



مصنع الحلول الهوائية للصناعة
PNEUMATIC SOLUTIONS FACTORY

24HR
EXPRESS
CYLINDER
SERVICE



Authorized
Parker Pneumatic
Cylinder Manufacturer
in Saudi Arabia



PRESIDENT
ADDAMEGH GROUP

Pneumatic Solutions Factory (PSF), with the partnership with **Parker Hannifin - The global leader** in motion and control technologies delivered the first indigenous Pneumatic Cylinder manufacturing unit in Saudi Arabia. As the president of PSF, I am proud to have this pioneer move in this field thanks largely to the support and encouragement of our partners and stake holders.

Today as Industry demand customs-made products within a minimum period of time, our new location @ Modon Lake, 2nd Industrial City – Dammam – Saudi Arabia to provide exclusive solutions for industry specific **Pneumatic Cylinders, Crust Breaker Cylinders, Complete Compressed Air Systems and Nitrogen Generators.**

It is our belief that these notable achievement could not have come about without contributions from the Ministry of Commerce and Industry that envisage the

Saudi National Program which stipulate to use local contents on the product itself to strengthen the Saudi economy. We thank all our customers for the faith reposed on us even as we continue to innovate, deliver and participate in the development of the Kingdom’s Industrial growth potential.

We will implement an ideal training centre in due course for the Saudi youth who eager to develop a career in Compressed Air System using the modern technology to acquire employment opportunity widely available. Indeed we have gradually extended the scope of our business to become a fully fledge Pneumatic Solutions provider covering the entire assembly, development and to the finished product. It is yet another step towards establishing ourselves as the market leader renowned for its reliability and ingenuity.

FAHAD I. AL-DAMEGH

OUR VISION

Entrepreneurs and Leaders in manufacturing pneumatic systems in Saudi Arabia.

OUR MISSION

Manufacturing and servicing the complete Compressed air systems with the participation of local contents with the advanced technology and global strategic companies.

OUR VALUES

1. Quality.
2. Credibility and Transparency.
3. Saudi Local Content (Localization).
4. Just in Time (JIT).
5. Social Responsibility.
6. Promoting the technical awareness (Training and Education).
7. Full satisfaction for both the customers and employees.

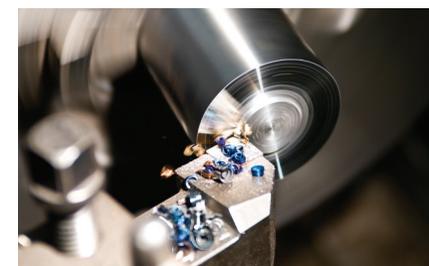
PNEUMATIC SOLUTIONS FACTORY

Since its inception in 2014, Pneumatic Solutions Factory (PSF) has become the leading supplier of **Pneumatic Cylinders, Crust Breaker Cylinders, Complete Compressed Air Systems and Nitrogen Generators.**

It is the first Pneumatic Cylinder manufacturing unit in Saudi Arabia in technical collaboration from **Parker Hannifin “The global leader in motion and control technologies”.**

With market conditions expected to witness a record boom throughout Saudi Arabia, we find ourselves in an enviable position to achieve just in time delivery of Pneumatic Cylinders from our facility located at **Modon Lake, 2nd Industrial City – Dammam – Saudi Arabia.** PSF also provides a range of services to cater to the needs of Compressed Air users.

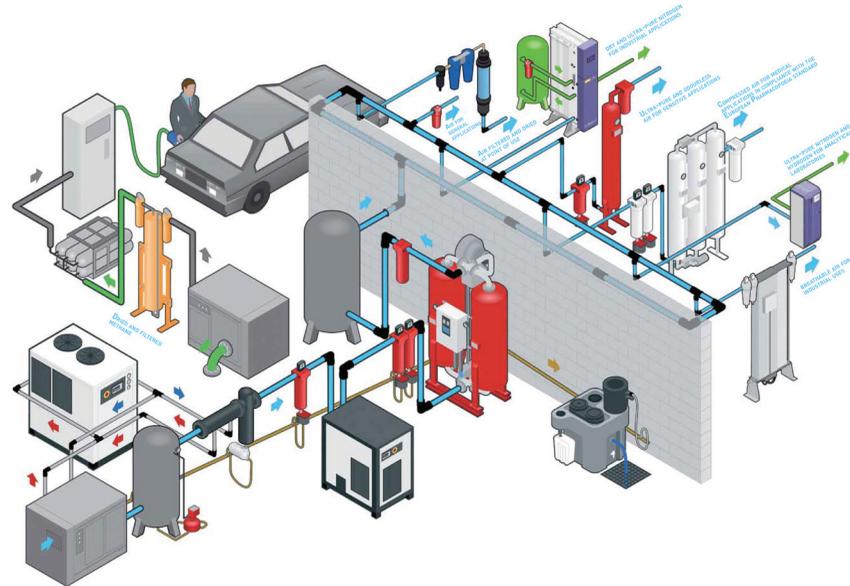
We undertake non-standard requirement of compressed air users, confirming PSF as a specialize company in this field. We incorporate modern technology with the skill and expertise of our employees to deliver the best products and services that satisfy if not excel our client’s expectation.



WHAT IS THE RELEVANCE OF CLEAN COMPRESSED AIR?

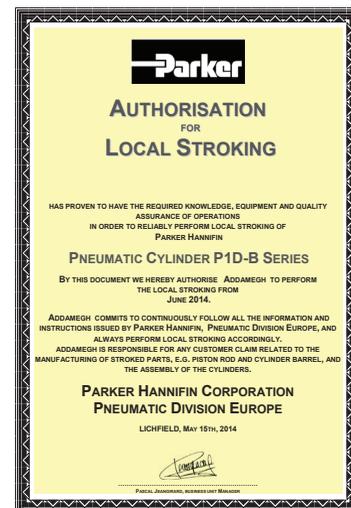
Global Standard Regulators recommend a degree of air quality to qualify for the conferment of ISO8573-1:2010 certifications. Industrial establishments are required to choose the right components that deliver and maintain air quality

in various processes of production. PSF acknowledges and adheres to stringent design and manufacturing standards to help industry achieve its quality control regimes.



AUTHORIZATION DIPLOMA & LABELING

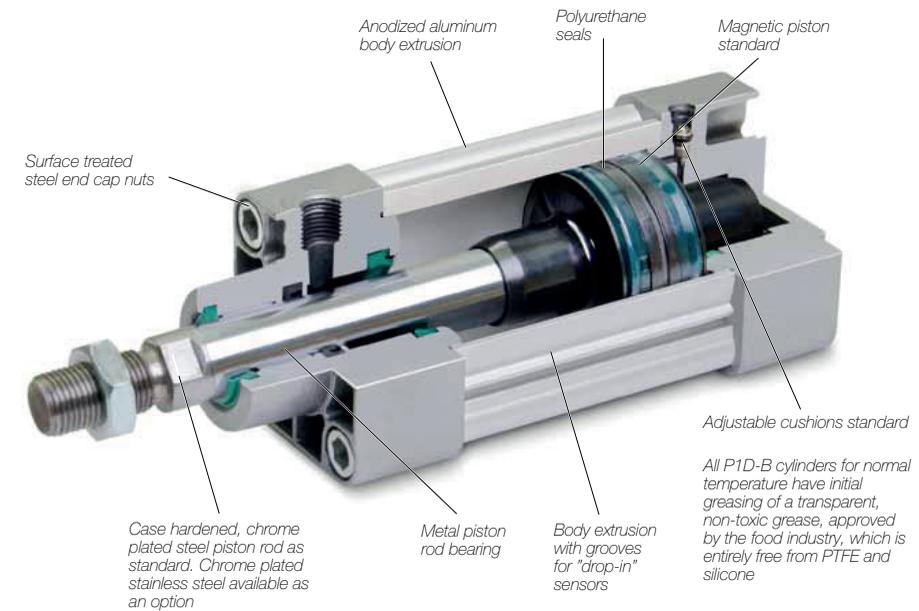
All Parker Hannifin cylinders are locally produced and will carry the “Made in KSA” tag for the first time with the same International quality and standards.



Made in KSA SA1

1.1 PRODUCTS: P1D-B PNEUMATIC CYLINDER

The P1D-B Series meets the specifications set out in the ISO 15552 quality standards. This translates into full interchangeability to any ISO 15552 cylinder anywhere around the globe.



GENERAL TECHNICAL DATA

Product type	Standard cylinder according to ISO 15662
Bore size	32 - 125 mm
Stroke length	5-2800 mm
Versions	P1D-B.MS
Cushioning	Adjustable pneumatic
Position Sensing	Proximity sensor
Installation	P1D cylinder and piston rod mountings
Mounting position	Any

OPERATING AND ENVIRONMENTAL DATA

Operating Medium	For best possible service life and trouble-free operation dry, filtered compressed air to ISO 8573-1:2010 quality class 3.4.3 should be used. This specifies a dew point of +3°C for indoor operation (a lower dew point should be selected for minus temperature operation and we recommend the use of an inline dryer) and is in line with the air quality from most standard compressors with a standard filter.
Operating Pressure	0.5 to 10 Bar
Ambient Temperature Standard Version	20°C to +80°C
Pre-lubricated	Further lubrication is normally not necessary. If additional lubrication is introduced it must be continued.
Corrosion Resistance	Resistance to corrosion and chemicals.

FEATURES

- ISO 15552 conformity
- Bore sizes 32-125 mm.
- Corrosion resistant design with barrel in anodized and stainless steel piston rod.
- Polyurethane seal technology.
- Adjustable air cushioning.
- Range of mounting available.
- Drop in global
- PSS-G sensors.
- Metal piston rod bearing.

1.2 CRUST BREAKER CYLINDER

Pneumatic cylinders are used in many general industrial applications but perhaps one of the most unique applications involving the production of primary aluminium in the metal industry. Tapped from electrolytic reduction cells (pots) during the electrolytic reduction of aluminium oxide, primary aluminium contains no alloying additives or recycled material metal. Production plants called smelters produce the material in lines comprising hundreds of pots. Each pot contains a liquid "bath," which is mainly cryolite, and acts as the system cathode.



Placing anodes (carbon blocks) in the bath and connecting the cathodes to an electric current starts the production process. The temperature difference between the bath and the surrounding setting causes a crust to form on top of the bath. Smelters must somehow create a hole through the crust so that the system dispenser can periodically dose the bath with alumina. This is where a chisel-edged pneumatic cylinder known as a "crust breaker" comes in handy. The device hammers a hole in the crust every two or three minutes. Large production facilities can contain over 300 pots each which have four or five crust breakers.



Fig 1 Thanks to an advanced continuity monitor, the Intelligent Crust Breaker pneumatic cylinder (chisel not shown) provides system feedback in the primary production of aluminium.

1.3 COMPRESSED AIR SYSTEM

Moisture is one of the major contaminants in compressed air systems. It occurs because water vapour present in the atmosphere is drawn into the compressor, where its concentration can rise dramatically as temperature increases. Of the ten

contaminants commonly found in a compressed air system, water vapour, liquid water and aerosols account for the majority of problems experienced by the compressed air user.

1.3.1 AIR COMPRESSOR

Hanshin is a premier Air Compressor manufacturing company, holding certified **Excellence Service Quality (ESQ)** with a 45 year of existence to its credit. Hanshin will continue to provide and meet the highest standard of Compressed Air expectations of each and every industry with the latest innovative Inverter model and Artificial Intelligence.



Series is the first of its kind built by very few Air Compressor manufacturer's in the world, demonstrate the innovation and ready to upheld advance technology where client can benefits from the variety of design and models.

The **CSMCS** system and **INSPECTROL** inspect & control controller built within the new GRH3

1.3.2 AIR DRYER & FILTRATION

The world's most advanced modular drying Systems, the Parker Dominick hunter PNEUDRI range of heatless and heat regenerative dryers have proven to be the ideal solution for many compressed air users worldwide in a wide variety of industries.

pre and post filtration can remove these contaminants and assure air quality in accordance with all editions of ISO8573-1 standards.



Adsorption dryers are designed for the removal of water vapour and not liquid water, water aerosols, oil, particulates or micro-organisms. Only by using Parker Dominick hunter OIL-X EVOLUTION

1.3.3 NITROGEN GENERATOR

Advanced technology Nitrogen Gas Generator for industry leading performance; a source of increased productivity, sustainability and profitability. With unique design and advanced energy saving technology at its core the market leading NITRO Source nitrogen gas generator requires less compressed air to generate more nitrogen.

Parker Dominick Hunter is first choice for innovative and reliable gas generation technology.



Together with substantially lower servicing costs, reduced downtime and a longer working life, it adds up to the most cost-efficient nitrogen supply available; significantly more affordable than traditional sources, and delivering huge savings over the lifetime of the generator.

1.3.4 TRANSAIR: ADVANCED AIR PIPE SYSTEM

Fast, flexible, and easily modified, Transair is the ideal Aluminium Pipe System for Compressed Air, vacuum, and inert gas applications. Durable and corrosion-resistant, Transair's lightweight construction outperforms traditional piping systems. End-users can reconfigure production layouts in minutes, not hours, and Transair's versatile, quick-connect interlocking system eliminates the need to thread or solder pipe. Transair also significantly reduces plant energy costs by increasing efficiency, reducing pressure drops, and eliminating leak.



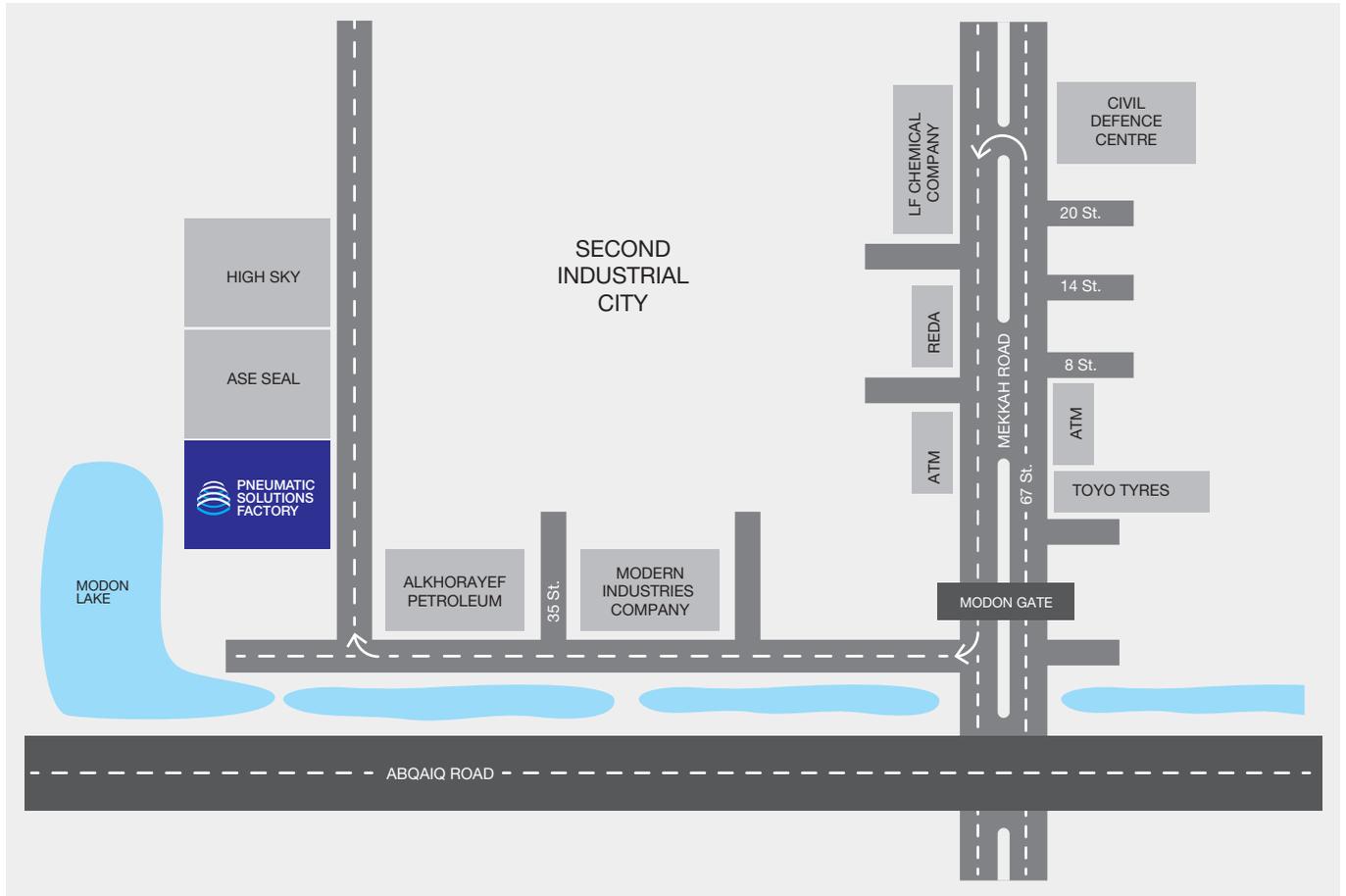
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