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CIOD PVC PRESSURE FITTINGS

For use with CIOD PVC Pressure Pipe
for pressure systems.

Westlake
Pipe & Fittings

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ABOUT CIOD PVC PRESSURE FITTINGS

We supply both fabricated and injection moulded fittings to use with Cast Iron Outside Diameter (CIOD) PVC Pressure Pipe for municipal water mains, fire lines, industrial process lines and sewer force mains. We have a wide range of fittings, including tees, bends, couplings, caps, increasers and adapters. Our high quality fittings have the same high strength and corrosion resistance as our CIOD PVC Pressure Pipe. Our pressure fittings are easy to install and are used with engineered joint restraints or concrete thrust blocks.

We provide an Installation Guide with detailed recommendations on pipe handling, bedding, assembly, joint restraints, thrust blocks, tapping, service connection and pressure testing.



FABRICATED FITTINGS

Our pressure fabricated fittings are manufactured using our CIOD PVC pressure pipe and are thermoformed, solvent cemented and fibreglass reinforced. We use the same Double Seal Locked-In (DSLITM) gasket system in our fabricated fittings as our pressure pipe. The gasket creates a tight seal and protects the pipe and fittings from shock, vibration and earth movements.

Fabricated bends 45° and under are manufactured from one piece of pipe. These lightweight, compact fittings are easy to handle in the field. All bends greater than 45° are manufactured with two angled sections of pipe solvent cemented together and fibreglass reinforced.

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Advantages of CIOD PVC Pressure Fittings include:

- **Watertight joints** – no risk of infiltration or leakage, the pure, clean water that enters the system, leaves the system.
- **Corrosion Resistant** – No metallic parts and therefore no costly anodes or protective coatings.
- **Hydrostatic Strength** – Same long-term hydrostatic strength as our CIOD pressure pipe.
- **Smooth Interior Walls** – Very smooth with a Hazen-Williams C-factor of 150, the same as our PVC pipe. Reduces head loss.

Fabricated fittings are available in 100mm - 600mm (4" - 24") diameters and Dimension Ratios (DR) 18 and 25. DR25 fabricated fittings are also available in 750mm and 900mm. They are third-party certified to CSA B137.3 and meet AWWA C900. Nitrile gaskets are available upon request. If customers have a specific fitting configuration, we have the flexibility to create the fitting that meets the needs of their project.

INJECTION MOULDED FITTINGS

Injection moulded pressure fittings are light weight and easy to handle. Our injection moulded fittings are made from PVC compound with a hydrostatic design basis of 27.58MPa (4,000psi). The factory-installed compression gasket is seated in a deep square groove ensuring a tight seal when installed.

They are available in 100mm - 200mm (4" - 8") diameters and have a Dimension Ratio (DR) of 18 (Pressure Class 235psi). Our injection moulded fittings are third party certified to CSA B137.2 and meet AWWA C907.

Our injection moulded fittings can be used with both DR18 and DR25 pressure pipe. They are designed to accommodate off-the-shelf joint restraint rings. There is no need to stock and ship modified joint restraint rings. They offer the same high strength and corrosion resistance as our CIOD pressure pipe.

CERTIFICATIONS

CIOD PVC Pressure Fittings proudly meets the following standards: Backwater Valves are third-party tested to meet CSA/CAN3 B70-M86.



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