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NT92 - Omega™" Dry Break Quick Coupling



NT92 Series O-Mega[™] Dry Break Quick Coupling is specifically designed to prevent radioactive resin valve blockage spillage during the disconnecting process. This unique coupling consist of a female end having a concave ball valve and a male end having a convex ball valve that are machined to eliminate any spaces between the ball valves. Added to the design is a cavity filler and a revolutionary O-Mega[™] Sealing Process. The seal isin tension not compressed yielding a superior seal with greater strength and longer cycle life. Thorburn's O-Mega[™] coupling provides the solution to resin blocking poppet type valve quick couplings which spill radio active materials.

NT92 - Omega™ Easy to Operate

The NT92 O-Mega™ coupling has an easy turn action to connect and start the product flow. The valves will not open until both coupling halves are connected properly. The coupling halves are first aligned and then connected with a push, followed by a quarter turn. There are no threads to damage by over tightening and no failure prone cam and groove latch connections to secure. The coupling halves are independent shut off ball valves that are controlled manually by rotating the valve handles in sequence providing unrestricted high flow in either direction.



Align coupling halves



Push together & turn 90°



Coupling connected & locked



Open male end valve



Open female end valve

The O-Mega™ can only be disconnected when both the valves are shut off in sequence; female end valve first and then male end valve second. This ensures zero spillage and protects against accidental disconnection.

Eliminate Spillage with Omega™ Dry Break Quick Coupling



Cam & Groove Type = Spillage



Ordinary Ball Valves Added = Spillage



Traditional Poppet Valves = Spillage

Cam and Groove type couplings are incapable of avoiding spillage and vapour leakage upon disconnection. They are prone to accidental disconnects which can be expensive and extremely hazardous.

Ordinary Ball Valves added to quick couplings to shut off the flow allow trapped liquid between the hose and the adapter to flow freely on to your plants floor or your employees hands upon disconnection.

Traditional two-way poppet valve style dry break couplings by its very design are predisposed to spills because of the unavoidable liquid that is trapped in the gap between the coupler poppet valve and the adapter poppet valve upon disconnection.

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Prevents Resin Valve Blockage & Disconnection Spillage

The Omega™ is a drip free hose quick coupling that minimizes exposure to fluids or vapours during fluid transfer. The full flow smooth bore design means better flow for highly viscous fluids. A quarter turn of the ball valve securely seals the process fluids within the line. The unique locking mechanism prevents accidental disconnects. The standard swivel end eases alignment regardless of hose orientation.

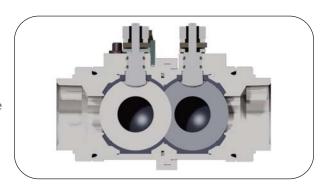
- Built in swivel eases alignment regardless of hose orientation.
- Unrestricted high flow during operation reduces pressure drops.
- Ideal for use where spillage may cause undesirable conditions.
- Protects the installation assets from hazardous waste product.
- Eliminates chemical waste incineration and disposal costs.
- Reduces liability exposure, loss time and worker comp claims.
- Ideal for high purity chemicals transferred through hoses.
- Zero spillage during disconnection & eliminates hazardous chemical waist pollution.
- No accumulation of D2O resins or other solids suspended in the media & prevents resin blockage between the valves.



NT92 Omega™ Sealing Technology

Seals under temperature & pressure fluctuations

O-Mega™ Seals flattens the seat creating tension and tensile strength in the seat center of the valve body during assembly which guaranties sealing under vacuum or low pressures and temperature fluctuations.



NT92 Omega™ Coupling Operational Safety Features

has built in safety features which requires a deliberate sequential procedure by users during operation.



1. Convex/Concave Ball Valves



2. Safety Locking Mechanism



3. Valve Handle Safety Switch



4. Safety Locking Pin



5. Safety Locking Pin Slot

- 1- Convex (male end) & Concave (female end) Ball Valve Zero Gap System prevents hazardous chemical loss during disconnection.
- 2- Safety Locking Mechanism incorporates a Valve Handle Safety Button and a Safety Locking Pin prevents accidental openings.
- 3- Valve Handle Safety Button locks the handle in the off position to safeguard against accidental opening when the disconnected.
- 4- Valve Handle guides a Locking Pin on the male end coupler into the Locking Pin Slot on the female end coupler.
- 5- Locking Pin Slot (female end) locks the coupling halves together and protects against accidental disconnection during operation.



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