



Specification sheet

MAPS-H 2410 and MAPS-H 2427

Systems for Preventing Corrosion and Wax Deposition in Pipelines



Technical Data

Fluids	crude oil, water, gas
Main body internal volume	
- MAPS-H 2410	1.45 m ³ (9.11 barrels)
- MAPS-H 2427	2.85 m ³ (17.87 barrels)
Liquid batch launch velocity	up to 5 m/s (16.4 ft/sec), adjustable
Valve actuator	electric
Design pressure (ASME B31.8)	93 barg ... 9300 kPag (1348.85 psig)
Design temperature	93°C (199.4°F)
Actuator and instruments operating voltage	24 VDC

Application Area

MAPS-H 2410 or MAPS-H 2427 remove stagnant water, solids, and/or sludge from flowlines, pipelines, and process lines of oil and gas gathering systems. The systems are applicable to pipelines transporting at least two fluids having different densities. MAPS-H 2410 and MAPS-H 2427 are a truly cost-effective solution for preventing or mitigating corrosion and flow assurance challenges in production systems.

Benefits

- The switch from a continuous mode of transportation of fluids to a batch mode increases the service life of the pipeline
- The unpiggable process lines connecting the pipeline to the fluid source and the field processing facilities are cleaned too
- A more even distribution of any added chemical over the entire length of the pipeline is achieved, when a chemical inhibition is still required

Function

The systems generate alternating fluid batches traveling toward the pipeline outlet without increasing the total flow rate of the transported fluids. The fluid batches are formed in the main body of the systems using an on/off valve that makes the heavier and lighter fluid or fluids flow to the outlet through the lower and upper outlet pipe, respectively. This operation is carried out without stopping the flow at the fluid source.

Materials

Main body	API 5L X52 PSL1 LSAW carbon steel pipe and ASTM A860 WPHY 52 NACE MR0175/ISO 15156 carbon steel fittings
Piping	API 5L GR.B seamless SCH 80 carbon steel pipes
Weld heat treatment	PWHT NACE MR0175/ISO 15156
WM and HAZ hardness test	NACE MR0175/ISO 15156
Hydrostatic test	ASME UG-99

Instrumentation

The adjustment of the instruments to select certain operation modes is carried out via a display and an adjustment module or via PC with an adjustment software and respective DTM.

Approvals

The valve actuator is explosion proof (NEMA 4,4X,7). The instruments are suitable for use in hazardous areas and are approved e.g. according to ATEX and IEC.

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Operation Modes

MAPS-H 2410 and MAPS-H 2427 can be configured to operate in the following modes:

- Free-water batch mode
- Liquid batch mode
- Accelerated-free-water-batch mode
- Accelerated-liquid-batch mode

The switch from the free-water batch mode to the liquid batch mode and vice versa can be carried out using instrumentation.

Hydraulic Connection

MAPS-H 2410 and MAPS-H 2427 are connected hydraulically to the flowline or pipeline at any suitable point upstream of it or its part to be cleaned.

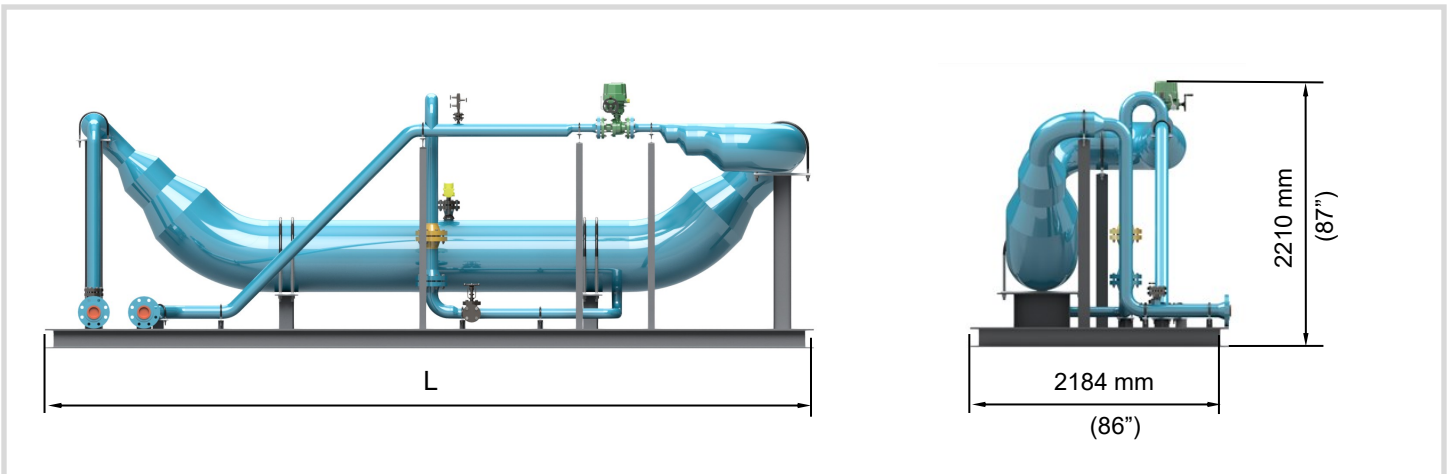
Thermal Insulation

The main body can be thermally insulated.

Depressurization and Drainage

Depressurization and drainage are carried out through a Double Block and Bleed ball valve.

Dimensions



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MAPS-H 2410	6502 mm (256")
MAPS-H 2427	11887 mm (468")

Wireless Adjustment via Bluetooth

The integrated Bluetooth module enables wireless connection of the instruments to smart-phones/tablets (iOS/Android) or Windows PCs.

Operation is via a free app from the " Apple App Store", the "Google Play Store" or the " Baidu Store".

Information

Further information about our products and services is available at www.mpecorp.com

In Technology Overview section www.mpecorp.com/maps-technology, a description of this technology, videos, product information, and brochures can be found.

Contact

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