😍 ProSep

ProSalt[™]

The **ProSalt™** system's efficient injection and mixing technology holds the key to effective crude oil desalting, efficient utilization of wash water & chemicals and improved crude-water separability.



FEATURES

- + Independent of upstream piping arrangement
- + Automated online adjustability to meet variable process flow condition (high turndown ratio)
- + Provisions for online de-plugging are available
- + Robust design for low maintenance

BENEFITS

- + Homogeneous high shear force condition leads to high mixing efficiency (90% in most cases) and less emulsion
- + Capable of multiphase mixing
- + Capable of high mixing efficiencies with a low pressure drop (0.1 to 0.3 bar)
- + Up to 60% reduction in wash water consumption

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ProSep's mixing technologies differ from traditional inline mixing technologies as they utilize main stream momentum by reducing open flow area and increase flow velocity, resulting in a high mixing driving force.

The award winning **ProSalt™** system has been primarily installed in upstream desalter applications, although the technology has been employed in downstream refineries.

The injector / mixer system generates a homogeneous wash water droplet flow over the pipe cross section in combination with a pressure drop that is lower than conventional mixing methods, while controlling shear forces. This achieves an improved oil-water separation with less emulsion.

The **ProSalt™** system has also decreased client's demulsifer consumption by 48% saving them over \$1 MM per year.

REFERENCES

SIDE 2

Case 01

2 units of 24",150# ProSalt™ Mexico (854,000 BPD)

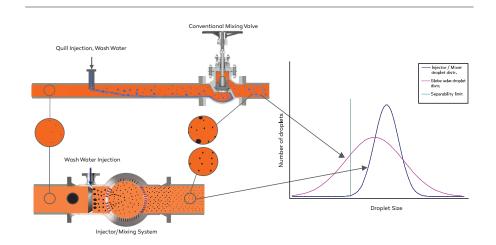
- + Mixing efficiency increased by 30% compared with conventional globe valve
- + 60% reduction in wash water consumption
- + Annual wash water saving of USD \$140,000 & energy saving of USD \$1,305,000

Case O2

1 ProSalt™ Unit Middle East

- + Differential pressure across the mixer decreased by more than 50%
- + Wash water rate decreased by 40%
- + Oil in water content reduced by 60%

PROSALT[™] VS. CONVENTIONAL MIXER SYSTEM



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ProSalt[™] can increase mixing effiency by 30% compared with conventional globe valves

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