

# CLEAR VIEW FILTRATION 4" FUEL AND TRANSMISSION FLUID FILTER DIRECTIONS

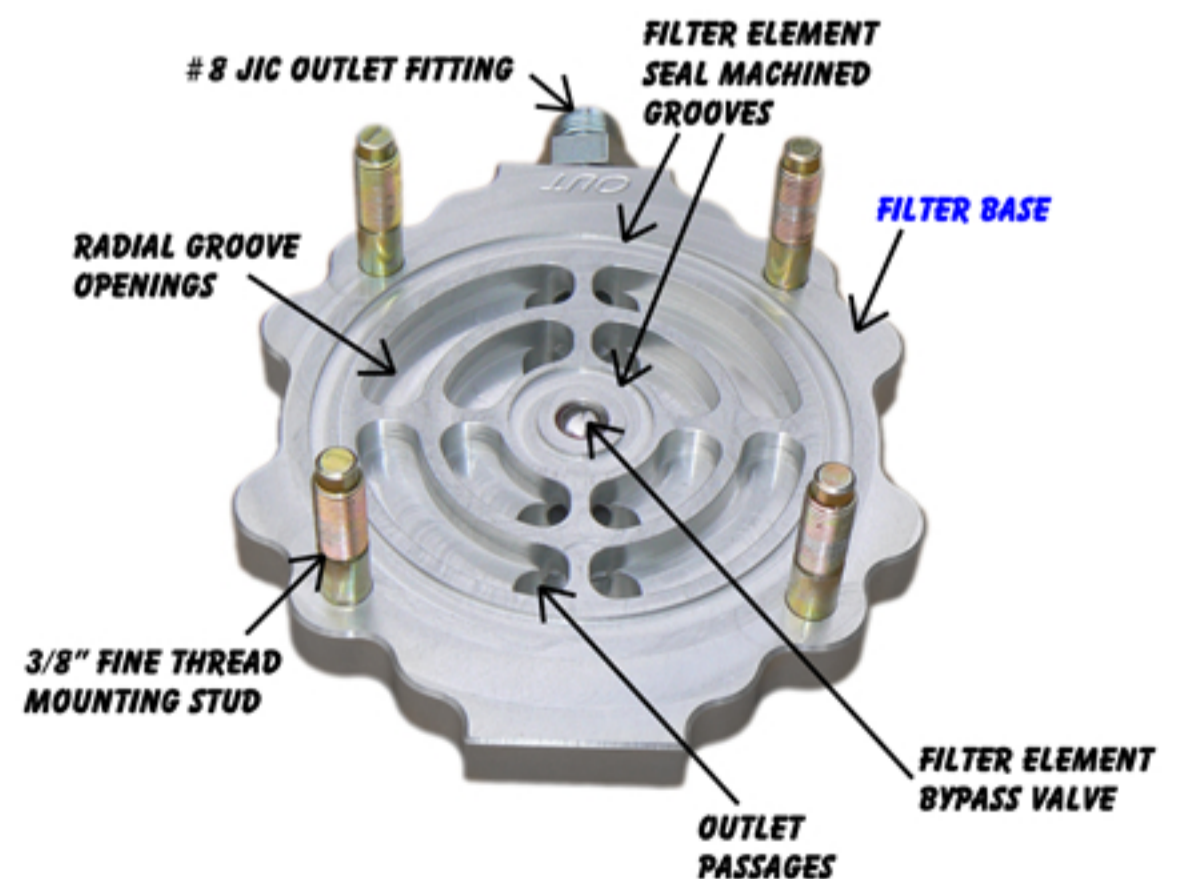
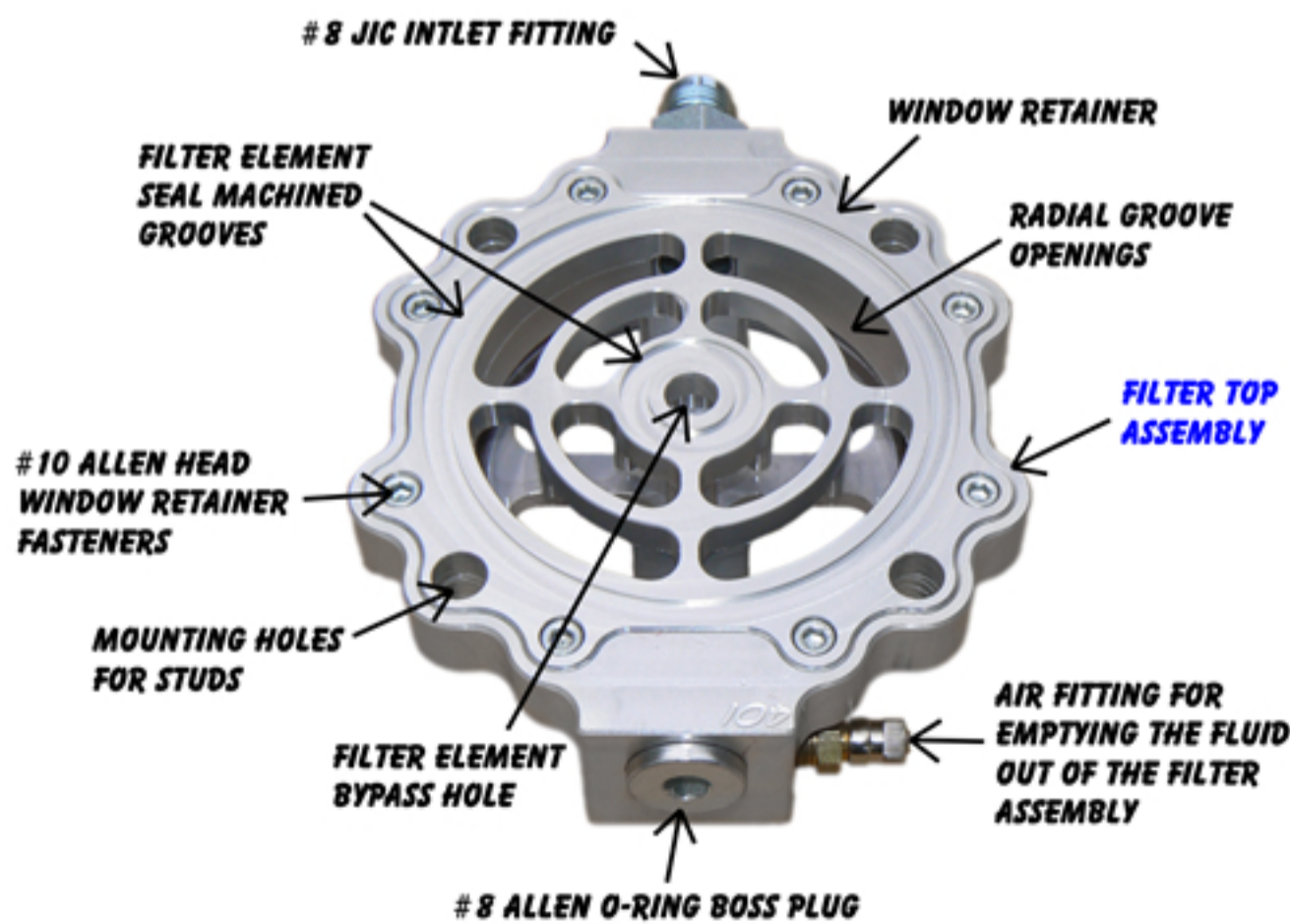
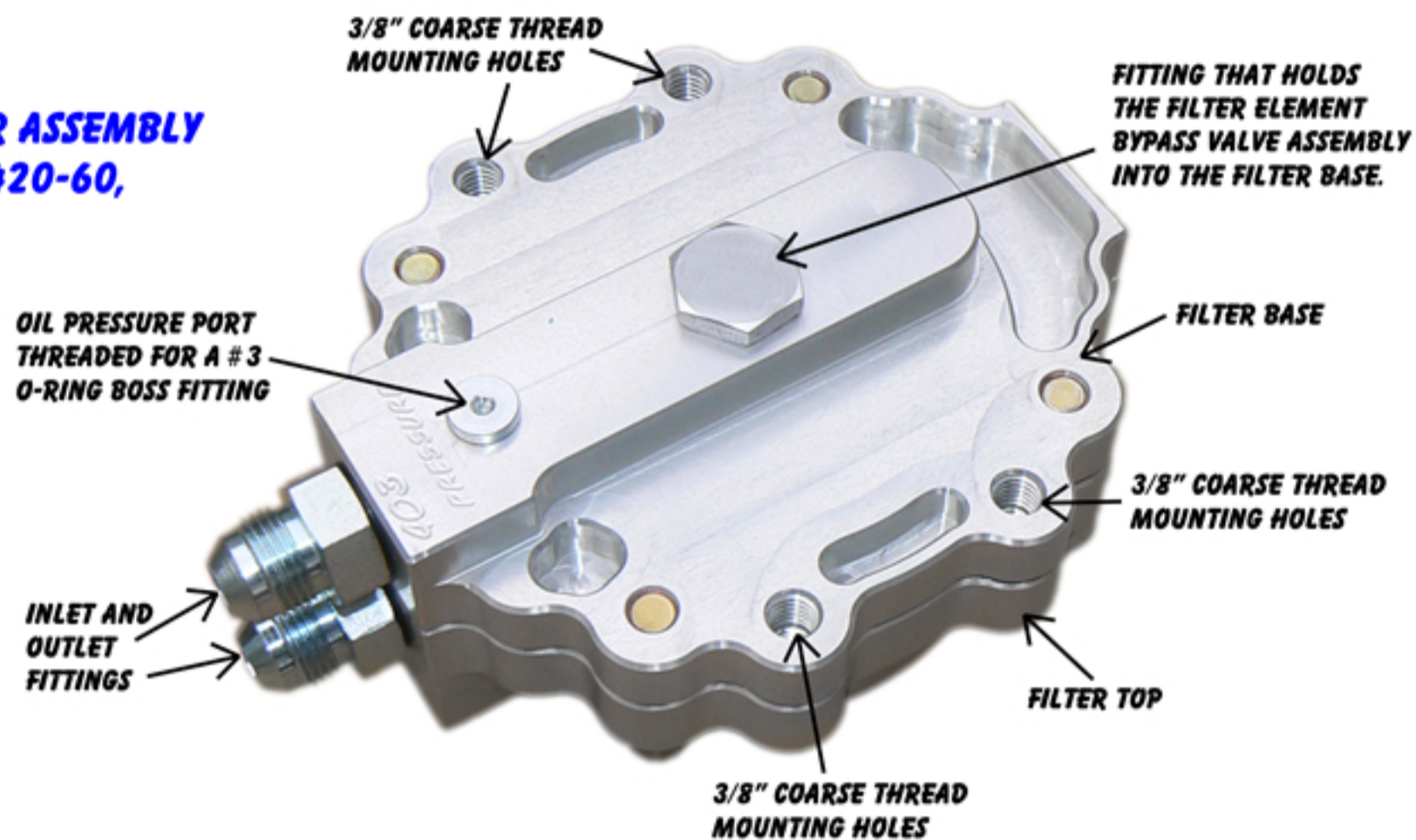
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**MORE PRODUCTS AND INFORMATION AT: [WWW.CLEARVIEWFILTRATION.COM](http://WWW.CLEARVIEWFILTRATION.COM) OR [WWW.BILLETCONNECTION.COM](http://WWW.BILLETCONNECTION.COM)**

**CLEAR VIEW FILTRATION'S NEW PATENT PENDING SEE THROUGH FLUID FILTER ASSEMBLY ALLOWS THE USER TO VISUALLY SEE THE FLUID PUMPING THROUGH THE FILTER, WHICH HELPS IN DETERMINING THE CONDITION OF THE FLUID. WHEN FLUID IS NOT BEING PUMPED THROUGH THE FILTER, THIS FILTER ASSEMBLY CAN BE QUICKLY DRAINED USING COMPRESSED AIR, EXPOSING THE FILTER ELEMENT WHEN FILTERING NON TRANSPARENT FLUID LIKE TRANSMISSION FLUID. THIS ALLOWS THE USER TO VISUALLY SEE ANY CONTAMINANTS AND PARTICLES FILTERED OUT OF THE FLUID SYSTEM, SO THE USER CAN DETERMINE IF THE CONTAMINANTS AND PARTICLES ARE FROM NORMAL USE OR IF THE CONTAMINANTS AND PARTICLES ARE FROM PARTS EXCESSIVELY WEARING IN THE TRANSMISSION OR IN THE FUEL SYSTEM SUPPLYING THE FILTER ASSEMBLY. THIS CAN BE DONE IN SECONDS AFTER THE SUPPLY OF FLUID IS TURNED OFF. THE USER CAN CHECK THE FILTER ELEMENT WITHOUT DRAINING OR LEAKING ANY FLUID, UNBOLTING OR LOOSENING ANY FASTENERS OR FITTINGS.**

**SEE THROUGH OIL FILTERS ARE RATED FOR 150 PSI MAXIMUM PRESSURE AT A MAX FAHRENHEIT TEMP OF 200 DEGREES.**

## 4" HI-FLOW FILTER ASSEMBLY PART # 420-28, # 420-60, AND # 420-115



## CLEAR VIEW FILTRATION'S GUARANTEE (IMPORTANT!! READ BEFORE INSTALLING)

**THIS OIL FILTER IS GUARANTEED FOR ONE YEAR FROM DATE OF PURCHASE TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP. WE SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES, OR DAMAGES TO PERSONS OR PROPERTY ARISING FROM THE USE OF THIS PRODUCT. THIS INCLUDES DOWN TIME, LOSS OF USE OF THE PRODUCT, MACHINERY, OR VEHICLE. ALSO TOWING, RENTING OR BUYING A VEHICLE DURING DOWN TIME. IF THERE IS EVER A PROBLEM WITH THE FILTER ASSEMBLY, THE FILTER MUST BE SENT BACK TO CLEAR VIEW FILTRATION FOR ALL WARRANTIES OR GUARANTEE IS VOID. WE SHALL NOT BE LIABLE FOR SHIPPING COSTS OF THE FILTER ASSEMBLY, OR LABOR COSTS TO UNHOOK OR REINSTALL THE FILTER ASSEMBLY. IF THE FILTER ASSEMBLY IS INSTALLED THE PURCHASER AND OR USER OF THE PRODUCT IS AGREEING TO THE TERMS ABOVE. IF THE PURCHASER AND OR USER OF THE PRODUCT DOES NOT AGREE TO THE TERMS ABOVE, AND THE FILTER ASSEMBLY WAS NOT DAMAGED, SCRATCHED, OR INSTALLED. THEN CONTACT US AT CLEAR VIEW FILTRATION AND SEND THE FILTER ASSEMBLY BACK AND WE WILL GIVE THE PURCHASER A FULL REFUND.**

# **4" FUEL OR TRANSMISSION FILTER DIRECTIONS READ BEFORE INSTALLING**

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**THE FILTER ASSEMBLY NEEDS BE MOUNTED FLAT SO THE SIGHT WINDOW IS FACING UP AND BE MOUNTED SO THE INLET AND OUTLET HOSES ARE LEVEL OR ARE GOING UP TO THE FILTER ASSEMBLY. IF THE HOSES ARE GOING DOWN TO THE FILTER ASSEMBLY, AFTER DRAINING THE FILTER ASSEMBLY THE FLUID WILL RUN BACK INTO THE FILTER ASSEMBLY COVERING UP THE FILTER ELEMENT.**

**THE FILTER ASSEMBLY SHOULD BE MOUNTED USING AT LEAST TWO OF THE 3/8" COARSE THREADED MOUNTING HOLES ON THE BOTTOM OF THE FILTER BASE. EITHER SIDE CAN BE USED TO FACE THE OUTLET OPENING OUT THE DESIRED SIDE. WE ALSO HAVE MOUNTING BRACKET KITS AVAILABLE, WHICH MOUNTS THE FILTER ASSEMBLY TO THE FRONT OF ENGINES, TO A FLAT SURFACE, OR TO DIFFERENT SIZE TUBING. CHECK OUR WEB SITE FOR MORE BRACKET KIT OPTIONS AND MORE PRODUCT INFORMATION.**

**THE FILTER ASSEMBLY HAS INLET THREADED OPENINGS AT EITHER END OF THE FILTER TOP, EITHER ONE COULD BE USED. THE OTHER END NEEDS TO BE PLUGGED. FLUID WILL ONLY FLOW AS MUCH AS THE SMALLEST ORIFICE IN A FLUID SYSTEM. THIS FILTER ASSEMBLY INLET AND OUTLET OPENING ON THE FILTER ASSEMBLY HAS LARGER THAN 3/8" OR .375" DIAMETER OPENING, SO THIS 4" FILTER ASSEMBLY WILL NOT RESTRICT THE FLUID FLOW IF A .375" INSIDE DIAMETER HOSE IS USED. IF THE FILTERING APPLICATION HAS LARGER THAN A 3/8" OR .375" INSIDE DIAMETER HOSE THAN THE 4" HI-FLOW FILTER ASSEMBLY SHOULD BE USED PART # 410-60 OR 410-115.**

**THE THREADED INLET AND OUTLET OPENINGS ARE THREADED TO 3/4" 16 THREADS PER INCH. THIS THREAD IS ALSO CALLED # 8 STRAIGHT THREAD. THE FITTINGS USED IS CALLED A # 8 STRAIGHT THREAD WITH O-RING OR A # 8 O-RING BOSS FITTING THAT THREADS INTO THE FILTER, AND THE OTHER END COMES IN MANY DIFFERENT FITTING TYPES TO MAKE IT EASY TO HOOK UP TO DIFFERENT APPLICATIONS AND FLUID SYSTEMS. MOST APPLICATIONS USE A # 8 O-RING BOSS ON ONE END AND A # 8 OR # 6 JIC MALE ON THE HOSE END OF THE FITTING. THE # 8 FITTINGS COME IN DIFFERENT STYLES AND COME IN STEEL AND ALUMINUM, CHECK OUT OUR WEBSITE FOR MORE FITTING AND PRODUCT INFO.**

**THE FILTER ASSEMBLIES FILTER ELEMENT IS STAINLESS STEEL MESH WITH A VITON RUBBER SEAL AROUND THE INSIDE AND THE OUTSIDE OF THE FILTER ELEMENT. VITON RUBBER IS HEAT AND CHEMICAL RESISTANCE, AND ALSO ALCOHOL RESISTANT. THESE SEALS FIT IN GROOVES MACHINED INTO THE FILTER BASE AND TOP ASSEMBLY. THE FILTER ELEMENT CAN BE PUT IN WITH EITHER SIDE FACING UP OR DOWN. MAKE SURE THE FILTER ELEMENT SEALS ARE IN THE MACHINED GROOVES IN THE FILTER ASSEMBLY, OR IT COULD DAMAGE THE VITON RUBBER SEALS ON THE FILTER ELEMENT. AFTER THE FILTER ELEMENT IS SET ON THE FILTER BASE WITH THE SEALS IN THE MACHINED GROOVES, THE TOP OF THE FILTER ASSEMBLY CAN BE PUT ON. THE FOUR 3/8" STUDS IN THE FILTER BASE WILL ALIGN THE TOP HOUSING SO THE FILTER ELEMENT SEALS WILL LINE UP WITH THE MACHINED GROOVES IN THE TOP HOUSING. INSTALL THE TOP HOUSING AND BOLT TOGETHER USING THE FOUR 3/8" AN FLAT WASHERS, AND THE 3/8" FINE THREAD 12 POINT NUTS AND TIGHTEN GRADUALLY ALL FOUR NUTS. DO NOT TIGHTEN AND TORQUE ONE NUT ALL THE WAY, MAKE SURE TO TIGHTEN ALL FOUR A LITTLE AT A TIME THAN TORQUE ALL FOUR TO 25 FOOT POUNDS.**

**THESE FOUR NUTS ARE THE ONLY FASTENERS THAT NEED TO BE TAKEN OFF TO CLEAN OR CHANGE THE FILTER ELEMENT. THE FILTER TOP ASSEMBLY HAS THREE VITON RUBBER O-RINGS, WHICH SEAL THE VIEWING WINDOW AND VIEWING WINDOW RETAINER INTO THE FILTERS TOP HOUSING. THESE CAN BE CHANGED EASILY BY TAKING OUT THE EIGHT #10 - 24 THREADS PER INCH ALLEN HEAD FASTENERS, THESE ARE PUT IN WITH BLUE LOC TIGHT. WHEN THE EIGHT FASTENERS ARE OUT, THE WINDOW RETAINER AND THE VIEWING WINDOW WILL COME OUT. THE O-RING ON THE WINDOW RETAINER IS A #155 VITON, THE O-RING IN THE VIEWING WINDOW IS A #153 VITON, AND THE O-RING IN THE TOP HOUSING WHICH SEALS AROUND THE WINDOW IS A #154 VITON. THESE ARE COMMON O-RINGS THAT CAN BE PURCHASED AT YOUR LOCAL O-RING STORE OR PURCHASED THROUGH CLEAR VIEW FILTRATION. AFTER REPLACING THE THREE O-RINGS PUT A LITTLE OIL ON THEM AND HOLD THE TOP HOUSING LIKE IT GOES ON THE FILTER WITH THE TOP SIDE FACING UP. NOW INSTALL THE WINDOW FROM THE BOTTOM WITH THE O-RING IN THE GROOVE OF THE WINDOW FACING UP. INSTALL THE WINDOW, IT WILL TAKE A LITTLE FORCE. THEN INSTALL THE WINDOW RETAINER WITH THE O-RING IN THE GROOVE FACING UP. THIS WILL ENSURE THE O-RINGS WILL STAY IN THEIR O-RING GROOVES. NOW HOLD THE TOP ASSEMBLY TOGETHER WITH ONE HAND AND FLIP IT OVER AND INSTALL THE EIGHT ALLEN HEAD FASTENERS. USE A LITTLE BLUE LOC TIGHT AND HAND TIGHTEN. THESE ARE SMALL FASTENERS SO DO NOT OVER TIGHTEN, COULD STRIP OUT THE THREADS. IF THIS HAPPENS YOU MUST PUT A HILI-COIL OR FIX THE THREADS IN THE FILTER TOP. THERE IS A LOT OF FORCE APPLIED TO THESE FASTENERS AND THE FILTER MUST HAVE THEM ALL TIGHT AND WITH GOOD THREADS, THIS IS VERY IMPORTANT.**

**WHEN THE FILTER ASSEMBLY IS COMPLETELY MOUNTED AND EVERY THING IS TIGHT, YOU CAN START THE ENGINE. LOOK FOR LEAKS INCASE ANYTHING WAS LEFT LOOSE. WHEN THE MOTOR IS NOT RUNNING, THE FILTER ASSEMBLY CAN BE EMPTIED OF OIL BY SIMPLY USING COMPRESSED AIR WITH AN AIR CHUCK FOR FILLING TIRES TO APPLY A LITTLE AIR PRESSURE TO THE AIR FITTING ON THE SIDE OF THE INLET OPENING. IT JUST NEEDS A LITTLE SHOT OF AIR AN AIR BOTTLE OR CO2 BICYCLE TIRE FILLER WORKS GREAT. THERE IS NO NEED TO HOLD AIR PRESSURE STEADY ON THE AIR FITTING. IF THE FILTER DOES NOT EMPTY COMPLETELY ON THE FIRST SHOT OF AIR JUST GIVE IT A SECOND SHOT IF NEEDED. IT WILL ONLY TAKE A FEW SECONDS TO EMPTY, AND ALLOW A VISUAL INSPECTION OF THE FILTER ELEMENT. THIS WILL ALSO MAKE IT POSSIBLE TO TAKE THE FILTER ASSEMBLY APART TO CLEAN THE FILTER ELEMENT WITHOUT LEAKING OIL ALL OVER.**

**THE CLEAR WINDOW IS POLY CARBONATE, IT HAS A COATING THAT IS CHEMICAL AND SCRATCH RESISTANT. IT WILL SCRATCH IF SCOTCH BRITE, SAND PAPER OR COARSE CLOTH IS USED TO CLEAN THE VIEWING WINDOW. USE A SOFT CLOTH WITH WINDEX GLASS CLEANER WHEN CLEANING. THE WINDOW! REPLACEMENT WINDOWS ARE AVAILABLE IF DAMAGED.**