

POLYRON

INTRODUCING THE NEXT GENERATION IN HDPE TRANSITION FITTINGS

- + Polyron™ is a revolutionary patent-pending technology that fully encapsulates metal with HDPE.
 - + Polyron creates a transition fitting that eliminates leak paths between metal and HDPE piping systems, maximizes stem retention, smoothes the transition from metal connections to HDPE, and minimizes friction loss at the transition point.
 - + Polyron is significantly lighter than any other HDPE transition fittings on the market today.
 - + Polyron has been developed and tested for over three years to create the next generation of HDPE transition fittings.
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POLYRON : Polyron encapsulates metal with HDPE to form a maximum strength bond between the two materials. The result is a single-component transition fitting with unprecedented performance.

HDPE : HDPE resin is injected through precision hole patterns to completely encapsulate the metal shank. The pipe end can then be fused to HDPE pipe, creating a smooth, extremely strong connection.

METAL SHANK : Precision hole patterns are CNC machined or laser cut into any metallic shank. Any type of coupler or connection can be attached to the metal shank.

SEALING GASKET : An integrated sealing gasket is incorporated onto the shank to provide an additional layer of protection against any leak paths.

INJECTION TOOLING : Precision injection tooling is designed to provide a smooth transition surface between the HDPE stub pipe and the metal shank surface.

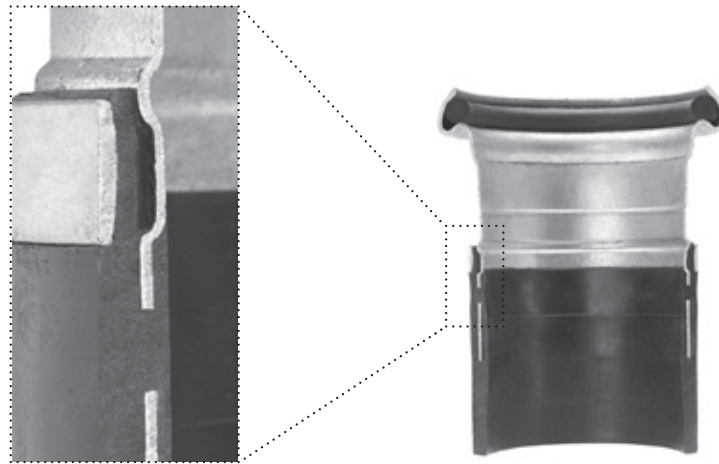
COMPRESSION RING : The final step in the Polyron process is the installation of a compression ring over the HDPE, which seals the gasket onto its metal seat.





**THE ANATOMY OF
THE POLYRON™ BOND :**

- + The precision hole pattern in the metal shank is machined to optimize the strength of the bond with HDPE.
- + The HDPE resin is allowed to bond with itself as it is injected through the hole pattern. Once it cools, the HDPE completely encapsulates the metal shank.



A metal compression ring seals the integrated gasket into place, creating an additional level of protection against any leak path.

PERFORMANCE OF POLYRON HDPE TRANSITION FITTINGS :

- + Up to 50% lighter than any other transition fitting.
- + Meets or exceeds pressure and temperature ratings of HDPE pipe.
- + Eliminates leak paths created by torquing, bending or pressure loading.
- + Prevents thermal expansion and contraction problems at transition joints.

