



# INVENTRO POLYMERS

ABILITY TO DEFINE

MANUFACTURER & EXPORTER OF: RUBBER, P.T.F.E (TEFLON) & ENGINEERING PLASTIC ITEMS

## COMPRESSOR PARTS CATALOGUE

We feel immense pleasure to introduce ourselves as an enterprise engaged in replacement spares  
For AIR & Gas Compressors specially (Oxygen, Nitrogen, CO2, Ammonia, LPG)

 <b>Ingersoll Rand</b> <i>Inspiring Progress™</i>			
 <b>Chicago Pneumatic</b>	<b>K.G. Khosla</b>		<b>ANY OTHER IMPORT SUBSTITUTE</b>

The company is also reckoned as one of the prominent Exporters and Suppliers of Compressor Spare Parts, Compressor Piston Rings etc.

**Made From Teflon, Carbon Filled Teflon, Bronze Filled Teflon.**

As we are manufacturer of Rubber and Teflon parts our rates are very much competitive than others.

We have in house Machining facility as well Teflon molding Press and Ovens.

We give guarantee for all the spares supplied by us for a period of 6 months against its quality, performance, premature failure and manufacturing defects.

INGERSOLL RAND TYPE 30: such as 15t, 15t2, 71t, 71t2, 2545, 2540, 253, 242, 234, 235, 255, 7100, 3000, 15s2, 15v, 7v, 231 Model Esv & Esh as 7x5 NI, Lub, 8x7 NI, Lub, 9x7 NI, Lub, 9.5"x7nl, Lub, 11x7 NI, Lub, 4x5 NI, Lub, 10.5x 7esh NI, Lub, 12x5 NI/lub, 18x5 NI, Lub Model Ihe, Hse, & Xle Compressors as 12 & 6.5 X 7 Ihe -2 NI, Lub, 12 & 7 X 7 Ihe-5 NI, Lub, 12 & 12 X 7 Ihe S 10nl, Lub, 16 & 9b X 7 Ihe-2nl, Lub, 12 & 5 X 7 Ihe 2 NI, Lub, 12 & 7 X 7 Ihe-2nl, Lub, 14 & 8 X 7 Ihe 7 NI, Lub, 16 & 10 X 7 Ihe 10 NI, Lub, 16 & 10.5p & 6.5p & 4b X 7 Ihe 4 NI, Lub, 12" & 7p" & 4 3/4 P & 4b"x 7 Ihe 4 NI, Lub, 10 & 6 & 4 & 2 3/8 X 7 Ihe 4nl, Lub, 12 & 5 & 4 X 7, 12 & 7 & 5 X 7, 14 & 6 X 9 Hse NI, Lub, 17 & 9 X 9 Hse NI, Lub, 17 & 9 & 4.5 X 9 Hse NI, Lub, 17 & 10.5 X 9 Hse NI, Lub, 22" - 13 1/2" X 10"xle NI, Lub, 24 1/4" & 13 1/2" X 10", 24 1/4" & 14 1/2" X 10" Xle NI, Lub, 25" & 14 1/2" X 10" Xle NI, Lub, 26" & 14 1/4" X 10" Xle NI, Lub, 28" & 16" X 10" Xle NI, Lub,

Chicago Pneumatic Air Compressors Models Hx,Hn,Mx. as 1hx1t16, 1hx1t18, 1hx1t21, 1hx1t25, 1hx1t31, 2hx2t 21x11 2hx2t 25x14, 2hx2t 25x16, 1hx2t 25x25, 2hx2t 31x18, 1hx2t 31x31, 30np, 50np, 60np, 75np, 2hn2t 32x18, 2hn2t 32x18, 2hn2t 37x22, 2hn2t 47x28, 1hn2t 32x32, 1hn2t 37x37, 1hn2t 41x41, 1hn2t 47x47.

K.G. Khosla & Kirloskar Air Compressors Models such as Vydt, Ha, Hy, Hb, Tc, Eh, Tbsd, like Vydt, 1ha2bist, 2ha2bist, 4ha4ter, 4hab4bis, 4ha4q, 4ha4s, 2ha2pt, 1ha4bist, 3ha4gt, 2ha2gt, 2ha2tert, Tc 50, Tc 100, Tc 200, Eh 50, Eh 100, Eh 200, Eh 241, Eh 245, Tbsdmm, Tbsdml, Tbsdjm, Tbsdqm, Tbsdpm, Tbsdrrm, Tbsdbrm, Tbsdem, Tbsdkm, Tsdldh and Many More.

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ALL LOGOS AND TRADEMARK ARE PROPERTY OF THEIR RESPECTIVE OWNERS



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## INVENTRO PACKING RINGS & WIPER RINGS

### TYPE 215 Wedge Packing

This design, used in a wiper packing assembly, consists of a three ring set a male radial ring, female radial ring and tangent cut ring as shown above.

The wedge packing set is installed facing the cylinder with the male radial ring facing the pressure. The purpose of the wedge packing is to prevent the gas from getting into the crankcase.

It can also be utilized in very low pressure applications where the radial tangent pair does not exert sufficient force on the piston rod to create a seal. The male/female combination load ring creates sufficient force on the rod with the expansion of the Teflon® material due to a temperature increase at operating pressure. This pressure allows the ring to seal where the normal downward force of the gas on the packing ring is not sufficient.



### TYPE 217 Wedge Packing

This design, used in a packing case assembly, consists of a five ring set male radial ring, and a tangent cut ring as shown. The wedge packing set is installed facing the point of highest pressure. It is used to seal the purge connection and also to prevent leakage of gas along the rod when the compressor is shut down under the load.



### TYPE 220 Rod Packing Ring

Available in INV-31, INV-45, INV-47, with backups of the same TEFLON® blends .or Bronze or Cast Iron This style of packing ring is used in higher pressure applications where the seal ring is made from a thermoplastic material, including filled TEFLON®. At these pressure ranges a backup ring is required to support the sealing ring at the bore to prevent extrusion. The packing groove is not wide enough to utilize the Type 210 pair of rings with a backup. Therefore one ring replaces the normal pair and serves as a radial and tangent combined.



### TYPE 254 Labyrinth Pressure Breaker

Type 254 is designed to be installed in the first sealing groove toward the cylinder. It's internal grooving arrangement is used to trap solids in the gas, preventing them from filling the packing groove and restricting the performance of the packing rings. This design has been used in many applications where packing rings have not been able to function effectively due to the build up of solids in the groove from the cylinder. By minimizing the amount of solids allowed to enter the sealing ring area, the life of the packing assembly is increased.





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### TYPE 495 Wiper Set

The Type 495 wiper assembly consists of two (2) INVENTRO Type 314 wiper rings and (1) INVENTRO Type 313 wiper ring. The INVENTRO'S standard wiper Type 313 utilizes a true tapered stripping edge as part of the normal wiper ring configuration. This tapered edge, comparable to that used in oil rings for power cylinders, strips the oil effectively off the rod surface. This feature combined with the additional wiping problems in the field for gas gathering applications. The rings fit in a standard wiper groove and do not require modification of the wiper gland.



### TYPE210/230 Packing Ring

Available in INV47, INV5015, INV45, INV56, with Cast Iron or Bronze Backup This design consists of one Teflon® radial ring pinned to one Teflon® tangent ring along with an iron or bronze backup ring. The TEFLON® radial ring faces the pressure and is installed as shown.



### TYPE260 PBU Packing Ring

Available in INV31, INV45, INV47, and INV5015

The INV-PBU pressure balanced unitized design is the latest concept in shaft seals. The INV-PBU was developed to extend packing life in conventional applications. However, it has found use in all services from non-lube air to 50,000 PSI compressors handling polyethylene.

Each ring operates on the principle of balancing the pressures around the seal to minimize the downward force of the piston rod. Frictional forces are reduced considerably. In applications where filled TEFLON® materials are utilized, there is less chance that the PV limit

(temperature/pressure limit) of the TEFLON® will be exceeded because of reduced frictional heat.



### TYPE 271 V-Packing

Available in INV47 & INV31

The INVENTRO 271 series "V" packing has been greatly improved in performance, with the addition of INV47 and INV31 materials to increase ring wear life and minimize friction at the sealing surfaces. The INVENTRO family of filled Teflons® will outperform "V" packing seals of Virgin Teflon because of the their added toughness.

They also compare favorably with standard duck packing products and glass filled Teflon® without the frictional wear to shafts and cylinder walls.

Our engineers have developed INV47 for use with liquids and in lubricated service.

For applications where solids are causing rapid packing wear, the INV47, Type 271 "V" packing can provide an excellent solution. Developed for combined toughness and frictional properties, INV31 has performed well in clean gas and liquid applications. If you are looking for better "V" packing life from your shaft seals, contact Our engineers. Let them design a "V" packing for you





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## INVENTRO PISTON RINGS & RIDER RINGS

### INV17B Piston and Rider Rings

Think Blue! Contact our sales department for your requirements on those applications where a glass filled Teflon® is specified.



### Compressor Parts

Your one stop source for your next overhaul.

INVENTRO has available a complete line of compressor piston rings, bull rings, wiper rings & packing for all standard JOY air compressors. Each product is manufactured from quality materials and incorporates INVENTRO special features to maximize performance. The Teflon® piston rings and rider rings utilize INV17 glass filled Teflon® molded and heat treated to increase material wear properties and extend ring life. Each part is individually inspected to ensure quality of manufacture. Products are packaged and inventoried for next day delivery, individually and in parts kits for each JOY standard air compressor.



### One Piece Piston Ring

Piston Rings are available in Angle Cut-TYPE 410, Butt Cut-TYPE 412, or Step Cut-TYPE 411

The standard one piece piston ring is utilized by itself or in combination to seal gases and liquids in a variety of applications. Ring design and materials vary based on the product sealed, temperature, pressure, and condition of the service. INVENTRO Engineers have experience in designing piston rings for all applications from standard air using one piece angle cut rings to high pressure specialized gas services where pressure balancing and special materials are required. Proper clearance design and selection of ring material are critical to provide quality performance and extended ring life.



### PEEK Piston & Rider Rings

High Pressure, High Temperature Applications

The ability to withstand hostile environments has PEEK polymer becoming the material choice for responding to greater product performance demands. PEEK characteristics include: High Temperature Performance, Strength & Toughness, Radiation Resistance, Low Flammability, Low Smoke and Toxic Gas Emission, along with chemical resistance and impact and wear resistance. INVENTRO manufactures piston and rider rings using our INV65, INV66, INV67 PEEK blends. For further application information, visit our materials category.





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## INVENTRO PISTON RINGS & RIDER RINGS

### TYPE 430 - Split Rider Ring

The rider split or wear ring is part of all piston designs where there is no lubrication or the possibility of loss of lubrication exists during operation. New process compressors have rider rings included whether the compressor is lubricated or non-lubricated. The rider supports the weight of the piston and prevents contact with the cylinder wall. It is designed taking into consideration the weight of the piston and rod, the physical properties of the ring material, the operating conditions and the desired ring life. INVENTRO engineers have considerable experience in designing

Teflon® rider rings for all pressures, temperatures and gases. The Type 430 split rider ring is recommended unless the ring travels out into the counter bore area. Side and face grooves can be added to ensure the rider ring does not act as a piston ring. The large surface area would generate significant frictional heat. Therefore grooves are necessary to prevent the ring from sealing. The split rider is available in step, angle or butt cut design.



### TYPE 450 -Solid Rider Ring

Solid riders or wear rings, INVENTRO Type 450, are required where the ring groove on the piston travels out into the valve area or cylinder counter bore. The solid, stretch on ring is designed to stretch over the piston diameter and then fit tightly on the ring groove. Proper strain and memory considerations are important to ensure that the solid ring remains tightly on the piston during operating temperatures and pressures. Pressure relief designs are available in high temperature applications where riders have a tendency to come loose on the piston in service. This allows gas, trapped under the ring, to bleed away, thus eliminating rapid wear of the ring and possible breakage.



### TYPE 470 - Split Rider Ring

The Type 470 rider ring is available in the INV5015 material used in Oxygen, Argon and Air service. The face (helical) grooves are added to ensure that the gas can pass by the ring without the ring sealing.



### TYPE 480 Pressure Balanced Piston Ring

Pressure balancing in both packing and piston rings maximizes ring life. By minimizing the force on the sealing surface, ring wear is reduced and the forces acting on the seal are stabilized. The TYPE 480, two piece piston ring provides excellent performance in discharge pressures over 250 psi.



Piston & Rider rings are manufactured from composites of PTFE - Carbon, Bronze & Bronze molybdenum-disulphide for applications in low to high pressure & continuous duty air and gas compressors. These rings are available for cylinder sizes 2" to 32".



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## INVENTRO OTHER PRODUCTS

### HOLDER GUIDE

The company deals in superior quality Holder Guide which is widely used as spare part in air compressor. Our Spindle Holder Guide is remarkable for its efficient performance and durable functional life.



### OIL SCRAPER RING

The Oil Scraper Ring made available by us is available in Individual graded cast iron, Bronze, glass filled PTFE, with perfect roundness and inner grooved. Our Oil Scraper Piston Ring is identified for its durability and long lasting efficient function. In addition to this, we are counted as one of the prime Compressor Oil Scraper Ring Exporters in India.



### O - RINGS & OIL SEALS

WE MAKE RUBBER O RING AND OIL SEAL AS PER CUSTOMERS REQUIREMENT



### COMPRESSOR MOUNTS

RUBBER ANTI VIBRATION MOUNTS FOR COMPRESSOR



For the best quality Engine Piston Rings, INVENTRO is one stop destination for you.

The company offers all types of Compressor Piston Rings with MOC: PTFE, Thermoplastic in various sizes and specifications made available by the clients. Besides, the company is one of the major Wholesale Piston Rings suppliers and Exporters from India.

We bring forth superior quality Wear Rings in the industry. The Teflon Wear Rings made accessible by us are remarkable for their durable make and efficient function. We supply our Wear Piston Rings in customized specification as required by the clients. Apart from the above fact, we are one of the reputed Wear Rings Exporters and Suppliers in the country.

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