

KAESER
COMPRESSORS

Built for a lifetime.™



Compressed Air Distribution System

SmartPipe™

from 3/4" to 8"

kaeser.com

SmartPipe™

Compressed Air Piping

Kaeser's SmartPipe is a modular compressed air distribution system that provides both lower installation costs and lower long term operating costs. It offers an excellent choice for compressed air and inert gas distribution for pressures up to 232 psig. SmartPipe is also ideal for vacuum up to 29.5" Hg.

Innovation you can trust

With a cutting edge research and development team committed to building industry-leading products, Kaeser continues to deliver better solutions to meet our customers' compressed air needs. Kaeser's expertise and world-wide reputation for superior reliability and efficiency offer great performance and peace of mind.

Rugged reliability

Kaeser's SmartPipe is designed to meet our rigorous "built for a lifetime" standard. Its smooth interior and no-leak fittings ensure low pressure drop and prevent contaminant build-up. Using SmartPipe with Kaeser's line of rotary screw compressors and air treatment components will give you years of energy efficient operation.

Piping selection

Piping selection directly affects the three key elements of every compressed air system: flow, pressure, and air quality. Poor choices in pipe materials, diameter, and layout cause flow restrictions, often resulting in significant pressure drop. Pressure drop is the main cause of increased energy consumption and underperforming air driven tools and equipment.

Installation costs

Choices in piping also directly impact installation costs. Heavier materials cause fatigue and slow work, especially in overhead installations. The types of fittings used must also be considered. Some connection types cause pressure drop, need special tools, and take more time to install. The combination of lightweight materials and connectors dramatically reduces labor and installation time for SmartPipe, especially in overhead installations.



KAESER

KAESER

CSD 125 SIGMA Q4

What's so smart about SmartPipe?

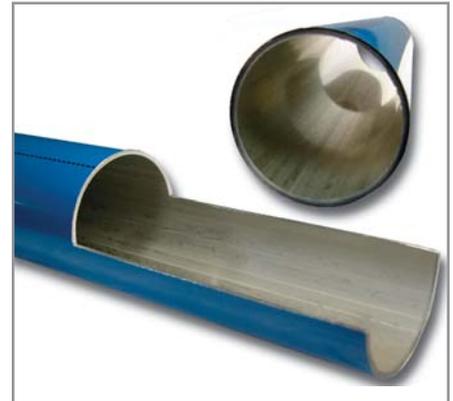
Optimum flow and air quality

The smooth calibrated aluminum construction of SmartPipe has a low coefficient of friction, providing the best possible laminar flow. Full bore fittings further minimize pressure drop for optimum flow and energy efficiency. Leak free connectors prevent air loss and wasted energy. Fittings are easy to install and are contractor-friendly.

SmartPipe is ideal for installations requiring the highest quality air. Aluminum material will not rust or corrode. Further, it has no rough surfaces or interior restrictions that accumulate contaminants. The smooth interior with full bore design allows them to flow to your dryers and filters for efficient removal.

Wide scope of supply

SmartPipe is available in nine (9) sizes from 3/4" up to 8" and is perfect for use as headers, branch lines, and drops to point of use.



Inside remains smooth and clean with no contaminant build up or pressure loss. Shown here is a 5-year cutaway.

SmartPipe+

Nominal Outside Ø (in.)	Nominal Outside Ø (mm)
3/4	20
1	25
1-1/2	40
2	50
2-1/2	63

SmartPipeXL

Nominal Outside Ø (in.)	Nominal Outside Ø (mm)
3	80
4	100
6	150
8	200



Push to connect fittings up to 2½" (63 mm).

The SmartPipe line includes all the accessories you need for a top quality installation:

- straight unions
- elbows and tees
- reducing fittings
- gooseneck drops
- ball valves
- butterfly valves
- quick assembly brackets and hangers
- snap-shut pipe clips
- expansion and flex hoses
- variety of ISO 4414/EN983 compliant safety couplers



Rigid aluminum calibrated pipe ensures clean air and optimum flow rate performance.



Bolt-on connectors for 3" (80 mm) and larger.



Pipe material selection

Common compressed air piping materials with their advantages and disadvantages.

Material	Advantages	Disadvantages
Black Iron	Moderate material costs Readily available in multiple sizes	Labor intensive installation May rust and leak Rough inside promotes contaminant build up and creates pressure drop
Galvanized Iron	Moderate material costs Readily available in multiple sizes Some rust protection	Labor intensive installation Rough inside promotes contaminant build up and creates pressure drop May rust at joints and leak Often only exterior is coated
Copper	No rust, good air quality Smooth interior-low pressure drop	Requires quality brazing to prevent leaks Susceptible to thermal cycling Installation requires open flame
Stainless Steel	No rust, good air quality Smooth interior-low pressure drop	Labor intensive installation Expensive materials
PVC	Lightweight Inexpensive	Safety In certain areas, not compliant with code



Materials

SmartPipe components are non-flammable and 100% recyclable. Piping is constructed of 6063-T5 calibrated alloy aluminum and is blue powder-coated outside. Pipe, fittings, and valves are guaranteed silicone free.

The 3/4" - 2 1/2" connectors are compression type, manufactured in aluminum alloy ASTM B.26-356.0. The fitting bodies are black cathodolysis coated. The connectors are the same type throughout the 3/4" - 2 1/2" SmartPipe+ range.

The 3" - 8" connectors are quick-connect bolt-on design. They are manufactured in aluminum or steel.

SmartPipe+ (3/4" - 2 1/2")

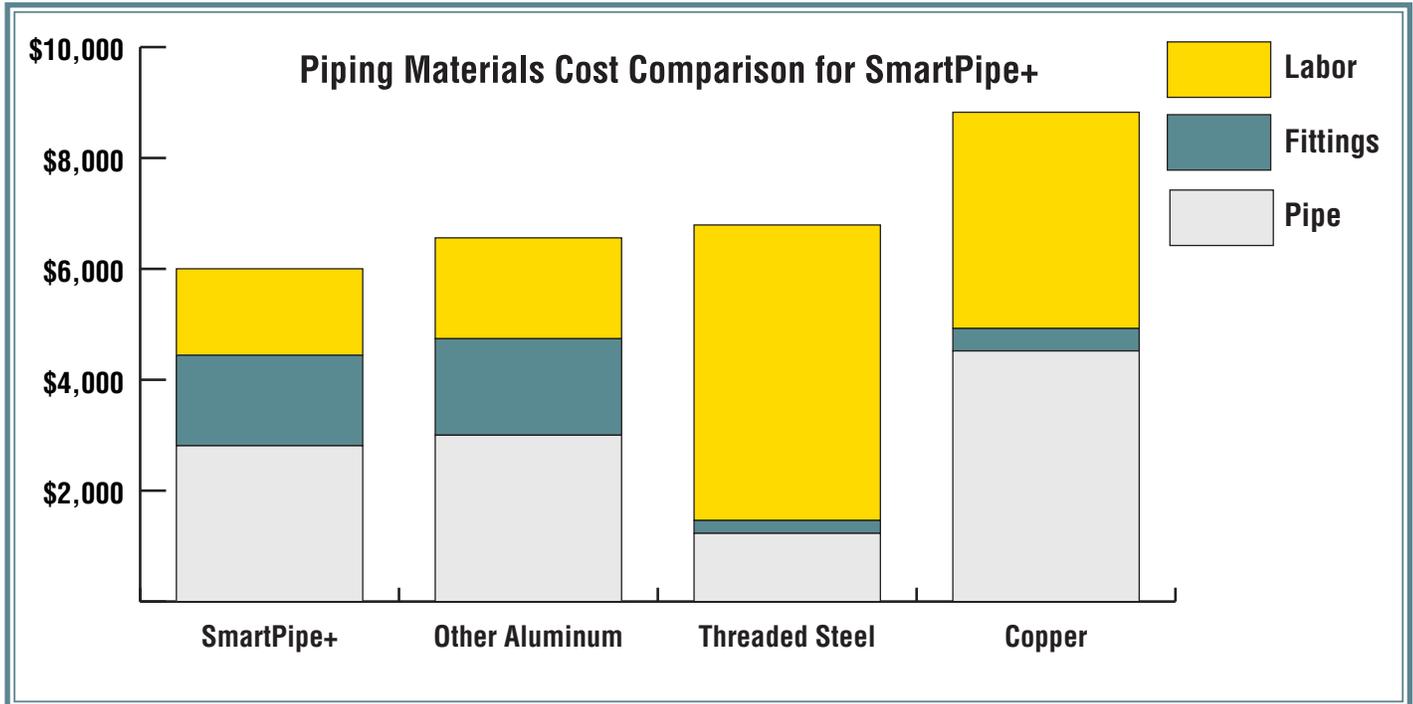


SmartPipeXL (3" - 8")

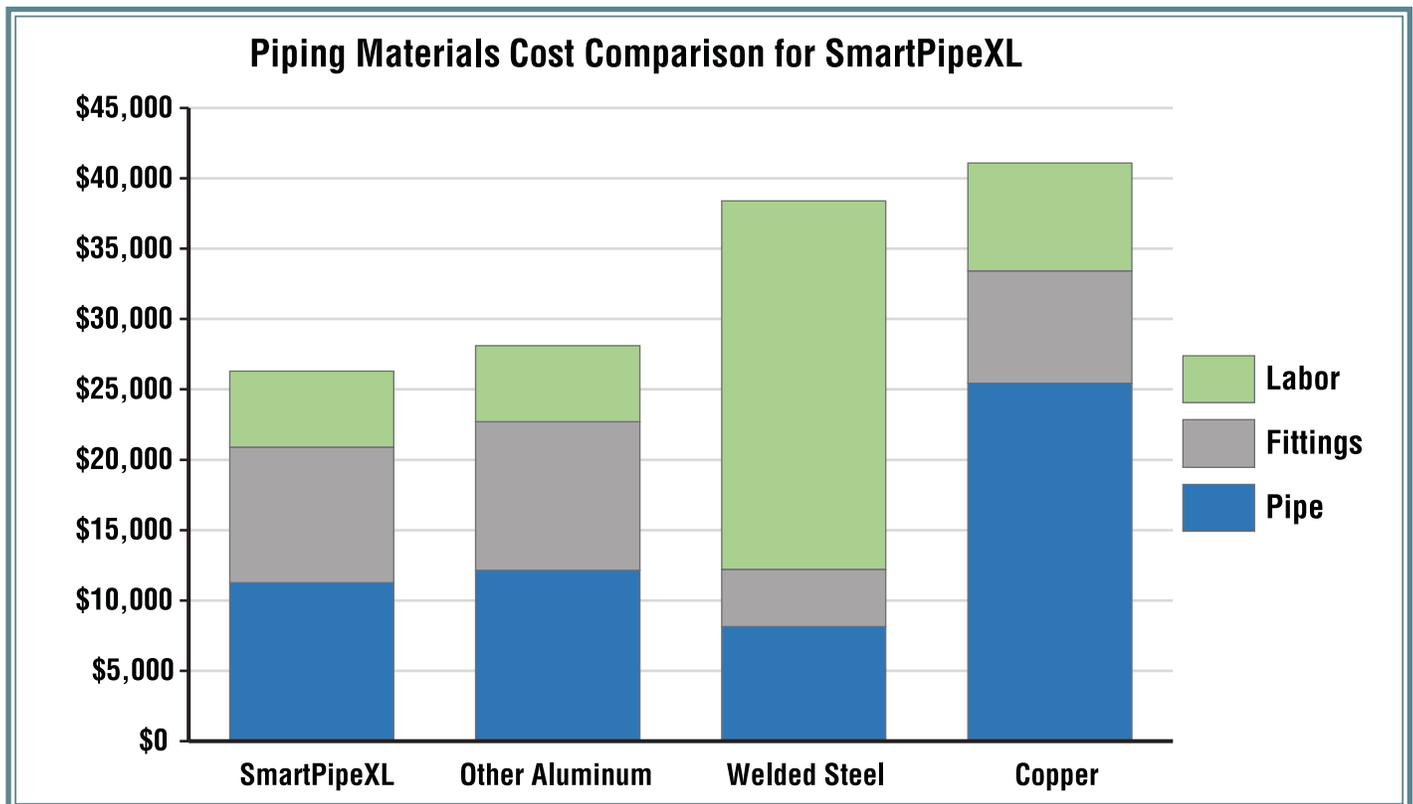


Cost comparison

When you factor in material and labor costs, SmartPipe offers a clear savings advantage.



Based on: 500 feet of 2" pipe, sixteen elbows, seven tees, and ten couplings. Labor rates calculated by using MCAA labor with rates factored at 0.70.



Based on: 1000 feet of 4" pipe, 25 elbows, and 20 tees. Labor rates calculated by using MCAA labor with rates factored at 0.70.

SmartPipe Benefits At a Glance

- Installs faster than other common piping
- No specialized trades needed
- No threading, welding, or brazing pipe
- Simple mounting and connecting hardware
- Can connect to existing systems with other pipe types
- Easy to add on to or disassemble for your changing needs
- Compression style valves and fittings 2½" and below
- Bolt-on style fittings 3" and above
- 10-year warranty



**KAESER
COMPRESSORS**

Built for a lifetime.™



www.kaeser.com

Kaeser Compressors, Inc.
511 Sigma Drive
Fredericksburg, VA 22408 USA
Telephone: 540-898-5500
Toll Free: 800-777-7873
info.usa@kaeser.com

Kaeser Compressors Canada Inc.
3760 La Verendrye Street
Boisbriand, QC J7H 1R5 CANADA
Telephone: (450) 971-1414
Toll free: (800) 477-1416
info.canada@kaeser.com

**Kaeser Compresores de México
S de RL de CV**
Calle 2 #123
Parque Industrial Jurídica
76100 Querétaro, Qro.
Telephone: 01 (442) 218 64 48
sales.mexico@kaeser.com

**Kaeser Compresores de
Guatemala y Cia. Ltda.**
Calz. Atanasio Tzul 21-00, zona 12
El Cortijo II, Bodega 501
01012-Guatemala City
Telephone: +502 2412-6000
info.guatemala@kaeser.com

