



IR Ingersoll Rand®

SimplAir® EPL
20-158 mm Quick-Fit Piping System

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.

Minimise Your Downtime

SimplAir EPL features light aluminium 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 polymer fittings (aluminium from Ø 80 up to 158), 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.
- 10 years warranty for piping and fittings
- 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.
- Regarding installation time and labour costs, we have a reduction of 40% comparing to conventional piping.





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



Easy to assemble, even in the large diameters the assembly is very simple, in fact there is no need to work or chamfer the pipe and the insertion in the fitting is clearance free, without any interference with the tightening system.



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



The double guide given by the aluminium terminal and the inner plastic ring provides great support and stability to the pipe.

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

Reliability for Any Configuration

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



Aluminium Pipe Makes the Difference

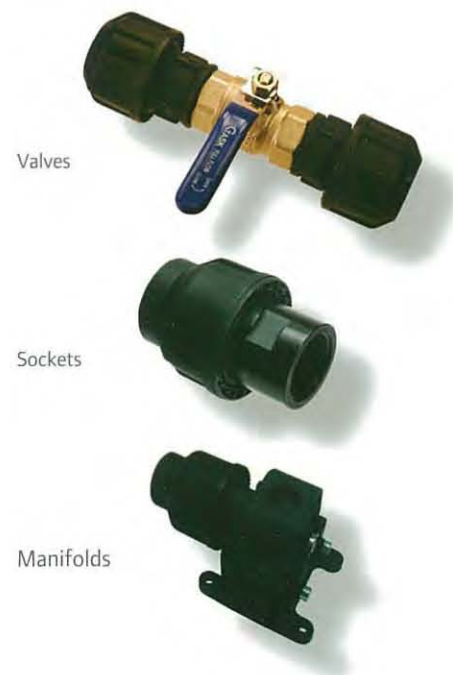
A high-quality finish ensures maximum resistance to corrosion, aggressive agents and UV rays.

Maximum Performance Under All Conditions

The SimplAir EPL system comply with PED, ASME, CRN directives 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 even for 80-158 diameters where you can insert and remove the pipe in the radial way.

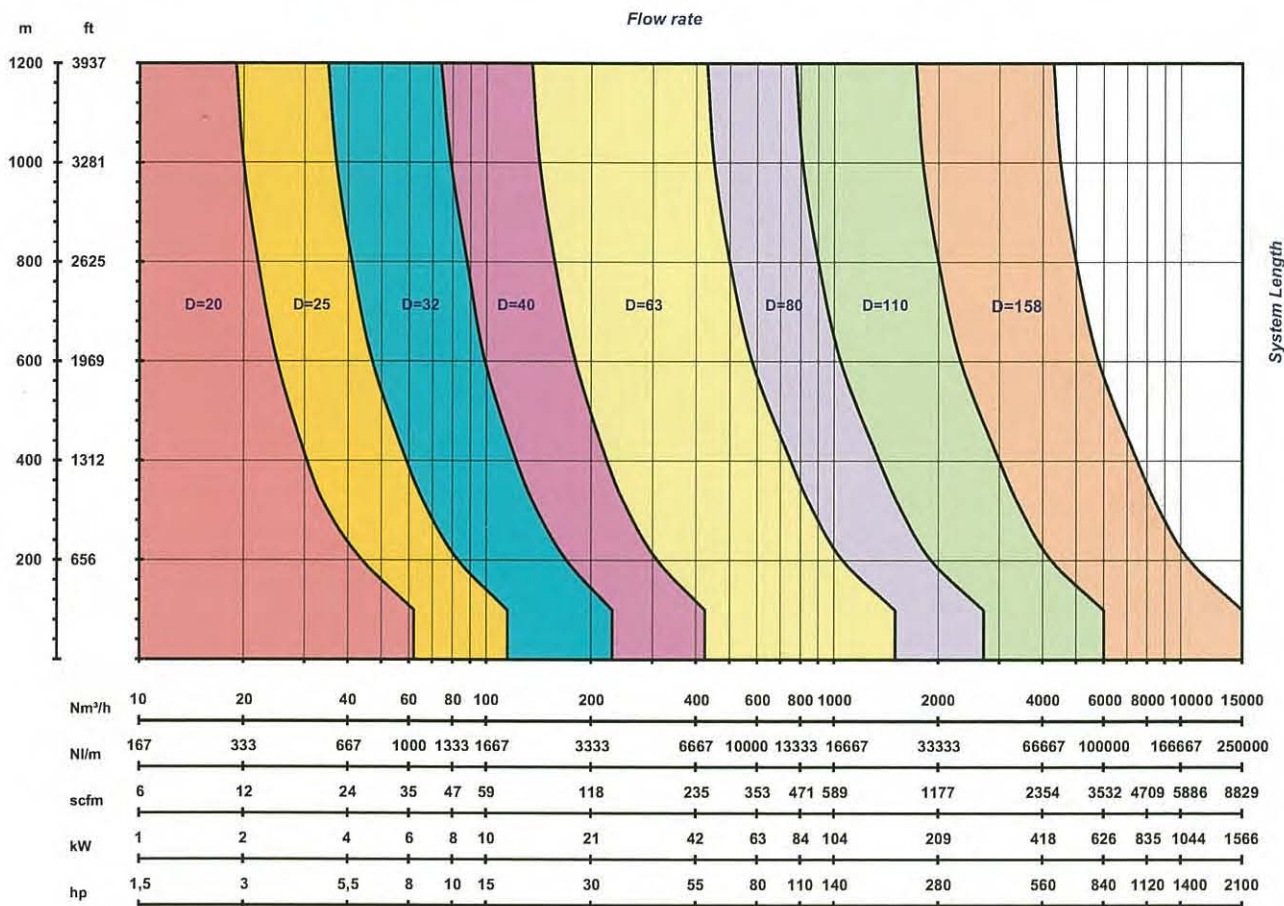


Wide Range of Sizes to Meet Your Needs

The seamless extruded aluminium pipe, which is supplied with dimensional specifications according to global standards, is available in 20 mm, 25 mm, 32 mm, 40 mm, 63 mm, 80 mm, 110 mm and 158 mm diameters.



Choosing The Right Diameter Pipe For Open Systems (Flow decreases 2 x for closed ones)



For reference only. Assumes 6.9 barg/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%.

SimplAir EPL Fittings

Description	Diameter (mm)								
	20	25	32	40	63	80	110	158	
 Aluminium 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-Aluminium	1/2"	3/4"	1"	1 1/4"	2"	3"	3"	3"	
 Female Socket-Aluminium	1/2"	3/4"	1"	1 1/4"	2"				
 90° Elbow	✓	✓	✓	✓	✓	✓	✓	✓	✓
 90° Reducing Elbow						40 63	40 63 80	110	
 90° Male Thread Elbow						3"	3"	3"	
 45° Elbow	✓	✓	✓	✓	✓				
 Male Wall Elbow-Brass	1/2" 3/4"	1/2" 3/4"							
 Female Wall Elbow-Brass	1/2"	1/2"							
 Cap	✓	✓	✓	✓	✓	✓	✓	✓	✓
 Cap With Terminal						✓	✓	✓	
 Reducer		20	25	32	40	40 63	40 63 80	110	

Specifications

- Max operating pressure for 25 mm to 110 mm: 14 barg (203 psig)
- Max operating pressure for 158 mm: 12 barg (174 psig)
- Standard operating temperature range: -10°C (+14°F) to +60°C (+140°F)

Applications

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

Pipe Material

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

Thermal Treatment

- Drained "T6"

Finishing

- QUALICOAT RAL 5015 powder painting (flame-retardant)

Description	Diameter (mm)								
	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	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	✓	✓	✓	✓	✓				



3 Port Point of Use Manifold Female 3/4" BSP + 3 x 1/2" Female BSP

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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