

CHAMPION



EASY PIPE LINE

20-158 mm Quick — Fit Piping System

EPL THE EFFICIENT ALTERNATIVE TO TRADITIONAL PIPING

The easy-to-install leak-free Champion EPL (Easy Pipe Line) system is your alternative to costly, labor-intensive steel pipe distribution systems for air, inert gas and vacuum lines. EPL gives to our customers streamlined installation, uncompromised reliable performance, effort-less maintenance, flexibility for future needs, and maximum energy efficiency at the lowest total cost.

Easier installation

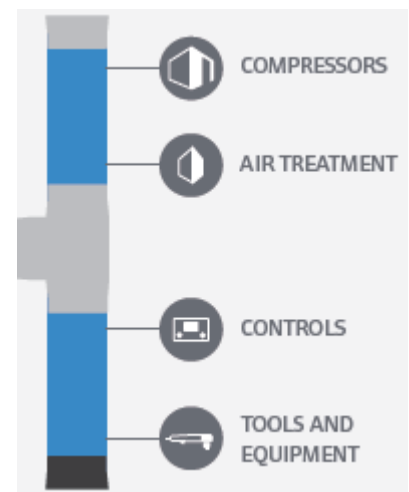
- No special tools needed and specialized labor required
- Easy, safe installation with minimal downtime
- Patented quick-fit locking system provides fast installation and long-term operation
- Up to 60% less assembly time required than traditional piping
- 15% less assembly time required than alternative competitive modular piping systems
- Fully tested and certified to 97/23/EC and ASME B31.3 standards

Lower total cost

- Low initial investment
- Fully customizable and great configuration flexibility
- Low energy waste system, due to leak-free and low pressure drop design
- Less maintenance – up to 40% less labor and material costs than steel piping systems
- Corrosion-resistant to prevent contaminants and pressure losses
- Reusable parts for easy updates

The ultimate link to efficiency

Leak-free EPL distribution systems are your most efficient choice for linking all aspects of Champion air system expertise – from highly efficient air compressor, air treatment, controls to reliable performance.



CHAMPION

LEAK FREE DESIGN, ENHANCED ENERGY MANAGEMENT

The innovative EPL system offers an airtight design that eliminates wasted energy and improves efficiency and reliability. It provides superior performance, reduces your overall investment and protects your connected equipment. Compatibility with compressor lubrication oil promotes long life.

High-quality aluminium pipe

- UV radiation resistant 6060 alloy-hardened aluminium pipe for indoor/ outdoor use is significantly lighter than competing steel alternatives, making it easier to handle
- Calibrated extrusion with consistent internal dimensions and smooth internal bore minimizes turbulence, reduces energy costs
- Corrosion-resistant for optimal air flow and air quality, without risk of rust particles or debris affecting sensitive equipment
- Flame-retardant powder coated finish is QUALICOAT® certified
- Standard blue painted in compliance with most industrial standards for

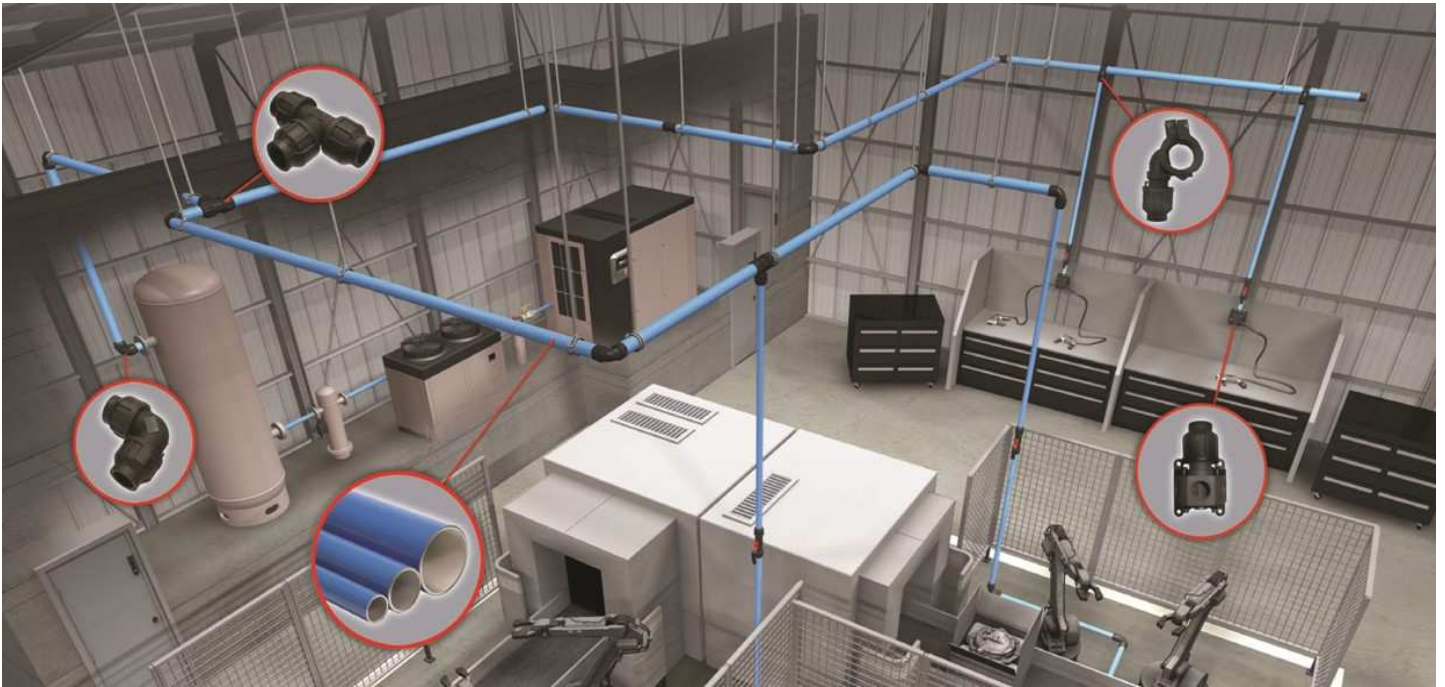
compressed air (other colors available on request).

- Ready-to-use piping eliminates need for special labor or special tools at time of assembly

Easy-to-install quick-connect fittings

- Innovative patented locking and tightening system provides quick, secure, trouble-free installation, reducing installation lead time by 60%
- Leak-free fitting designs promote uptime by minimizing routine maintenance and unexpected repairs
- Eliminating neck-downs or obstructions promotes smooth laminar flow, minimizing pressure drop
- Engineered polymer hand-tightened fittings for 20-63 mm diameter systems, and heavy-duty innovative-design aluminium fittings for 80-158 mm diameter systems, both allow for easy installation, removal and reuse





With a modular design and easy-to-assemble components, EPL piping system empowers you to easily plan and adapt your distribution piping network to the needs of your production environment.

Intuitive, easy to assemble. No special tools or qualified personnel are required to assemble leak-free EPL systems.

Seamless maintenance. Patented by Champion, the innovative fitting design simplifies piping system assembly and disassembly, minimizing downtime.

Tailored to your needs. An extensive variety of connectors, including those specifically developed for all Champion compressor and dryers ensure easy transition from current or competitive piping systems.

Standardized pipe length. Pipes is supplied in 5m length, eliminating special transportation arrangements to improve delivery times.

Versatile configuration. A wide variety of components and accessories combined with ease-of-assembly enables swift implementation with minimal downtime.

Preassembled productivity. Fully preassembled, ready to- use fittings reduce installation time and number of components to order and stock.

Reconfigurable. Reusable connectors minimize incremental expenses when adapting or expanding existing piping to changing requirements.

A ROBUST SOLUTION THAT PROVIDES LONG-TERM PRODUCTIVITY



Total cost of ownership is measured by a system's service life. The unique EPL system combines a proprietary Champion design, industry certifications and quality materials to provide system longevity and enhanced productivity.

Design precision for a perfect fit

The robust design of the fitting body, combined with a patented double O-ring and gasket design, ensures perfect alignment between pipe and fitting to ensure an exceptional seal.

Compliant with the most stringent design codes and certifications

Compliance with PED 97/23/CE, ASME B31.3 and CRN pressure guidelines for structural strength and fitting design assure that EPL solutions will satisfy all relevant standards for your production environment.

Reap the benefits of a unique leak-free design.

The innovative design of EPL fittings uses a series of precision-formed gasket, O-ring and compression components that grip and seal smooth aluminium pipes evenly around their circumference.

Customized run length without specially grooved or threaded ends eliminate pipe preparation labor and streamline final assembly.

OUR BRAND PROMISE OF TESTED-TOUGH RELIABILITY

In the lab and in the field, the EPL design has demonstrated the reliability, productivity and efficiency that are the hallmarks of all Champion products.

Innovation. Our investment in R&D has paid off with innovative ways to deliver energy-efficient air distribution systems. The patented EPL design delivers leak-free performance with the convenience of fast and economical assembly and reconfiguration.

Stringent testing. To assure certified testing compliance to the highest industry standards, we designed the EPL system to withstand 10 times the maximum allowable working pressure (MAWP) for the 20-63 mm range, and 5 times for the 80-158 mm range. Lab results show we exceeded that threshold by 20%! This provides you with the peace of mind that EPL is designed to the highest quality, reliability and safety standards for operation and installation.

A 10-year warranty. Our confidence in the proven performance of EPL solutions is expressed in our 10-year warranty, so that you can be equally confident of its reliability in your working environments.

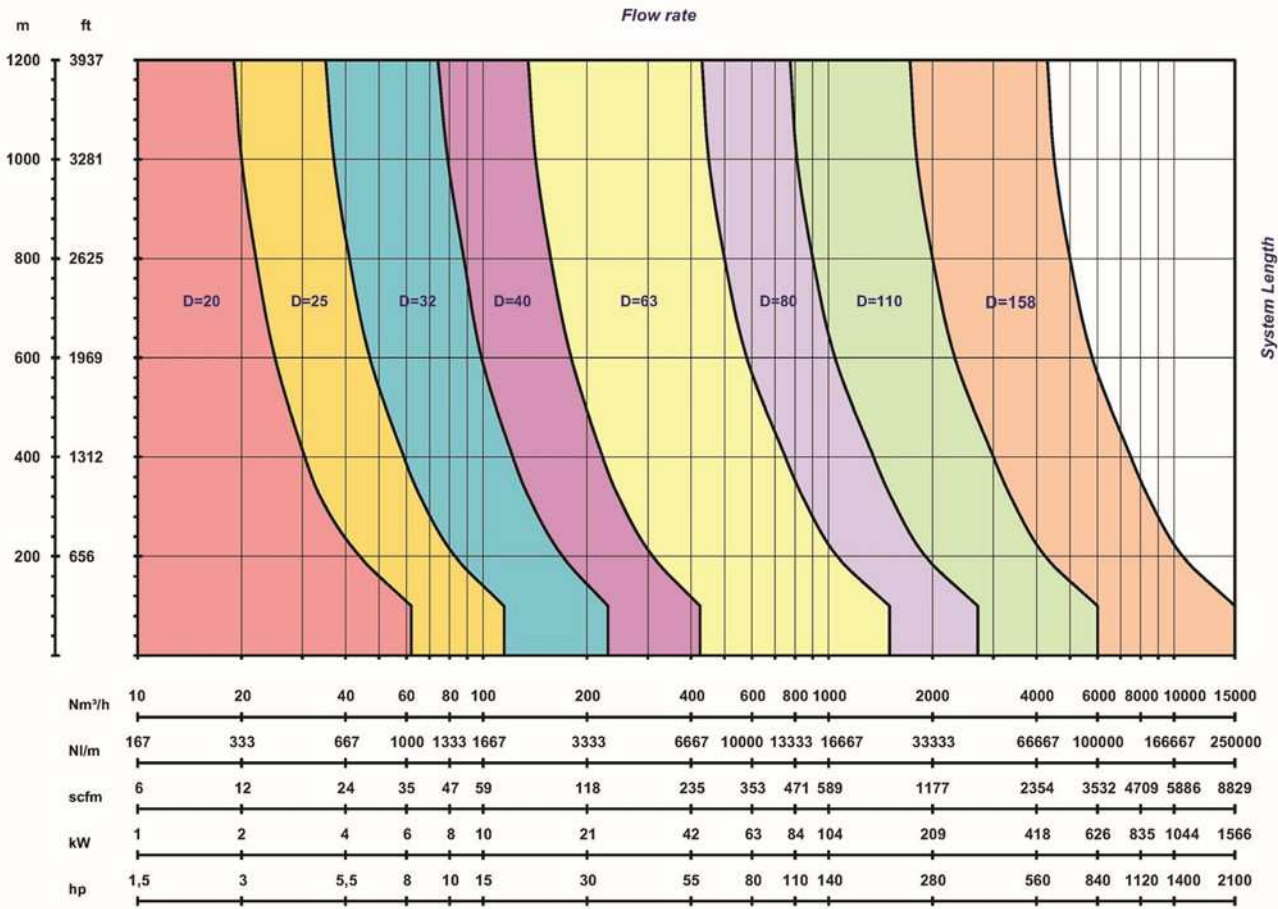
Outstanding customer experience. You can depend on Champion as your one-stop source for complete air solutions – from compressor to point of use. EPL components tailored to specific Champion compressors and air treatment modules are available from stock within 48 hours.

**Exceeds industry standard MAWP threshold by
20%!**

THE FLEXIBILITY TO SIZE ANY SYSTEM

EPL piping and fittings are available in eight standard sizes ranging from 20 mm to 158 mm, allowing for total configuration flexibility for your air distribution system.

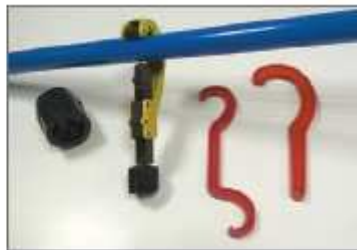
The charts below can assist you in designing a EPL piping system to meet your application's specific flow-rate needs, with a pressure drop of 5% or less.



EASY PIPE LINE FITTINGS

Description	Diameter (mm)							
	20	25	32	40	63	80	110	158
 Aluminium Pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 Socket	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 Union Socket	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
 Male Socket	½" ¾"	½" ¾" 1"	1" 1¼"	1" 1¼" 1½"	1½" 2"			
 Male Socket-Aluminium	½"	¾"	1"	1¼"	2"	3"	3"	3"
 Female Socket-Aluminium	½"	¾"	1"	1¼"	2"			
 90° Elbow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 90° Reducing Elbow						40 63	40 63 80	110
 90° Male Thread Elbow						3"	3"	3"
 45° Elbow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
 Male Wall Elbow-Brass	½" ¾"	½" ¾"						
 Female Wall Elbow-Brass	½"	½"						
 Cap	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 Cap With Terminal						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 Reducer		20	25	32	40	40 63	40 63 80	110

	Diameter (mm)		Description						
	20	25	32	40	63	80	110	158	
 Tee	✓	✓	✓	✓	✓	✓	✓	✓	
 Reducing Tee		20	25	32	40	40 63	40 63 80	110	
 Male Thread Tee						3"	3"	3"	
 Drop		20	20	20 25	20 25 32	20 25 32	20 25 32	20 25 32 40 63	
 Male Drop		1/2"	1/2"	1/2" 3/4"	1/2" 3/4" 1"				
 Female Drop		1/2"	1/2"	1/2" 3/4"	1/2" 3/4" 1"	1/2" 3/4" 1"	1/2" 3/4" 1"	1/2" 3/4" 1" 1 1/4" 2"	
 Valve-Brass	✓	✓	✓	✓	✓				
 Butterfly Valve						DN 80	DN 100	DN 150	
 Pipe-Flange Fitting Adaptor						DN 80	DN 100	DN 150	
 2 Port Point of Use Manifold Female	✓	✓	✓	✓	✓				



A wide range of mounting hardware and installation tools are available.

CHAMPION

