# Fire Hydrants Along the Way



## Industrial Fire Hydrants
## Corpus Christi, Texas

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# Facts & Figures…



- Large, high-risk industrial complexes generally have their own fire water protection system whose components normally include:
  - Large capacity, stationary fire pumps
  - A water main distribution system
  - Fire hydrants
  - Fixed-fire protection systems such a deluge, spray, and foam systems.
- These fire water protection systems are commonly engineered to flow large volumes of water at operating pressures in the neighborhood of 150 psi to 185 psi depending upon the hazard and the water flow demand.
- Industrial fire hydrants found in many oil refinery and chemical plant process areas are often tied to a water spray/fixed-monitor systems in addition to providing traditional hydrant service.
- This presentation shows a couple different hydrant arrangements that are sometimes found in the industrial setting.

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# Industrial Fire Hydrant



This is a typical hydrant set-up with a fixed, 1,000 gpm monitor on top of a hydrant that has several, large capacity outlets.

The hydrant is a wet-barrel hydrant; each outlet has its own control valve – as does the fixed monitor.

The water main system shown here is supported by two, 3,000 gpm fire pumps.

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# Industrial Fire Hydrant



Another version of a fixed-monitor/fire hydrant system.

This monitor has a 1,000 gpm nozzle on it and a hand wheel in lieu of a hydrant wrench.

A 6-inch LDH supply line is shown connected to this hydrant's steamer outlet.

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# Facts & Figures…



This photo shows how multiple LDH lines can be connected to the hydrant to support flows in excess of 3,000 gpm.

Of course, some adaptors are needed.

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# Facts & Figures…



7-1/4-inch LDH is shown connected to this hydrant permitting a flow of more than 2,000 gpm using just a single supply line.

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# Facts & Figures…






Two, 6-inch supply lines from this single industrial hydrant allow this foam pumper to flow almost 4,000 gpm!

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