WILKERSON®

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⚠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.
- this product before installation, servicing, or conversion.

 Operate within the manufacturer's specified pressure, temperature,
- Medium must be moisture-free if ambient temperature is below freezing.
- · Service according to procedures listed in these instructions.

and other conditions 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.

INSTALLATION

Install the Filter/Regulator as close as possible to the application. The inlet port is marked with an arrow cast into the body to indicate the direction of flow. Gauge ports (1/4") are provided in either side of the body for installation of a gauge or use as an additional outlet port. Plug unused port(s). System piping should be same size as regulator porting. In systems with a cyclic demand, the regulator should be located upstream of cycling device.

! WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

OPERATION

Maximum pressure rating is 150 psig (10 bar) for transparent plastic bowls, and 200 psig (14 bar) for metal bowls. Temperature range is 32°F to 125°F (0°C to 52°C) for transparent plastic bowls, and 32°F to 150°F (0°C to 65.5°C) for metal bowls. Before turning on the supply air pressure, turn the adjusting knob

Before turning on the supply air pressure, turn the adjusting knob counterclockwise until there is no load on the regulating spring. Turn on the supply air pressure and then turn the adjusting knob clockwise until the desired secondary pressure is reached. To avoid minor readjustment after making a change in pressure setting, always approach the desired pressure form a lower pressure. When reducing from a higher to a lower setting, first reduce to some pressure less than that desired and then increase to the desired pressure.

SEE REVERSE SIDE FOR LIST OF MATERIALS UNSUITABLE FOR USE WITH POLYCARBONATE BOWLS

MAINTENANCE

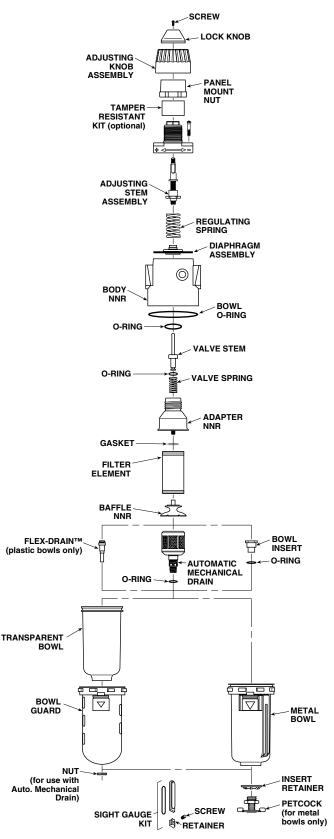
- The regulator can be disassembled for servicing without removal from line.
- DEPRESSURIZE UNIT BEFORE REMOVING GUARD AND/OR BOWL.
- 3. TO DISASSEMBLE: shut off air to the filter/regulator and vent air line on both sides of unit. Turn adjusting screw counterclockwise to relieve spring compression. Remove knob, cover cap, screw cover, and spring. Diaphragm assembly can now be removed.
- To remove valve from bottom of unit, remove bowl. Remove baffle and filter element exposing hex nut on adapter assembly. Remove adapter assembly, valve and spring.

(continued on reverse side)

Installation & Service Instructions 83-861-000

Precision Air Pressure Regulator Type PC6B Filter / Regulator

ISSUED: April, 2006 Supersedes: July, 2004 Doc.# 83861000, ECN# 060299, Rev. 4



NNR = NOT NORMALLY REPLACED

- 5. If unit is equipped with plastic bowl, inspect daily to detect crazing, cracking, damage, or other deterioration. Immediately replace any crazed, cracked, damaged, or deteriorated bowl with a metal bowl or a new plastic bowl and metal bowl guard.
- Replace or clean the filter element periodically by removing from filter, tapping on surface, and blowing off with air blow gun.
- 7. If unit is equipped with a manual petcock, drain bowl at least once per work shift.
- 8. If unit is equipped with a float, clean the bowl each time the element is cleaned or changed by turning the bowl upside down and tapping onto tabletop. Blow clean with blow gun.
- 9. If unit will not regulate to required pressure, or if pressure becomes excessive, follow instructions (see step 4) for removal of valve. Remove valve and spring (Clean and check valve stem and valve seat for wear or damage and replace if required.)
- 10. Before placing unit in service, make sure that bowl and bowl guard are reinstalled and securely locked in place.

REPAIR KITS AND REPLACEMENT PARTS 051 5 DELIENWIG DEDAID 1/17 // . . .

SELF-RELIEVING REPAIR KIT (includes self-relieving	
diaphragm assembly, valve stem, valve spring,	
filter element, and bowl o-ring)	PRP-95-025
Regulating Springs:	
0-30 psi	RRP-95-916
0-50 psi	RRP-95-222
0-125 psi	RRP-95-224
Self-Relieving Diaphragm Kit	PRP-95-960
Valve Assembly (valve stem, valve spring)	PRP-95-959
Filter Element Assembly (includes	
element and bowl o-ring)	FRP-95-160
Transparent Plastic Bowl Assemblies:	
with Flex-Drain™	
with bowl guard, Automatic Mechanical Drain	FRP-95-015
with bowl guard, Flex-Drain™	GRP-95-014
Bowl O-Ring Kit (10 per kit)	
Bowl Guard Kit	GRP-95-013
Metal Bowl Assemblies:	
with metal petcock	PRP-95-070
with Sight Gauge, metal petcock (for units	
with "G" in model no)	PRP-95-071
with Automatic Mechanical	
Drain and Viton® seals	PRP-96-006
Drains:	
Automatic Drain Kit (includes	
o-ring, nut)	
Automatic Mechanical Drain with Viton® seals	
Brass Petcock (for metal bowls)	
Flex-Drain™ Kit (for plastic bowls)	FRP-95-610
Adjusting Knob Kit	RRP-95-023
NOTE: All bowl kits include bowl o-ring	
TTO I E. 7 III SOTTI NILO III OIGGO DOWI O TIII G	

ACCESSORIES

Wall Mounting Bracket with Panel Mount Nut Wall Mounting Bracket Panel Mount Nut	GRP-95-012		
Tamper Resistant Kit			
Viton Valve Assembly			
Gauges:			
0-30 psig	K4520N18030		
0-60 psig	K4520N14060		
0-120 psig	K4520N14160		

WARNING: IF YOUR UNIT HAS A PLASTIC BOWL

higher than 125°F (52°C).

- 1. DO NOT use plastic bowl units without a metal bowl guard installed. Plastic bowl units are sold only with metal bowl guards to minimize
- the danger of flying fragments in the event of bowl failure. 2. **DO NOT** install the unit where it will be subjected to temperatures
- DO NOT install the unit where it will be subjected to pressure higher than 150 psig (10 bar).
- 4. CAUTION: Certain compressor oils, household cleaners, chemicals, solvents, paints and fumes will attack plastic bowls and can cause plastic-bowl failure. See manufacturer's list below. Do not use near these materials.

⚠ 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.

SOME OF THE MATERIALS THAT WILL ATTACK POLYCARBONATE PLASTIC BOWLS

Acetaldehyde Acetic acid (conc.) Acetone Acrylonitrile Ammonia Ammonium fluoride Ammonium hydroxide Ammonium sulfide Anaerobic adhesives & sealants Antifreeze Benzene Benzoic acid Benzyl alcohol Brake fluids Brake fluids
Bromobenzene
Butryic acid
Carbolic acid
Carbon disulfide
Carbon tetrachloride Caustic potash solution Caustic soda solution

Chlorobenzene Chloroform Cresol Cyclohexanol Cyciohexanone Cyclohexanone
Cyclohexene
Dimethyl formamide
Dioxane
Ethane tetrachloride
Ethyl acetate
Ethyl ether Ethylamine Ethlene chlorohydrin Ethlene dichloride Ethlene dichloride
Ethlene glycol
Formic acid (conc.)
Freon (refrigerant & propellant)
Gasoline (high aromatic)
Hydrazine
Hydrochloride acid (conc.)
Lacquer thinner

Methylene cholride Methylene salicylate Milk of lime (CaOH) Nitric acid (conc.) Nitrobenzene Nitriocellulose lacquer Nitriocellulose tacquei Phenol Phosphorous hydroxy chloride Phosphorous trichloride Propionic acid Pyrdine Sodium hydroxide Sodium sulfide Styrene Sulfuric acid (conc.) Sulphural chloride Sulfurnc acid (conc.)
Sulphural chloride
Tetrahydronaphthalene
Thiophene
Toluene
Turpentine
Perchlorethylene and others

TRADE NAMES OF SOME COMPRESSOR OILS, RUBBER **COMPOUNDS AND OTHER MATERIAL THAT WILL** ATTACK POLYCARBONATE PLASTIC BOWLS.

Atlas Perma Guard Buna N
Cellulube #150 and #220
Crylex #5 cement
*Eastman 910
Garlock #98403 (polyurethane) Garlock #98403 (polyurethane)
Haskel #586-023
Hilgard Co's hil-phene
Houghtion & Co oil #1120 #1130 and #1055
Houtosafe 1000
Kano Kroil
Keystone penetrating oil #2
* Loctite 271
* Loctite 290
* Loctite 601
* Loctite 1761 Loctite Teflon-Sealant Marvel Mystery Oil Minn Rubber 366Y National Compound #N11 "Nylock" VC 3

PLASTIC BOWLS.

Parco #1306 Neoprene

Permahond 910

Petron PD287

Prestone

Pydraul AC

Sears Regular Motor Oil
Sinclair oil "Lily White"

Some Loctite Compounds

Stauffer Chemical FYRQUEL #150

Stillman #SR-513-70 (neoprene)

Tannergas

Telar

Tenneco anderol #495 & #500 oils

Titon

Vivra-tite Vivra-tite

When in raw liquid form

WE CANNOT POSSIBLY LIST ALL HARMFUL SUBSTANCES, **CHECK WITH A MOBAY CHEMICAL OR GENERAL ELECTRIC OFFICE FOR FURTHER** INFORMATION ON POLYCARBONATE PLASTIC.

∕!\ 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.

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