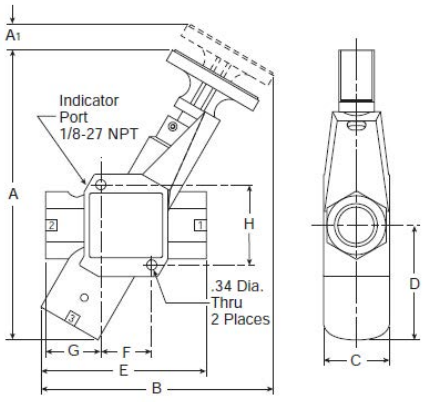
Operating information

CRN Registered Max. Working Pressure: 290 psi (20.0 bar)

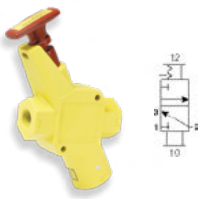
Operating pressure:	LV
Compact	15 to 145 PSIG
Standard	15 to 300 PSIG
High flow	15 to 300 PSIG

Operating temperature: 40°F to 175°F 30°F to 175°F

Operating media: Clean, dry, compressed air (5 micron)



Standard



Port in/out	Port exhaust	SCFM in/out	SCFM exhaust	Wt (lb)	Part number *
3/8	3/4	107.7	81.1	2.0	LV3N6B-CRN
1/2	3/4	161.4	90.9	2.0	LV4N6B-CRN
3/4	3/4	187.7	93.2	2.0	LV6N6B-CRN
3/4	1-1/4	297.7	204	3.2	LV6NAB-CRN
1	1-1/4	375	216	3.2	LV8NAB-CRN
1-1/4	1-1/4	436.4	221	3.2	LVANAB-CRN

NOTE: Exhaust flow rates calculated using inlet pressure 100 psig (6.7 bar), pressure drop 5 psi (0.34 bar), air temp 68°F (20°C), and 36% relative humidity.
* For BSPP ports, change 4th digit from “N” to “B”

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Parker Canada Division
Milton, Ontario
www.parker.com/canada

ADDITIONAL RESOURCES

CANADIAN REGISTRATION NUMBER LOCATOR

CRN

In order to legally install and operate a variety of pressure retaining systems in Canada, a CRN may be required on parts being used. Parker Canada wants to ensure your purchase upholds a high standard of safety and quality.

Locate the accompanying CRN for purchased Parker parts. Look for products that have an existing CRN; *parker.com/crn.*

SCAN ME

OTHER RESOURCES

Express Program

Express Programs offer quicker lead times on common configurations across multiple technologies.

See if your products qualify to get parts faster; *parker.com/express*

etools

Parker Canada Division is sharing a collection of the most useful online resources. Whether you need a product configurator, competitive crossover, or CRN declaration, find what you need on eTools.

Find all the tools you need; *parker.com/etools*

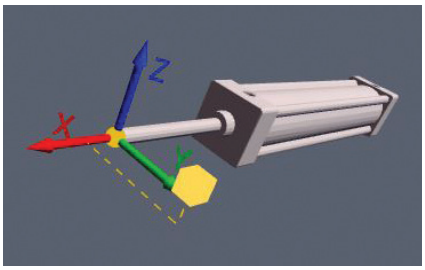
Parker

FACTORY AUTOMATION

Virtual Engineer

Parker's Virtual Engineer is an innovative design tool for linear motion applications in automation save engineering time with three simple steps:

- Enter application details using the intuitive interface
- Size and select products based on expert recommendations
- Get a quote, share your project, and download files easily



Meet your virtual engineer at www.parker.com/virtualengineer

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