

**Pneumatic Division**

Richland, Michigan USA

[www.parker.com/pneumatics](http://www.parker.com/pneumatics)**COMBINATION UNITS**

<b>Bulletin Number</b>	<b>Bulletin Description</b>		
<input type="checkbox"/> <a href="#">2F101H</a>	Rev. 14	05 / 06 / 07 Filter, Installation & Service	
<input type="checkbox"/> <a href="#">2R101G</a>	Rev. 15	05 / 06 / 07 Regulator, Installation & Service	
<input type="checkbox"/> <a href="#">2L101E</a>	Rev. 9	05 / 06 / 07 Lubricator, Installation & Service	
<input type="checkbox"/> <a href="#">2FR100G</a>	Rev. 12	05 / 06 / 07 Filter/Regulator, Installation & Service	
<input type="checkbox"/> <a href="#">2M100D</a>	Rev. 6	05 / 06 / 07 Modular Kits	
<input type="checkbox"/> <a href="#">1R402F</a>	Rev. 12	14G "B" Installation & Service	
<input type="checkbox"/> <a href="#">1R602</a>	Rev. 7	14G "C" Installation & Service	
<input type="checkbox"/> <a href="#">5FRL100</a>	Rev. 5	Global P3 Air Preparation Systems	
<input type="checkbox"/> <a href="#">P3Y-INC</a>	Rev. 5	Global P3Y Hi-Flow, Installation & Service	
<input type="checkbox"/> <a href="#">IS-F602</a>	Rev. 3	F602 Hi-Flow, Installation & Service	
<input type="checkbox"/> <a href="#">IS-L606</a>	Rev. 4	L606 Hi-Flow, Installation & Service	
<input type="checkbox"/> <a href="#">2F300E</a>	Rev. 9	P3N Filter, Installation & Service	
<input type="checkbox"/> <a href="#">2R300C</a>	Rev. 8	P3N Regulator, Installation & Service	
<input type="checkbox"/> <a href="#">2L300C</a>	Rev. 7	P3N Lubricator, Installation & Service	
<input type="checkbox"/> <a href="#">2FR300D</a>	Rev. 9	P3N Filter/Regulator, Installation & Service	
<input type="checkbox"/> <a href="#">IS-R119</a>	Rev. 5	R119 Hi-Flow, Regulator, Installation & Service	
<input type="checkbox"/> <a href="#">2FL101E</a>	Rev. 10	Kits: Bowls, Drain, Bowl Guard, Sight Gauge and Pressure Fill Adapter	
<input type="checkbox"/> <a href="#">2FL102</a>	Rev. 1	06 / 07 Threaded Collar	
<input type="checkbox"/> <a href="#">Safety Guide</a>	—	PDN Safety Guide	



Visit [www.pdnplu.com](http://www.pdnplu.com) for additional instruction sheets.

**⚠ WARNING**

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

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

**Safety Guide**

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: [www.parker.com/safety](http://www.parker.com/safety)

**⚠ WARNING**

**Product rupture can cause serious injury.  
 Do not connect regulator to bottled gas.  
 Do not exceed maximum primary pressure rating.**

**Introduction**

Follow these instructions when installing, operating, or servicing the product.

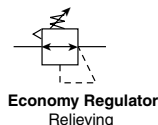
**Application Limits**

These products are intended for use in general purpose compressed air systems only. Compliance with the rated pressure and temperature is necessary.

Maximum Operating (Inlet) Pressure:	kPa	PSIG	bar
Mini Regulator (Plastic Body)	827	120	8.32
Economy Regulator (Metal Body)	1720	250	17.2

**Ambient Temperature Range:** 0°C to 52°C (32°F to 125°F)

**Symbol**



**Installation**

1. This unit should be installed with reasonable accessibility for service whenever possible - repair service kits are available. Keep pipe and tubing lengths to a minimum with inside clean and free of dirt and chips. Pipe joint compounds should be used sparingly and applied only to the male pipe - never into the female port. Do not use PTFE tape to seal pipe joints - pieces have a tendency to break off and lodge inside the unit, possibly causing malfunction.
2. Install unit so that air flow is in the direction of arrow. Installation must be upstream of and close to devices it is to service (valve, cylinder, tool etc.) Mounting of Regulators may be in any position.

3. Gauge ports are located on both sides of the regulator body for your convenience. It is necessary to install a gauge or pipe plug into each port during installation.
4. To protect Regulator units against rust, pipe scale, and other foreign matter, install a filter on the upstream (high pressure) side as close to the regulator as possible.

**⚠ Caution: For proper assembly of units having plastic bodies, fittings must be installed hand-tight and then tightened by wrench 1/2 turn. To prevent leakage past threads, apply thread sealant to fitting. Prestolok fittings are recommended. Use of hard pipe is not recommended.**

EXCESSIVE TURNING OF FITTINGS BY WRENCH MAY RESULT IN PERMANENT DAMAGE AND RENDER THE REGULATOR INOPERABLE.

**Operation of Regulator**

1. Before turning on air supply, turn adjusting handle counterclockwise until compression is released from control spring. Then turn on air supply and adjust regulator to desired secondary pressure by turning adjusting handle clockwise. This permits pressure to build up slowly, preventing any unexpected operation of the valve, cylinders, tools, etc., attached to the line. Adjustment to desired secondary pressure can be made only with primary pressure applied to the regulator.
2. To decrease regulator pressure setting, always reset from a pressure lower than the final setting desired. For example, lowering the secondary pressure from 550 to 410 kPa (80 to 60 PSIG) is best accomplished by dropping the secondary pressure to 350 kPa (50 PSIG), then adjusting upward to 410 kPa (60 PSIG).

**Service**

**⚠ Caution: SHUT OFF AIR SUPPLY and exhaust the primary and secondary pressure before disassembling unit. (Units may be serviced without removing them from the air line.)**

**Servicing Regulator:**

**Note:** See Figure 1 to aid with this procedure.

1. Unlock the adjusting knob by pulling upward (with the unit in an upright position.) Then turn adjusting knob counterclockwise until compression of the control spring has been removed.
2. Remove the bonnet from body. Then remove o-ring (3), piston, lip seal (5), and control spring (8) to service the bonnet subassembly. Unscrew seat (4) to service the poppet (13), return spring (1), and / or poppet seal (2), o-rings (16 & 18), and washer (17).
3. Clean old grease from unit and inspect seals for sign of wear (nicks, cuts, and scratches). Repair kits are available which contain the parts which are typically replaced.

**⚠ WARNING**

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

**EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.**

4. Apply a light film of grease to all seals and sliding surfaces using the grease packet supplied with repair kit.

**Note:** Refer to Figure 1 to determine the correct position and orientation of the various parts during assembly.

5. Gently and firmly press vent seal into piston using a blunt instrument.
6. Install lip seal onto piston with the lips of the seal facing away from the support flange. Then insert control spring and piston assembly into bonnet.
7. Place balancing o-ring (18) and washer (17) into body's bore. Then insert poppet return spring and poppet assembly, followed by seat o-ring (16) and seat.
8. Tighten seat from 0.6 to 0.8 Nm (5 to 7 in-lbs). Tighten bonnet onto body from 5.6 to 7.3 Nm (50 to 65 in-lbs) of torque.
9. Make sure that the control spring is still uncompressed before turning on the air supply. Turn on air supply, then slowly adjust the knob clockwise to increase downstream pressure until the desired pressure has been reached.
10. To decrease regulator pressure setting, always reset from a pressure lower than the final setting desired. For example, lowering the secondary pressure from 550 to 410 kPa (80 to 60 PSIG) is best accomplished by dropping the secondary pressure to 350 kPa (50 PSIG), then adjusting upward to 410 kPa (60 PSIG).
11. When the desired secondary pressure setting has been reached, push the adjusting knob down to lock it.
12. Check for leaks. If leaks occur, shut off the air supply, exhaust system air pressure, and make necessary adjustments to eliminate leakage.

### Parts Identification List

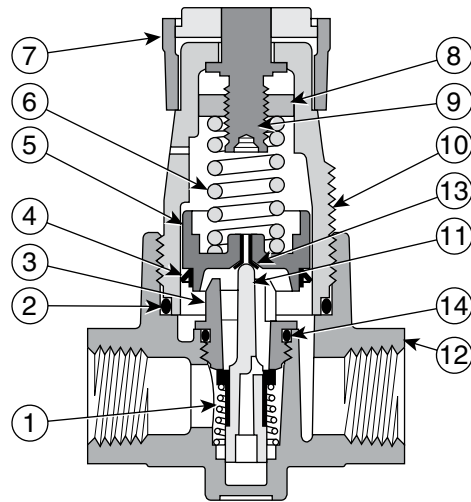
Item#	Description
1	Poppet Return Spring
2	O-ring - body to bonnet
3	Seat
4	Lip Seal - piston to bonnet
5	Piston (relieving shown)
6	Control Spring
7	Knob
8	Hex Nut
9	Adjusting Screw
10	Bonnet Assembly
11	Poppet (Mini Regulator) and Poppet Assembly (Economy Regulator)
12	Body
13	Vent Seal - poppet assembly to piston (relieving units) (Economy Regulator)
14	O-ring - seat to body (Economy Regulator)

### Service Kits Available

The following service kits contain the appropriate seals and parts necessary for ordinary field service.

Description	Economy Regulator
Bonnet Assembly	L01369
Mounting Bracket Kit* (plastic ring)	PS417B
Mounting Bracket Kit* (aluminum ring)	PS466
Panel Mount Nuts* Plastic Metal	P78652 P01531
Piston & Poppet Kit - Unbalanced Non-Relieving	PS428
Piston & Poppet Kit - Unbalanced - Relieving	PS426
Poppet Kit - Unbalanced	PS454
Tamperproof Kit	P01265

\*Tighten panel mount nut 2.8 to 3.4 Nm (25 to 30 in-lbs) of torque.



**FIGURE 1: Economy Regulator - (Balanced, Relieving Unit Shown)**

**⚠ WARNING**

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

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

**⚠ CAUTION**

Polycarbonate bowls, being transparent and tough, are ideal for use with Filters and Lubricators. They are suitable for use in normal industrial environments, but should not be located in areas where they could be subjected to direct sunlight, an impact blow, nor temperatures outside of the rated range. As with most plastics, some chemicals can cause damage. Polycarbonate bowls should not be exposed to chlorinated hydrocarbons, ketones, esters and certain alcohols. They should not be used in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester and diester types.

Metal bowls are recommended where ambient and/or media conditions are not compatible with polycarbonate bowls. Metal bowls resist the action of most such solvents, but should not be used where strong acids or bases are present or in salt laden atmospheres. Consult the factory for specific recommendations where these conditions exist.

**TO CLEAN POLYCARBONATE BOWLS USE MILD SOAP AND WATER ONLY!**  
**DO NOT** use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

**⚠ WARNING**

To avoid polycarbonate bowl rupture that can cause personal injury or property damage, do not exceed bowl pressure or temperature ratings. Polycarbonate bowls have a 150 PSIG pressure rating and a maximum temperature rating of 125°F.

**Safety Guide**

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: [www.parker.com/safety](http://www.parker.com/safety)

**Introduction**

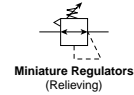
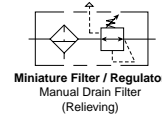
Follow these instructions when installing, operating, or servicing the product.

**Application Limits**

These products are intended for use in general purpose compressed air systems only.

Maximum Operating (Inlet) Pressure:	kPa	PSIG	bar
Miniature Filter / Regulator (with Plastic Bowl)	1030	150	10.3
Miniature Filter / Regulator (with Metal Bowl)	1720	250	17.2
Miniature Regulator (Metal Body)	2000	300	20.0
<b>Ambient Temperature Range:</b> 0°C to 52°C (32°F to 125°F)			

**Symbols**



**Installation**

1. This unit should be installed with reasonable accessibility for service whenever possible - repair service kits are available. Keep pipe and tubing lengths to a minimum with inside clean and free of dirt and chips. Pipe joint compounds should be used sparingly and applied only to the male pipe - never into the female port. Do not use PTFE tape to seal pipe joints - pieces have a tendency to break off and lodge inside the unit, possibly causing malfunction.
2. Install unit so that air flow is in the direction of arrow. Installation must be upstream of and close to devices it is to service (valve, cylinder, tool etc.). Mounting of regulators may be in any position; mounting of filter/regulators must be vertical as shown in figure.
3. Gauge ports are located on both sides of the regulator body for your convenience. It is necessary to install a gauge or pipe plug into each port during installation.
4. To protect regulator units against rust, pipe scale, and other foreign matter, install a filter on the upstream (high pressure) side as close to the regulator as possible.

**Operation of Regulator**

1. Before turning on air supply, turn adjusting handle counterclockwise until compression is released from control spring. Then turn on air supply and adjust regulator to desired secondary pressure by turning adjusting handle clockwise. This permits pressure to build up slowly, preventing any unexpected operation of the valve, cylinders, tools, etc., attached to the line. Adjustment to desired secondary pressure can be made only with primary pressure applied to the regulator.
2. To decrease regulator pressure setting, always reset from a pressure lower than the final setting desired. For example, lowering the secondary pressure from 550 to 410 kPa (80 to 60 PSIG) is best accomplished by dropping the secondary pressure to 350 kPa (50 PSIG), then adjusting upward to 410 kPa (60 PSIG).

**Operation of Filter / Regulator**

1. Both free moisture and solids are removed automatically by the Filter / Regulator.
2. Manual drain filters must be drained regularly before the separated moisture and oil reaches the bottom of the element holder. Automatic drain models (pulse drain) will collect and dump liquids automatically. They are actuated when a pressure drop occurs within the filter.
3. The filter element should be removed and replaced when the pressure differential across the filter is excessive.

**Service**

**⚠ Caution:** SHUT OFF AIR SUPPLY and exhaust the primary and secondary pressure before disassembling unit. (Units may be serviced without removing them from the air line.)

**⚠ WARNING**

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

**EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.**

**Servicing Regulator:**

**Note:** See Figure 1, 2, & 3 to aid with this procedure.

1. Unlock the adjusting knob by pulling upward (with the unit in an upright position.) Then turn adjusting knob counterclockwise until compression of the control spring has been removed.
2. Remove the bonnet from body. Then remove o-ring (7), piston, lip seal (9), and control spring to service the bonnet subassembly. Unscrew seat (8) to service the poppet (17), return spring (5), and /or poppet seal (6).

**Note:** On filter / regulator units, the poppet assembly & poppet return spring may be accessed by removing filter element.

3. Clean old grease from unit and inspect seals for sign of wear (nicks, cuts, and scratches). Repair kits are available which contain the parts which are typically replaced.
4. Apply a light film of grease to all seals and sliding surfaces using the grease packet supplied with repair kit.

**Note:** Refer to Figures to determine the correct position and orientation of the various parts during assembly.

5. Install lip seal onto piston with the lips of the seal facing away from the support flange. Then insert control spring and piston assembly into bonnet.
6. Place poppet return spring and poppet assembly into bore, followed by poppet seal and seat.
7. Tighten seat to body from 0.9 to 1.1 Nm (8 to 10 in-lbs) of torque. Tighten bonnet onto body from 5.6 to 7.3 Nm (50 to 65 in-lbs) of torque.
8. Make sure that the control spring is still uncompressed before turning on the air supply. Turn on air supply, then slowly adjust the knob clockwise to increase downstream pressure until the desired pressure has been reached.
9. To decrease regulator pressure setting, always reset from a pressure lower than the final setting desired. For example, lowering the secondary pressure from 550 to 410 kPa (80 to 60 PSIG) is best accomplished by dropping the secondary pressure to 350 kPa (50 PSIG), then adjusting upward to 410 kPa (60 PSIG).
10. When the desired secondary pressure setting has been reached, push the adjusting knob down to lock it.
11. Check for leaks. If leaks occur, shut off the air supply, exhaust system air pressure, and make necessary adjustments to eliminate leakage.

- 19 Gasket (Miniature Filter Regulator) - deflector to body
- 20 Gasket (Miniature Filter Regulator) - element holder to filter element
- 21 Element Holder (Miniature Filter Regulator)
- 22 O-ring (14E) - body to drain
- 23 Twist Drain (Miniature Filter Regulator)
- 24 Twist Drain Knob

**Service Kits Available**

The following service kits contain the appropriate seals and parts necessary for ordinary field service.

Description	Miniature Filter / Regulator	Miniature Regulator
Adsorber	PS452	PS452
5 Micron Element Kit	PS403	N/A
40 Micron Element Kit	PS401	N/A
Metal Bowl w/Manual Drain	PS447B	N/A
Metal Bowl w/Automatic Drain	PS451B	N/A
Mounting Bracket Kit* (plastic ring)	PS417B	PS417B
Mounting Bracket Kit* (aluminum ring)	PS466	PS466
Panel Mount Nut - Metal*	P01531	P01531
Piston & Poppet Kit - Unbal. Rel.	PS426	PS426
Piston & Poppet Kit - Unbal. Non-Rel	PS428	PS428
Polycarbonate Bowl w/Manual Drain	PS404	N/A
Polycarbonate Bowl w/Automatic Drain	PS408B	N/A
Springs: 1-30 PSIG Range 1-60 PSIG Range 2-125 PSIG Range 1-15 PSIG Range	P01175	P01175
	P01174	P01174
	P01173	P01173
	P01176	P01176
Twist Drain Knob	P05117	

\*Tighten panel mount nut 2.8 to 3.4 Nm (25 to 30 in-lbs) of torque.

**Servicing Filter Element:**

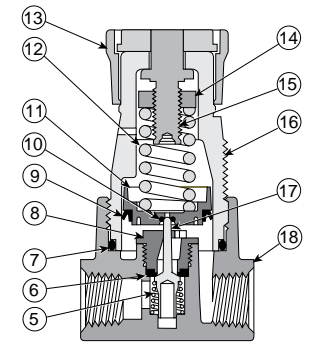
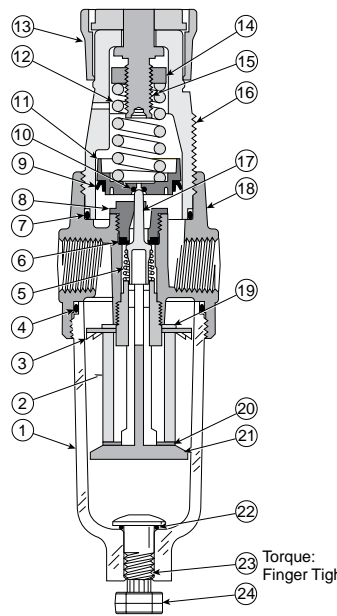
**Note:** See Figure 1 to aid with this procedure.

1. Unscrew threaded bowl and element holder. Then remove filter element, deflector, and gaskets.
2. Clean all internal parts, bowl, and body before re-assembling unit. See Polycarbonate bowl cleaning section.
3. Install deflector, filter element, and gaskets.
4. Attach element holder. Torque 0.9 to 1.4 Nm (8 to 12 in-lbs).
5. To assist with retaining bowl's o-ring while installing bowl, lubricate the o-ring (with a mineral based oil or grease). Then place it on the bowl.
6. Screw bowl into body until it is stopped by body; then back off bowl 1/8 turn.
7. Apply pressure to the system and check for leaks. If leaks occur, shut off the air supply, de-pressurize the system and make necessary adjustments to eliminate leakage.

If you have questions concerning how to service this unit, contact your local authorized dealer or your customer service representative.

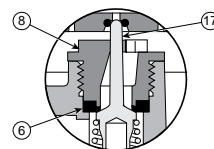
**Parts Identification List**

Item#	Description
1	Bowl (Miniature Filter Regulator)
2	Filter Element (Miniature Filter Regulator)
3	Deflector (Miniature Filter Regulator)
4	O-ring (Miniature Filter Regulator) - bowl to body
5	Poppet Return Spring
6	Poppet Seal
7	O-ring - body to bonnet
8	Seat
9	Lip Seal - piston to bonnet
10	O-ring - piston to poppet (Miniature Regulator & Filter / Regulator relieving units)
11	Piston (relieving shown)
12	Control Spring
13	Knob
14	Hex Nut
15	Adjusting Screw
16	Bonnet
17	Poppet (Miniature Regulator & Filter / Regulator)
18	Body



**FIGURE 1: Miniature Filter / Regulator - Un-balanced, Relieving**

**FIGURE 2: Miniature Regulator - Un-balanced, Relieving Unit Shown**



**FIGURE 3: Detail of Poppet Seal**

**⚠ AVERTISSEMENT**

Afin d'éviter un fonctionnement imprévu du système pouvant occasionner des blessures aux personnes et des dommages matériels :

- Débrancher l'alimentation électrique (si nécessaire) avant toute installation, entretien ou conversion.
- Débrancher l'alimentation en air et dépressuriser toutes les canalisations d'air connectées à cet appareil avant installation, entretien ou conversion.
- Utiliser l'appareil conformément aux normes de pression, température, et autres conditions spécifiées par le fabricant dans ces instructions.
- Le médium doit être exempt d'humidité si la température descend en dessous de 0°C.
- L'entretien doit se faire conformément aux procédures décrites ici.
- L'installation, l'entretien, et la conversion de ces appareils doivent être effectués par des personnels qualifiés, au fait des techniques pneumatiques.
- Après installation, entretien, ou conversion, les alimentations en air et en électricité (si nécessaire) seront connectées et l'appareil testé pour vérifier son fonctionnement correct et l'absence de fuites. Si l'appareil présente une fuite audible ou ne fonctionne pas correctement, ne pas l'utiliser.
- Les inscriptions concernant les avertissements et spécifications sur l'appareil ne devront pas être recouvertes de peinture, etc. Si le masquage est impossible, contactez votre représentant local pour des étiquettes de remplacement.

**SECURITE – Cuves transparentes**

**⚠ ATTENTION:**

Les bols en polycarbonates, étant durs et transparents, sont idéaux pour l'utilisation dans les filtres et lubrificateurs. Ils conviennent aux environnements industriels normaux, mais ne doivent pas être placés dans des endroits où ils pourraient être soumis à une exposition à la lumière directe du soleil, aux chocs, ou aux températures en-dehors de la plage normale d'utilisation. Ce plastique est, comme tout autre, susceptible d'être endommagé par l'action de certains produits chimiques. Les bols en polycarbonate ne doivent pas être exposés aux hydrocarbures chlorés, cétones, éthers, et certains alcools. Ils ne doivent pas être utilisés dans des systèmes pneumatiques dont les compresseurs sont lubrifiés par des fluides résistant au feu, tels que les esters et diesters de phosphate.

Les bols métalliques sont recommandés quand les conditions ambiantes et/ou celles du médium sont incompatibles avec les bols en polycarbonates. Les bols métalliques sont résistants à la plupart de ces solvants mais ne doivent pas être utilisés en milieu fortement acide ou basique, ou dans une atmosphère salée. Si de telles conditions existent, contactez le fabricant pour des recommandations spécifiques.

**NETTOYEZ LES BOLS EN POLYCARBONATE UNIQUEMENT A L'EAU ET AU SAVON DOUX ! NE PAS utiliser d'agents nettoyants tels que l'acétone, le benzène, le tétrachlorure de carbone, l'essence, le toluène, etc., qui endommageraient ce plastique.**

**⚠ AVERTISSEMENT**

**Une rupture de l'appareil peut occasionner des blessures graves.**  
**Ne pas utiliser ce régulateur pour du gaz en bouteille.**  
**Ne pas dépasser la norme de pression primaire maximum.**

**Guide de sécurité**

Pour obtenir de plus amples informations sur les directives à appliquer recommandées, prière de vous reporter à la section Guide de sécurité des catalogues de la Pneumatic Division ou de télécharger le Guide de sécurité de la Pneumatic Division sur le site: [www.parker.com/safety](http://www.parker.com/safety)

**Introduction**

Suivre ces instructions pendant l'installation, l'utilisation ou l'entretien du produit.

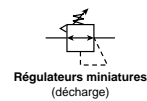
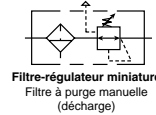
**Limites d'utilisation**

Ces produits sont construits pour utilisation uniquement dans les systèmes d'air comprimé pour service général.

Pression d'admission maximale de fonctionnement	kPa	psi	bar
Filtre-régulateur miniature (avec cuve en plastique)	1030	150	10,3
Filtre-régulateur miniature (avec cuve métallique)	1720	250	17,2
Régulateur miniature (corps métallique)	2000	300	20,0

**Plage de température ambiante** 0 °C à 52 °C (32 °F à 125 °F)

**Symboles**



**Installation**

1. Il faut installer cet appareil dans un endroit raisonnablement accessible pour faciliter l'entretien. Un kit de réparation est offert. Les tuyaux et tubes doivent être aussi courts que possible et ils doivent être propres et sans saleté ni copeaux à l'intérieur. Il faut utiliser modérément la pâte à joint et l'appliquer uniquement sur le tuyau, jamais dans l'orifice. Il ne faut pas utiliser de ruban de PTFE pour assurer l'étanchéité des connexions de tuyaux. Les pièces ont tendance à se fracturer et se loger à l'intérieur de l'appareil, ce qui peut causer un mauvais fonctionnement.
2. Installer l'appareil pour que l'air circule dans la direction de la flèche. L'installation doit être en amont et aussi proche que possible de l'appareil qu'il faut protéger (vanne, vérin, outil, etc.). Le régulateur peut être monté dans n'importe quelle position. Le filtre-régulateur doit être monté verticalement, comme montré sur l'illustration.
3. Pour être plus pratique, un orifice de manomètre se trouve de chaque côté du corps du régulateur. Pendant l'installation, il est nécessaire d'installer un manomètre ou un bouchon de tuyau dans chaque orifice.
4. Pour protéger le régulateur de la rouille, la calamine et autres matières étrangères, installer un filtre en amont du régulateur, aussi proche que possible de celui-ci.

**Utilisation du régulateur**

1. Avant de mettre le système sous pression, tourner la poignée de réglage dans le sens inverse des aiguilles d'une montre jusqu'à l'élimination de toute la compression du ressort de commande de pression. Mettre le système sous pression et tourner la poignée dans le sens des aiguilles d'une montre pour régler le régulateur à la pression secondaire désirée. Ceci permet à la pression de monter lentement, évitant le fonctionnement inattendu de la vanne, des vérins, des outils, etc. montés sur la conduite. Il n'est possible de faire le réglage de la pression secondaire que si le régulateur est soumis à la pression primaire.
2. Pour réduire la pression du système, il faut toujours faire le réglage à partir d'une pression plus basse que la valeur désirée. Par exemple, pour abaisser la pression secondaire de 5,5 à 4,1 bar (550 à 410 kPa ; 80 à 60 psi), il est préférable de faire tomber la pression secondaire à 3,5 bar (350 kPa ; 50 psi) et de la régler, en montant à 4,1 bar (410 kPa ; 60 psi).

**Utilisation du filtre et régulateur**

1. L'humidité libre et les solides sont éliminés automatiquement par le filtre et régulateur.
2. Il faut purger régulièrement les filtres à purge manuelle avant que la condensation et l'huile condensée atteignent le bas du support d'élément. Les modèles à purge automatique (purge à impulsions) captent et évacuent automatiquement les liquides. Ils sont actionnés par une chute de pression dans le filtre.

**⚠ AVERTISSEMENT**

**LA DEFAILLANCE, LE CHOIX ERRONE OU L'USAGE NON CONFORME DES PRODUITS ET/OU SYSTEMES ICI DECRITS, OU PRODUITS Y AFFECTANT, PEUVENT ENTRAÎNER LA MORT, DES BLESSURES AUX PERSONNES ET DES DOMMAGES MATERIELS.**

Ce document et autres informations de « The Company », ses filiales et distributeurs autorisés offre des options complémentaires d'utilisation du produit et/ou système pour des utilisateurs ayant l'expertise technique requise. Il est important que vous analysiez tous les aspects de l'usage prévu, y compris les conséquences de toute défaillance, et que vous passiez en revue les informations concernant les produits et systèmes dans le catalogue actuel des produits. En raison de la diversité des conditions de fonctionnement et d'utilisation de ces produits ou systèmes, l'utilisateur, et lui seul, selon ses propres analyses et tests, porte la responsabilité du choix final des produits et systèmes. Il est aussi de sa responsabilité pleine et entière de s'assurer que les produits soient utilisés conformément aux normes de sécurité et avertissements d'usage.

Les produits décrits ici, y compris, mais non exclusivement, les caractéristiques des produits, spécifications, aspects, disponibilité et prix, sont susceptibles de modification à tout moment et sans préavis par « The Company » et ses filiales.

**DES EXEMPLAIRES SUPPLEMENTAIRES DE CES INSTRUCTIONS SONT DISPONIBLES POUR ACCOMPAGNER LES APPAREILS/MANUELS D'ENTRETIEN CORRESPONDANT A CES PRODUITS. CONTACTEZ VOTRE REPRESENTANT LOCAL.**



3. Il faut remplacer l'élément filtrant quand la différence de pression dans le filtre est excessive.

**Entretien**

**⚠ ATTENTION – COUPER L'ALIMENTATION D'AIR et évacuer la pression primaire et secondaire avant de démonter l'appareil. Il est possible de réparer ces appareils sans les déposer de la conduite d'air.**

**Intervention sur le régulateur**

**Remarque :** Consulter les figures 1, 2 et 3 pour aider avec cette procédure.

1. Lever le bouton de réglage pour le débloquer (quand l'appareil est en position verticale). Tourner ensuite le bouton de réglage dans le sens inverse des aiguilles d'une montre jusqu'à l'élimination de toute la compression du ressort de commande.
2. Déposer le chapeau du corps. Déposer ensuite le joint torique (7), le piston, le joint à lèvres (9) et le ressort de commande pour réparer le sous-ensemble du chapeau. Dévisser le siège (8) pour atteindre le clapet (17), le ressort de rappel (5) et le siège du clapet (6).

**Remarque :** Sur les filtres-régulateurs, il est possible de déposer l'élément filtrant pour obtenir accès au clapet et au ressort de rappel du clapet.

3. Nettoyer l'ancienne graisse et vérifier s'il y a des signes d'usure sur les joints (entailles, coupures ou rayures). Des kits de réparation contenant les pièces typiquement remplacées sont offerts.
4. Appliquer une pellicule de graisse sur tous les joints et surfaces coulissantes, en utilisant le paquet de graisse fourni avec le kit de réparation.

**Remarque :** Pendant le remontage, consulter les illustrations pour déterminer la position et l'orientation des diverses pièces.

5. Installer le joint à lèvres sur le piston, les lèvres du joint à l'opposé de la bride de support. Insérer ensuite le ressort de commande et le piston dans le chapeau.
6. Mettre le ressort de rappel du clapet et le clapet dans l'alésage, puis le joint du clapet et le siège.
7. Serrer le siège dans le corps à un couple de 0,9 à 1,1 Nm (8 à 10 in-lb). Serrer le chapeau sur le corps à un couple de 5,6 à 7,3 Nm (50 à 65 in-lb).
8. Avant de mettre le système sous pression, vérifier que le ressort de commande n'est pas comprimé. Mettre le système sous pression et tourner le bouton dans le sens des aiguilles d'une montre pour faire monter la pression en aval jusqu'à la pression désirée.
9. Pour réduire la pression du système, il faut toujours faire le réglage à partir d'une pression plus basse que la valeur désirée. Par exemple, pour abaisser la pression secondaire de 5,5 à 4,1 bar (550 à 410 kPa ; 80 à 60 psi), il est préférable de faire tomber la pression secondaire à 3,5 bar (350 kPa ; 50 psi) et de la régler, en montant à 4,1 bar (410 kPa ; 60 psi).
10. Quand la pression secondaire désirée est atteinte, enfoncer le bouton de réglage pour le verrouiller.
11. Vérifier qu'il n'y a pas de fuites. S'il y a des fuites, couper l'alimentation d'air, faire tomber la pression du système et faire les réglages nécessaires pour éliminer les fuites.

**Intervention sur l'élément filtrant**

**Remarque :** Consulter la figure 1 pour aider avec cette procédure.

1. Dévisser la cuve filetée et le support d'élément. Déposer ensuite l'élément filtrant, le déflecteur et les joints.
2. Nettoyer toutes les pièces internes, la cuve et le corps avant de remonter l'appareil. Consulter la section de nettoyage de la cuve en polycarbonate.
3. Installer le déflecteur, l'élément filtrant et les joints.
4. Monter le support d'élément. Serrer à un couple de 0,9 à 1,4 Nm (8 à 12 in-lb).
5. Lubrifier le joint torique avec de l'huile minérale ou de la graisse pour faciliter l'installation du joint torique du dispositif de retenue pendant l'installation de la cuve. Le placer ensuite sur la cuve.
6. Visser la cuve à fond sur le corps et reculer la cuve d'un huitième de tour.
7. Mettre le système sous pression et vérifier qu'il n'y a pas de fuites. S'il y a des fuites, couper l'alimentation d'air, faire tomber la pression du système et faire les réglages nécessaires pour éliminer les fuites.

En cas de question sur l'intervention de l'appareil, contacter le distributeur local agréé ou le représentant technique.

**Liste d'identification des pièces**

N° de référence	Description
1	Cuve (filtre et régulateur miniature)
2	Elément filtrant (filtre-régulateur miniature)
3	Déflecteur (filtre-régulateur miniature)
4	Joint torique (filtre-régulateur miniature), entre la cuve et le corps
5	Ressort de rappel du clapet
6	Joint du clapet
7	Joint torique, entre le corps et le chapeau
8	Siège
9	Joint à lèvres, entre le piston et le chapeau

- 10 Joint torique, entre le piston et le clapet (dispositif d'évacuation du régulateur miniature et du filtre-régulateur)
- 11 Piston (avec évacuation montré)
- 12 Ressort de commande
- 13 Bouton
- 14 Ecrou six pans
- 15 Vis de réglage
- 16 Chapeau
- 17 Clapet (régulateur miniature et filtre-régulateur)
- 18 Corps
- 19 Joint (filtre-régulateur miniature), entre le déflecteur et le corps
- 20 Joint (filtre-régulateur miniature), entre le support d'élément et l'élément filtrant
- 21 Elément filtrant (filtre-régulateur miniature)
- 22 Joint torique (14E), entre le corps et la purge
- 23 Purge tournant (filtre-régulateur miniature)
- 24 Tordre le Bouton d'Egout

**Kits d'intervention offerts**

Les kit de réparation suivants contiennent les joints appropriés et les pièces nécessaires pour les réparations ordinaires sur place.

Description	Filtre-régulateur	Régulateur miniature
Elément absorbant	PS452	PS452
Kit d'élément de 5 microns	PS403	N/A
Kit d'élément de 40 microns	PS401	N/A
Cuve métallique avec purge manuelle	PS447B	N/A
Cuve métallique avec purge automatique	PS451B	N/A
Kit de patte de montage* (bague en plastique)	PS417B	PS417B
Kit de patte de montage* (bague en aluminium)	PS466	PS466
Ecrou métallique de montage sur le panneau*	P01531	P01531
Kit de piston et clapet, évacuation sans équilibre	PS426	PS426
Kit de piston et clapet, sans évacuation sans équilibre	PS428	PS428
Cuve en polycarbonate avec purge manuelle	PS404	N/A
Cuve en polycarbonate avec purge automatique	PS408B	N/A
Ressorts: Plage de 1 à 2,1 bar (1 à 30 psi)	P01175	P01175
Plage de 1 à 4,1 bar (1 à 60 psi)	P01174	P01174
Plage de 2 à 8,6 bar (2 à 125 psi)	P01173	P01173
Plage de 1 à 1,0 bar (1 à 15 psi)	P01176	P01176
Tordre le Bouton d'Egout	P05117	

\*Serrer l'écrou de montage du panneau à un couple de 2,8 à 3,4 Nm (25 à 30 po/lb).

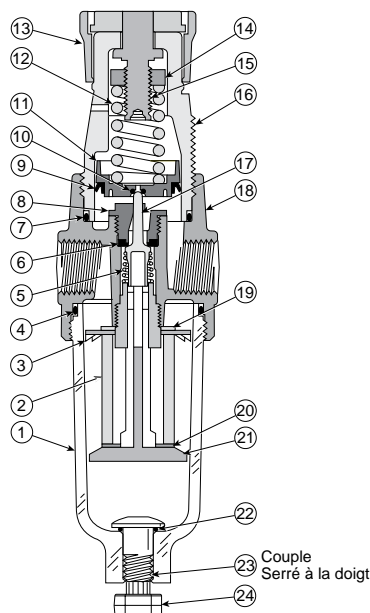


FIGURE 1 – Filtre et régulateur miniature, sans évacuation

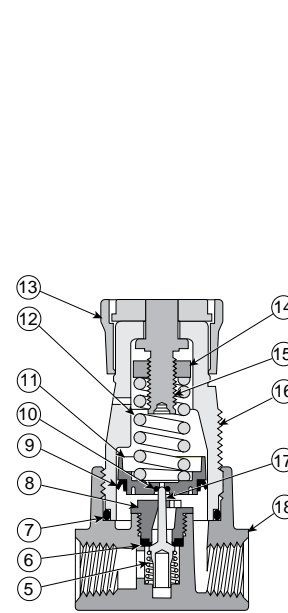


FIGURE 2 – Régulateur miniature, sans équilibre, avec dispositif d'évacuation montré

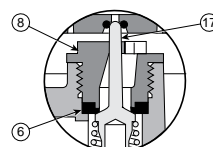


FIGURE 3 – Détail du joint de clapet

**⚠ ADVERTENCIA**

Para evitar un comportamiento impredecible del sistema que pueda ocasionar lesiones personales y daños a la propiedad:

- Antes de instalar, reparar o convertir, desconecte el suministro eléctrico (cuando sea necesario).
- Antes de instalar, reparar o convertir, desconecte el suministro de aire y despresurice todas las líneas de aire que están conectadas a este producto.
- Haga funcionar dentro de la presión, temperatura y demás condiciones especificadas por el fabricante y que se incluyen en estas instrucciones.
- El medio debe estar libre de humedad si la temperatura ambiente se encuentra por debajo del punto de congelación.
- Repare de acuerdo con los procedimientos que se incluyen en estas instrucciones.
- La instalación, reparación y conversión de estos productos debe ser realizada por personal competente que entienda la manera en que se deben aplicar los productos neumáticos.
- Después de la instalación, reparación y conversión, se debe conectar los suministros eléctricos y de aire (cuando sea necesario), y el producto se debe poner a prueba para determinar que funciona correctamente y no tiene pérdidas. Si se detecta una pérdida audible, o si el producto no funciona correctamente, no lo ponga en funcionamiento.
- Las advertencias y especificaciones que aparecen en el producto no deben estar cubiertas por pintura, etc. Si no resulta posible colocarlo con cinta adhesiva, póngase en contacto con su representante local para obtener etiquetas de repuesto.

**La Seguridad: Las Tazas Transparentes**

**⚠ PRECAUCIÓN:**

Las tazas de policarbonato, al ser transparentes y resistentes, son ideales para usar con Filtros y Lubricadores. Son aptas para usar en ambientes industriales normales, pero no se deben ubicar en zonas en donde queden expuestas a luz solar directa, un golpe de impacto, o una temperatura por fuera de su clasificación. Al igual que con la mayoría de los plásticos, ciertos productos químicos pueden ocasionar daños. No se debe exponer las tazas de policarbonato a los hidrocarburos clorinados, las cetonas, los ésteres y ciertos alcoholes. No se los debe usar en sistemas de aire en donde se lubrica los compresores de aire usando fluidos resistentes al fuego tal como los tipos de ester fosfato y di-ester.

Se recomienda el uso de tazas de metal cuando las condiciones ambientales y del medio no son compatibles con las tazas de policarbonato. Las tazas de metal son resistentes a la acción de la mayoría de esos solventes, pero no deben usarse cuando existe la presencia de ácidos o bases fuertes, ni en atmósferas cargadas de sal. Consulte con la fábrica por recomendaciones específicas para cuando existen estas condiciones.

**PARA LIMPIAR LAS TAZAS DE POLICARBONATO, UTILICE SOLAMENTE UN JABÓN SUAVE Y AGUA. NO** use agentes de limpieza tales como la acetona, el benceno, el tetracloruro de carbono, la gasolina o el tolueno, etc., que pueden dañar este plástico.

**⚠ ADVERTENCIA**

La ruptura del producto puede ocasionar lesiones graves.  
 No conecte el regulador al gas embotellado.  
 No exceda la clasificación de presión primaria máxima.

**Guía sobre la seguridad**

Para obtener información más completa acerca de los lineamientos recomendados acerca del uso, vea la sección Guía sobre la seguridad en los catálogos de la división neumática o puede bajar la Guía sobre la Seguridad de la División Neumática (Pneumatic Division Safety Guide) en [www.parker.com/safety](http://www.parker.com/safety)

**Introducción**

Observe las siguientes instrucciones al instalar, operar o dar servicio al producto.

**Límites de aplicación**

Estos productos han sido diseñados para usarse solamente en sistemas de aire comprimido para propósitos generales.

**Máxima presión (de entrada) para funcionamiento kPa PSIG barras**

Filtro / regulador en miniatura (con tazón plástico)	1030	150	10,3
Filtro / regulador en miniatura (con tazón de metal)	1720	250	17,2
Regulador en miniatura (cuerpo de metal)	2000	300	20,0

**Rango de temperatura ambiental: 0°C a 52°C (32°F a 125°F)**

**Símbolos**



**Instalación**

1. Siempre que sea posible, al instalar estas unidades se les debe colocar en lugares de fácil acceso, para poder darles servicio. Hay disponibles juegos de servicio para reparación. Se deben usar tuberías o conductos tan cortos como sea posible, manteniendo su interior limpio y sin desechos o astillas. Los compuestos para unir tuberías deben usarse moderadamente y se les debe aplicar a las tuberías macho solamente, nunca a los puertos hembra. No use cinta PTFE para sellar las juntas de tuberías ya que algunas veces pedazos de cinta tienden a separarse y fijarse dentro de las unidades provocando posiblemente mal funcionamiento.
2. Instale las unidades de manera que el flujo de aire ocurra en la dirección de las flechas. La instalación se debe hacer flujo arriba y cerca de los dispositivos que han de servir (válvulas, cilindros, herramientas, etc.). Los reguladores pueden montarse en cualquier posición; los filtros / reguladores deben montarse verticalmente tal y como se muestra en la figura.
3. Para su conveniencia, hay puertos para medidores en ambos lados de los cuerpos de los reguladores. Al hacer la instalación, es necesario colocar un medidor o un tapón de casquillo en cada uno de esos puertos.
4. Instale filtros en el lado flujo arriba (alta presión) tan cerca a los reguladores como sea posible para protegerlos contra el moho, las escamas de las tuberías y otros materiales extraños.

**Funcionamiento de los reguladores**

1. Antes de activar el suministro de aire, gire la manija para ajuste en contra de las agujas del reloj hasta liberar la compresión del muelle para control. Luego active el suministro de aire y ajuste el regulador a la presión secundaria deseada girando la manija en el sentido de las agujas del reloj. Con esto se permite que la presión se acumule lentamente, evitando todo funcionamiento inesperado de las válvulas, cilindros, herramientas, etc. unidas a la línea. Sólo se puede ajustar la presión secundaria deseada cuando hay presión principal aplicada al regulador.
2. Para disminuir la graduación de la presión del regulador, comience siempre con una presión menor que la graduación final deseada. Por ejemplo, para reducir la presión secundaria de 550 a 410 kPa (80 a 60 psig) lo mejor es reducir la presión secundaria a 350 kPa (50 psig), y luego aumentarla a 410 kPa (60 psig).

**Funcionamiento de los filtros / reguladores**

1. Los filtros / reguladores eliminan automáticamente tanto la humedad libre como los sólidos.
2. Se deben drenar regularmente los filtros con drenaje manual antes de que la humedad y el aceite desalojados lleguen a la parte baja del soporte

**⚠ ADVERTENCIA**

**EL FALLO O LA SELECCIÓN INCORRECTA O EL USO INCORRECTO DE LOS PRODUCTOS Y/O SISTEMAS AQUÍ DESCRITOS U OTROS ARTÍCULOS RELACIONADOS PUEDE RESULTAR EN MUERTE, LESIONES PERSONALES Y DAÑO A LA PROPIEDAD.**

Este documento y demás información de la compañía, sus subsidiarias y distribuidores autorizados ofrecen opciones de productos y sistemas para mayor investigación por parte de los usuarios que cuentan con conocimientos técnicos. Es importante que analice todos los aspectos de su aplicación, incluyendo las consecuencias de cualquier fallo y que revise la información concerniente al producto o los sistemas que se encuentran en el catálogo actual de productos. Debido a la variedad de condiciones de funcionamiento y aplicaciones para estos productos o sistemas, el usuario, mediante su propio análisis y pruebas, es únicamente responsable por la selección final de los productos y sistemas, y por garantizar que se cumpla con todos los requisitos de funcionamiento, seguridad y advertencia de la aplicación.

Los productos aquí descritos, incluyendo pero sin limitarse, a las características del producto, las especificaciones, los diseños, la disponibilidad y los precios, están sujetos a cambios por parte de la compañía y de sus subsidiarias en cualquier momento sin aviso.

**SE PUEDE OBTENER COPIAS ADICIONALES DE ESTAS INSTRUCCIONES PARA INCLUIR CON EL EQUIPO / LOS MANUALES DE MANTENIMIENTO QUE UTILIZAN ESTOS PRODUCTOS. COMUNIQUESE CON SU REPRESENTANTE LOCAL.**



del elemento. Los modelos con drenaje automático (drenaje por pulsos) recolectan y desechan los líquidos automáticamente. Se activan cuando hay una caída de presión dentro del filtro.

- Se deben quitar y reemplazar los elementos de los filtros cuando la presión diferencial a través de ellos sea excesiva.

**Servicio**

**⚠ PRECAUCIÓN: Antes de desarmar la unidad, DESACTIVE EL SUMINISTRO DE AIRE y elimine la presión principal y secundaria. (Se puede dar servicio a las unidades sin quitarlas de la línea.)**

**Cómo dar servicio a los reguladores:**

**Nota:** Para auxiliarse en este procedimiento, vea las figuras 1, 2 y 3.

- Destrabe la perilla de ajuste tirando de ella hacia arriba (con la unidad en posición vertical). Luego gire la perilla para ajuste en el sentido contrario a las agujas del reloj, hasta eliminar la compresión del muelle de control.
- Quite el bonete del cuerpo. Después quite el aro tórico (7), el pistón, el sello con labios (9) y el muelle para control para dar servicio al bonete. Desenrosque el asiento (8) para dar servicio al obturador (17), el muelle para retorno (5) y/o el sello del obturador (6).

**Nota:** En las unidades de filtros / reguladores, se puede obtener acceso al conjunto de obturador y al muelle para retorno del obturador quitando los elementos de los filtros.

- Quite la grasa vieja de la unidad y verifique que los sellos no estén desgastados (mellados, cortados o rayados). Se encuentran disponibles juegos para reparación que contienen las piezas de repuesto más comúnmente utilizadas.
- Coloque una película ligera de grasa en los sellos y las superficies deslizantes usando el paquete de grasa que se suministra con el juego para reparación.

**Nota:** Vea las figuras para averiguar la posición y orientación correctas de las piezas durante el ensamblaje.

- Coloque el sello con labios en el pistón con los labios del sello hacia afuera del borde para soporte. Luego introduzca en el bonete el conjunto de muelle para control y pistón.
- Coloque en el hueco el conjunto de muelle para retorno del obturador y el obturador, seguido del sello y el asiento del obturador.
- Apriete el asiento al cuerpo con una torsión de 0,9 a 1,1 Nm (8 a 10 libras pulgada). Apriete el bonete al cuerpo con una torsión de 5,6 a 7,3 Nm (50 a 65 libras pulgada).
- Antes de activar el suministro de aire asegúrese de que el muelle para control está todavía sin compresión. Active el suministro de aire, luego gire lentamente la perilla en el sentido de las agujas del reloj para aumentar la presión flujo abajo hasta alcanzar la deseada.
- Para disminuir la graduación de la presión del regulador, comience siempre con una presión menor que la graduación final deseada. Por ejemplo, para reducir la presión secundaria de 550 a 410 kPa (80 a 60 psig) lo mejor es reducir la presión secundaria a 350 kPa (50 psig), y luego aumentarla a 410 kPa (60 psig).
- Al alcanzar la presión secundaria deseada, presione la perilla para ajuste hacia abajo para fijarla.
- Verifique que no hay fugas. Si las hay, desactive el suministro de aire, saque la presión de aire del sistema y haga los ajustes necesarios para eliminarlas.

**Cómo dar servicio al elemento del filtro:**

**Nota:** Para auxiliarse en este procedimiento, vea la Figura 1.

- Desenrosque el tazón y el soporte del elemento. Después saque el elemento del filtro, el desviador y los empaques.
- Antes de ensamblar de nuevo la unidad, limpie las piezas internas y el cuerpo. Vea la sección acerca de la limpieza de los tazones de policarbonato.
- Coloque el desviador, el elemento del filtro y los empaques.
- Coloque el soporte del elemento. Aplique una torsión de 0,9 a 1,4 Nm (8 a 12 libras pulgada).
- Lubrique el aro tórico (con aceite o grasa de base mineral) para ayudar a retener el aro tórico del tazón durante el ensamblaje. Luego colóquelo en el tazón.
- Enrosque el tazón en el cuerpo hasta que haga contacto con él; luego regréselo 1/8 de revolución.
- Presurice el sistema y verifique que no tenga fugas. Si las hay, desactive el suministro de aire, saque la presión del sistema y haga los ajustes necesarios para eliminarlas.

Si tiene alguna pregunta acerca de cómo dar servicio a esta unidad, póngase en contacto con el concesionario autorizado de su localidad o con el representante de servicio al cliente.

**Lista para Identificación de Piezas**

Artículo #	Descripción
1	Tazón (filtro regulador en miniatura)
2	Elemento de filtro (filtro regulador en miniatura)
3	Desviador (filtro regulador en miniatura)
4	Aro tórico (filtro regulador en miniatura) - tazón a cuerpo
5	Muelle para retorno del obturador
6	Sello del obturador
7	Aro tórico - cuerpo a bonete

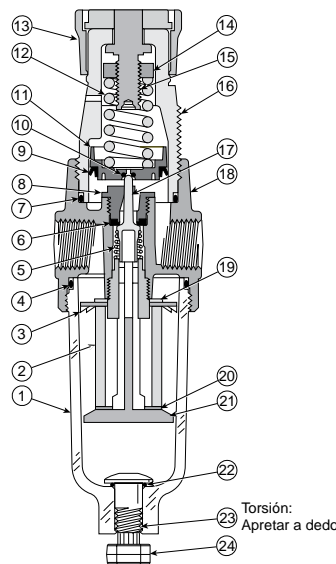
- Asiento
- Sello con labios - pistón a bonete
- Aro tórico - pistón a obturador (unidades con descarga, reguladores en miniatura y filtros reguladores en miniatura)
- Pistón (se muestra uno con descarga)
- Muelle para control
- Perilla
- Tuerca hexagonal
- Tornillo para ajuste
- Bonete
- Obturador (regulador y filtro regulador en miniatura)
- Cuerpo
- Empaque (filtro regulador en miniatura) - desviador a cuerpo
- Empaque (filtro regulador en miniatura) - soporte del elemento a elemento del filtro
- Soporte del elemento (filtro regulador en miniatura)
- Aro tórico (14E) - cuerpo a drenaje
- Drenaje de giro (filtro regulador en miniatura)
- Tuerza la Perilla del Desaguadero

**Juegos para servicio disponibles.**

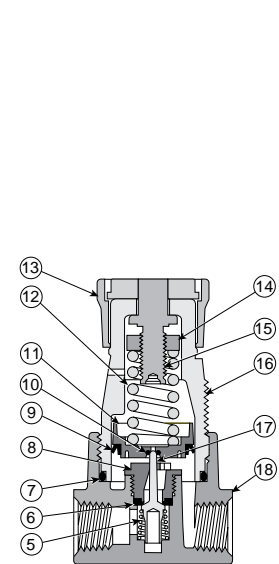
Los siguientes juegos para servicio contienen los sellos apropiados y las piezas necesarias para dar servicio corriente en el campo.

Description	Filtros / reguladores en miniatura	Reguladores en miniatura
Extractor	PS452	PS452
Juego de elemento de 5 micrones	PS403	N/A
Juego de elemento de 40 micrones	PS401	N/A
Tazón de metal con drenaje manual	PS447B	N/A
Tazón de metal con drenaje automático	PS451B	N/A
Juego de soporte para montaje* (anillo plástico)	PS417B	PS417B
Juego de soporte para montaje* (anillo de aluminio)	PS466	PS466
Tuerca para montaje en tablero, de metal*	P01531	P01531
Juego de pistón y obturador, sin balance, con descarga.	PS426	PS426
Juego de pistón y obturador, sin balance, sin descarga	PS428	PS428
Tazón de policarbonato con drenaje manual	PS404	N/A
Tazón de policarbonato con drenaje automático	PS408B	N/A
Muelles: Rango de 1 a 30 PSIG	P01175	P01175
Rango de 1 a 60 PSIG	P01174	P01174
Rango de 2 a 125 PSIG	P01173	P01173
Rango de 1 a 15 PSIG	P01176	P01176
Tuerza la Perilla del Desaguadero	P05117	

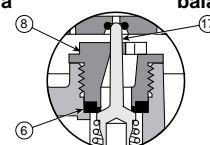
\*Apriete la tuerca de soporte del tablero de 2.8 a 3.4 Nm (Newtons por metro) (25 a 30 pulgadas por libra [63.5 cm. a 76.2 cm. por Kg.] del par de torsión.



**FIGURA 1: Filtro / regulador en miniatura - sin balance, con descarga**



**FIGURA 2: Regulador en miniatura - se muestra unidad sin balance, con descarga**



**FIGURA 3: Detalle del sello del obturador**

# Pneumatic Division

Richland, Michigan 49083  
269-629-5000

## Installation and Service Instructions: 2F101H

1/4" & 3/8" Economy  
1/4", 3/8" & 1/2" Compact  
1/2" & 3/4" Standard  
Particulate and Adsorber

ISSUED: September, 2012  
Supersedes: September, 2006  
Doc.# 2F101, EN# 120039, Rev. 14

### WARNING

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

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

### CAUTION

Polycarbonate bowls, being transparent and tough, are ideal for use with Filters and Lubricators. They are suitable for use in normal industrial environments, but should not be located in areas where they could be subjected to direct sunlight, an impact blow, nor temperatures outside of the rated range. As with most plastics, some chemicals can cause damage. Polycarbonate bowls should not be exposed to chlorinated hydrocarbons, ketones, esters and certain alcohols. They should not be used in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester and diester types.

Metal bowls are recommended where ambient and/or media conditions are not compatible with polycarbonate bowls. Metal bowls resist the action of most such solvents, but should not be used where strong acids or bases are present or in salt laden atmospheres. Consult the factory for specific recommendations where these conditions exist.

**TO CLEAN POLYCARBONATE BOWLS USE MILD SOAP AND WATER ONLY! DO NOT** use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

Bowl guards are recommended for added protection of polycarbonate bowls where chemical attack may occasionally occur.

### WARNING

To avoid polycarbonate bowl rupture that can cause personal injury or property damage, do not exceed bowl pressure or temperature ratings. Polycarbonate bowls have a 150 PSIG pressure rating and a maximum temperature rating of 125°F.

### Safety Guide

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: [www.parker.com/safety](http://www.parker.com/safety)

## Introduction

Follow these instructions when installing, operating, or servicing the product.

## Application Limits

These products are intended for use in general purpose compressed air systems only.

Adsorber Filters are **not effective** on: Carbon monoxide, carbon dioxide, methane, ethane, ethylene or hydrogen. For a complete list of vapors that can and cannot be adsorbed effectively by activated charcoal adsorbers consult the factory.

### Maximum Recommended Pressure Drop:

	kPa	PSIG	bar
Particulate Filter	70	10	0.7

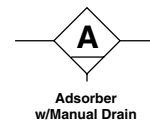
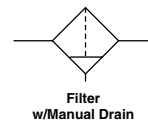
### With Polycarbonate Bowl

	kPa	PSIG	bar
Operating Pressure Maximum	1000	150	10.3
Operating Temperature Maximum		52°C (125°F)	
Operating Temperature Minimum		0°C (32°F)	

### With Metal Bowl

	kPa	PSIG	bar
Operating Pressure Maximum	1700	250	17.0
Operating Temperature Maximum		80°C (175°F)	
Operating Temperature Minimum		0°C (32°F)	

## ANSI Symbols



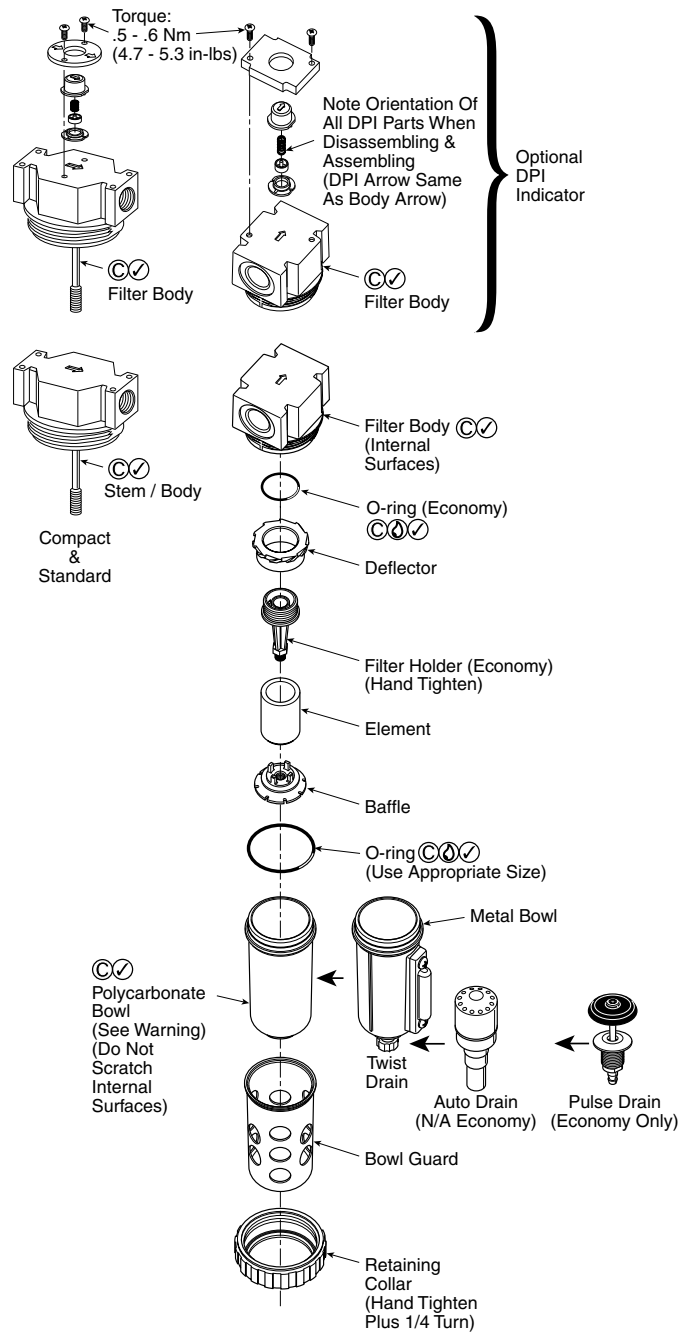
### WARNING

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

**EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.**



### Installation

1. The filter should be installed with reasonable accessibility for service whenever possible – repair service kits are available. Keep pipe or tubing lengths to a minimum with inside clean and free of dirt and chips. Pipe joint compound should be used sparingly and applied only to the male pipe – never into the female port. Do not use PTFE tape to seal pipe joints – pieces have a tendency to break off and lodge inside the unit, possibly causing malfunction. Also, new pipe or hose should be installed between the filter and equipment being protected.
2. The upstream pipe work must be clear of accumulated dirt and liquids.
3. Select a filter location as close as possible to the equipment being protected and upstream of any pressure regulator.
4. Install filter so that air flows in the direction of arrow on body.
5. Install filter vertically with bowl drain mechanism at the bottom. Free moisture will thus drain into the sump “quiet zone” at the bottom of the bowl.

### Operation and Service

1. Manual drain filters must be drained regularly before the separated moisture and oil reaches the bottom of the lower baffle.
2. The particulate filter element should be removed and replaced when pressure differential across the filter is 10 PSIG.
3. Adsorber elements are designed to adsorb vaporous contaminants. The relative efficiency of an adsorber varies depending on the vapor to be adsorbed and the environmental temperature. At higher temperatures, adsorbers become less efficient.

Adsorber elements are not particle filters. All particles and aerosols should be removed prior to adsorbing vaporous contaminants. The initial pressure drop across an adsorber element (1.5 PSIG maximum) should never increase. The presence of any liquids, aerosols or particulate matter in an adsorber indicates that the effective life of the element has been exceeded and the element should be replaced and the system cleaned.

The most effective method of testing whether an element needs to be replaced is to smell the air coming from the adsorber. Offensive odors will be present well before oil levels become detectable.

4. The differential pressure indicator, located on top of the filter body, gives a visual indication of the pressure differential across the filter element. Change the filter element when half or more of the orange piston is above the retaining ring when air is flowing. For units without a differential pressure indicator, pressure differential gauges should be used to determine when the maximum recommended pressure differential has been reached.
5. Shut off air supply and depressurize the unit, before servicing.
6. After servicing, apply system pressure and check for air leaks. If leakage occurs, **Do Not Operate** — conduct servicing again.

- Ⓐ Lightly grease with provided lubricant.
- Ⓢ Inspect for nicks, scratches, and surface imperfections. If present, reduced service life is probable and future replacement should be planned.
- Ⓒ Clean with lint-free cloth.

### Kits Available

Description	Economy 1/4" & 3/8"	Compact 1/4", 3/8" & 1/2"	Standard 1/2" & 3/4"
Element Kits*			
5 Micron	PS902	PS702	PS802
40 Micron	PS901	PS701	PS801
Adsorber	PS931	PS731	PS831
Porous Bronze	PS988	PS788	PS888
DPI Repair Kit	PS781	PS781	PS781

\*Element kits include body / bowl seal.

**Pneumatic Division**  
 Richland, Michigan 49083  
 269-629-5000

**Installation & Service Instructions:**  
**2F300E**  
**1" Particulate, Adsorber & Coalescing Filter**  
**ISSUED: October, 2006**  
**Supersedes: March, 2005**  
 Doc.# 2F300, ECN# 061068, Rev. 9

**⚠ WARNING**

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

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

**Safety Guide**

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: [www.parker.com/safety](http://www.parker.com/safety)

**Introduction**

Follow these instructions when installing, operating, or servicing the product.

**Application Limits**

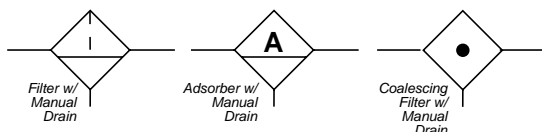
These products are intended for use in general purpose compressed air systems only.

Adsorber Filters are not effective on: Carbon monoxide, carbon dioxide, methane, ethane, ethylene or hydrogen. For a complete list of vapors that can and cannot be adsorbed effectively by activated charcoal adsorbers consult the factory.

**Maximum Recommended Pressure Drop:**

	kPa	PSIG	bar
Particulate Filter	70	10	0.7
Operating Pressure Maximum	1700	250	17.0
Operating Temperature Maximum	80°C (175°F)		
Operating Temperature Minimum	0°C (32°F)		

**ANSI Symbols**



**Installation**

1. The filter should be installed with reasonable accessibility for service whenever possible – repair service kits are available. Keep pipe or tubing lengths to a minimum with inside clean and free of dirt and chips. Pipe joint compound should be used sparingly and applied only to the male pipe – never into the female port. Do not use PTFE tape to seal pipe joints – pieces have a tendency to break off and lodge inside the unit, possibly causing malfunction. Also, new pipe or hose should be installed between the filter and equipment being protected.
2. The upstream pipe work must be clear of accumulated dirt and liquids.
3. Select a filter location as close as possible to the equipment being protected and upstream of any pressure regulator.
4. Install filter so that air flows in the direction of arrow on body.
5. Install filter vertically with bowl drain mechanism at the bottom. Free moisture will thus drain into the sump “quiet zone” at the bottom of the bowl.

**Operation and Service**

1. Manual drain filters must be drained regularly before the separated moisture and oil reaches the bottom of the lower baffle.
2. The particulate filter element should be removed and replaced when pressure differential across the filter is 10 PSIG.
3. Adsorber elements are designed to adsorb vaporous contaminants. The relative efficiency of an adsorber varies depending on the vapor to be adsorbed and the environmental temperature. At higher temperatures, adsorbers become less efficient.

Adsorber elements are not particle filters. All particles and aerosols should be removed prior to adsorbing vaporous contaminants. The initial pressure drop across an adsorber element (1.5 PSIG maximum) should never increase. The presence of any liquids, aerosols or particulate matter in an adsorber indicates that the effective life of the element has been exceeded and the element should be replaced and the system cleaned.

**⚠ WARNING**

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

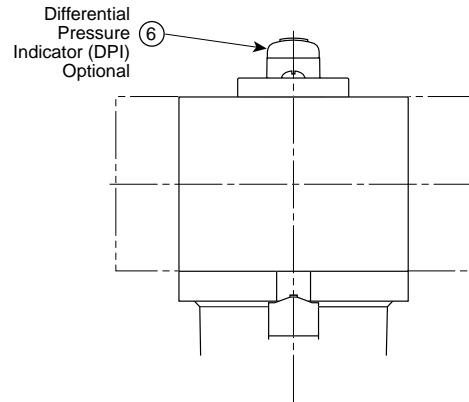
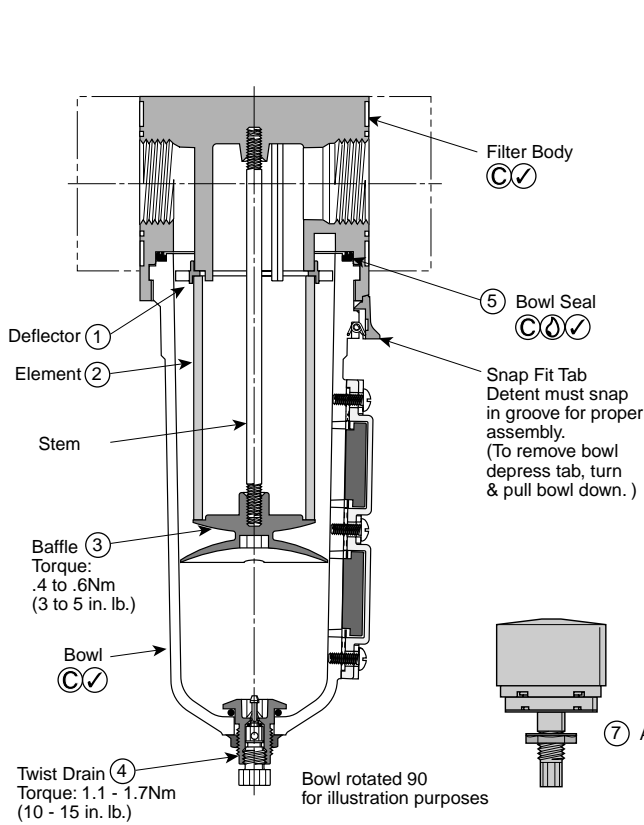
**EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.**

The most effective method of testing whether an element needs to be replaced is to smell the air coming from the adsorber. Offensive odors will be present well before oil levels become detectable.

4. For Coalescing filter, a 5 micrometer pre-filter is recommended to protect the high efficiency filter and to prolong the elements life.
5. The differential pressure indicator, located on top of the filter body, gives a visual indication of the pressure differential across the filter element. Change the filter element when half or more of the orange piston is above the retaining ring when air is flowing. For units without a differential pressure indicator, pressure differential gauges should be used to determine when the maximum recommended pressure differential has been reached.
6. Shut off air supply and depressurize the unit, before servicing.
7. After servicing, apply system pressure and check for air leaks. If leakage occurs, Do Not Operate — conduct servicing again.

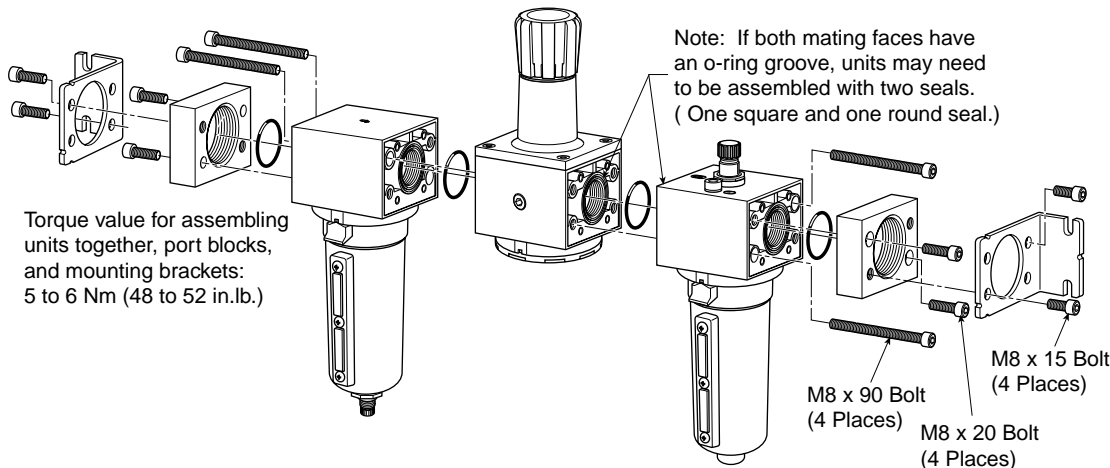
**Service Kits Available**

Description	Kit Number	Contains Items
Element Kits -		
5 Micron	P3NKA00ESE	(5) Bowl Seal and (2) Element
40 Micron	P3NKA00ESG	
Adsorber	P3NKA00ESA	
25 Micron Porous Bronze	P3NKA00ESJ	
Coalescing / Element Grade 6	P3NKA00ESC	
Coalescing / Element Grade 10	P3NKA00ES9	
DPI Repair Kit	PS781	(6) DPI components (not all shown)
Auto Drain Kit	PS506	(7) Auto Drain Assembly



Coalescing Unit Shown

- ⌚ Lightly grease with provided lubricant.
- ✓ Inspect for nicks, scratches, and surface imperfections. If present, reduced service life is probable and future replacement should be planned.
- Ⓒ Clean with lint-free cloth.



**⚠ WARNING**

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

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

**⚠ CAUTION**

Polycarbonate bowls, being transparent and tough, are ideal for use with Filters and Lubricators. They are suitable for use in normal industrial environments, but should not be located in areas where they could be subjected to direct sunlight, an impact blow, nor temperatures outside of the rated range. As with most plastics, some chemicals can cause damage. Polycarbonate bowls should not be exposed to chlorinated hydrocarbons, ketones, esters and certain alcohols. They should not be used in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester and diester types.

Metal bowls are recommended where ambient and/or media conditions are not compatible with polycarbonate bowls. Metal bowls resist the action of most such solvents, but should not be used where strong acids or bases are present or in salt laden atmospheres. Consult the factory for specific recommendations where these conditions exist.

**TO CLEAN POLYCARBONATE BOWLS USE MILD SOAP AND WATER ONLY! DO NOT** use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

Bowl guards are recommended for added protection of polycarbonate bowls where chemical attack may occasionally occur.

**⚠ WARNING**

To avoid polycarbonate bowl rupture that can cause personal injury or property damage, do not exceed bowl pressure or temperature ratings. Polycarbonate bowls have a 150 PSIG pressure rating and a maximum temperature rating of 125°F.

**Safety Guide**

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: [www.parker.com/safety](http://www.parker.com/safety)

**Introduction**

Follow these instructions when installing, operating, or servicing the product.

**Application Limits**

These products are intended for use in general purpose compressed air systems only.

**With Polycarbonate Bowl**

	kPa	PSIG	bar
Operating Pressure Maximum	1000	150	10.3
Operating Temperature Maximum	52°C (125°F)		
Operating Temperature Minimum	0°C (32°F)		

**With Metal Bowl**

	kPa	PSIG	bar
Operating Pressure Maximum	1700	250	17.0
Operating Temperature Maximum	80°C (175°F)		
Operating Temperature Minimum	0°C (32°F)		

**05 / 15 Series With Metal Bowl and Auto Drain**

	kPa	PSIG	bar
Operating Pressure Maximum	1000	150	10.3
Operating Temperature Maximum	80°C (175°F)		
Operating Temperature Minimum	0°C (32°F)		

**Instructions**

1. Turn off air supply and depressurize the unit before removing any parts.

**Note:** Lubricators with auto fill devices require oil system shut-off and disconnection. Filters with automatic drains require disconnection.

**⚠ CAUTION:** Be certain that pressure is relieved on both sides of any regulator in a system.

**⚠ WARNING:** Conversion or replacement of an old metal bowl with a new plastic bowl will reduce the product

**⚠ WARNING**

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

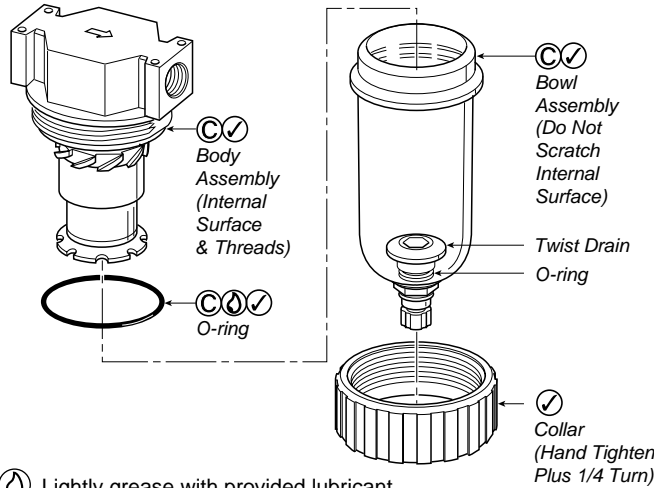
This document and other information from The Company, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application, including consequences of any failure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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

**EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT INCLUDE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.**

pressure / temperature rating. Be certain that the circuit and environment does not exceed the lower ratings; and that rating labels elsewhere on the product are replaced with one describing the lower rating. Failure to do so may cause property damage, injury or death.

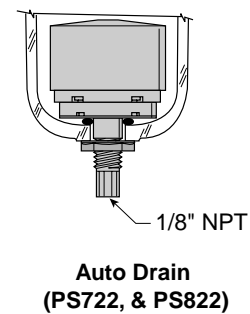
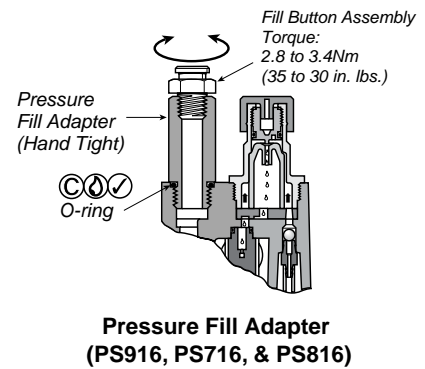
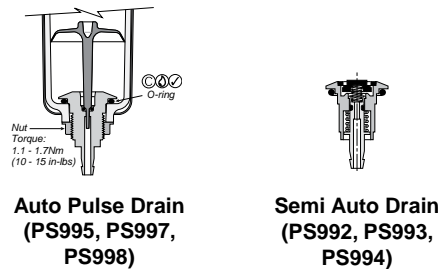
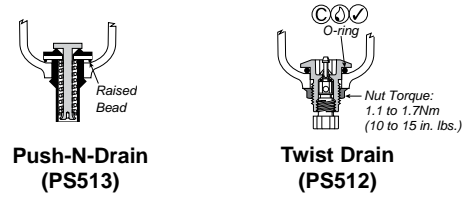
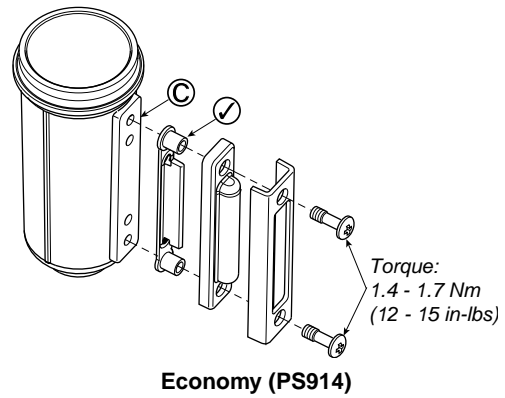
- After installation or service, apply system pressure and check for air leaks. If leakage occurs, **DO NOT OPERATE** — conduct repairs again.



- Lightly grease with provided lubricant.
- Inspect for nicks, scratches, and surface imperfections. If present, reduced service life is probable and future replacement should be planned.
- Clean with lint-free cloth.

**Kits Available**

Model	Economy Filter	Economy Lubricator	Compact Filter	Compact Lubricator	Standard Filter	Standard Lubricator
<b>Polycarbonate Bowl Kits</b>						
Auto Drain	—	—	PS722	—	PS822	—
Auto Pulse Drain	PS995	—	—	—	—	—
Push "N" Drain	PS904	—	PS704	—	PS804	—
Twist Drain	PS932	PS917	PS732	PS717	PS832	PS817
Semi Auto Drain	PS992	—	—	—	—	—
Pressure Fill	—	PS919	—	PS719	—	PS819
Remote Fill	—	—	—	PS728	—	PS828
No Drain	—	PS946	—	PS746	—	PS846
<b>Metal Bowl Kits</b>						
Auto Drain	—	—	PS726	—	PS826	—
Auto Pulse Drain	PS997	—	—	—	—	—
Push "N" Drain	PS925	—	PS725	—	PS825	—
Twist Drain	PS934	PS933	PS734	PS733	PS834	PS833
Semi Auto Drain	PS994	—	—	—	—	—
Pressure Fill	—	PS927	—	PS727	—	PS827
Sight Gauge & Auto Drain	PS923	—	PS723	—	PS823P	—
Sight Gauge & Twist Drain	PS935	PS929	PS735	PS729	PS835	PS829
Sight Gauge & Push "N" Drain	PS906	—	PS706	—	PS806	—
Sight Gauge & Semi Auto Drain	PS993	—	—	—	—	—
Sight Gauge & Pressure Fill	—	PS920	—	PS720	—	PS820
<b>Drain Kits</b>						
Auto Pulse Drain	PS998	—	—	—	—	—
Push "N" Drain	PS513	PS513	PS513	PS513	PS513	PS513
Twist Drain	PS512	PS512	PS512	PS512	PS512	PS512
<b>Bowl Guard Kit</b>	PS905	PS905	PS705	PS705	PS805	PS805
<b>Bowl Insert Kit</b>	PS796	PS796	PS796	PS796	PS796	PS796
<b>Pressure Fill Adapter Kit</b>	—	PS916	—	PS716	—	PS716
<b>Sight Gauge Kit</b>	PS914	PS914	PS914	PS914	PS914	PS914





**⚠ WARNING**

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

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

**Introduction**

Follow these instructions when installing, operating, or servicing the product.

**Application Limits**

These products are intended for use in general purpose compressed air systems only.

**Regulator (06/07 Collar)**

Maximum Temperature	80°C (175°F)
Minimum Temperature	0°C (32°F)

**Metal Bowl (06/07 Collar)**

Maximum Temperature	80°C (175°F)
Minimum Temperature	0°C (32°F)

**Polycarbonate Bowl (06/07 Collar)**

Maximum Temperature	52°C (125°F)
Minimum Temperature	0°C (32°F)

**Regulators**

Operating Pressure Maximum	kPa	PSIG	bar
06 Plastic Collar	1700	250	17
07 Plastic Collar		Not Used	
07 Metal Collar		Not Used	

**Lubricators (Metal Bowl)**

Operating Pressure Maximum	kPa	PSIG	bar
06 Plastic Collar	1700	250	17
07 Plastic Collar		Not Used	
07 Metal Collar	1700	250	17

**Lubricators (Polycarbonate Bowl)**

Operating Pressure Maximum	kPa	PSIG	bar
06 Plastic Collar	1000	150	10.3
07 Plastic Collar	1000	150	10.3
07 Metal Collar		Not Used	

**Filters (Metal Bowl)**

Operating Pressure Maximum	kPa	PSIG	bar
06 Plastic Collar	1700	250	17
07 Plastic Collar		Not Used	
07 Metal Collar	1700	250	17

**Filters (Metal Bowl Plastic DPI Retaining Ring)**

Operating Pressure Maximum	kPa	PSIG	bar
06 Plastic Collar	1000	150	10.3
07 Plastic Collar		Not Used	
07 Metal Collar	1000	150	10.3

**Filters (Metal Bowl Metal DPI Retaining Ring)**

Operating Pressure Maximum	kPa	PSIG	bar
06 Plastic Collar	1700	250	17
07 Plastic Collar		Not Used	
07 Metal Collar	1700	250	17

**Filters (Polycarbonate Bowl)**

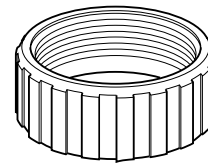
Operating Pressure Maximum	kPa	PSIG	bar
06 Plastic Collar	1000	150	10.3
07 Plastic Collar	1000	150	10.3
07 Metal Collar		Not Used	

**Service**

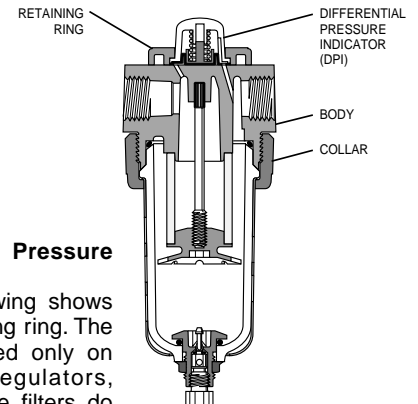
Shut off air supply and depressurize the unit. Loosen and remove the threaded collar. Remove sight gauge when replacing collar used on metal bowl with sight gauge. Install new collar. Secure sight gauge to metal bowl using 1.4 to 1.7 Nm (12 to 15 in. lbs. torque). Tighten 06 filter/lubricator collar 3.2 to 3.6 Nm (28 to 32 in. lbs. torque). Tighten 07 filter/lubricator collar to 5.4 to 5.9 Nm (48 to 52 in. lbs. torque). Tighten 06/07 regulator collar hand tight plus 1/4 turn.

Apply system pressure and check for air leaks. Repeat all steps (including shut off and depressurization) if leaks occur.

**Threaded Collar**



**Coalescing Filter**



**NOTE: DPI (Differential Pressure Indicator)**

The coalescing filter drawing shows the location of DPI retaining ring. The DPI retaining ring is used only on coalescing filters. Regulators, lubricators, and particulate filters do not use a DPI retaining ring.

**⚠ WARNING**

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

**EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.**

**! WARNING**

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

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

**! WARNING**

**Product rupture can cause serious injury.**  
**Do not connect regulator to bottled gas.**  
**Do not exceed maximum primary pressure rating.**

**Safety Guide**

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: [www.parker.com/safety](http://www.parker.com/safety)

**Safety: Polycarbonate Bowls**

**! CAUTION**

Polycarbonate bowls, being transparent and tough, are ideal for use with Filters and Lubricators. They are suitable for use in normal industrial environments, but should not be located in areas where they could be subjected to direct sunlight, an impact blow, nor temperatures outside of the rated range. As with most plastics, some chemicals can cause damage. Polycarbonate bowls should not be exposed to chlorinated hydrocarbons, ketones, esters and certain alcohols. They should not be used in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester and di-ester types.

Metal bowls are recommended where ambient and/or media conditions are not compatible with polycarbonate bowls. Metal bowls resist the action of most such solvents, but should not be used where strong acids or bases are present or in salt laden atmospheres. Consult the factory for specific recommendations where these conditions exist.

**TO CLEAN POLYCARBONATE BOWLS USE MILD SOAP AND WATER ONLY!**  
**DO NOT** use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

Bowl guards are recommended for added protection of polycarbonate bowls where chemical attack may occur.

**! WARNING**

To avoid polycarbonate bowl rupture that can cause personal injury or property damage, do not exceed bowl pressure or temperature ratings. Polycarbonate bowls have a 150 PSIG (1030 kPa) pressure rating and a maximum temperature rating of 52°C (125°F).

**Introduction**

Follow these instructions when installing, operating, or servicing the product.

**Application Limits**

These products are intended for use in general purpose compressed air systems only.

**With Polycarbonate Bowl**

	kPa	PSIG	bar
<b>Operating Pressure Maximum</b>	1000	150	10.3
<b>Operating Temperature Maximum</b>		52°C (125°F)	
<b>Operating Temperature Minimum</b>		0°C (32°F)	

**With Metal Bowl**

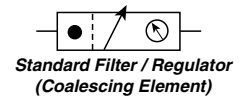
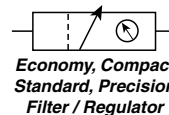
	kPa	PSIG	bar
<b>Operating Pressure Maximum</b>	1700	250	17.0
<b>Operating Temperature Maximum</b>		80°C (175°F)	
<b>Operating Temperature Minimum</b>		0°C (32°F)	

**Economy Series with Metal Bowl and Auto Drain**

	kPa	PSIG	bar
<b>Operating Pressure Maximum</b>	1000	150	10.3
<b>Operating Temperature Maximum</b>		80°C (175°F)	
<b>Operating Temperature Minimum</b>		0°C (32°F)	

Note: The maximum recommended pressure drop for a particulate filter is 70 kPa (10 PSIG, 0.7 bar)

**Symbols**



**Installation**

1. The Filter / Regulator should be installed with reasonable accessibility for service whenever possible – repair service kits are available. Keep pipe or tubing lengths to a minimum with inside clean and free of dirt and chips. Pipe joint compound should be used sparingly and applied only to the male pipe – never into the female port. Do not use PTFE tape to seal pipe joints – pieces have a tendency to break off and lodge inside the unit, possibly causing malfunction. Also, new pipe or hose should be installed between the Filter / Regulator and equipment being protected.
2. The upstream pipe work must be clear of accumulated dirt and liquids.
3. Select a Filter / Regulator location as close as possible to the equipment being protected.
4. Install Filter / Regulator so that air flows in the direction of arrow on body.
5. Install Filter / Regulator vertically with the bowl drain mechanism at the bottom. Free moisture will thus drain into the sump ("quiet zone") at the bottom of the bowl.
6. Gauge ports are located on both sides of the filter/regulator body for your convenience. It is necessary to install a gauge or socket pipe plugs into each port during installation.

**! WARNING**

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

**EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.**

## Operation

- Both free moisture and solids are removed automatically by the filter. Units with coalescing elements (e.g. Standard Coalescing series) also remove oil. For coalescing units, a 5 micrometer pre-filter is recommended to protect and prolong the life of the coalescent filter element.
- Manual drain filters must be drained regularly before the separated moisture and oil reaches the bottom of the baffle or end cap.
- The filter element should be removed and replaced when pressure differential across the filter is 69 kPa (10 PSIG).
- Before turning on the air supply, turn the knob counterclockwise until compression is released from the pressure control spring. Then turn knob clockwise and adjust regulator to desired downstream pressure. This permits pressure to build up slowly in the downstream line.
- To decrease regulated pressure settings, always reset from a pressure lower than the final setting required. Example, lowering the secondary pressure from 550 to 410 kPa (80 to 60 PSIG) is best accomplished by dropping the secondary pressure to 350 kPa (50 PSIG), then adjusting upward to 410 kPa (60 PSIG).
- When desired secondary pressure settings have been reached, push the knob down to lock this pressure setting.

## Service

**⚠ Caution: Disconnect or shut off air supply and exhaust the primary and secondary pressures before servicing unit. Turning the adjusting knob counterclockwise does not vent downstream pressure on non-relieving regulators. Downstream pressure must be vented before servicing regulator.**

**Note: Grease packets are supplied with kits for lubrication of seals. Use only mineral based grease or oils. Do not use synthetic oils such as esters. Do not use silicones.**

**Note: After servicing unit, turn on air supply and adjust regulator to the desired downstream pressure. Check unit for leaks. If leakage occurs, do not operate - conduct repairs and retest.**

## Servicing Filter Element -

### A. Economy, Compact, Standard & Precision Units (Refer to Figure 1.)

- Unscrew the bottom threaded collar and remove bowl.
- Unscrew the baffle and then remove element.
- Clean all internal parts and bowl before reassembling. See polycarbonate bowl cleaning section. **IMPORTANT:** The Economy, Compact, Standard & Precision Filter / Regulators will not operate properly if the deflector (or rubber spacer if using an Compact adsorber) is not installed properly. The deflector (or rubber spacer) must be installed between the filter stem and the filter body.
- Install new element.
- Attach baffle and finger tighten firmly.
- Replace bowl seal. Lightly lubricate new seal to assist with retaining it in position.
- Install bowl into body and tighten collar; hand tight, plus 1/4 turn.

### B. Standard Coalescing Units (Refer to Figure 2.)

- Hold bowl collar stationary while unscrewing and removing bowl.
- Unscrew end cap and then remove element. (Do not remove threaded rod.)
- Clean all internal parts and bowl before reassembling.
- Install new element.
- Attach end cap and finger tighten firmly.
- Replace bowl seal. Lightly lubricate new seal to assist with retaining it in position.
- Thread bowl into collar; hand tighten until bowl stops against collar.

## Servicing Regulator -

### A. Economy, Compact, Standard & Precision Units - (Refer to Figure 1.)

- Disengage the adjusting knob by pulling upward. Turn adjusting knob counterclockwise until the compression is released from the pressure control spring.
- Remove the bonnet and bowl assemblies by unscrewing the two threaded collars.
- Remove diaphragm assembly from bonnet assembly.
- Remove filter stem, filter element, poppet assembly, poppet return spring, (seat) insert and its o-rings.
- Clean and carefully inspect parts for wear or damage. If replacement is necessary, use parts from service kits. Clean bowl. See polycarbonate bowl cleaning section.
- Lubricate o-ring and vee packing seals with grease found in service kits.
- Install poppet return spring, poppet assembly, (seat) insert and its o-rings, and filter stem. **IMPORTANT:** The Economy, Compact, Standard & Precision Filter / Regulators will not operate properly if the deflector (or rubber spacer if using an Compact adsorber) is not installed properly. The deflector (or rubber spacer) must be installed between the filter stem and filter body.
- Install filter element and firmly tighten baffle onto the filter stem.
- Install diaphragm assembly into bonnet assembly. Assemble bonnet assembly to body and tighten threaded collar from 5.4 to 5.9 Nm (48 to 52 in-lbs).
- Install bowl into body and tighten collar; hand tight, plus 1/4 turn.

### B. 12E Units - (Refer to Figure 2.)

- Disengage the adjusting knob by pulling upward. Turn adjusting knob counterclockwise until the compression is released from the pressure control spring.
- Remove the bonnet assembly by unscrewing its threaded collar.
- Remove the bottom collar and bowl as an integral unit. Note: The reverse flow adapter and element assembly should remain in proper alignment with the collar; they are held in place by the o-ring between the adapter and the collar.
- Remove diaphragm assembly from bonnet assembly.
- Remove poppet assembly, poppet return spring, (seat) insert and its o-rings.
- Clean and carefully inspect parts for wear or damage. If replacement is necessary, use parts from service kits.
- Lubricate o-ring and vee packing seals with grease found in service kits.
- Install poppet return spring, poppet assembly, (seat) insert and its o-rings.
- Install diaphragm assembly into bonnet assembly. Assemble bonnet assembly to body and tighten threaded collar from 5.4 to 5.9 Nm (48 to 52 in-lbs).
- Install bottom collar and bowl subassembly into body. Tighten collar hand tight, plus 1/4 turn.

Maintenance Service Kits	Economy	Compact	Standard	Standard Coalescing	Precision
<b>Element Kits</b>					
5 Micron	PS902	PS702	PS802	N/A	PS902
40 Micron	PS901	PS701	PS801	N/A	PS901
Grade 6	N/A	N/A	N/A	PS884	N/A
Grade 10	N/A	N/A	N/A	PS885	N/A
Relieving Regulator Repair Kit	PS908	PS710	PS810	PS886	PS907
Non-Relieving Regulator Repair Kit	PS909	PS711	PS811	PS887	N/A

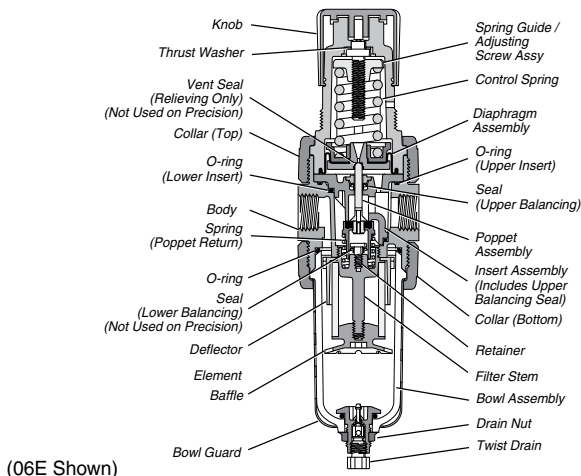


Figure 1: Economy, Compact, Standard & Precision

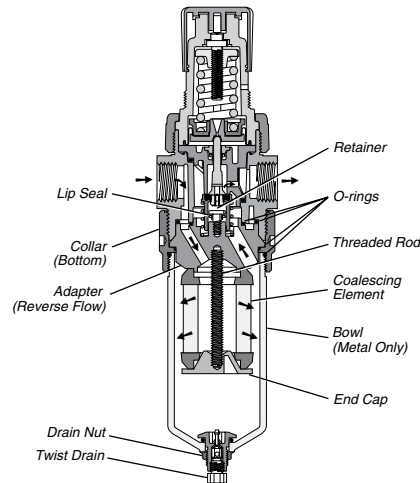


Figure 2: Standard Coalescing

**⚠ WARNING**

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

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

**⚠ WARNING**

**Product rupture can cause serious injury.  
 Do not connect regulator to bottled gas.  
 Do not exceed maximum primary pressure rating.**

**Safety Guide**

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: [www.parker.com/safety](http://www.parker.com/safety)

**Introduction**

Follow these instructions when installing, operating, or servicing the product.

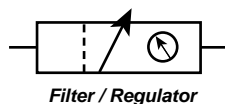
**Application Limits**

These products are intended for use in general purpose compressed air systems only.

	kPa	PSIG	bar
<b>Operating Pressure Maximum</b>	1700	250	17.0
<b>Operating Temperature Maximum</b>		80°C (175°F)	
<b>Operating Temperature Minimum</b>		0°C (32°F)	

**Note:** The maximum recommended pressure drop for a particulate filter is 70 kPa (10 PSIG, 0.7 bar).

**Symbols**



**Installation**

1. The filter/regulator should be installed with reasonable accessibility for service whenever possible – repair service kits are available. Keep pipe or tubing lengths to a minimum with inside clean and free of dirt and chips. Pipe joint compound

should be used sparingly and applied only to the male pipe – never into the female port. Do not use PTFE tape to seal pipe joints – pieces have a tendency to break off and lodge inside the unit, possibly causing malfunction. Also, new pipe or hose should be installed between the filter/regulator and equipment being protected.

2. The upstream pipe work must be clear of accumulated dirt and liquids.
3. Select a filter/regulator location as close as possible to the equipment being protected.
4. Install filter/regulator so that air flows in the direction of arrow on body.
5. Install filter/regulator vertically with the bowl drain mechanism at the bottom. Free moisture will thus drain into the sump (“quiet zone”) at the bottom of the bowl.
6. Gauge ports are located on both sides of the filter/regulator body for your convenience. It is necessary to install a gauge or socket pipe plugs into each port during installation.

**Operation**

1. Both free moisture and solids are removed automatically by the filter.
2. Manual drain filters must be drained regularly before the separated moisture and oil reaches the bottom of the baffle or end cap.
3. The filter element should be removed and replaced when pressure differential across the filter is 69 kPa (10 PSIG).
4. Before turning on the air supply, turn the knob counterclockwise until compression is released from the pressure control spring. Then turn knob clockwise and adjust regulator to desired downstream pressure. This permits pressure to build up slowly in the downstream line.
5. To decrease regulated pressure settings, always reset from a pressure lower than the final setting required. Example, lowering the secondary pressure from 550 to 410 kPa (80 to 60 PSIG) is best accomplished by dropping the secondary pressure to 350 kPa (50 PSIG), then adjusting upward to 410 kPa (60 PSIG).
6. When desired secondary pressure settings have been reached, push the knob down to lock this pressure setting.

**⚠ WARNING**

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

**EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.**

**Service**

**⚠ Caution:** Disconnect or shut off air supply and exhaust the primary and secondary pressures before servicing unit. Turning the adjusting knob counterclockwise does not vent downstream pressure on non-relieving regulators. Downstream pressure must be vented before servicing regulator.

**Note:** Grease packets are supplied with kits for lubrication of seals. Use only mineral based grease or oils. Do not use synthetic oils such as esters. Do not use silicones.

**Note:** After servicing unit, turn on air supply and adjust regulator to the desired downstream pressure. Check unit for leaks. If leakage occurs, do not operate - conduct repairs and retest.

**Service Kits Available**

Description	Kit Number	Contains Items
Element Kits:		
5 Micron	P3NKA00ESE	(5) Bowl Seal and (2) Element
40 Micron	P3NKA00ESG	
25 Micron Porous Bronze	P3NKA00ESJ	
Relieving Regulator Repair Kit	P3NKA00RR	(1) Piston, (3) O-ring, (4) Poppet Assembly,
Non-relieving Regulator Repair Kit	P3NKA00RN	(6) Poppet Return Spring, (7) Lipseal, (8) O-ring
Auto Drain Kit	PS506	(9) Auto Drain Assembly

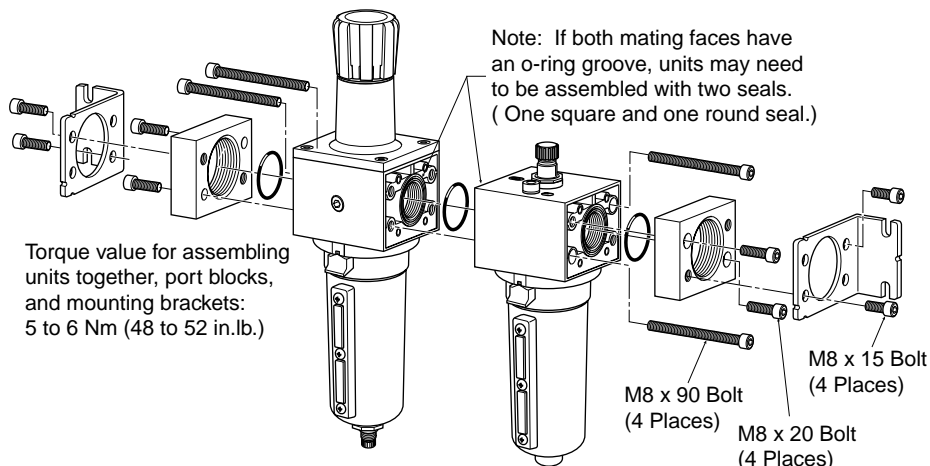
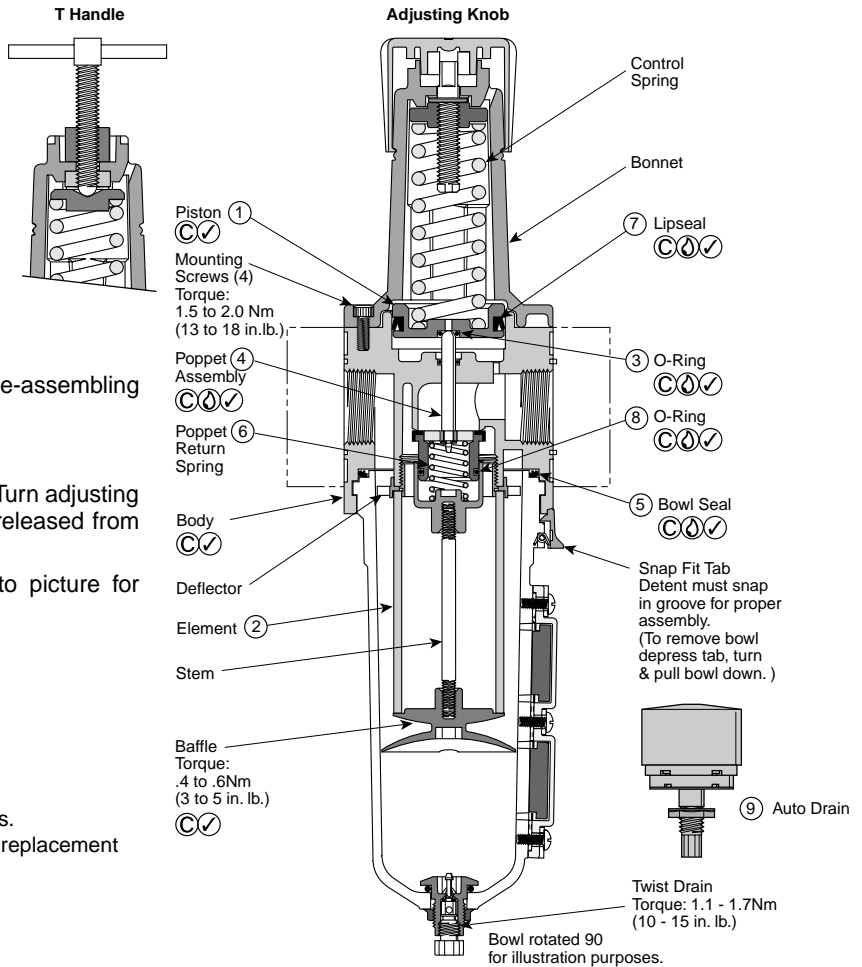
**Servicing Filter Element**

Refer to picture for disassembling, servicing, and re-assembling unit.

**Servicing Regulator**

1. Disengage the adjusting knob by pulling upward. Turn adjusting knob counterclockwise until the compression is released from the pressure control spring.
2. Disassemble and service as required. Refer to picture for details.
3. Re-assemble unit. Refer to picture for details.

- ⦿ Lightly grease with provided lubricant.
- ✓ Inspect for nicks, scratches, and surface imperfections. If present, reduced service life is probable and future replacement should be planned.
- Ⓒ Clean with lint-free cloth.



**Pneumatic Division**  
 Richland, Michigan 49083  
 269-629-5000

**Installation & Service Instructions:**  
**2L101E**  
 1/4" & 3/8" Economy  
 1/4", 3/8" & 1/2" Compact  
 1/2" & 3/4" Standard  
 Mist & Micromist Lubricators  
**ISSUED: September 2012**  
**Supersedes: September 2006**  
 Doc. #2L101, ECN# 120039, Rev. 9

**⚠ WARNING**

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

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

**⚠ CAUTION**

Polycarbonate bowls, being transparent and tough, are ideal for use with Filters and Lubricators. They are suitable for use in normal industrial environments, but should not be located in areas where they could be subjected to direct sunlight, an impact blow, nor temperatures outside of the rated range. As with most plastics, some chemicals can cause damage. Polycarbonate bowls should not be exposed to chlorinated hydrocarbons, ketones, esters and certain alcohols. They should not be used in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester and diester types.

Metal bowls are recommended where ambient and/or media conditions are not compatible with polycarbonate bowls. Metal bowls resist the action of most such solvents, but should not be used where strong acids or bases are present or in salt laden atmospheres. Consult the factory for specific recommendations where these conditions exist.

**TO CLEAN POLYCARBONATE BOWLS USE MILD SOAP AND WATER ONLY! DO NOT** use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

Bowl guards are recommended for added protection of polycarbonate bowls where chemical attack may occasionally occur.

**⚠ WARNING**

To avoid polycarbonate bowl rupture that can cause personal injury or property damage, do not exceed bowl pressure or temperature ratings. Polycarbonate bowls have a 150 PSIG pressure rating and a maximum temperature rating of 125°F.

**Safety Guide**

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: [www.parker.com/safety](http://www.parker.com/safety)

**Introduction**

Follow these instructions when installing, operating, or servicing the product.

**Application Limits**

These products are intended for use in general purpose compressed air systems only.

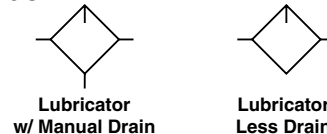
**With Polycarbonate Bowl**

	kPa	PSIG	bar
Operating Pressure Maximum	1000	150	10.3
Operating Temperature Maximum	52°C (125°F)		
Operating Temperature Minimum	0°C (32°F)		

**With Metal Bowl**

	kPa	PSIG	bar
Operating Pressure Maximum	1700	250	17.0
Operating Temperature Maximum	80°C (175°F)		
Operating Temperature Minimum	0°C (32°F)		

**ANSI Symbol**



**Installation**

1. The lubricator should be installed with reasonable accessibility for service whenever possible. Keep pipe or tubing lengths to a minimum with inside clean and free of dirt and chips. Pipe joint compound should be used sparingly and applied only to the male pipe – never into the female port. Do not use PTFE tape to seal pipe joints – pieces have a tendency to break off and lodge inside the unit, possibly causing malfunction.
2. Install lubricator so air flows in the direction of arrow on body.
3. Installation should be upstream of the device it is to lubricate (valve, cylinders, tool, etc.).

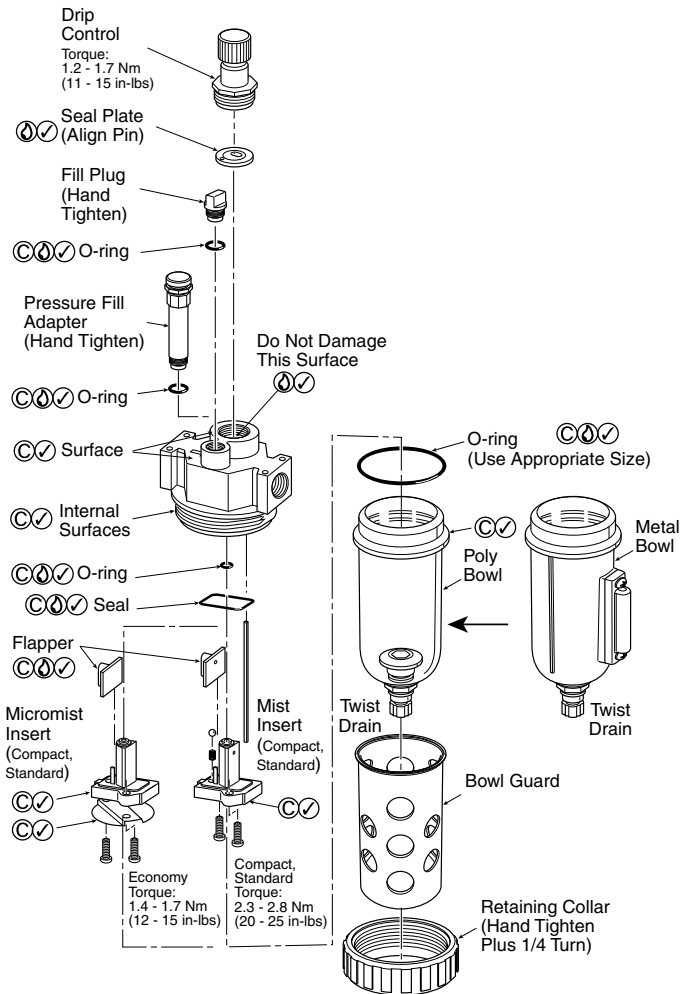
**⚠ WARNING**

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

**EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.**



- Lightly grease with provided lubricant.
- Inspect for nicks, scratches, and surface imperfections. If present, reduced service life is probable and future replacement should be planned.
- Clean with lint-free cloth.

**Operation and Service**  
(Refer to Above Pictorial)

1. Filling — The Mist lubricator can be filled without turning off the upstream pressure. Slowly remove the fill plug (black) by turning counterclockwise. This allows the bowl pressure to vent.

The inlet pressure of the Micromist lubricator must be turned off and depressurized before the fill plug (yellow) is removed. Turn counterclockwise to remove. Fill to oil level line.

Suggested lubricant: F442

Petroleum based oil of 100 to 200 SUS viscosity at 100°F and an aniline point greater than 200°F. (Mobil DTE24 and Sun Company Sunvis 932 are good examples). Do not use oils with adhesives, compound oils containing solvents, graphite, detergents or synthetic oils.

2. Replace the fill plug (by turning clockwise) and seat firmly. Excessive torque is not required. Turn on air supply for Micromist type. If leakage occurs, **DO NOT OPERATE** — conduct repairs again. The lubricator is now ready for setting.

3. Oil delivery adjustment — To adjust oil delivery, turn adjustment knob on top of the lubricator.

Leaner — Clockwise

Richer — Counterclockwise

By counting the number of drops per minute in the sight dome, you can adjust to your requirements.

Mist lubricator — Every drop visible in the sight dome goes downstream.

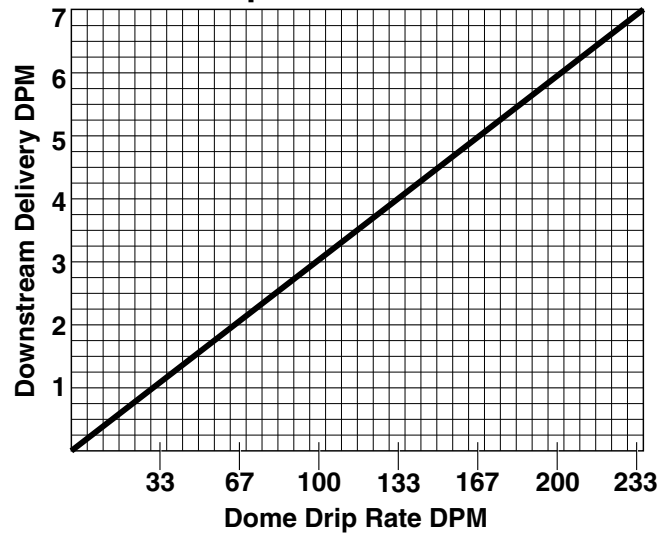
Micromist lubricator — Approximately 3% of the droplets visible in the sight dome go downstream; adjust drip rate accordingly. Consult oil delivery conversion chart.

Generally, one drop per minute downstream for every 10 - 15 SCFM flow is satisfactory.

25 drops per minute equals one (1) ounce per hour - volume of oil passing through the sight dome.

NOTE: This is a constant density type lubricator which delivers a constant ratio of oil air flow. Therefore, if air flow increases or decreases, oil delivery will be adjusted proportionately. ONLY IF A DIFFERENT RATIO IS DESIRED SHOULD YOUR ADJUSTMENT KNOB SETTING BE CHANGED AFTER YOUR INITIAL SETTING.

**Oil Delivery Conversion**  
**3% of Drip Rate to Downstream**



4. To replace fill plug, drip control, & service lubricator:
- A. Turn off air supply and depressurize the unit.
  - B. Refer to pictorial for servicing and torque values.
  - C. Turn on air supply and check lubricator for leakage. If leakage occurs, **DO NOT OPERATE** — conduct repairs again.

**Kits Available**

Description	Economy 1/4" & 3/8"	Mist Compact, Standard 1/4", 3/8" & 1/2"	Micromist Compact, Standard 1/2" & 3/4"
Lubricator Repair Kit	PS918	PS718	PS748
Drip Control (Polycarbonate) and Fill Plug Kit	PS938	PS738	PS739
Drip Control (Nylon) and Fill Plug Kit	PS938N	PS738N	PS739N

Note: Sixth character in model number denotes drip control material. For B or F use the polycarbonate kit, and for C or G use the nylon kit.



**⚠ WARNING**

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

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

**⚠ CAUTION**

Polycarbonate bowls, being transparent and tough, are ideal for use with Filters and Lubricators. They are suitable for use in normal industrial environments, but should not be located in areas where they could be subjected to an impact blow, nor temperatures outside of the rated range. As with most plastics, some chemicals can cause damage. Polycarbonate bowls should not be exposed to chlorinated hydro-carbons, ketones, esters, and certain alcohols. They should not be used in air systems where compressors are lubricated with fire resistant fluids such as phosphate esters and di-esters types. In areas where polycarbonate bowls are exposed to high temperatures or atmospheres containing vapors or fluids, which are damaging to plastic, use metal bowls.

Metal bowls resist the action of most such solvents but should not be used where strong acids or bases are present or in salt laden atmospheres. Consult the factory for specific recommendations where these conditions exist.

**TO CLEAN POLYCARBONATE BOWLS USE MILD SOAP AND WATER ONLY! DO NOT** use cleaning agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

Bowl guards are recommended for added protection of polycarbonate bowls where chemical attack may occasionally occur.

**Safety Guide**

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: [www.parker.com/safety](http://www.parker.com/safety)

## Introduction

Follow these instructions when installing, operating, or servicing the product.

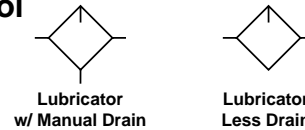
## Application Limits

These products are intended for use in general purpose compressed air systems only.

	kPa	PSIG	bar
<b>Operating Pressure Maximum</b>	1700	250	17.0

<b>Operating Temperature Maximum</b>	80°C (175°F)
<b>Operating Temperature Minimum</b>	0°C (32°F)

## ANSI Symbol



## Installation

1. The lubricator should be installed with reasonable accessibility for service whenever possible. Keep pipe or tubing lengths to a minimum with inside clean and free of dirt and chips. Pipe joint compound should be used sparingly and applied only to the male pipe – never into the female port. Do not use PTFE tape to seal pipe joints – pieces have a tendency to break off and lodge inside the unit, possibly causing malfunction.
2. Install lubricator so air flows in the direction of arrow on body.
3. Installation should be upstream of the device it is to lubricate (valve, cylinders, tool, etc.).

## Operation and Service

(Refer to Pictorial on Following Page)

1. Filling — The Mist lubricator can be filled without turning off the upstream pressure. Slowly remove the fill plug by turning counterclockwise. This allows the bowl pressure to vent.  
 Suggested lubricant: F442  
 Petroleum based oil of 100 to 200 SUS viscosity at 100°F and an aniline point greater than 200°F. (Mobil DTE24 and Sun Company Sunvis 932 are good examples). Do not use oils with adhesives, compound oils containing solvents, graphite, detergents or synthetic oils.
2. Replace the fill plug (by turning clockwise) and seat firmly. Excessive torque is not required. If leakage occurs, **DO NOT OPERATE** — conduct repairs again. The lubricator is now ready for setting.
3. Oil delivery adjustment — To adjust oil delivery, turn adjustment knob on top of the lubricator.

**⚠ WARNING**

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

**EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.**

# 1" Lubricator Series

2L300C

Leaner — Clockwise

Richer — Counterclockwise

By counting the number of drops per minute in the sight dome, you can adjust to your requirements.

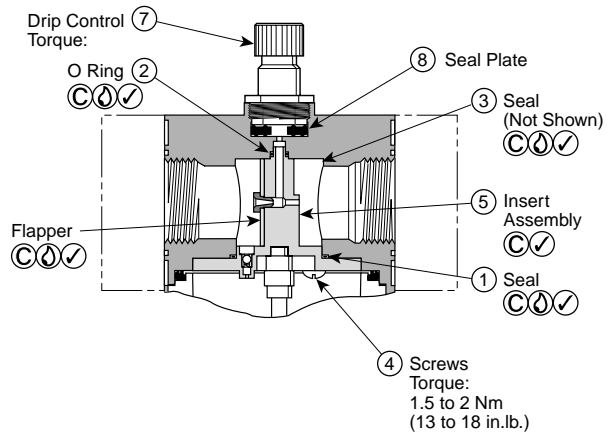
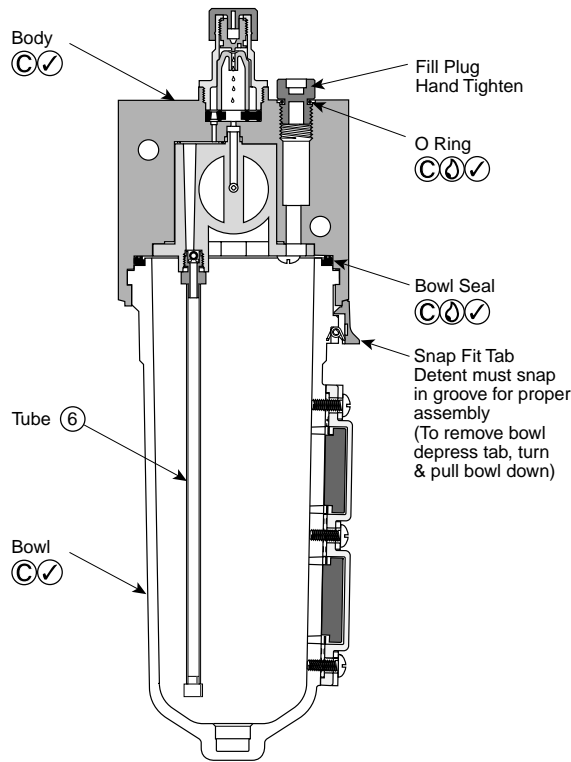
Mist lubricator — Every drop visible in the sight dome goes downstream.

Generally, one drop per minute downstream for every 10 - 15 SCFM flow is satisfactory.

25 drops per minute equals one (1) ounce per hour - volume of oil passing through the sight dome.

**NOTE:** This is a constant density type lubricator which delivers a constant ratio of oil air flow. Therefore, if air flow increases or decreases, oil delivery will be adjusted proportionately. **ONLY IF A DIFFERENT RATIO IS DESIRED SHOULD YOUR ADJUSTMENT KNOB SETTING BE CHANGED AFTER YOUR INITIAL SETTING.**

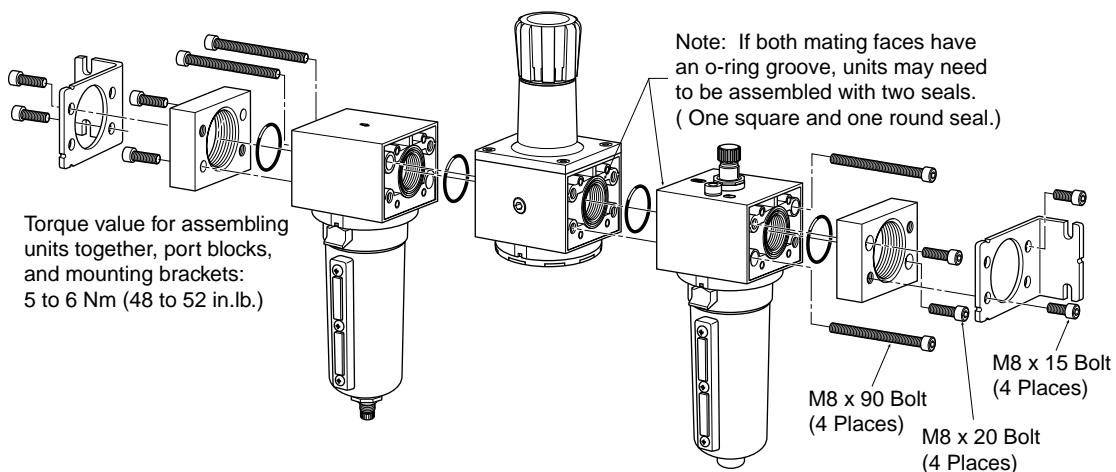
4. To replace fill plug, drip control, & service lubricator:
  - A. Turn off air supply and depressurize the unit.
  - B. Refer to pictorial for servicing and torque values.
  - C. Turn on air supply and check lubricator for leakage. If leakage occurs, **DO NOT OPERATE** — conduct repairs again.



## Service Kits Available

Description	Kit Number	Contains Items
Lubricator Repair Kit	P3NKA00RL	(1) Seal, (2) O-Ring, (3) Seal (Not Shown), (4) Screws, (5) Insert Assembly (Including Flapper), and (6) Tube
Sight Dome / Drip Control (Polycarbonate)	PS740	(7) Drip Control, (8) Seal Plate
Sight Dome / Drip Control (Polyamide / Nylon)	PS740N	

- (1) Lightly grease with provided lubricant.
- (2) Inspect for nicks, scratches, and surface imperfections. If present, reduced service life is probable and future replacement should be planned.
- (3) Clean with lint-free cloth.



**⚠ WARNING**

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

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

**⚠ CAUTION**

Polycarbonate bowls, being transparent and tough, are ideal for use with Filters and Lubricators. They are suitable for use in normal industrial environments, but should not be located in areas where they could be subjected to direct sunlight, an impact blow, nor temperatures outside of the rated range. As with most plastics, some chemicals can cause damage. Polycarbonate bowls should not be exposed to chlorinated hydrocarbons, ketones, esters and certain alcohols. They should not be used in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester and diester types.

Metal bowls are recommended where ambient and/or media conditions are not compatible with polycarbonate bowls. Metal bowls resist the action of most such solvents, but should not be used where strong acids or bases are present or in salt laden atmospheres. Consult the factory for specific recommendations where these conditions exist.

**TO CLEAN POLYCARBONATE BOWLS USE MILD SOAP AND WATER ONLY! DO NOT** use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

Bowl guards are recommended for added protection of polycarbonate bowls where chemical attack may occasionally occur.

**⚠ WARNING**

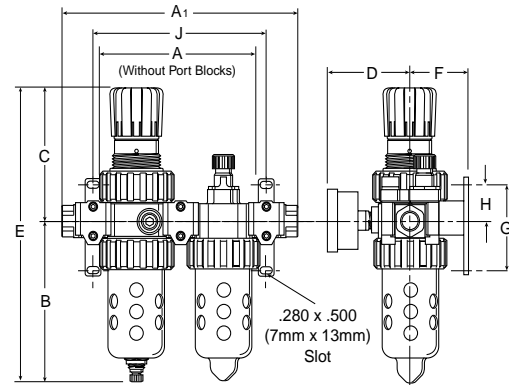
To avoid polycarbonate bowl rupture that can cause personal injury or property damage, do not exceed bowl pressure or temperature ratings. Polycarbonate bowls have a 150 PSIG pressure rating and a maximum temperature rating of 125°F.

**Safety Guide**

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: [www.parker.com/safety](http://www.parker.com/safety)

**Introduction**

Follow these instructions when installing, operating, or servicing the product.



**05 Series**

<b>A</b> 4.33 (110)	<b>A<sub>1</sub></b> 6.38 (162)	<b>B</b> 5.35 (136)	<b>C</b> 3.15 (80)	<b>D</b> 2.05 (52)	<b>E</b> 8.50 (216)
<b>F</b> 1.45 (37)	<b>G</b> 2.60 (66)	<b>H</b> 1.14 (29)	<b>J</b> 4.72 (120)		

**06 Series**

<b>A</b> 6.10 (155)	<b>A<sub>1</sub></b> 9.04 (230)	<b>B</b> 5.69 (145)	<b>C</b> 4.69 (119)	<b>D</b> 3.18 (81)	<b>E</b> 10.38 (264)
<b>F</b> 2.00 (51)	<b>G</b> 3.58 (91)	<b>H</b> 1.40 (36)	<b>J</b> 6.65 (169)		

**07 Series**

<b>A</b> 7.00 (178)	<b>A<sub>1</sub></b> 10.28 (261)	<b>B</b> 6.97 (177)	<b>C</b> 4.79 (122)	<b>D</b> 3.44 (87)	<b>E</b> 11.76 (299)
<b>F</b> 2.18 (55)	<b>G</b> 3.58 (91)	<b>H</b> 1.40 (36)	<b>J</b> 7.51 (191)		

Inches (mm)

- All dimensions nominal.

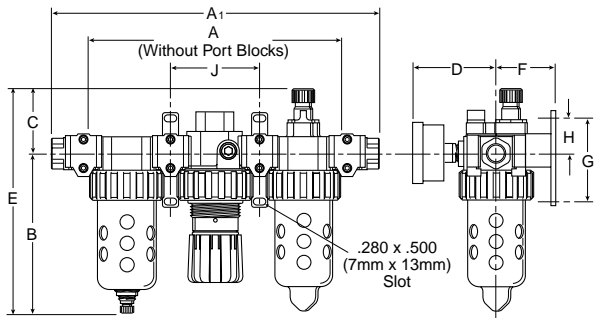
**⚠ WARNING**

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

**EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.**



05 Series					
<b>A</b> 6.70 (170)	<b>A<sub>1</sub></b> 8.72 (222)	<b>B</b> 5.35 (136)	<b>C</b> 2.24 (57)	<b>D</b> 2.05 (52)	<b>E</b> 7.59 (193)
<b>F</b> 1.45 (37)	<b>G</b> 2.60 (66)	<b>H</b> 1.14 (29)	<b>J</b> 2.35 (60)		
06 Series					
<b>A</b> 9.46 (240)	<b>A<sub>1</sub></b> 12.39 (315)	<b>B</b> 5.69 (145)	<b>C</b> 2.24 (57)	<b>D</b> 3.18 (81)	<b>E</b> 7.82 (199)
<b>F</b> 2.00 (51)	<b>G</b> 3.58 (91)	<b>H</b> 1.40 (36)	<b>J</b> 3.33 (85)		
07 Series					
<b>A</b> 10.750 (273)	<b>A<sub>1</sub></b> 14.03 (356)	<b>B</b> 6.97 (177)	<b>C</b> 2.41 (61)	<b>D</b> 3.44 (87)	<b>E</b> 9.27 (235)
<b>F</b> 2.18 (55)	<b>G</b> 3.58 (91)	<b>H</b> 1.40 (36)	<b>J</b> 3.76 (95)		

Inches (mm)  
• All dimensions nominal.

### Installation

Attach inner clamp to wall bracket using the screw provided. See Figures 1 & 2 for screw torque values. Mount wall bracket to wall using spacing shown in Figure 3. The wall brackets are designed to use 1/4 inch screws. Attach the port blocks to pipe threads using a small amount of thread sealant. Position the port blocks with two bumps pointing down (06 & 07 Series). The unit will leak if the port blocks are not positioned properly. Assemble each inner and outer clamp with the tube seal and spacer installed as shown. The inner and outer clamp must be installed with proper orientation as shown in Figures 1 & 2. Install the clamp screws with one thread of engagement. Position the filter, regulator, or lubricator with the angled surface of body ears engaged with the angled surface of the inner and outer clamp. The regulator must be installed with knob pointing down. The filter/regulator must be installed with the knob pointing up. Tighten the clamp screws alternating between the two screws per connector until both screws are snug. Check the alignment of each body to verify fit between body and clamp. The bottom flange of the inner and outer clamp must be positioned below the bottom edge of the body. Pressurize the assembly and check for air leaks. If air leaks are found, depressurize the unit. Loosen the outer clamp and check fit between the body and clamps. Retighten the screws and check for air leaks.

### Removal

Disconnect air supply and depressurize all air lines before removing any modular units.

**⚠ WARNING**

**Loosening the outer clamp screws may cause the filter, regulator, lubricator, or accessory to dislodge and fall. It is important to take necessary precautions when loosening the outer clamp screws to prevent the unit from falling and causing injury.**

Loosen the outer clamp screws 8-9 turns. It is not necessary to completely remove the screws. Slide the unit down until it disconnects from the clamps. It may be necessary to pull the outer clamp out when removing one of the units from the assembly.

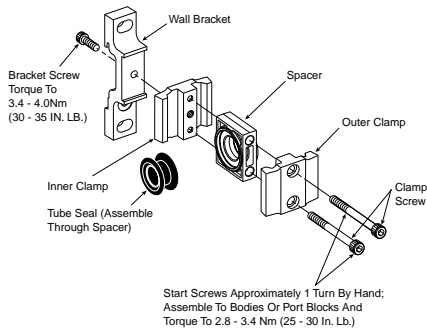


Figure 1 (05 Series)

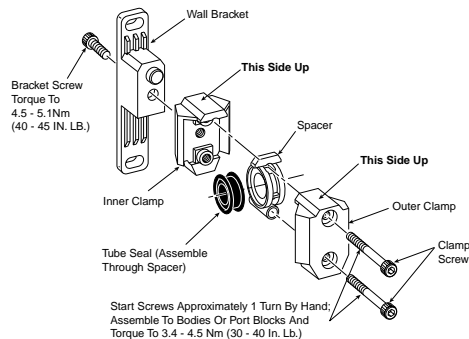


Figure 2 (06-07 Series)

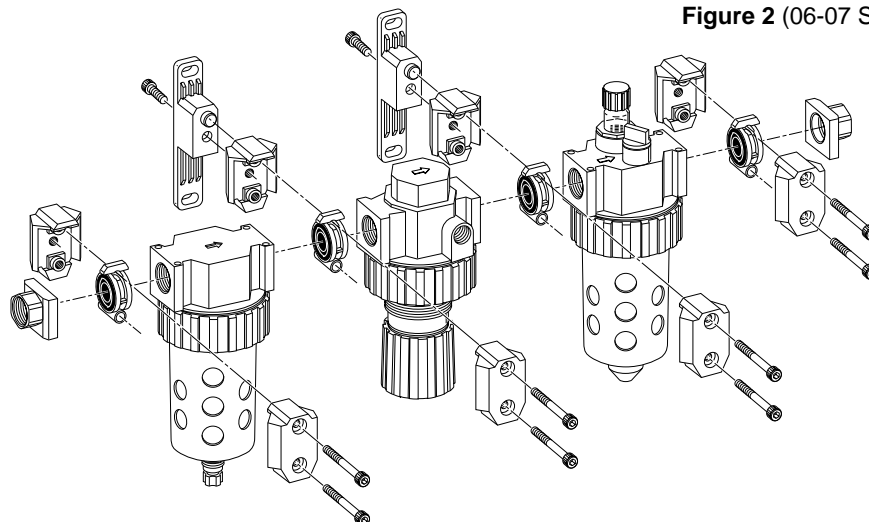


Figure 3 (06-07 Series)

**⚠ WARNING**

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

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

**⚠ WARNING**

**Product rupture can cause serious injury.**  
**Do not connect regulator to bottled gas.**  
**Do not exceed maximum primary pressure rating.**

**Safety Guide**

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: [www.parker.com/safety](http://www.parker.com/safety)

**Introduction**

Follow these instructions when installing, operating, or servicing the product.

**Application Limits**

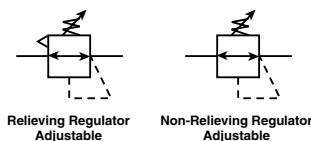
These products are intended for use in general purpose compressed air systems only.

**Operating Pressure:**

	kPa	psig	bar
<b>Maximum Inlet Pressure</b>	1720	250	17.2

**Ambient Temperature Range:** 0°C to 80°C (32°F to 175°F)

**Symbols**



**Installation**

1. The regulator should be installed with reasonable accessibility for service whenever possible - repair service kits are available. Keep pipe and tubing lengths to a minimum with inside clean and free of dirt and chips. Pipe joint compound should be used sparingly and applied only to the male pipe - never into the female port. Do not use PTFE tape to

seal pipe joints - pieces have a tendency to break off and lodge inside unit, possibly causing malfunction.

2. Install regulator so that air flow is in the direction of arrow. Installation must be upstream (high pressure) side and as close to the devices it is to service (valve, cylinder, tool, etc.). Mounting may be in any position.
3. Gauge ports are located on both sides of the regulator body for your convenience. It is necessary to install a gauge or pipe plugs into each port during installation.
4. For protection against rust, pipe scale, and other foreign matter, install a filter on the upstream (high pressure) side as close to the regulator as possible.

**Operation**

1. Before turning on the air supply, turn the adjusting knob (Economy, Precision, Compact, Standard) counterclockwise until compression is released from the control spring. Then turn on air supply and adjust regulator to desired secondary pressure by turning adjusting knob/handle clockwise. This permits pressure to build up slowly, preventing any unexpected operation of the valve, cylinders, tools, etc., attached to the line. Adjustment to desired secondary pressure can be made only with primary pressure applied to the regulator.
2. To decrease regulator pressure setting, always reset from a pressure lower than the final setting desired. For example, lowering the secondary pressure from 550 to 410 kPa (80 to 60 psig) is best accomplished by dropping the secondary pressure to 350 kPa (50 psig), then adjusting upward to 410 kPa (60 psig).

On Economy, Precision, Compact and Standard units, push the adjusting knob down to lock the pressure setting. And on the Hi-Flow unit, tighten the hex nut against the bonnet to lock setting.

**Service**

**⚠ CAUTION:**

SHUT OFF AIR SUPPLY and exhaust the primary and secondary pressure before disassembling regulator unit. (Turning the knob/handle counterclockwise reduces regulator's setting, but does not vent downstream pressure on non-relieving regulators.)

**⚠ CAUTION:**

Lubricate parts with a mineral based oil/grease or silicone grease. DO NOT use synthetic oils/greases such as esters.

**⚠ WARNING**

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

**EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.**

**A. Use the following procedure to service Economy, Precision, Compact and Standard units, see Figures 1 & 2:**

1. Disengage the adjusting knob by pulling upward. Turn adjusting knob counterclockwise until the compression is released from the pressure control spring.
2. Unscrew the threaded collar and remove the bonnet assembly. Next, disassemble, clean, and carefully inspect parts for wear and/or damage. If replacement is necessary, use parts from service kits.
3. Lubricate o-ring and lip seals with grease (supplied with kits).
4. Install diaphragm assembly into bonnet. Then install bonnet assembly to body and tighten threaded collar hand tight plus 1/4 turn.

**B. Servicing the Poppet Assembly-**

1. Exhaust system air pressure as previously described. Then remove cap by unscrewing it from body. Next, remove poppet assembly, o-ring (Economy, Precision), cap's o-ring and poppet return spring.
2. Next, disassemble, clean, and carefully inspect parts for wear and/or damage. If replacement is necessary, use parts from service kits.
3. Lubricate o-ring (Economy, Precision) and sliding surfaces using grease supplied with service kit.
4. Turn on air supply and adjust to desired secondary pressure as described in the Operation section.

Turn on air pressure and check regulator for leakage. If leakage occurs, DO NOT OPERATE — conduct repairs again.

If you have questions concerning how to service this unit, contact your local authorized dealer or your customer service representative.

- Ⓐ Lightly grease with provided lubricant.
- Ⓑ Inspect for nicks, scratches, and surface imperfections.  
If present, reduced service life is probable and future replacement should be planned.
- Ⓒ Clean with lint-free cloth.

**Service Kits Available**

	Economy	Precision	Compact	Standard
Regulator (Standard) Repair Kit (Relieving)	PS908	PS907	PS708	PS808
Regulator (Reverse Flow) Repair Kit (Relieving)	N/A	N/A	PS708R	PS808R
Regulator (Standard) Repair Kit (Non-Relieving)	PS909	N/A	PS709	PS809
Regulator (Reverse Flow) Repair Kit (Non-Relieving)	N/A	N/A	PS709R	PS809R
Seat Insert Repair Kit (Standard)	N/A	N/A	PS713	PS813
Seat Insert Repair Kit (Reverse Flow)	N/A	N/A	PS813	N/A
Bonnet Assembly	PS915	N/A	PS715	PS715
Air Pilot Conversion (Non-Relieving)	PS944	N/A	PS744	PS744
Air Pilot Conversion (Relieving)	PS945	N/A	PS745	PS745
Mounting Bracket Kit	PS963	PS963	PS707	PS807
Relieving Piston Kit	N/A	N/A	N/A	N/A
Non-Relieving Piston Kit	N/A	N/A	N/A	N/A
Body Service Kit (Balanced Poppet)	N/A	N/A	N/A	N/A
Gauges: Low Pressure 0 to 410 kPa (0 to 60 psig)	K4515N14060		K4520N14060	
Standard Pressure 0 to 1100 kPa (0 to 160 psig)	K4515N14160		K4520N14160	
High Pressure 0 to 2070 kPa (0 to 300 psig)	K4515N14300		K4520N14300	

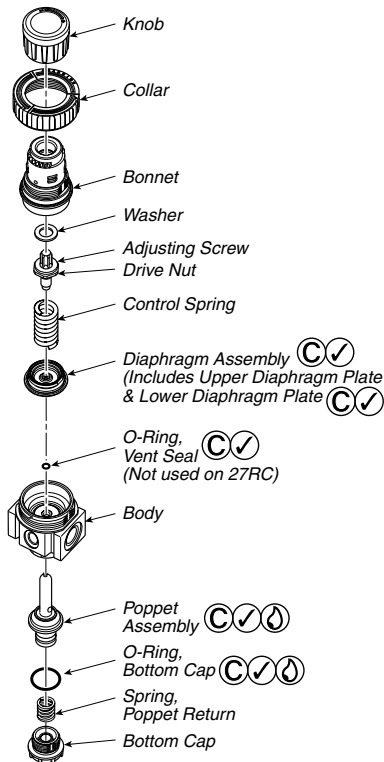


Figure 1: Economy & Precision

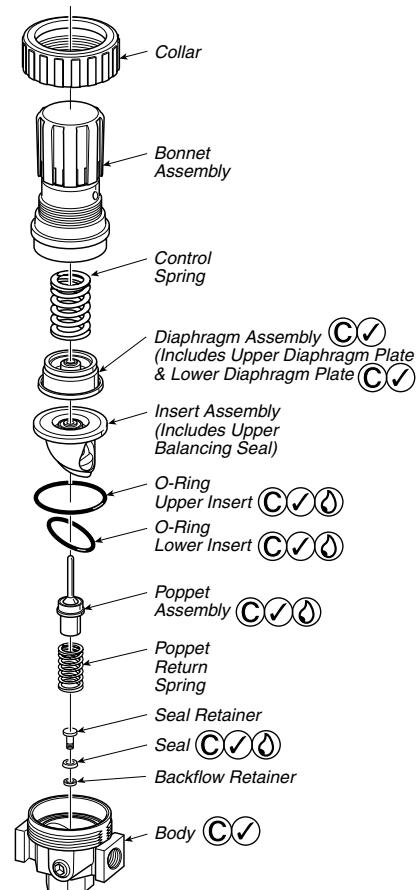


Figure 2: Compact & Standard

**⚠ WARNING**

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

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

**⚠ WARNING**

**Product rupture can cause serious injury.**  
**Do not connect regulator to bottled gas.**  
**Do not exceed maximum primary pressure rating.**

**Safety Guide**

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: [www.parker.com/safety](http://www.parker.com/safety)

**Introduction**

Follow these instructions when installing, operating, or servicing the product.

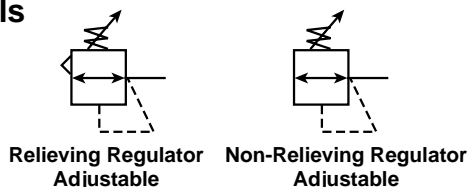
**Application Limits**

These products are intended for use in general purpose compressed air systems only.

**Operating Pressure:**

	kPa	PSIG	bar
<b>Maximum Inlet Pressure</b>	1720	250	17.2
<b>Ambient Temperature Range:</b>	0°C to 80°C (32°F to 175°F)		

**Symbols**



**Installation**

1. The regulator should be installed with reasonable accessibility for service whenever possible - repair service kits are available. Keep pipe and tubing lengths to a minimum with inside clean and free of dirt and chips. Pipe joint compound should be used

sparingly and applied only to the male pipe - never into the female port. Do not use PTFE tape to seal pipe joints - pieces have a tendency to break off and lodge inside unit, possibly causing malfunction.

2. Install regulator so that air flow is in the direction of arrow. Installation must be upstream (high pressure) side and as close to the devices it is to service (valve, cylinder, tool, etc.). Mounting may be in any position.
3. Gauge ports are located on both sides of the regulator body. It is necessary to install a gauge or pipe plugs into each port during installation.
4. For protection against rust, pipe scale, and other foreign matter, install a filter on the upstream (high pressure) side as close to the regulator as possible.

**Operation**

1. Before turning on the air supply, turn the adjusting knob or "T" handle counterclockwise until compression is released from the control spring. Then turn on air supply and adjust regulator to desired secondary pressure by turning adjusting knob/handle clockwise. This permits pressure to build up slowly, preventing any unexpected operation of the valve, cylinders, tools, etc., attached to the line. Adjustment to desired secondary pressure can be made only with primary pressure applied to the regulator.
2. To decrease regulator pressure setting, always reset from a pressure lower than the final setting desired. For example, lowering the secondary pressure from 550 to 410 kPa (80 to 60 psig) is best accomplished by dropping the secondary pressure to 350 kPa (50 psig), then adjusting upward to 410 kPa (60 psig).

Push the adjusting knob down to lock the pressure setting. On the "T" handle units, tighten the hex nut against the bonnet to lock setting.

**Service**

- ⚠ CAUTION:**  
 SHUT OFF AIR SUPPLY and exhaust the primary and secondary pressure before disassembling regulator unit. (Turning the knob/handle counterclockwise reduces regulator's setting, but does not vent downstream pressure on non-relieving regulators.)

**⚠ WARNING**

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

**EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.**



**⚠ CAUTION:**

Lubricate parts with a mineral based oil/grease or silicone grease. DO NOT use synthetic oils/greases such as esters.

A. Use the following procedure to service bonnet assembly and components.

1. (Adjustable Regulator only) Disengage the adjusting knob by pulling upward. Turn adjusting knob counterclockwise until the compression is released from the pressure control spring.
2. Disassemble and service as required. Refer to pictures for details.
3. Reassemble Unit. Refer to pictures for details.

B. Servicing the Poppet Assembly

1. (Adjustable Regulator only) Disengage the adjusting knob by pulling upward. Turn adjusting knob counterclockwise until the compression is released from the pressure control spring.
2. Remove bottom cap:
  - a) Remove screw
  - b) Turn cap and pull down counter clockwise.
3. Disassemble parts and services as required. Refer to pictures for details.
4. Reassemble unit. Refer to pictures for details.

Turn on air pressure and check regulator for leakage. If leakage occurs, DO NOT OPERATE — conduct repairs again.

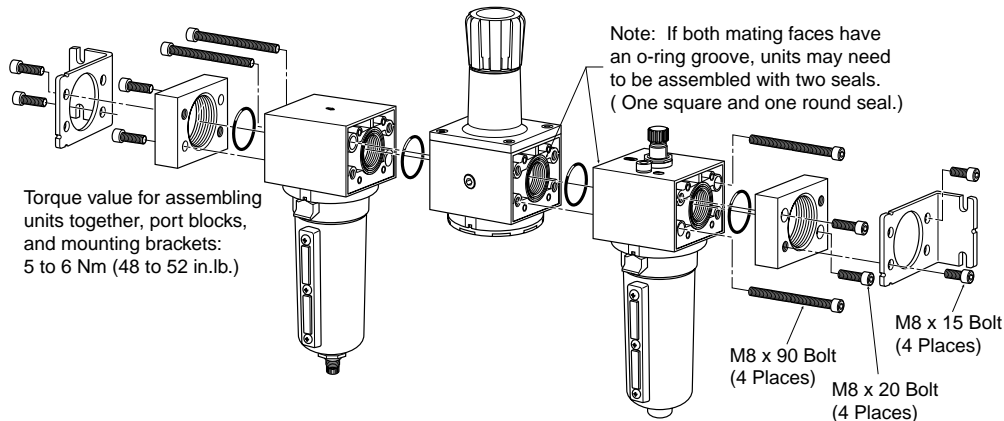
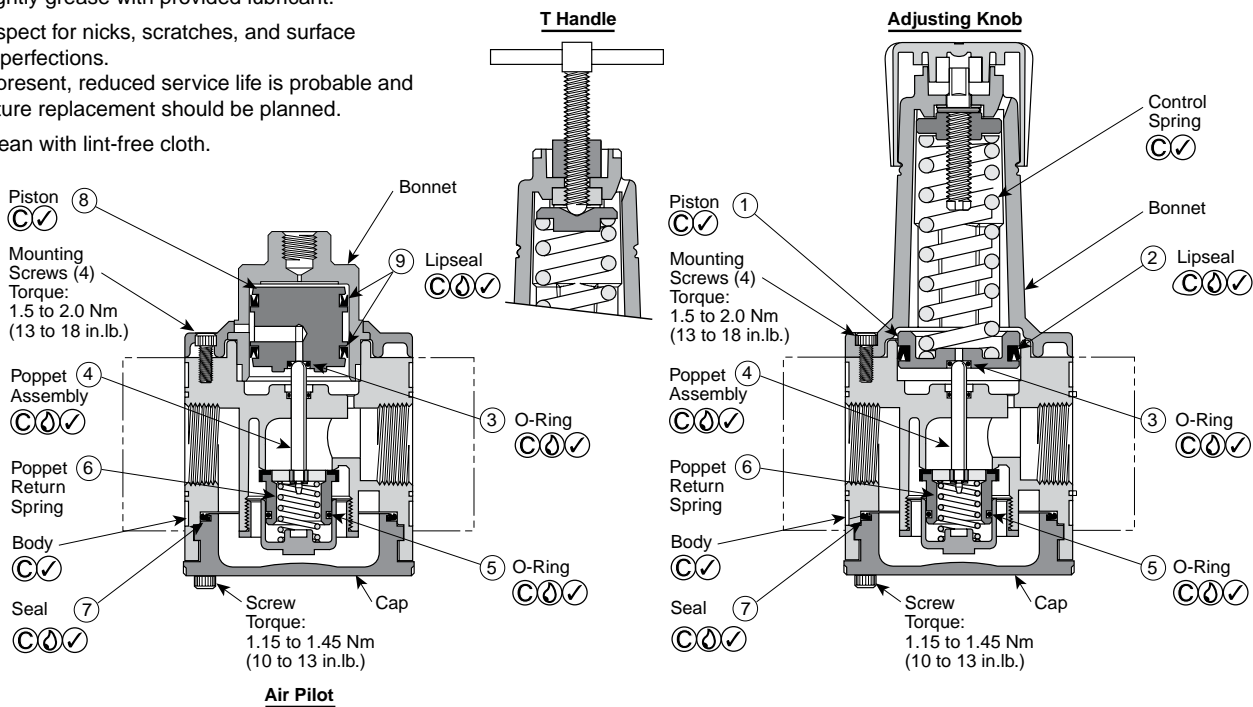
- Ⓐ Lightly grease with provided lubricant.
- Ⓑ Inspect for nicks, scratches, and surface imperfections. If present, reduced service life is probable and future replacement should be planned.
- Ⓒ Clean with lint-free cloth.

Adjust to desired secondary pressure as described in the operation section.

If you have questions concerning how to service this unit, contact your local authorized dealer or your customer service representative.

**Service Kits Available**

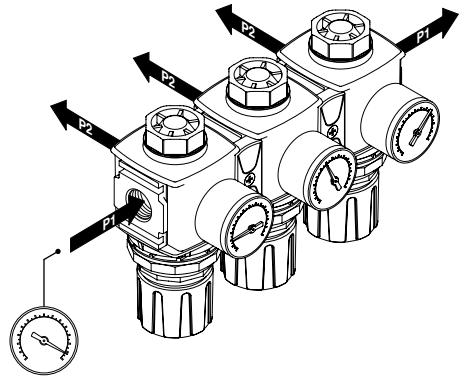
Description	Kit Number	Contains Items
Regulator (Standard)		(1) Piston, (2) Lipseal, (3) O-Ring, (4) Poppet Assembly, (5) O-Ring, (6) Poppet Return Spring, and (7) Seal
Repair Kit (Relieving)	P3NKA00RR	
Repair Kit (Non-Relieving)	P3NKA00RN	
Air Pilot Control Piston Kit	P3NKA00PD	(8) Piston, (9) Lipseal, (3) O-Ring
Mounting Bracket Kit	P3NKA00MW	Not Shown
Gauges:		
Low Pressure 0 to 410 kPa (0 to 60 PSIG)	K4520N14060	Not Shown
Standard Pressure 0 to 1100 kPa (0 to 160 PSIG)	K4520N14160	Not Shown
High Pressure 0 to 2070 kPa (0 to 300 PSIG)	K4520N14300	Not Shown



UK Common Ported Regulators  
CN 汇流型减压阀  
FR Régulateurs à orifices communs

DE Regler mit allgemeinen Anschlüssen  
IT Regolatori con porte comuni  
JP マニホールドレギュレータ

KR 공통급기 레귤레이터  
ES Reguladores de boca común  
SE Sammanbyggda regulatorer

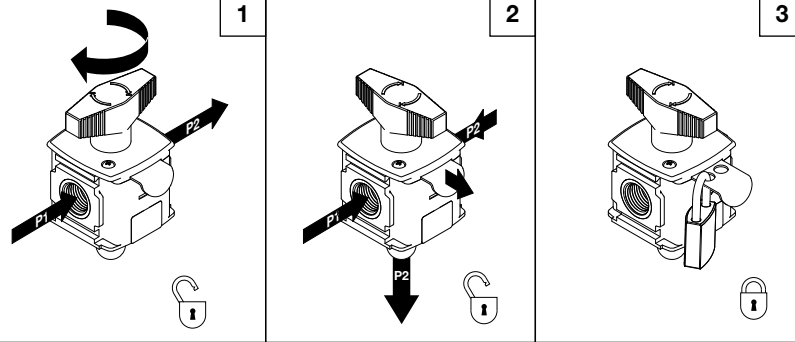


UK Safety Lockout Valves  
CN 可锁定安全阀  
FR Distributeurs verrouillables

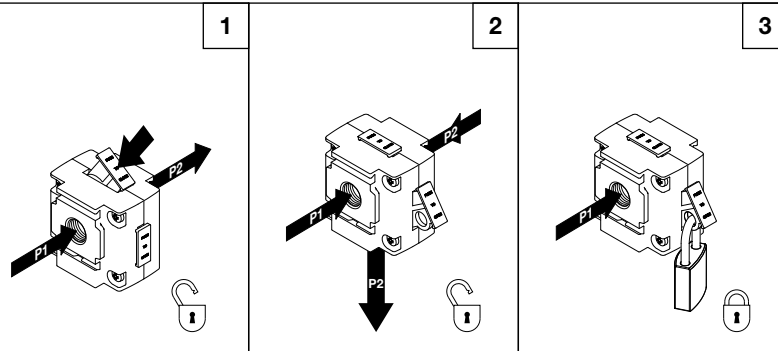
DE Sicherheitsabschaltventile  
IT Valvole di bloccaggio di sicurezza  
JP ロックアウトバルブ

KR 안전 잠금 배기밸브  
ES Válvulas de bloqueo - seguridad  
SE Säkerhetsavstängningsventiler

UK Ball Valve  
CN 球阀  
FR Vanne à boisseau  
DE Kugelventil  
IT Valvola a sfera  
JP ボールバルブ式  
KR 볼밸브  
ES Válvula de bola  
SE Kulventil



UK Slide Valve  
CN 截止阀  
FR Tiroir  
DE Schieberventil  
IT Valvola scorrevole  
JP スライドバルブ式  
KR 슬라이드밸브  
ES Válvula de corredera  
SE Slidventil



5FR100 Rev. E

# Global Air Preparation System

EN130810

EN WARNING

To avoid unpredictable system behaviour that can cause personal injury and proper damage:

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

EN WARNING

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

EN CAUTION

Polycarbonate bowls, being transparent and tough, are ideal for use with Filters and Lubricators. They are suitable for use in normal industrial environments, but should not be located in areas where they could be subjected to direct sunlight, an impact blow, nor temperatures outside of the rated range. As with most plastics, some chemicals can cause damage. Polycarbonate bowls should not be exposed chlorinated hydrocarbons, ketones, esters, and certain alcohols. They should not be used in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester and diester types.

Metal bowls are recommended where ambient and/or media conditions are not compatible with polycarbonate bowls. Metal bowls resist the action of most such solvents, but should not be used where strong acids or bases are present or in salt laden atmospheres. Consult the factory for specific recommendations where these conditions exist.

TO CLEAN POLYCARBONATE BOWLS USE MILD SOAP AND WATER ONLY! DO NOT use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

EN Safety Guide

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogues or you can download the Pneumatic Division Safety Guide at: [www.parker.com/safety](http://www.parker.com/safety)

EN WARNING

To avoid polycarbonate bowl rupture that can cause personal injury or property damage, do not exceed bowl pressure or temperature ratings. Polycarbonate bowls have a 150 PSIG (10 bar) pressure rating and a maximum temperature rating of 125°F (52°C).

EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.

CN 警告

为避免不可预测的系统运作而导致人身伤害和财产损失:

- 安装、维修和改动前必须断开电源供应;
- 安装、维修和改动前必须断开电源供应, 释放连接该产品的管路压力;
- 必须在厂商所指定的压力, 温度和其他使用说明书中注明的环境条件下操作使用;
- 在环境温度低于零下时介质必须是无油的;
- 根据使用说明书中厂商推荐的程序保养;
- 必须由气动专业人士来安装, 维护和改动产品;
- 安装、维修、改动后, 气源和电气需要连接, 并测试产品功能及是否有泄露。如果有可听见的泄漏声或操作不确, 不可投入使用;
- 产品上的警示和规范不能被油漆等覆盖。如果标签不清晰, 请联系相关负责人更换标签。

CN 警告

错误或者不正确地选择和用 错误或者不正确地选择和产品信息有可能会致死亡, 人身伤害和财产损失。

这个文件和另外的信息来自公司总部, 它是给分销商补充和授权产品或者系统的选项, 是给用户调查研究用的技术资料。分析你的所有应用, 包括任何一旦 发生错误的后果并在现有的产品目录中阅读相关产品或系统信息。对于您来说 都是非常必要的。由于操作环境和产品或系统的使用是多样性的, 用户通过 自己的分析和测试, 对最终产品和系统选择负有绝对责任, 并确保确保所有产 品的性能, 安全和应用时需要注意的问题都已满足。

这里提到的产品, 包括无限制性, 产品特性, 说明书, 设计, 实用性和 价格可由公司总部及其下属公司在没有通知的情况下改变。

CN 注意

碳酸聚酯水杯是透明坚固的, 是过滤器和油雾器的理想选择。适合一般工业环境应用, 但是不适用于那些阳光直射, 冲击和户外温差大的场合。因为含有大量塑料, 某些化学物质会损坏水杯。碳酸聚酯水杯不能暴露于碳化氢化合物, 酮, 酯和某些酒精。此类水杯不能应用于被防火型液体, 如, 碳酸盐酯和二酯类润滑过的空压机的气动系统中。

在那些不适合碳酸聚酯水杯的环境中, 推荐使用金属水杯。金属水杯能抵抗大多数溶剂, 但是不能在强酸, 含盐的场所。对于特殊场合请咨询工厂。

碳, 汽油, 甲苯等清洁剂, 这会直接损害塑料。

CN 安全指南

更多完整的推荐应用指导信息, 请见气动样本中的安全指南部分或者可以在 气动部门安全指南网站上下载资料: [www.parker.com/safety](http://www.parker.com/safety)

CN 警告

为了避免碳酸聚酯水杯破裂而导致的人身和财产损失, 不能使用超过水杯的压力和温度范围。碳酸聚酯水杯最高承受 150 PSIG (10bar)压力和最高125°F (52°C)的温度

如需多份涉及这些产品维修/操作指南的使用说明书。请联系当地办事处。

FR MISE EN GARDE

Afin de prévenir tout comportement imprévisible du système pouvant entraîner des accidents et des dommages matériels :

- Débrancher l'alimentation électrique (s'il y a lieu) avant de procéder à l'installation, à l'entretien ou à la transformation.
- Débrancher l'approvisionnement en air et mettre hors pression toutes les conduites d'air de ce produit avant de procéder à l'installation, à l'entretien ou à la transformation.
- Faire fonctionner dans les conditions de pression, de température et autres qui sont indiquées dans ces instructions.
- Si la température ambiante est inférieure au point de congélation, le fluide doit être exempt d'humidité.
- Effectuer l'entretien conformément aux procédures qui sont indiquées dans ces instructions.
- L'installation, l'entretien et la transformation de ces produits doivent être effectués par des personnes familiarisées avec les produits pneumatiques.
- Après l'installation, l'entretien ou la transformation, rétablir l'alimentation électrique ainsi que l'approvisionnement en air (s'il y a lieu) et tester le produit afin de s'assurer qu'il fonctionne bien et qu'il n'y a pas de fuites. Si une fuite s'entend ou si le produit ne fonctionne pas correctement, ne pas le mettre en service.
- Les mises en garde et les indications portées sur le produit ne doivent pas être recouvertes par de la peinture, etc. Si le masquage n'est pas possible, contacter le représentant local pour obtenir des étiquettes de remplacement.
- Les mises en garde et les indications portées sur le produit ne doivent pas être recouvertes par de la peinture, etc. Si le masquage n'est pas possible, contacter le représentant local pour obtenir des étiquettes de remplacement.

FR MISE EN GARDE

LA NON OBSERVATION D'INSTRUCTIONS OU LA SÉLECTION IMPROPRE OU L'USAGE INAPPROPRIÉ DES PRODUITS ET/OU DES SYSTÈMES DÉCRITS AUX PRÉSENTES, OU ARTICLES CONNEXES, PEUVENT ENTRAÎNER LA MORT, DES PRÉJUDICES CORPORELS ET/OU DES DOMMAGES MATÉRIELS.

Le présent document et toute autre information provenant de la Société, de ses filiales et distributeurs agréés se réfèrent à des produits et/ou des systèmes pouvant faire l'objet de tests et de contrôles de la part d'utilisateurs compétents, possédant une expertise technique. Il est important que vous analysiez tous les aspects de votre application, notamment les conséquences d'une défaillance, et étudiez les informations concernant le produit ou les systèmes qui figurent dans le catalogue actuel. Compte tenu de la variété des conditions d'utilisation et des applications inhérentes à ces produits et/ou systèmes, l'utilisateur est, par le biais de ses propres analyses et tests, seul responsable de la sélection finale des produits et/ou systèmes et s'engage à ce que son application réponde à tous les critères relatifs aux performances, à la sécurité et aux mises en garde.

Les produits décrits aux présentes, y compris et sans limitation, les caractéristiques, les spécifications, les conceptions, la disponibilité et les prix, peuvent faire l'objet de modifications par la Société et ses filiales, à tout moment et sans préavis.

FR ATTENTION

Durs et transparents, les bols en polycarbonate sont parfaitement indiqués pour l'utilisation dans les filtres et les lubrificateurs. Ils sont compatibles avec les milieux industriels normaux mais ne doivent pas être placés dans des lieux où ils pourraient être exposés à la lumière directe du soleil, à des chocs ou à des températures situées en-dehors de leur plage d'utilisation nominale. Comme la plupart des plastiques, cette matière peut être endommagée par certains produits chimiques. Les bols en polycarbonate ne doivent pas être exposés aux hydrocarbures chlorés, aux cétones, aux éthers et à certains alcools. Ils ne doivent pas être utilisés dans des systèmes pneumatiques dont les compresseurs sont lubrifiés par des fluides résistants au feu tels que les esters et diesters de phosphate.

Les bols métalliques sont recommandés lorsque le milieu et/ou le fluide sont incompatibles avec les bols en polycarbonate. Les bols métalliques sont résistants à la plupart de ces solvants mais ne doivent pas être utilisés en milieu fortement acide ou basique, ou en atmosphère salée. Si de telles conditions prévalent, adressez-vous au fabricant afin d'obtenir des recommandations spécifiques.

NETTOYER LES BOLS EN POLYCARBONATE UNIQUEMENT À L'EAU ET AU SAVON DOUX ! NE PAS utiliser d'agents nettoyants tels que l'acétone, le benzène, le tétrahlorure de carbone, l'essence, le toluène, etc., qui endommageraient ce plastique.

FR Guide de sécurité

Pour obtenir de plus amples informations sur les directives à appliquer recommandées, prière de vous reporter à la section Guide de sécurité des catalogues de la Pneumatic Division ou de télécharger le Guide de sécurité de la Pneumatic Division sur le site : [www.parker.com/safety](http://www.parker.com/safety)

FR MISE EN GARDE

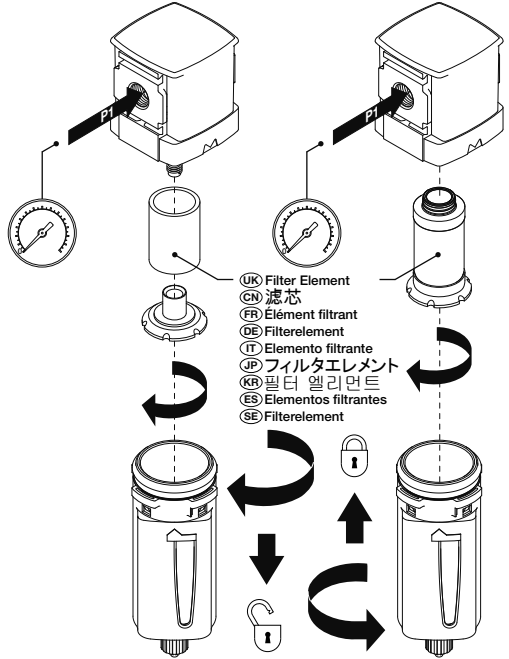
Pour éviter que le bol de polycarbonate se rompe et provoque des préjudices corporels ou des dommages matériels, ne pas dépasser les limites maximales de pression et de température, à savoir 150 PSIG (10 bar) et 125 °F (52°C).

DES EXEMPLAIRES DE CES INSTRUCTIONS SONT DISPONIBLES POUR INSERTION DANS LE MATÉRIEL OU LES MANUELS D'ENTRETIEN QUI UTILISENT CES PRODUITS. VEUILLEZ CONTACTER VOTRE REPRÉSENTANT LOCAL.



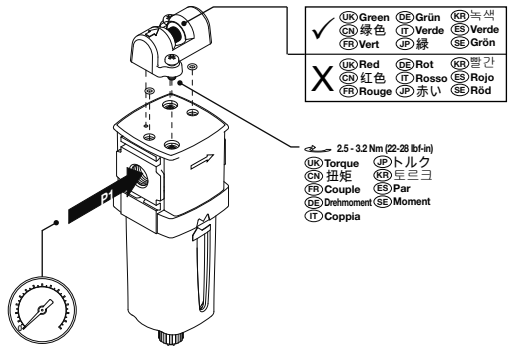


- UK Filter Element Replacement
- CN 替换滤芯
- DE Austausch des Filterelements
- FR Élément filtrant de remplacement
- IT Elemento filtrante di ricambio
- JP フィルタエレメント交換
- KR 필터 엘리먼트 교환
- ES Recambio del elemento filtrante
- SE Utbyteselement



- UK Filter Element
- CN 滤芯
- FR Élément filtrant
- DE Filterelement
- IT Elemento filtrante
- JP フィルタエレメント
- KR 필터 엘리먼트
- ES Elementos filtrantes
- SE Filterelement

- UK Filter DPI
- CN 过滤器压差显示器
- DE Filter DPI
- FR DPI filtre
- IT FPI per filtro
- JP 目詰まりインジケータ
- ES Filtro DPI
- SE Dp-indikator

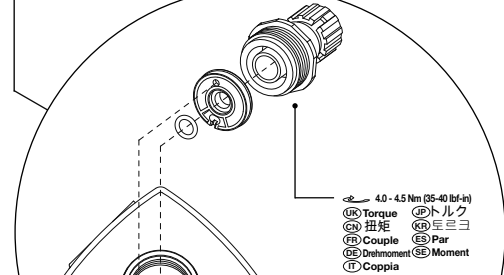
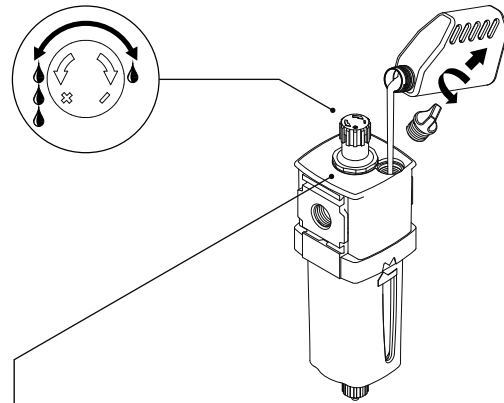


- UK Green
- CN 绿色
- DE Grün
- FR Vert
- IT Verde
- JP 緑
- KR 녹색
- ES Verde
- SE Grön
- UK Red
- CN 红色
- DE Rot
- FR Rouge
- IT Rosso
- JP 赤い
- KR紅色
- ES Rojo
- SE Röd

- UK Torque
- CN 扭矩
- DE 25-32 Nm (22-28 lbf-in)
- FR Couple
- IT Coppia
- JP トルク
- KR 토르크
- ES Par
- SE Moment

- UK DPI must be read under flow condition. Replace element when indicator is red under flow.
- CN 压差指示器必须在有流量的情况下读出
- FR L'indicateur de différence de pression (DPI) doit être relevé quand l'air circule.
- DE Der DPI-Wert ist unter Betriebsbedingungen abzulesen. Das Element austauschen, wenn die Anzeige im Betrieb rot ist.
- IT Il DPI deve essere misurato sotto portata. Sostituire l'elemento quando l'indicatore è rosso sotto portata.
- JP プラスチックボール/ ホウルガード/ マニュアルレバー
- KR (DPI(차압표시기)에 유체가 흐를 때만 표시되는 빨간 엘리먼트를 교체하여 주십시오.
- ES DPI debe ser leído con el caudal activo. Cambiar el elemento cuando el indicador está rojo.
- SE Dpiftryckindikatorn skall avläsas i drift. Filtrert skall bytas när indikatorn visar rött vid drift.
- UK DPI Repair Kit
- CN DPI-Reparaturatz
- DE DPI 리스앳트
- FR Kit de réparation d'indicateur de différence de pression
- IT Kit di riparazione DPI
- ES Juego de reparación DPI
- SE Reparationssats
- UK DPI-Repairsatz
- CN DPI-교편품
- DE DPI 리스앳트
- FR Kit de réparation d'indicateur de différence de pression
- IT Kit di riparazione DPI
- ES Juego de reparación DPI
- SE Reparationssats

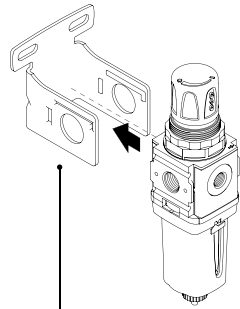
- UK Lubricator
- CN 油雾器
- DE Schmiergerät
- FR Lubrificateur
- IT Lubrificatore
- JP 潤滑油
- KR 루브리케이터
- ES Lubricador
- SE Dimsmörjare



- UK Torque
- CN 扭矩
- DE 4.0 - 4.5 Nm (35-40 lbf-in)
- FR Couple
- IT Coppia
- JP トルク
- KR 토르크
- ES Par
- SE Moment

UK Sight Dome Assembly	ES Montaje de mirilla	SE Synglas
CN 视窗安装包	UK Polycarbonate	UK Nylon
FR Dôme de visualisation	DE 聚碳酸酯	CN 尼龙
DE Einbau der Sichtkuppel	FR Polycarbonate	FR Nylon
IT Gruppo vetro spia	JP ポリカーボネイト	DE Nylon
JP サイトドームアセンブリ	UK Polycarbonate	FR Nylon
KR 관측자 교환부품	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon
	UK Polycarbonate	FR Nylon
	DE Polycarbonate	JP Nylon
	FR Polycarbonate	UK Nylon
	JP Polycarbonate	DE Nylon

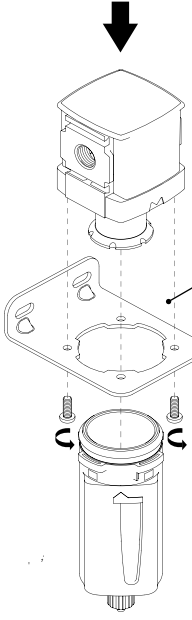
- UK** Individual Product Brackets **JP** 単体用ブラケット  
**CN** 单个产品支架 **KR** 유니트 개별 취부 브라켓  
**FR** Éléments de fixation pour produits isolés **ES** Sujeciones producto individual  
**IT** Staffe separate **SE** Separata klammer  
**DE** Spezielle Produkthalterungen



- P31 Mini**  
**UK** Mounting Bracket  
**CN** 安装支架  
**FR** Console  
**DE** Einbauhalterung  
**IT** Staffa di montaggio  
**JP** Cブラケット  
**KR** C형 취부 브라켓  
**ES** Sujeción de montaje  
**SE** Monteringskonsol  
**P31KA00MW**

- UK** L-Bracket  
**CN** 角架  
**FR** Equerre  
**DE** Winkelhalterung  
**IT** Staffa angolare  
**JP** Lブラケット  
**KR** L형 취부 브라켓  
**ES** Sujeción angularada  
**SE** Vinkelklamma  

P32 Compact	P32KA00ML
P33 Standard	P33KA00ML



- UK** L-Bracket  
**CN** 角架  
**FR** Equerre  
**DE** Winkelhalterung  
**IT** Staffa angolare  
**JP** Lブラケット  
**KR** L형 취부 브라켓  
**ES** Sujeción angularada  
**SE** Vinkelklamma  

P32 Compact	P32KA00ML	3.5 Nm (31 lbf-in)
P33 Standard	P33KA00ML	3.7 Nm (33 lbf-in)

### P31 Mini

**UK** Body Connector  
**CN** 主体接头  
**FR** Élément de liaison  
**DE** Gehäusestecker  
**IT** Connettore del corpo

**JP** 포트블록  
**KR** 바디 컨넥터  
**ES** Conector de cuerpo  
**SE** Husanslutning

**P31KA00CB**

**UK** Port Connector  
**CN** 接口接头  
**FR** Raccord  
**DE** Anschluss-Stutzen  
**IT** Connettore per porta  
**JP** 포트블록  
**KR** 포트블럭  
**ES** Conectores de bocas  
**SE** Anslutningsport

0.9 - 1.4 Nm (8-12 lbf-in)

**UK** Torque **JP**トルク  
**CN** 扭矩 **KR** 트orque  
**FR** Couple **ES** Par  
**DE** Drehmoment **SE** Moment  
**IT** Coppia

**UK** Body Connector + Wall Mounting Bracket  
**CN** 主体接头 + 墙壁安装支架  
**FR** Élément de liaison + Equerre de fixation murale  
**DE** Gehäusestecker und Wandhalterung  
**IT** Connettore del corpo + staffa di montaggio a muro  
**JP** ボディコネクタ+Tブラケット  
**KR** 바디 컨넥터 + 취부 브라켓  
**ES** Conector de cuerpo + Sujeción de muro  
**SE** Husanslutning + väggfäste

**P31KA00MT**

### P32 Compact + P33 Standard

**UK** Port Connector  
**CN** 接口接头  
**FR** Raccord  
**DE** Anschluss-Stutzen  
**IT** Connettore per porta  
**JP** 포트블록  
**KR** 포트블럭  
**ES** Conectores de bocas  
**SE** Anslutningsport

**UK** Body Connector + Wall Mounting Bracket  
**CN** 主体接头 + 墙壁安装支架  
**FR** Élément de liaison + Equerre de fixation murale  
**DE** Gehäusestecker und Wandhalterung  
**IT** Connettore del corpo + staffa di montaggio a muro  
**JP** ボディコネクタ+Tブラケット  
**KR** 바디 컨넥터 + 취부 브라켓  
**ES** Conector de cuerpo + Sujeción de muro  
**SE** Husanslutning + väggfäste

P32 Compact	P32KA00MT
P33 Standard	P32KA00MT

2.2 - 2.4 Nm (19-21 lbf-in)

**UK** Torque **JP**トルク  
**CN** 扭矩 **KR** 트orque  
**FR** Couple **ES** Par  
**DE** Drehmoment **SE** Moment  
**IT** Coppia

**UK** Manifold Block  
**CN** 分气块  
**FR** Bloc d'îlots  
**DE** Sammelsystemeiste  
**IT** Blocco manifold  
**JP** マニホールドブロック  
**KR** 매니폴드 블록  
**ES** Bloque de manifold  
**SE** Anslutningsblock

**UK** Body Connector  
**CN** 主体接头  
**FR** Élément de liaison  
**DE** Gehäusestecker  
**IT** Connettore del corpo  
**JP** 포트블록  
**KR** 바디 컨넥터  
**ES** Conector de cuerpo  
**SE** Husanslutning

P32 Compact	P32KA00CB
P33 Standard	P32KA00CB

- UK** Regulator + Filter/Regulator Angle Bracket  
**CN** 单个产品支架  
**FR** Equerre pour Régulateur + Filtre/Régulateur  
**DE** Winkelhalterung für Regler + Filter/Regler  
**IT** Staffa angolare per regolatore + filtro/regolatore  
**JP** 単体用ブラケット  
**KR** 유니트 개별 취부 브라켓  
**ES** Sujeción angularada Regulator + Filtro/Regulator  
**SE** Regulator + vinkelramma för filter/regulator

- UK** Panel Mounting Ring  
**CN** 面板安装螺母  
**FR** Écrou pour montage sur panneau  
**DE** Schalttafel-Schraubring  
**IT** Anello di montaggio su pannello  
**JP** パネルマウントリング  
**KR** 판넬 마운팅 너트  
**ES** Aro de montaje en panel  
**SE** Ring för panelmontering

	<b>UK</b> Plastic Nut <b>CN</b> 塑料螺母 <b>FR</b> Écrou en plastique <b>DE</b> Kunststoffmutter <b>IT</b> Dado in plastica <b>JP</b> プラスチックナット <b>KR</b> 플라스틱 너트 <b>ES</b> Tuerca plástica <b>SE</b> Plastmutter	<b>UK</b> Metal Nut <b>CN</b> 金属螺母 <b>FR</b> Écrou métallique <b>DE</b> Metallmutter <b>IT</b> Dado in metallo <b>JP</b> アルミニウムナット <b>KR</b> 네탈 너트 <b>ES</b> Tuerca metálica <b>SE</b> Metallmutter
P31 Mini	P31KA00MP	P31KA00MM
P32 Compact	P32KA00MP	P32KA00MM
P33 Standard	P33KA00MP	P33KA00MM

**UK** L-Bracket  
**CN** 角架  
**FR** Equerre  
**DE** Winkelhalterung  
**IT** Staffa angolare  
**JP** Lブラケット  
**KR** L형 취부 브라켓  
**ES** Sujeción angularada  
**SE** Vinkelklamma

**UK** Angle Bracket  
**CN** 角架  
**FR** Equerre  
**DE** Winkelhalterung  
**IT** Staffa angolare  
**JP** アングルブラケット  
**KR** L형 취부 브라켓  
**ES** Sujeción angularada  
**SE** Vinkelklamma

P31 Mini	P31KA00MR
P32 Compact	P32KA00MR
P33 Standard	P33KA00MR



**⚠ WARNING**

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

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

**⚠ WARNING**

**Product rupture can cause serious injury.**  
**Do not connect regulator to bottled gas.**  
**Do not exceed maximum primary pressure rating.**

**Safety Guide**

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: [www.parker.com/safety](http://www.parker.com/safety)

## Introduction

Follow these instructions when installing, operating, or servicing the product.

## Application Limits

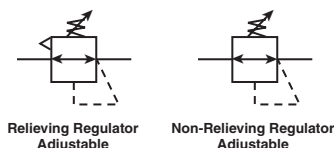
These products are intended for use in general purpose compressed media systems only.

### Operating Pressure:

	kPa	PSIG	bar
<b>Maximum Inlet Pressure</b>	2068	300	21.0

**Ambient Temperature Range:** 40°F to 125°F (4°C to 52°C)

## Symbols



## Installation

1. The regulator should be installed with reasonable accessibility for service whenever possible - repair service kits are available. Keep

pipe and tubing lengths to a minimum with inside clean and free of dirt and chips. Pipe joint compound should be used sparingly and applied only to the male pipe - never into the female port. Do not use PTFE tape to seal pipe joints - pieces have a tendency to break off and lodge inside unit, possibly causing malfunction.

2. Install regulator so that media flow is in the direction of arrow. Installation must be upstream (high pressure) side and as close to the devices it is to service (valve, cylinder, tool, etc.). Mounting may be in any position.
3. Gauge ports are located on both sides of the regulator body for your convenience. It is necessary to install a gauge or pipe plugs into each port during installation.
4. For protection against rust, pipe scale, and other foreign matter, install a filter on the upstream (high pressure) side as close to the regulator as possible.

## Operation

1. Before turning on the media source turn the T-handle counterclockwise until compression is released from the Control Spring. Then turn on media source and adjust regulator to desired secondary pressure by turning T-handle clockwise. This permits pressure to build up slowly, preventing any unexpected operation of the valve, cylinders, tools, etc., attached to the line. Adjustment to desired secondary pressure can be made only with primary pressure applied to the regulator.
2. To decrease regulator pressure setting, always reset from a pressure lower than the final setting desired. For example, lowering the secondary pressure from 550 to 410 kPa (80 to 60 PSIG) is best accomplished by dropping the secondary pressure to 350 kPa (50 PSIG), then adjusting upward to 410 kPa (60 PSIG). Tighten the Locking Nut on the T-handle to lock the pressure setting.

### Reduced Pressure Spring Ranges

- "A" Range = 1 – 25 PSI (1/4", 3/8", 1/2" Only)
- "B" Range = 2 – 60 PSI (1/4", 3/8", 1/2" Only)
- "C" Range = 2 – 125 PSI (ALL)
- "D" Range = 5 – 250 PSI (ALL)

## Service

- ⚠ Caution: Disconnect or shut off air supply and exhaust the primary and secondary pressures before servicing unit. Turning the T-handle counterclockwise does not vent downstream pressure on non-relieving regulators. Downstream pressure must be vented before servicing regulator.**

**⚠ WARNING**

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

**EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.**

**⚠ Caution:** Grease packets are supplied with kits for lubrication of seals. Use only mineral based grease or oils. Do not use synthetic oils such as esters. Do not use silicones.

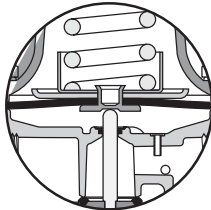
**Note:** After servicing unit, turn on air supply and adjust regulator to the desired downstream pressure. Check unit for leaks. If leakage occurs, do not operate - conduct repairs and retest.

**A. Servicing the Bonnet and Diaphragm Assembly**

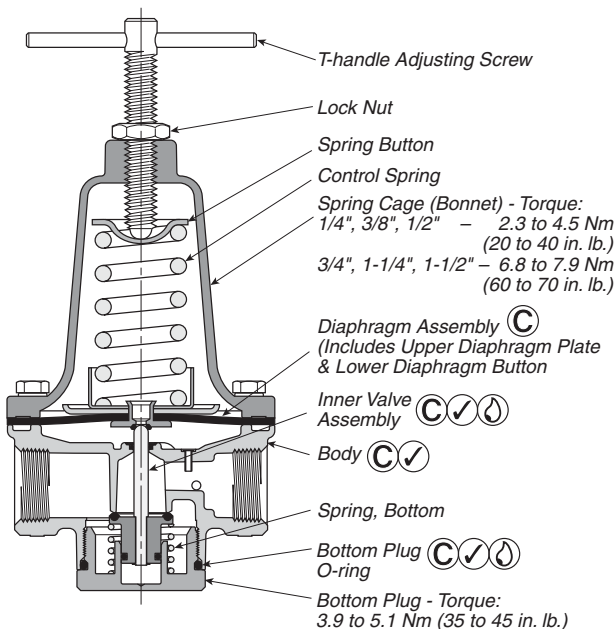
1. Turn the T-handle counterclockwise until the compression is released from the Pressure Control Spring.
2. Remove Bonnet Mounting Screws, Bonnet Assembly, Pressure Control Spring and Spring Button. Remove Diaphragm Assembly. Next, disassemble, clean, and carefully inspect parts for wear and / or damage. Wipe parts, clean with soapy water or denatured alcohol. If using compressed air to blow dry, be sure to wear appropriate eye protection. If replacement is necessary, use parts from service kits.
3. Install Diaphragm Assembly, Pressure Control Spring, Spring Button as shown below. Then, install Bonnet Assembly to Body with Mounting Screws and tighten in an alternating or star pattern to the following torque specifications:  
 1/4", 3/8", 1/2"      2.3 to 4.5 Nm (20 to 40 in. lb.)  
 3/4", 1-1/4", 1-1/2"    6.8 to 7.9 Nm (60 to 70 in. lb.)

**B. Servicing the Poppet Assembly**

1. Exhaust system media pressure as previously described. Then remove Bottom Plug by unscrewing it from Body. Next, remove Bottom Plug, O-ring, Bottom Spring and Inner Valve Assembly.
2. Next, disassemble, clean, and carefully inspect parts for wear and / or damage. If replacement is necessary, use parts from service kits.
3. Lubricate O-ring and sliding surfaces using grease supplied with service kit.
4. Install parts as shown.



**R119 Regulator – Non-Relieving**



**R119 Regulator – Relieving**

- Ⓐ Lightly grease with provided lubricant.
- ✓ Inspect for nicks, scratches, and surface imperfections. If present, reduced service life is probable and future replacement should be planned.
- Ⓒ Clean with lint-free cloth.

5. Lubricate Bottom Plug O-ring and install it in o-ring groove on Bottom Plug. Be sure Inner Valve Stem fits into center area of Diaphragm Assembly before installing Bottom Plug. Then screw Bottom Plug into Body until it bottoms out in body. Tighten to 3.5 to 5.1 Nm (35 to 45 in. lb.).
6. Turn on media source and adjust to desired secondary pressure as described in the Operation section. Check regulator for leakage. If leakage occurs, DO NOT OPERATE — conduct repairs again.

If you have questions concerning how to service this unit, contact your local authorized dealer or your customer service representative.

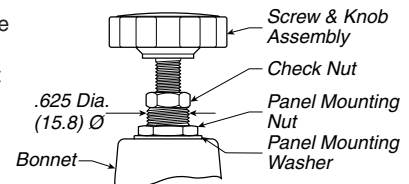
**Service Kits Available**

Description	Kit Number	Regulator Size
Bottom Plug Only	118Y2	1/4", 3/8"
	118A2	1/2"
	119B2-2	3/4" thru 1-1/2"
Bottom Plug O-ring Only	118Y102	1/4", 3/8"
	118A101	1/2"
	118B101	3/4" thru 1-1/2"
Mounting Bracket Kit	SA15Y57	1/4", 3/8"
	18A57	1/2"
	18B57	3/4" thru 1-1/2"
Panel Mount Conversion Kit	4202	1/4", 3/8"
	4204	1/2"
Knob & Hardware Only	PK16Y	1/4", 3/8", 1/2"
Regulator Repair Kit* (Relieving)	RK119Y	1/4", 3/8"
	RK119A	1/2"
	RK119A250	1/2" ("D" Range)
	RK119B	3/4", 1"
	RK119D	1-1/4", 1-1/2"
Regulator Repair Kit* (Non-Relieving)	RK118Y	1/4", 3/8"
	RK118A	1/2"
	RK118A250	1/2" ("D" Range)
	RK118B	3/4", 1"
	RK118D	1-1/4", 1-1/2"
Spring Cage Kit	RKC119Y	1/4", 3/8"
T-handle Kits	TK119A	1/2"
	TK119B	3/4" thru 1-1/2"
Check Valve Assembly for Reverse Flow Option	SAN263Y116-2	1/4", 3/8", 1/2", 3/4" thru 1-1/2"

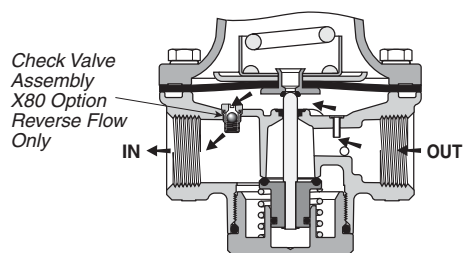
**Accessories**

Gauges	0 to 60 PSI (0 to 4 bar)	K4520N14060
	0 to 160 PSI (0 to 11 bar)	K4520N14160
	0 to 300 PSI (0 to 20 bar)	K4520N14300

Kits 4202 & 4204 include Bonnet. For Knob & Hardware only, order Kit Number PK16Y



**R119 Regulator with Panel Mount Conversion Kit**



**R119 Regulator with X80 Option Reverse Flow Feature**



**⚠ WARNING**

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

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

**⚠ CAUTION**

Polycarbonate bowls, being transparent and tough, are ideal for use with Filters and Lubricators. They are suitable for use in normal industrial environments, but should not be located in areas where they could be subjected to direct sunlight, an impact blow, nor temperatures outside of the rated range. As with most plastics, some chemicals can cause damage. Polycarbonate bowls should not be exposed to chlorinated hydrocarbons, ketones, esters and certain alcohols. They should not be used in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester and di-ester types.

Metal bowls are recommended where ambient and/or media conditions are not compatible with polyurethane bowls. Metal bowls resist the action of most such solvents, but should not be used where strong acids or bases are present or in salt laden atmospheres. Consult the factory for specific recommendations where these conditions exist.

**TO CLEAN POLYCARBONATE BOWLS USE MILD SOAP AND WATER ONLY! DO NOT** use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

**Safety Guide**

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: [www.wattsfluidair.com](http://www.wattsfluidair.com)

**Introduction**

Follow these instructions when installing, operating, or servicing the product.

**Application Limits**

These products are intended for use in general purpose compressed air systems only.

**Maximum Recommended Pressure Drop:**

	kPa	PSIG	bar
Particulate Filter	70	10	0.7

**With Polycarbonate Bowl**

	kPa	PSIG	bar
Operating Pressure Maximum	1034	150	10
Operating Temperature Range	4°C to 49°C (40°F to 120°F)		

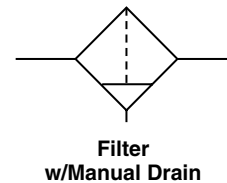
**With Aluminum Bowl**

	kPa	PSIG	bar
Operating Pressure Maximum	2068	300	21
Operating Temperature Range	4°C to 82°C (40°F to 180°F)		

**With Zinc Bowl with Sight Gauge**

	kPa	PSIG	bar
Operating Pressure Maximum	1723	250	17.0
Operating Temperature Range	4°C to 66°C (40°F to 150°F)		

**ANSI Symbols**



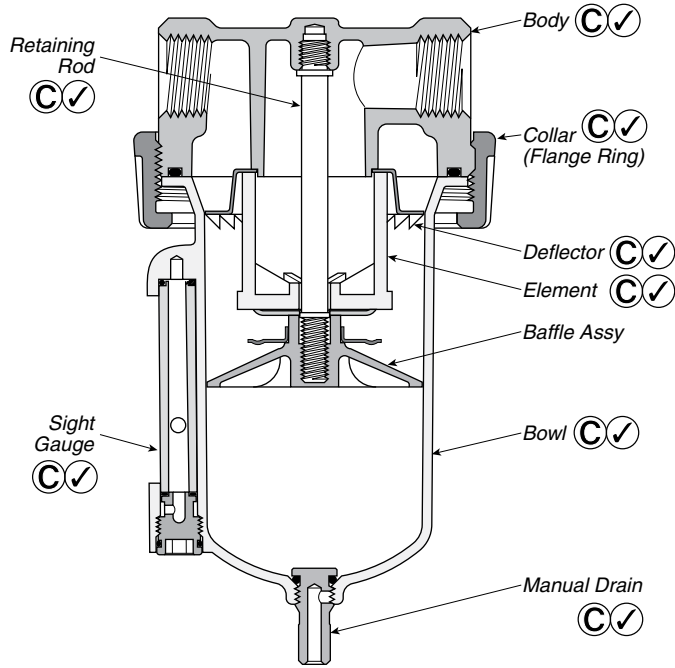
**⚠ WARNING**

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

**EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.**



- Ⓒ Lightly grease with provided lubricant.
- ✓ Inspect for nicks, scratches, and surface imperfections. If present, reduced service life is probable and future replacement should be planned.
- Ⓒ Clean with lint-free cloth.

**Installation**


1. The filter should be installed with reasonable accessibility for service whenever possible – repair service kits are available. Keep pipe or tubing lengths to a minimum with inside clean and free of dirt and chips. Pipe joint compound should be used sparingly and applied only to the male pipe – never into the female port. Do not use PTFE tape to seal pipe joints – pieces have a tendency to break off and lodge inside the unit, possibly causing malfunction. Also, new pipe or hose should be installed between the filter and equipment being protected.
2. The upstream pipe work must be clear of accumulated dirt and liquids.
3. Select a filter location as close as possible to the equipment being protected and upstream of any pressure regulator.
4. Install filter so that air flows in the direction of arrow on body.
5. Install filter vertically with bowl drain mechanism at the bottom. Free moisture will thus drain into the sump “quiet zone” at the bottom of the bowl.

**Operation and Service**

1. To service the filter, it is not necessary to remove the unit from the airline. Manual drain filters must be drained regularly before the separated moisture and oil reaches the bottom of the lower baffle.
2. The particulate Filter Element should be removed and replaced when pressure differential across the filter is 10 PSIG.
3. Shut off air supply and depressurize the unit, before servicing.
4. Carefully remove Bowl by turning counterclockwise.
5. Remove Filter Element, Baffle, and Retainer.
6. Wipe parts, clean with soapy water or denatured alcohol, **but do not use denatured alcohol on plastic bowl or sight gauge**. If using compressed air to blow dry, be sure to wear appropriate eye protection.
7. After servicing, apply system pressure and check for air leaks. If leakage occurs, **Do Not Operate** — conduct servicing again.


**Kits Available**

Description	Product Number	Bowl Type	Port Size
<b>Bowls</b>			
Polycarbonate	BK602Y	B	1/4", 3/8"
Zinc with Sight Gauge	BK605WY	W	1/4", 3/8"
Polycarbonate	BK602A	B	1/2"
Aluminum	BK603A	E	1/2"
Zinc with Sight Gauge	BK605WA	W	1/2"
Aluminum	BK603B	E	3/4" thru 2-1/2"
Zinc with Sight Gauge	BK605WB	W	3/4" thru 2-1/2"
<b>Element Kits</b>			
5 Micron	EK602VY	—	1/4", 3/8"
40 Micron	EK602Y	—	1/4", 3/8"
5 Micron	EK602VA	—	1/2"
40 Micron	EK602A	—	1/2"
5 Micron	EK602VB	—	3/4" thru 1-1/2"
40 Micron	EK602B	—	3/4" thru 1-1/2"
5 Micron Bronze	EK602VB-BR	—	3/4" thru 1-1/2"
40 Micron Bronze	EK602B-BR	—	3/4" thru 1-1/2"
40 Micron	EK602G	—	2", 2-1/2"
<b>Drain Kits</b>			
Manual	SA600Y7-1	All	All Sizes
Piston (Poly Bowl Only)	RK602SY	B	1/4", 3/8"
Piston (Poly Bowl Only)	RK602SA	B	1/2"
External Auto. ( 8 oz. Poly & Metal)	SA602D	B	1/2"
External Auto. (16 oz. Aluminum)	SA603D	E	1/2"
Internal Auto.	SA602MD	All	1/2"
External Auto. ( 16 oz. Metal Bowl)	SA602D	W	3/4" thru 2-1/2"
External Auto. (32 oz. Aluminum)	SA603D	E	3/4" thru 2-1/2"
Internal Auto.	SA602MD	All	3/4" thru 2-1/2"
<b>Mounting Bracket Kits</b>			
	SAF602-0571	—	1/4", 3/8"
	SAF602-0572	—	1/2"
(2 per unit required)	SA200AW57	—	3/4"
(2 per unit required)	SA200CW57	—	1"
<b>Repair Kits</b>			
Deflector, Baffle Assy, Retaining Rod	RK602Y	—	1/4", 3/8"
Deflector, Baffle Assy, Retaining Rod	RK602A	—	1/2"
Deflector, Baffle Assy, Retaining Rod	RK602B	—	3/4", 1"
Deflector, Baffle Assy, Retaining Rod	RK602C	—	1-1/4", 1-1/2"
Deflector, Baffle Assy, Retaining Rod	RK602G	—	2", 2-1/2"
External Auto Drain (Short Float 602)	RK602D	—	1/2" thru 2-1/2"
External Auto Drain (Tall Float 603)	RK603D	—	1/2" thru 2-1/2"
Internal Auto Drain	RK602MD	—	1/4" thru 2-1/2"
Metal Bowl with Sight Gauge	RKB605WY	—	1/4", 3/8"
Metal Bowl with Sight Gauge	RKB605WA	—	1/2"

 **WARNING**

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

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

 **CAUTION**

Polyurethane bowls, being transparent and tough, are ideal for use with Filters and Lubricators. They are suitable for use in normal industrial environments, but should not be located in areas where they could be subjected to direct sunlight, an impact blow, nor temperatures outside of the rated range. As with most plastics, some chemicals can cause damage. Polyurethane bowls should not be exposed to chlorinated hydrocarbons, ketones, esters and certain alcohols. They should not be used in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester and di-ester types.

Metal bowls are recommended where ambient and/or media conditions are not compatible with polyurethane bowls. Metal bowls resist the action of most such solvents, but should not be used where strong acids or bases are present or in salt laden atmospheres. Consult the factory for specific recommendations where these conditions exist.

**TO CLEAN POLYURETHANE BOWLS USE MILD SOAP AND WATER ONLY! DO NOT** use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

Bowl guards are recommended for added protection of polyurethane bowls where chemical attack may occur.

**Safety Guide**

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: [www.wattsfluidair.com](http://www.wattsfluidair.com)

**Introduction**

Follow these instructions when installing, operating, or servicing the product.

**Application Limits**

These products are intended for use in general purpose compressed air systems only.

**With Polycarbonate Bowl**

	kPa	PSIG	bar
Operating Pressure Maximum	1034	150	10
Operating Temperature Range	40°F to 125°F (4°C to 52°C)		

**With Zinc Bowl with Sight Gauge**

	kPa	PSIG	bar
Operating Pressure Maximum	1723	250	17.0
Operating Temperature Range	40°F to 150°F (4°C to 66°C)		

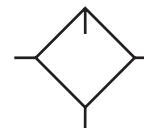
**With Aluminum Bowl**


	kPa	PSIG	bar
Operating Pressure Maximum	2068	300	21
Operating Temperature Range	40°F to 180°F (4°C to 82°C)		

**With Aluminum Bowl with Sight Gauge**

	kPa	PSIG	bar
Operating Pressure Maximum	1034	150	10
Operating Temperature Range	40°F to 125°F (4°C to 52°C)		

**ANSI Symbols**



 **WARNING**

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

**EXTRA COPIES OF THESE INSTRUCTIONS ARE AVAILABLE FOR INCLUSION IN EQUIPMENT / MAINTENANCE MANUALS THAT UTILIZE THESE PRODUCTS. CONTACT YOUR LOCAL REPRESENTATIVE.**

## L606 Lubricator Installation

1. The lubricator should be installed with reasonable accessibility for service whenever possible – repair service kits are available. Keep pipe or tubing lengths to a minimum with inside clean and free of dirt and chips. Pipe joint compound should be used sparingly and applied only to the male pipe – never into the female port. Do not use PTFE tape to seal pipe joints – pieces have a tendency to break off and lodge inside the unit, possibly causing malfunction. Also, new pipe or hose should be installed between the lubricator and equipment being lubricated.
2. The upstream pipe work must be clear of accumulated dirt and liquids.
3. Select a lubricator location as close as possible to the equipment being lubricated and downstream of any pressure regulator.
4. Install lubricator so that air flows in the direction of arrow on body.
5. Install lubricator vertically with bowl drain mechanism (if supplied) at the bottom.

## Operation and Service

1. Filling — Lubricators can be filled while under pressure and without shutting down equipment. Slowly remove either fill plug and fill to 1/4" to top of bowl using correct oil. For proper automatic fill operation, the oil inlet pressure to lubricator must be maintained between 10 and 200 PSI above air pressure to lubricator.

Suggested Lubricant: F442

Petroleum based oil of 100 to 200 SSU viscosity at 100°F and an aniline point greater than 200°F. (Mobil DTE24 and Sun Company Sunvis 932 are good examples). Do not use oils with adhesives, compound oils containing solvents, graphite, detergents or synthetic oils.

2. Replace the Fill Plug (by turning clockwise) and seat firmly. Excessive torque is not required. Turn on air supply, if leakage occurs, **DO NOT OPERATE** — conduct repairs again. The lubricator is now ready for setting.
3. Oil Delivery Adjustment — To adjust oil delivery, turn Adjustment Knob on top of the lubricator.

Leaner — Clockwise

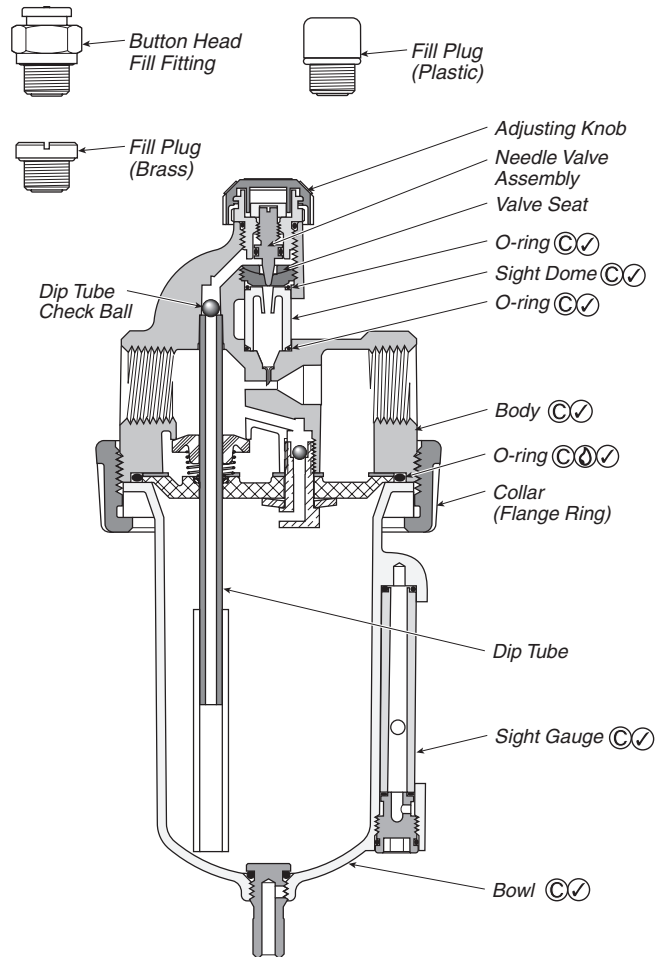
Richer — Counterclockwise

By counting the number of drops per minute in the Sight Dome, you can adjust to your requirements. Generally, one drop per minute downstream for every 10 - 15 SCFM flow is satisfactory. 25 drops per minute equals one (1) ounce per hour - volume of oil passing through the Sight Dome.

**NOTE:** This is a constant density type lubricator which delivers a constant ratio of oil air flow. Therefore, if air flow increases or decreases, oil delivery will be adjusted proportionately. **ONLY IF A DIFFERENT RATIO IS DESIRED SHOULD YOUR ADJUSTMENT KNOB SETTING BE CHANGED AFTER YOUR INITIAL SETTING.**

4. Cleaning — Erratic lubricator operation or loss of lubrication is almost always due to dirt (rust, pipe tape, etc.) in the needle valve or venturi area. To clean, shut off and vent all air line pressure to the unit being cleaned. In most cases cleaning is needed only in the oil metering area. Pull off Adjusting Knob and remove Needle Valve Assembly by turning out large hex nut. Remove Needle Valve Seat and clean removed parts with alcohol making sure hole in seat is clear. With a #57 drill, make sure hole in bottom of sight gauge area is open. Remove Bowl. Clean parts with soapy water or denatured alcohol **but do not use denatured alcohol on plastic bowl, sight dome or sight gauge.** If using compressed air to blow dry, be sure to wear appropriate eye protection.
5. After servicing, apply system pressure and check for air leaks. If leakage occurs, **Do Not Operate** — conduct servicing again.

IS-L606



- Ⓒ Lightly grease with provided lubricant.
- Ⓢ Inspect for nicks, scratches, and surface imperfections. If present, reduced service life is probable and future replacement should be planned.
- Ⓒ Clean with lint-free cloth.

## Kits Available

Description	Product Number	Bowl Type	Port Size
Bowl			
Polycarbonate	BK606Y	B	1/4", 3/8"
Zinc with Sight Gauge	BK605WY	W	1/4", 3/8"
Polycarbonate	BK606A	B	1/2"
Aluminum	BK603A	E	1/2"
Zinc with Sight Gauge	BK605WA	W	1/2"
Aluminum with Sight Gauge	BK606X30A	G	1/2"
Aluminum	BK603B	E	3/4" thru 1-1/2"
Zinc with Sight Gauge	BK605WB	W	3/4" thru 1-1/2"
Aluminum with Sight Gauge	BK606X30B	G	3/4" thru 1-1/2"
Repair Kit			
Dip Tube Replacement Kit	DTK606	All	All Sizes
Needle Valve Assembly	RK606Y	All	All Sizes
Sight Dome Repair Kit	RK606SY	All	All Sizes
Sight Gauge Bowl Repair Kit	RBK605WY	W	1/4", 3/8"
Sight Gauge Bowl Repair Kit	RKB605WA	W	1/2"
Sight Gauge Bowl Repair Kit	RKB606X30A	G	1/2"
Sight Gauge Bowl Repair Kit	RKB606WB	W	3/4" thru 1-1/2"
Sight Gauge Bowl Repair Kit	RKB606X30B	G	3/4" thru 1-1/2"
Button Head Fill Fitting (3/4 Hex.)	SAA606C109-1	—	—
Button Head Fill Fitting (11/16 Hex.)	L606C14	—	—
Fill Plug (Brass)	SA606B4	—	—
Fill Plug (Plastic)	SAP04113	—	—

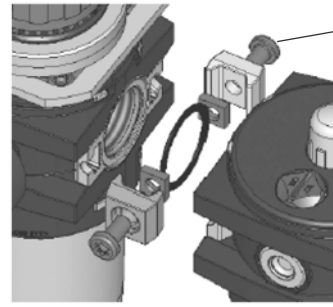


## Fixation - Mounting - Befestigung - Fijacion - Fissaggio



- UK** Disconnect air & electrical supplies before attempting repair or maintenance See ISO4414 for safety requirements covering the installation and use of pneumatic equipment.
- FR** Débrancher les connexions pneumatiques et électriques avant réparation ou maintenance. Voir ISO4414 pour les règles de sécurité des installations et utilisation des équipements pneumatiques.
- DE** Bei Reparatur - oder Wartungsarbeiten sind alle pneumatischen und elektrischen Versorgungsleitungen zuvor vom Zylinder zu trennen. Siehe ISO4414 bzw. DIN 24 558 bezüglich Sicherheits-Anforderungen für den Bereich Installation und Gebrauch von Pneumatik-Komponenten.
- SE** Koppla ifrån luft och elektriska anslutningar innan reparation- eller underhållsarbeten påbörjas. Se ISO4414 för säkerhetsbestämmelser täckande installation och användande av pneumatisk utrustning.
- ES** Desconectar las conexiones neumáticas y eléctricas antes de efectuar cualquier reparación o mantenimiento. Ver ISO4414 para reglas de seguridad de las instalaciones y utilización de equipos neumáticos.
- IT** Prima di eseguire interventi di manutenzione verificare che sia l'alimentazione elettrica che pneumatica siano disattivate. Attenersi alla normativa ISO4414 che regola l'installazione e l'uso di componenti pneumatici.

Coupling Kit  
Kupplungssatz



P3YKA00CB

## Association - Combination - Verbindung - Asociacion - Assemblaggio

### WARNING

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

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

### WARNING

Product rupture can cause serious injury.  
Do not connect regulator to bottled gas.  
Do not exceed maximum primary pressure rating.

### WARNING

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

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

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.



## Réglage - Adjustment - Steuerung - Regulacion - Regolazione

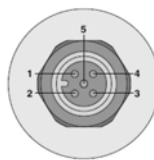
### Service kits

Diaphragm kit - relieving type = **P3YKA00RR**

Diaphragm kit - non-relieving type = **P3YKA00RN**



Connector M12 x 1



**Pin 1:**  
Power supply  
Plus +24 V DC ± 10%  
0.15 A  
Residual ripple 10%

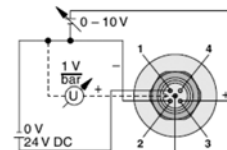
**Pin 2:**  
Power supply 0 V  
Reference and mass capacity  
for set value and actual value

**Pin 3:**  
Set value output  
0-10 V

**Pin 4:**  
0 V target signal  
(connected on board  
with pin 2 as standard)

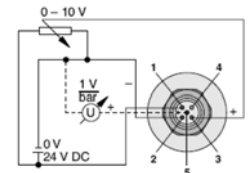
**Pin 5:**  
Analog actual value output  
0-10 V  
Tolerance ± 0.15 V

Analog voltage

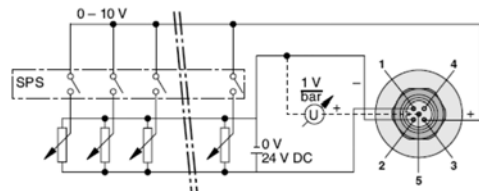


PLC in connection with several potentiometers

With a single potentiometer

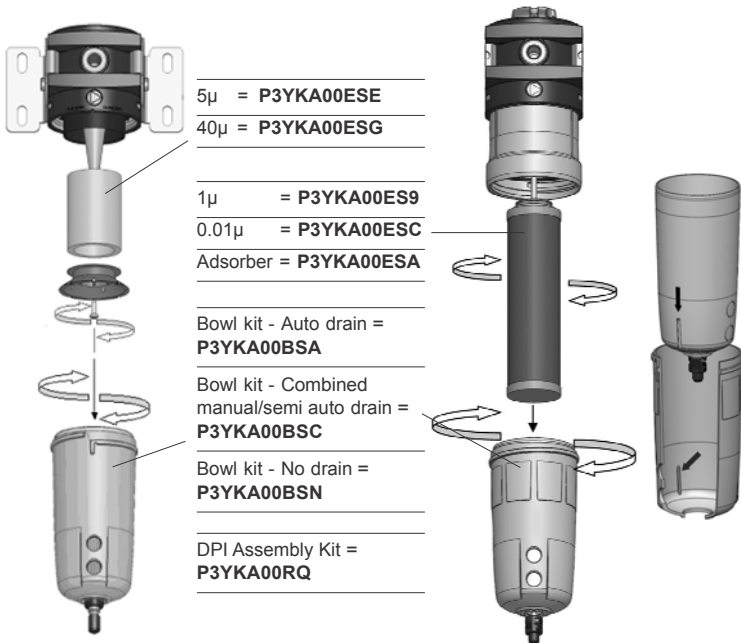


The resistance of the potentiometer should range between 500 Ω and 100 Ω

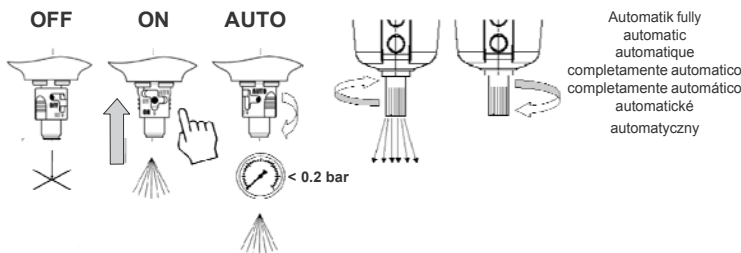


The total resistance of the potentiometer series should not be less than 500 Ω

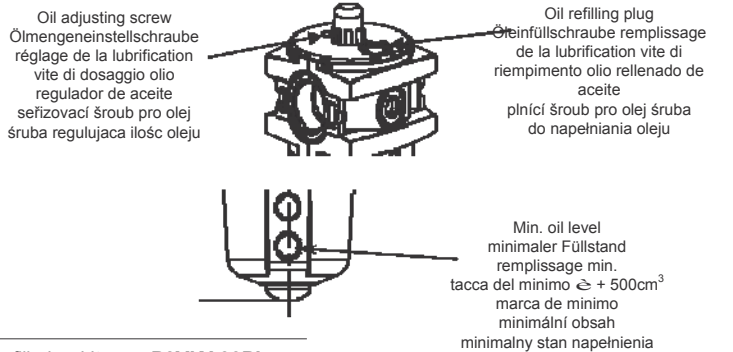
# Filter Maintenance - Maintenance du filtre - Wartung - Mantenimiento - Manutenzione



# Condensate drainage / Purge / Kondensatentleerung / Svuotamento condensati / Vaciado del condensado / odpouštění kondenzátu / spust kondensatu



# Lubricator Adjustment - Réglage du lubrificateur - Steuerung Regulacion - Regolazione



Refill plug kit = P3YKA00PL  
Oil VG32 1L = P3YKA00PPBB

# Recommended Lubricants / Lubrifiants recommandés / Empfohlene Ölarten / Lubrificantii consigliati / Lubrificantes recomendados / Rekommenderade oljor för dimsmörjare

## Lubrication of airlines

Oil Company	ISO Grade	Grade	ISO Grade	Grade
Gulf	Harmony 38AW	15	Harmony 43AW	32
Shell (UK) Oil	Tellus 22	22	Tellus 37	37
Burmah Castrol	Hyspin AWS15	15	Hyspin AWS32	32
Edgar Vaughan	KSO 5L	10	Hydrodrive HP100	32
Esso Petroleum	NUTO 1115	15	NUTO H32	32
B.P.	HLP 22	22	HLP 32	32
Mobile Oil Company	Velocite No.6	10	DTE Oil - Light	32
Shell	Cassida Fluid HF*	32		
Klüberoil	4UH1*	32		

\* For food industry applications : approved oil USDA-H1

Do not use oils with additives, compounds oils containing solvents, graphite, detergents. The use of synthetic oils and antifreeze with a Glycol concentration of 100% can be used.

# Combined Soft Start & Dump Valve / Soft Start Valve / Vannes de mise en pression progressive et de purge / Sanftanlauf + Abschalt-Ventile / Mjukstartventiler / Válvulas de arranque progresivo / Valvole Avviamento Progressivo

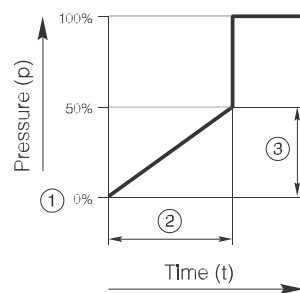
The allen key adjusts flow through the valve until the set point is reached, after which full pressure is achieved.

Le débit est réglable par la clé Allen, jusqu'à la valeur consigne qui déclenche le plein passage

Mjukstartsflödet kan justeras med insexnyckel. Vid uppnått omställningstryck öppnar sedan ventilen för fullt flöde.

Utilizar la Llave Allen para regular el caudal de la válvula hasta lograr la presión tarada - de esta forma se proporciona el flujo máximo de aire.

La chiave Allen regola il flusso attraverso la valvola fino al raggiungimento del valore impostato, quindi viene inserita la pressione totale.

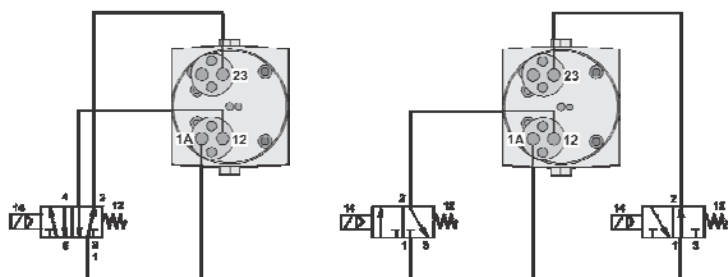


Soft start is 50% pressure dependant on P1

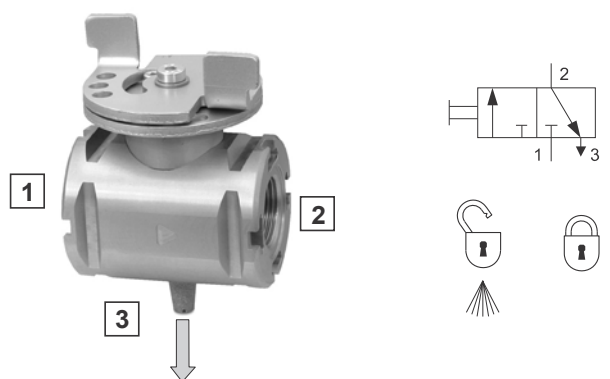
- Start signal  
Démarrage  
Start-Signal  
Startsignal  
Señal de arranque  
Segnale di start
- Switching time delay  
Signal temporisé  
Schaltzeit-Verzögerung  
Omställningstid  
Tiempo de arranque  
Ritardo commutazione
- Gradual pressure build up  
Mise en pression progressive  
Allmählicher Druckaufbau  
Uppbyggnadstryck  
Aumento gradual de la presión  
Incremento graduale della pressione
- Operating pressure  $p^2 (=p^1)$   
Pression de fonctionnement  $p^2 (=p^1)$   
Betriebsdruck  $p^2 (=p^1)$   
Arbetsstryck  $p^2 (=p^1)$   
Presión de funcionamiento  $p^2 (=p^1)$   
Pressione di esercizio  $p^2 (=p^1)$

Combined start/stop function

Combined start/stop function with acknowledgement



## Ball Valve





**Pneumatic Division**  
Richland, Michigan 49083  
269-629-5000

**PDNSG-1**

**Pneumatic Division Safety Guide**

**ISSUED: August 1, 2006**

**Supersedes: June 1, 2006**

## **Safety Guide For Selecting And Using Pneumatic Division Products And Related Accessories**

### **⚠ WARNING:**

**FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF PNEUMATIC DIVISION PRODUCTS, ASSEMBLIES OR RELATED ITEMS ("PRODUCTS") CAN CAUSE DEATH, PERSONAL INJURY, AND PROPERTY DAMAGE. POSSIBLE CONSEQUENCES OF FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THESE PRODUCTS INCLUDE BUT ARE NOT LIMITED TO:**

- Unintended or mistimed cycling or motion of machine members or failure to cycle
- Work pieces or component parts being thrown off at high speeds.
- Failure of a device to function properly for example, failure to clamp or unclamp an associated item or device.
- Explosion
- Suddenly moving or falling objects.
- Release of toxic or otherwise injurious liquids or gasses.

Before selecting or using any of these Products, it is important that you read and follow the instructions below.

### **1. GENERAL INSTRUCTIONS**

- 1.1. Scope:** This safety guide is designed to cover general guidelines on the installation, use, and maintenance of Pneumatic Division Valves, FRLs (Filters, Pressure Regulators, and Lubricators), Vacuum products and related accessory components.
- 1.2. Fail-Safe:** Valves, FRLs, Vacuum products and their related components can and do fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of associated valves, FRLs or Vacuum products will not endanger persons or property.
- 1.3. Relevant International Standards:** For a good guide to the application of a broad spectrum of pneumatic fluid power devices see: ISO 4414:1998, Pneumatic Fluid Power – General Rules Relating to Systems. See [www.iso.org](http://www.iso.org) for ordering information.
- 1.4. Distribution:** Provide a copy of this safety guide to each person that is responsible for selection, installation, or use of Valves, FRLs or Vacuum products. Do not select, or use Parker valves, FRLs or vacuum products without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.
- 1.5. User Responsibility:** Due to the wide variety of operating conditions and applications for valves, FRLs, and vacuum products Parker and its distributors do not represent or warrant that any particular valve, FRL or vacuum product is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:
  - Making the final selection of the appropriate valve, FRL, Vacuum component, or accessory.
  - Assuring that all user's performance, endurance, maintenance, safety, and warning requirements are met and that the application presents no health or safety hazards.
  - Complying with all existing warning labels and / or providing all appropriate health and safety warnings on the equipment on which the valves, FRLs or Vacuum products are used; and,
  - Assuring compliance with all applicable government and industry standards.
- 1.6. Safety Devices:** Safety devices should not be removed, or defeated.
- 1.7. Warning Labels:** Warning labels should not be removed, painted over or otherwise obscured.
- 1.8. Additional Questions:** Call the appropriate Parker technical service department if you have any questions or require any additional information. See the Parker publication for the product being considered or used, or call 1-800-CPARKER, or go to [www.parker.com](http://www.parker.com), for telephone numbers of the appropriate technical service department.

### **2. PRODUCT SELECTION INSTRUCTIONS**

- 2.1. Flow Rate:** The flow rate requirements of a system are frequently the primary consideration when designing any pneumatic system. System components need to be able to provide adequate flow and pressure for the desired application.
- 2.2. Pressure Rating:** Never exceed the rated pressure of a product. Consult product labeling, Pneumatic Division catalogs or the instruction sheets supplied for maximum pressure ratings.
- 2.3. Temperature Rating:** Never exceed the temperature rating of a product. Excessive heat can shorten the life expectancy of a product and result in complete product failure.
- 2.4. Environment:** Many environmental conditions can affect the integrity and suitability of a product for a given application. Pneumatic Division products are designed for use in general purpose industrial applications. If these products are to be used in unusual circumstances such as direct sunlight and/or corrosive or caustic environments, such use can shorten the useful life and lead to premature failure of a product.
- 2.5. Lubrication and Compressor Carryover:** Some modern synthetic oils can and will attack nitrile seals. If there is any possibility of synthetic oils or greases migrating into the pneumatic components check for compatibility with the seal materials used. Consult the factory or product literature for materials of construction.
- 2.6. Polycarbonate Bowls and Sight Glasses:** To avoid potential polycarbonate bowl failures:
  - Do not locate polycarbonate bowls or sight glasses in areas where they could be subject to direct sunlight, impact blow, or temperatures outside of the rated range.
  - Do not expose or clean polycarbonate bowls with detergents, chlorinated hydro-carbons, ketones, esters or certain alcohols.
  - Do not use polycarbonate bowls or sight glasses in air systems where compressors are lubricated with fire resistant fluids such as phosphate ester and di-ester lubricants.

## Pneumatic Division Safety Guide

- 2.7. Chemical Compatibility:** For more information on plastic component chemical compatibility see Pneumatic Division technical bulletins Tec-3, Tec-4, and Tec-5
- 2.8. Product Rupture:** Product rupture can cause death, serious personal injury, and property damage.
- Do not connect pressure regulators or other Pneumatic Division products to bottled gas cylinders.
  - Do not exceed the maximum primary pressure rating of any pressure regulator or any system component.
  - Consult product labeling or product literature for pressure rating limitations.

### 3. PRODUCT ASSEMBLY AND INSTALLATION INSTRUCTIONS

- 3.1. Component Inspection:** Prior to assembly or installation a careful examination of the valves, FRLs or vacuum products must be performed. All components must be checked for correct style, size, and catalog number. DO NOT use any component that displays any signs of nonconformance.
- 3.2. Installation Instructions:** Parker published Installation Instructions must be followed for installation of Parker valves, FRLs and vacuum components. These instructions are provided with every Parker valve or FRL sold, or by calling 1-800-CPARKER, or at [www.parker.com](http://www.parker.com).
- 3.3. Air Supply:** The air supply or control medium supplied to Valves, FRLs and Vacuum components must be moisture-free if ambient temperature can drop below freezing

### 4. VALVE AND FRL MAINTENANCE AND REPLACEMENT INSTRUCTIONS

- 4.1. Maintenance:** Even with proper selection and installation, valve, FRL and vacuum products service life may be significantly reduced without a continuing maintenance program. The severity of the application, risk potential from a component failure, and experience with any known failures in the application or in similar applications should determine the frequency of inspections and the servicing or replacement of Pneumatic Division products so that products are replaced before any failure occurs. A maintenance program must be established and followed by the user and, at minimum, must include instructions 4.2 through 4.10.
- 4.2. Installation and Service Instructions:** Before attempting to service or replace any worn or damaged parts consult the appropriate Service Bulletin for the valve or FRL in question for the appropriate practices to service the unit in question. These Service and Installation Instructions are provided with every Parker valve and FRL sold, or are available by calling 1-800-CPARKER, or by accessing the Parker web site at [www.parker.com](http://www.parker.com).
- 4.3. Lockout / Tagout Procedures:** Be sure to follow all required lockout and tagout procedures when servicing equipment. For more information see: OSHA Standard – 29 CFR, Part 1910.147, Appendix A, The Control of Hazardous Energy – (Lockout / Tagout)
- 4.4. Visual Inspection:** Any of the following conditions requires immediate system shut down and replacement of worn or damaged components:
- Air leakage: Look and listen to see if there are any signs of visual damage to any of the components in the system. Leakage is an indication of worn or damaged components.
  - Damaged or degraded components: Look to see if there are any visible signs of wear or component degradation.
  - Kinked, crushed, or damaged hoses. Kinked hoses can result in restricted air flow and lead to unpredictable system behavior.
  - Any observed improper system or component function: Immediately shut down the system and correct malfunction.
  - Excessive dirt build-up: Dirt and clutter can mask potentially hazardous situations.

**Caution: Leak detection solutions should be rinsed off after use.**

- 4.5. Routine Maintenance Issues:**
- Remove excessive dirt, grime and clutter from work areas.
  - Make sure all required guards and shields are in place.
- 4.6. Functional Test:** Before initiating automatic operation, operate the system manually to make sure all required functions operate properly and safely.
- 4.7. Service or Replacement Intervals:** It is the user's responsibility to establish appropriate service intervals. Valves, FRLs and vacuum products contain components that age, harden, wear, and otherwise deteriorate over time. Environmental conditions can significantly accelerate this process. Valves, FRLs and vacuum components need to be serviced or replaced on routine intervals. Service intervals need to be established based on:
- Previous performance experiences.
  - Government and / or industrial standards.
  - When failures could result in unacceptable down time, equipment damage or personal injury risk.
- 4.8. Servicing or Replacing of any Worn or Damaged Parts:** To avoid unpredictable system behavior that can cause death, personal injury and property damage:
- Follow all government, state and local safety and servicing practices prior to service including but not limited to all OSHA Lockout Tagout procedures (OSHA Standard – 29 CFR, Part 1910.147, Appendix A, The Control of Hazardous Energy – Lockout / Tagout).
  - Disconnect electrical supply (when necessary) before installation, servicing, or conversion.
  - Disconnect air supply and depressurize all air lines connected to system and Pneumatic Division products before installation, service, or conversion.
  - Installation, servicing, and / or conversion of these products must be performed by knowledgeable personnel who understand how pneumatic products are to be applied.
  - After installation, servicing, or conversions air and electrical supplies (when necessary) should be connected and the product tested for proper function and leakage. If audible leakage is present, or if the product does not operate properly, do not put product or system into use.
  - Warnings and specifications on the product should not be covered or painted over. If masking is not possible, contact your local representative for replacement labels.
- 4.9. Putting Serviced System Back into Operation:** Follow the guidelines above and all relevant Installation and Maintenance Instructions supplied with the valve FRL or vacuum component to insure proper function of the system.