

Injection Pressure Regulator Coil Assembly

Linear Pressure Reducer for Polymer Flood Applications



Q: Are you worried about the wasted cost of sheared polymer being introduced into your injection well during a polymer flood?

A: The Injection Pressure Regulator Coil Assembly can help. It regulates the injection pressure of a water-soluble polymer solution as it is introduced into a well during Enhanced Oil Recovery (EOR). The Injection Pressure Regulator allows for manipulation of the injection pressure without substantially altering the viscosity of the polymer solution during passage through the Regulator. No more wasted costs on sheared polymer!

The Injection Pressure Regulator is a compact assembly consisting of banks of stainless steel tube coils of differing lengths. Each bank is connected in series to a manifold line containing manual valves that separate the banks. Manipulating the pressure drop of the solution is easily achieved by opening or closing these valves to obtain the desired reduction.

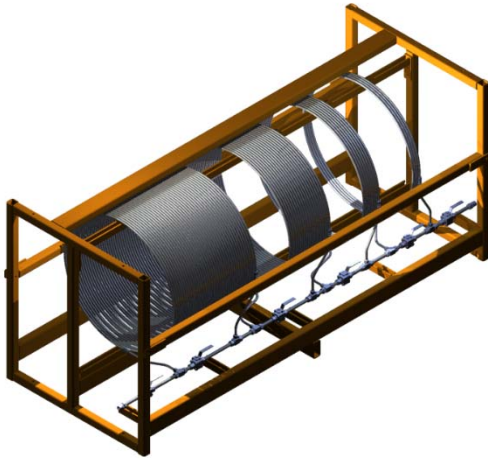
Specifically, the Injection Pressure Regulator works by creating a pressure reduction in the solution as it travels through a long length of tube, or combination of tubes, without substantial degradation of the polymer solution. This differs from conventional chokes which tend to shear the polymer thereby significantly reducing the viscosity of the solution being injected into a well, thus limiting the oil recovery in an EOR application.

Features and Benefits

- Multiple manual valves and banks of coils allow for easy manipulation of pressure drop of the solution prior to injection into the well.
- Stainless steel tube, valves, and fittings resist corrosion caused by the water-soluble polymer solution.
- Tubes are formed into coil banks which significantly reduces the size of the overall assembly.
- Minimal degradation to the polymer solution due to reduced shearing as the polymer passes through the assembly.

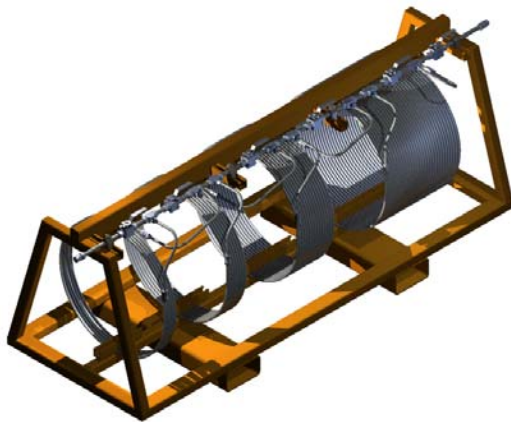
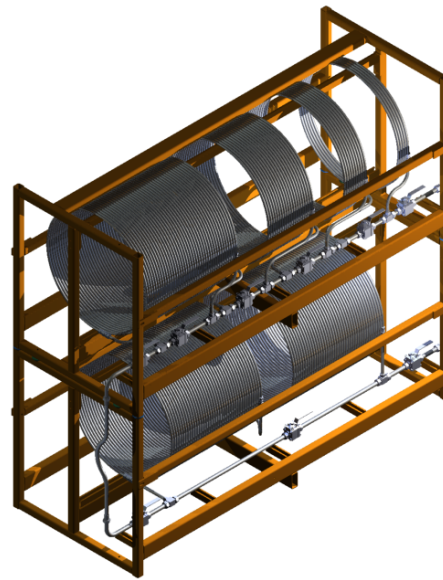
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Model 000491: 280m Total Coil Length	
Length X Width X Height	120.0" X 40.8" X 44.0" (3,048 mm X 1,035 mm X 1,118 mm)
Pressure Rating (MAWP)	2,200 psi (15,168 kPa, 151.7 bar)
Inlet & Outlet Fittings	3/4 in. Male NPT
Model 000492: 180m Total Coil Length	
Length X Width X Height	100.0" X 40.8" X 44.0" (2,540 mm X 1,035 mm X 1,118 mm)
Pressure Rating (MAWP)	2,200 psi (15,168 kPa, 151.7 bar)
Inlet & Outlet Fittings	3/4 in. Male NPT

Model 000493: 587.5m Total Coil Length	
Length X Width X Height	130.0" X 40.8" X 88.3" (3,302 mm X 1,035 mm X 2,242 mm)
Pressure Rating (MAWP)	2,200 psi (15,168 kPa, 151.7 bar)
Inlet & Outlet Fittings	1 in. Male NPT
Model 000494: 387.5m Total Coil Length	
Length X Width X Height	100.0" X 40.8" X 88.3" (2,540 mm X 1,035 mm X 2,242 mm)
Pressure Rating (MAWP)	2,200 psi (15,168 kPa, 151.7 bar)
Inlet & Outlet Fittings	1 in. Male NPT



Model 000500: 116m Total Coil Length	
Length X Width X Height	97.7" X 32" X 36.7" (2,481 mm X 813 mm X 932 mm)
Pressure Rating (MAWP)	Option 1: 2,200 psi (15,168 kPa, 151.7 bar) Option 2: 2,500 psi (17,237 kPa, 172.4 bar)
Inlet & Outlet Fittings	3/4 in. Male NPT

We worry about the equipment for your polymer injection projects so you don't have to. Contact us to discuss custom configurations of the Injection Pressure Regulator Coil Assembly and how it can add value to your EOR project.