

Pike River Coal – Hydraulic Monitor Pipeline

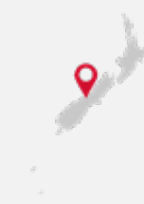
The Pike River Coal Mine is located in the Paparoa Ranges of New Zealand's South Island and will be developed to extract a coking coal deposit of the Brunner Seam. The mining operation uses a combination of two continuous miners and one road header to develop roadways in the coal field, with coal extraction done by high pressure hydraulic monitors. Hydraulic monitor extraction has been proven to be the most suited to complex mining conditions on the West. The Mining company installed two water pipes through the tunnel to process continuous conveyor muck hauling.

Hydraulic Monitor Pipeline requires the maximum working pressure for a single pump is 3770 psi (260 bar), and Shurjoint #RX3770 Ring Joint Couplings in size 8", 10" & 12" were selected by the engineer as it provide a fully restrained joint for use with extra strong carbon steel, API 5L Grade X65 line pipe, the tested pressure is 7,540 psi (520 bar).



location

New Zealand's
West Coast



year

2009

application

High Pressure
Hydraulic Monitor Pipeline

productline

VSH Shurjoint

architect

Industry

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Continuous conveyor muck hauling through the tunnel with installation of the two water pipes needed for the ‘monitoring’ or high-pressure washout mining operation. A 12” water pipe delivers 9,000 litre/min at 2,000 psi pressure for the extraction process, and an 11” pipe transports the coal as a slurry to the processing plant established outside the perimeter of the reserve. There is a recycling pipeline of some 27 km between the coal seam through the access tunnel and the pit bottom caverns to the processing plant and back. Hydraulic Monitor Pipeline requires the maximum working pressure for a single pump is 3770 psi (260 bar), and Shurjoint #RX3770 Ring Joint Couplings in size 8”, 10” & 12” were selected by the engineer as it provide a fully restrained joint for use with extra strong carbon steel, API 5L Grade X65 line pipe, the tested pressure is 7,540 psi (520 bar).



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