

AQUARIUM PIPING SYSTEMS



Xirtec140
PVC PROCESS PIPING SYSTEM

Duratec® Duraplus™
AIRLINE SYSTEM *air-line*



AQUARIUM FEATURE PIPING SYSTEMS

WATER & AIR PIPING SYSTEMS

- Xirtec140 PVC Piping System
- Thermoplastic Valves
- Duraplus AirLine Piping System
- Duratec AirLine Piping System


IPEX

We build tough products for tough environments®

IPEX – Your Corrosion-Proof Solution

IPEX offers a complete line of thermoplastic products for aquarium applications. These environments require piping systems that will not contaminate the water feature through corrosion or microbial particulate fouling.

IPEX offers a reliable single-source for pipe, valves, fittings and accessories.

- Corrosion Resistance
- Outstanding Chemical Resistance (salt water, filtration media)
- Low Installation and Maintenance Costs
- Inert Material (will not contaminate water or harm aquatic life)

Available in 1/2" through 48" sizes and various pressure ratings, IPEX has the right system for every size aquarium project. Thermoplastic pipe has been successfully used in aquariums world wide for many years.



Water Distribution and Collection – Pipe, Valves & Fittings



Xirtec¹⁴⁰ PVC Systems – 1/2" to 48"

Xirtec PVC is fundamentally ageless and possess outstanding resistance to a wide range of chemicals, including filtration media, salt solutions and animal bi-products. It will not rust, pit, scale, corrode or allow microbial growth on either the interior or exterior surfaces even in submerged water applications. These non-corroding properties ensure improved flow, lower maintenance costs, no particulate contamination and longer performance life of the system.

PVC is an inert material and is commonly used for potable water distribution. This ensures that there will be no harmful material leaching into the process water that may harm its inhabitants.

PVC is lightweight, easily handled, stored, cut and joined utilizing a convenient solvent cement weld method, mechanical joints such as flanges, or a gasket push-fitting bell and spigot joint for pipe diameters above 24".



VXE, VKD and FK Valves – 1/2" to 12"

The VXE true union PVC ball valve features an ultra-compact double block design and full port bi-directional operation. Deep threads and thick o-ring seals contribute to the overall strength, while the smooth machined ball and stem contribute to quality and smooth operation.

The VKD features all the benefits of the VXE but also includes enhanced mounting features for easy mounting and actuation, spring loaded lock out handle with pad lock lockout, and a dual block mechanism to ensure that the union nuts stay on tight.

The glass filled PP body, PP disk and SS non-wetted stem of the FK butterfly valve ensure that it is resistant to corrosion, impact and harsh environments. The valve has optional molded in place SS lugs and features an integral mounting flange for easy actuation. The handle includes a position indicator and a spring loaded lock out with pad lock lockout.

Both the VXE and VKD valves feature tools built into the handle for ease of servicing and disassembly in the field. These valves are part of our complete systems of pipe, valves and fittings, engineered and manufactured to IPEX strict quality, performance and dimensional standards.

IPEX offers a complete PVC valve offering, for all aquatic life support systems, to complement the VXE, VKD and FK valves. These include:

- 3-Way Ball valves for mixing/diverting
- Check valves for back flow prevention and isolation
- Strainers for particulate filtration (including animal bi-products)
- Diaphragm valves for throttling and on/off service in high particulate fluids

Pneumatic and Electric actuation is available for the VKD ball and FK butterfly valves as well as a variety of other quarter turn valves. This allows for efficient and reliable self regulating, fully automated aquatic systems.



Air Supply Piping Systems



Duraplus™ AirLine ABS Piping System – 1/2" to 12"

Efficient and effective aquarium aeration is an important consideration. ABS is a ductile, lightweight, electrically non-conductive material that utilizes a solvent cement weld method for installation. ABS features a smooth bore that is resistant to corrosion, pitting, or scale build up, ensuring efficient, clean air distribution for aquarium aeration and pneumatic equipment supply throughout the life of the system. The outstanding ductility, impact resistance, and low temperature property retention ensure that the system will function properly in a variety of aquatic conditions. Duraplus Air-Line also provides the strength and flexibility needed for submerged water applications where movement, vibration and corrosion may be an issue.



Xirtec®140 PVC Systems – 1/2" to 48"

Product Description	Configuration/Measurement	Size Range
Xirtec PVC Pipe	Schedule 40 & 80	1/2" to 24"
Xirtec PVC Pipe	SDR	1/2" to 48"
Xirtec PVC Fittings	Schedule 40 & 80	1/2" to 24"

VXE, VKD and FK Valves – 1/2" to 12"

Product Description	Pressure Rating	Size Range
VXE PVC Compact True Union Ball Valve	up to 232 psi	1/2" to 4"
VKD PVC Compact True Union Ball Valve	up to 232 psi	1/2" to 4"
FK PVC Butterfly Valve	up to 150 psi	1-1/2" to 12"

Duratec® AirLine HDPE-AL-HDPE – Pipe, Fittings & Valves 3/8" to 1"

Duratec Airline is an innovative compressed air and inert gas piping product that uniquely combines all of the benefits of plastic and metal in one pipe. Constructed of an inner and outer layer of HDPE permanently bonded to an aluminum core, Duratec not only extends the life of the system, but significantly reduces leakages, labor, installation and operating costs.

Duratec flexible compressed air pipe can be easily bent by hand and comes in convenient 100ft or 300ft coils. This allows for installations with minimum joints, which will not only reduce costs but increase efficiency. Duratec utilizes mechanical joint, nickel plated fittings, or optional SS fittings, that are corrosion resistant and easy to install.

With HDPE inner and outer layers, Duratec boasts an excellent resistance to salt solutions as its smooth bore is resistant to microbial growth, pitting, scaling, or corroding for optimal system performance, without risk of contamination, throughout the systems entire operating life.

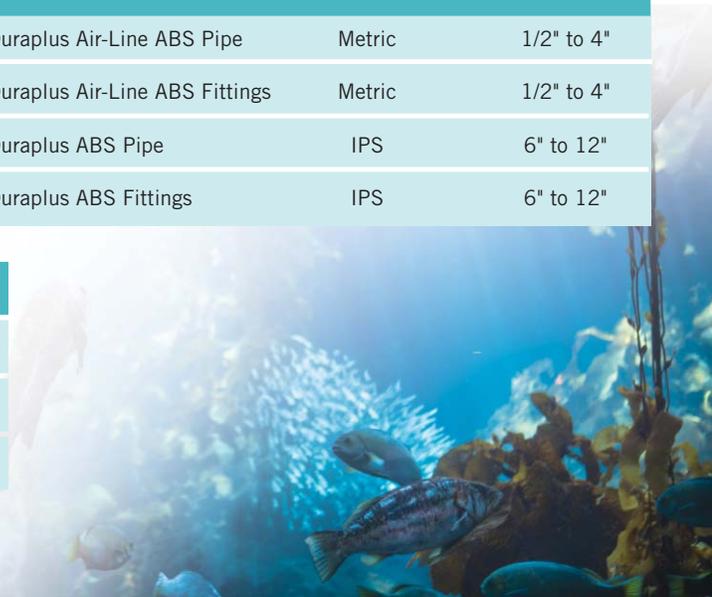


Duratec® Airline HDPE-AL-HDPE – 3/8" to 1"

Product Description	Configuration/Measurement	Size Range
Duratec Airline Pipe	HDPE-AL-HDPE	3/8" to 1"
Duratec Airline Fittings	Nickle Plated Brass & SS	3/8" to 1"

Duraplus™ Airline ABS Piping System – 1/2" to 12"

Product Description	Configuration/Measurement	Size Range
Duraplus Air-Line ABS Pipe	Metric	1/2" to 4"
Duraplus Air-Line ABS Fittings	Metric	1/2" to 4"
Duraplus ABS Pipe	IPS	6" to 12"
Duraplus ABS Fittings	IPS	6" to 12"



SALES AND CUSTOMER SERVICE

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About the IPEX Group of Companies

As leading suppliers of thermoplastic piping systems, the IPEX Group of Companies provides our customers with some of the largest and most comprehensive product lines. All IPEX products are backed by more than 50 years of experience. With state-of-the-art manufacturing facilities and distribution centers across North America, we have earned a reputation for product innovation, quality, end-user focus and performance.

Markets served by IPEX group products are:

- Electrical systems
- Telecommunications and utility piping systems
- Industrial process piping systems
- Municipal pressure and gravity piping systems
- Plumbing and mechanical piping systems
- PE Electrofusion systems for gas and water
- Industrial, plumbing and electrical cements
- Irrigation systems
- PVC, CPVC, PP, PVCO, ABS, PEX, FR-PVDF, NFRPP, FRPP, HDPE, PVDF and PE pipe and fittings (1/2" – 48")

Products manufactured by IPEX Inc. and distributed in the United States by IPEX USA LLC.

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A policy of ongoing product improvement is maintained. This may result in modifications of features and/or specifications without notice.



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