



SimplAir[®] Easy Pipe Line (EPL)

20-63 mm Quick-Fit Piping System

Reliability

Efficiency

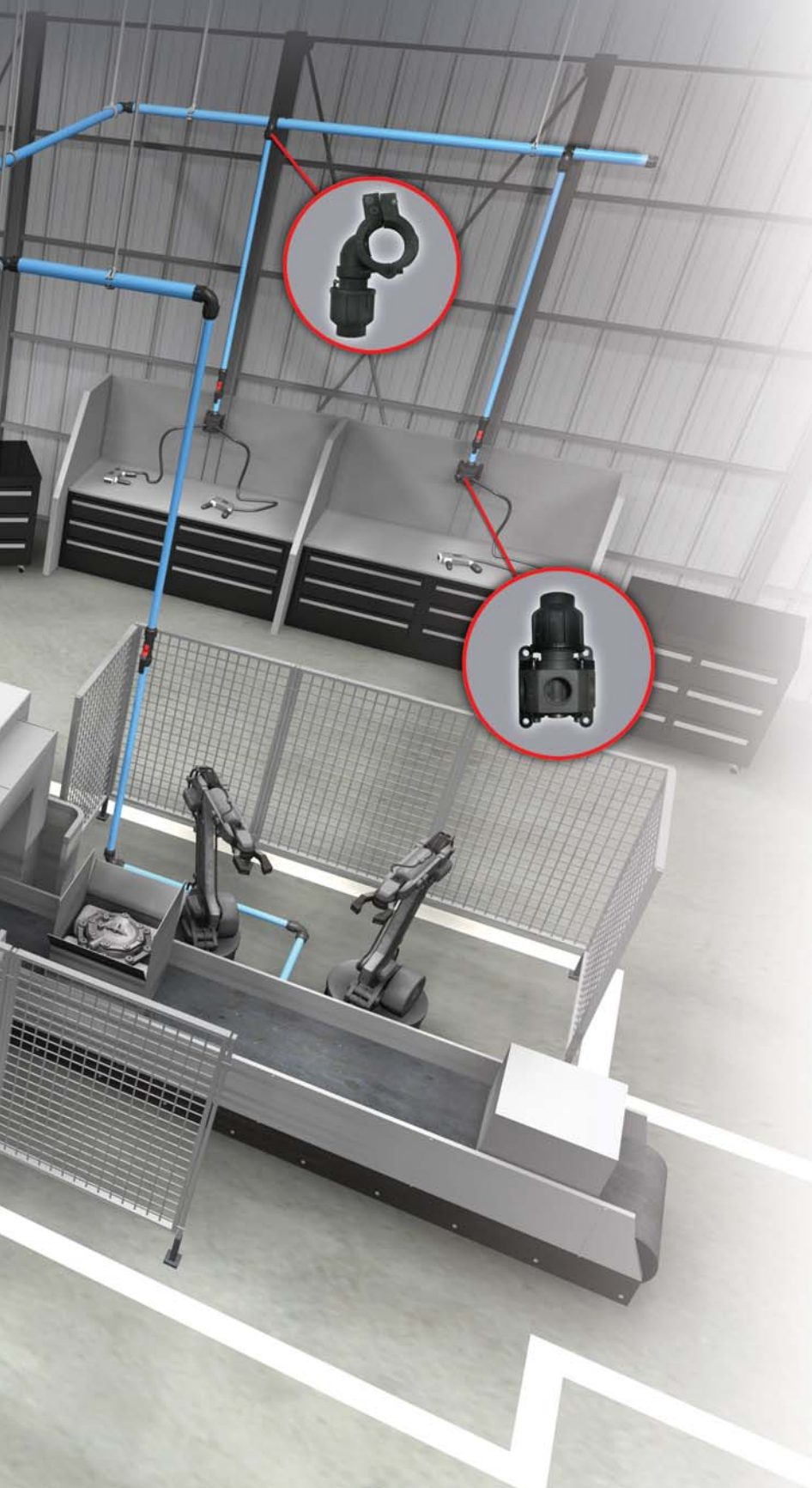
Productivity



Your Pipeline to Greater



Efficiency



Add Versatility and Reliability to All Your Systems

Benefits

- Leak-free service with air-tight O-ring fitting design.
- Rugged, industrial strength protection against the elements and corrosion with powder coated extruded aluminum pipe and engineered polymer fittings.
- Save energy, reduce pressure drops and maximize efficiency with the Ingersoll Rand SimpleAir® EPL Piping System's smooth internal bore.
- Quick and easy configuration and assembly with over 100 types of fittings, pipe diameters and valves to fit any application.
- Easily update or scale your installation to match demand with SimplAir EPL's quick-fit flexibility. Adapters are also available to expand existing SL and EL SimplAir systems.

Quick Specifications

- Available sizes: 20 mm, 25 mm, 32 mm, 40 mm and 63 mm
- Flow range: up to 23.3 m³/min (824 scfm)
- Maximum operating pressure: 13 bar g (190 psig)
- Standard operating temperature range: -10°C (+14°F) to +60°C (+140°F)

The Easy, Fast Way to Better Connections

The new Ingersoll Rand SimplAir Easy Pipe Line (EPL) quick-fit piping system is designed for efficient distribution of compressed air and other inert gases and vacuum systems. It provides fast and easy installation, improved performance and effortless maintenance.

Minimize Your Downtime

SimplAir EPL features light aluminum pipe coupled with a large range of available fittings and accessories for fast and easy connections to any type of pneumatic equipment. It does so with minimal pressure drop, without the risk of contaminating the compressed air with rust particles and without the need for any maintenance.

SimplAir EPL Versus Traditional Pipe

- The unique shape of the HPR polymer fittings, combined with the smooth surface of the pipe, provides full air flow capacity without restrictions or turbulence.
- Pressure drop through the system is dramatically reduced compared to traditional piping materials, such as galvanized or carbon steel.
- System life is designed to be longer than with traditional materials.
- Air leakage is completely eliminated, resulting in significant energy savings.
- A simple, patented locking and tightening system allows easy, on-site installation in a safe and fully-intuitive manner.



Connections You Can Count On

SimplAir EPL features a patented locking and tightening system with a tactile stop-point that ensures correct installation of the fitting. This unique system eliminates over-tightening, for a perfect coupling between components, and ensures that the joint is simple, safe and highly reliable.

Under the mechanical force exerted by the locking screw of the fitting on the stainless steel ring, the O-ring seal creates a radial force against the outside wall of the fully-supported pipe. This produces a very strong mechanical seal between the external diameter of the pipe and the fitting body, creating an airtight connection without any damage to the piping.

This unique system effectively prevents the leaks commonly caused by misalignment during installation of conventional systems.



The unique tactile stop-point system helps to prevent over-tightening and makes installation simple and reliable.



O-rings in each fitting form a tight radial seal against the pipe wall preventing air loss.

Reliability for Any Configuration

The SimplAir EPL aluminum pipe is resistant to corrosion and vibration and features unique interlocking components to easily configure your compressed air system.

Aluminum Pipe Makes the Difference

A high-quality finish ensures maximum resistance to corrosion, aggressive agents and UV rays.

Maximum Performance Under All Conditions

The SimplAir EPL system is not affected by normal vibration and maintains its optimal characteristics in terms of safety and performance, even at the maximum rated value.

Simple, Speedy Connections

The special design of the locking components allows easy dismantling of the system without any damage to the external surface of the pipe, which can be easily removed from the fitting and may be modified or reused again.

No Tools Required

The fittings can be tightened by hand without a special wrench.





Union Nut

Clip Ring

Bushing

O-ring Gasket

Locking System

Body



Valves



Sockets



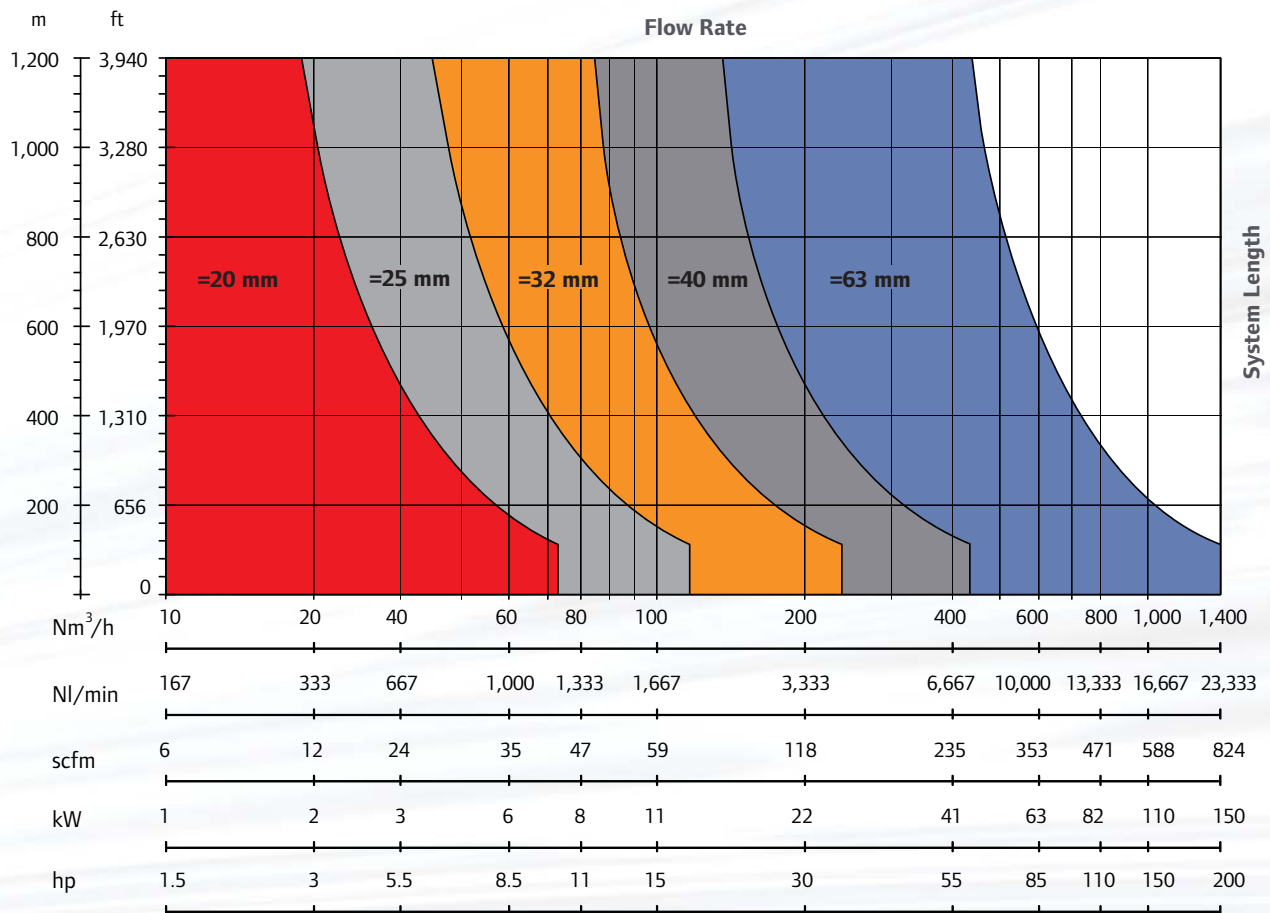
Manifolds

Wide Range of Sizes to Meet Your Needs

The seamless extruded aluminum pipe, which is supplied with dimensional specifications according to global standards, is available in 20 mm, 25 mm, 32 mm, 40 mm and 63 mm diameters.



Choosing The Right Diameter Pipe



For reference only. Assumes 6.9 bar g/100 psig closed loop system.

As illustrated in the sizing chart above, with multiple pipe diameters, SimplAir EPL can accommodate a broad range of system flows while maintaining a pressure drop of less than 5%.

Complete Solutions for Your Air System

Ingersoll Rand is committed to serving you 24 hours a day, seven days a week with innovative and cost-effective installation services as well as with a broad line of accessories that will keep your system running at peak performance.

Installation Solutions

Count on Ingersoll Rand for all your air system installation requirements.

- Air system audits
- System design and installation services
- Receiver tanks



Air Treatment and Condensate Management

Ingersoll Rand air treatment solutions improve system reliability and reduce maintenance costs by preventing oil, water and other contaminants from passing downstream.

- Filters
- Refrigerated dryers
- PolySep Oil Water Separators
- Air line filters, regulators and lubricators
- Desiccant dryers
- Drains



Flow and Pressure Control

Advanced, flexible Ingersoll Rand controls increase system productivity, efficiency and reliability.

- System controllers
- Flow controllers



Material Handling

By using Ingersoll Rand solutions, you can expect superior ergonomics that increase productivity, improve operator performance and avoid labor downtime due to health or safety issues.

- Balancers
- Hoists
- Winches
- Jibs
- Workstation cranes
- Handling devices



Manufacturing and Maintenance

Trust Ingersoll Rand to help you improve your productivity and quality with a broad spectrum of tools for your maintenance and assembly requirements.

- Air motors
- Impacttools™
- Grinders and sanders
- Screwdrivers and nutrunners
- Drills



SimplAir EPL Fittings

	Description	Diameter				
		20 mm	25 mm	32 mm	40 mm	63 mm
	Aluminum Pipe	•	•	•	•	•
	Socket	•	•	•	•	•
	Union Socket	•	•	•	•	•
	Male Socket	1/2" 3/4"	1/2" 3/4" 1"	1" 1 1/4"	1" 1 1/4" 1 1/2"	1 1/2" 2"
	Male Socket-Aluminum	1/2"	3/4"	1"	1 1/4"	2"
	Female Socket-Aluminum	1/2"	3/4"	1"	1 1/4"	2"
	90° Elbow	•	•	•	•	•
	45° Elbow	•	•	•	•	•
	Male Wall Elbow-Brass	1/2" 3/4"	1/2" 3/4"			
	Female Wall Elbow-Brass	1/2"	1/2"			

Specifications

- Max operating pressure: 13 bar g (190 psig)
- Standard operating temperature range: -10°C (+14°F) to +60°C (+140°F)

Applications

- Fluid transportation for industrial plants, compressed air pipelines, food service, vacuum, and other gases such as nitrogen and argon

Pipe Material











- Aluminum alloy according to EN AW-6060 extruded and calibrated

Thermal Treatment

- Drained "T6"

Finishing

- QUALICOAT RAL 5015 powder painting (flame-retardant)

Description	Diameter				
	20 mm	25 mm	32 mm	40 mm	63 mm
 Cap	•	•	•	•	•
 Reducer		20	25	32	40
 Tee	•	•	•	•	•
 Reducing Tee		20	25	32	40
 Drop		20	20	20 25	20 25 32
 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"
 Valve-Brass	•	•	•	•	•
 3 Port Point of Use Manifold Male and Female	1/2"	1/2" 3/4"			
 2 Port Point of Use Manifold Male and Female	1/2"	1/2" 3/4"			

Fittings Features

- Quick and easy connection
- Safe and reliable to use
- Adapters available to expand existing SimplAir SL and EL systems
- Full size air flow
- Interchangeability and reuse
- NPT and BSP connections available
- NBR O-ring seals (VITON on request)

These products are classified as auto-extinguished and completely recyclable, flame-proof and in accordance to all safety and health CE standards.





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