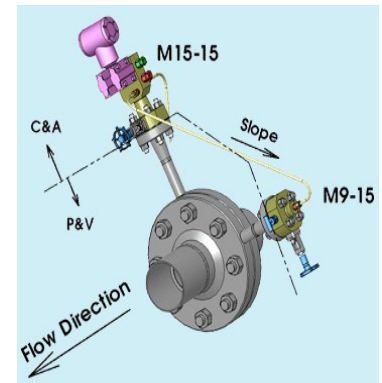


# Hook-Up Selection Tool - HUST

You look for a design tool for the Oil & Gas production industry, refining or chemicals? Then is HUST the new solution for you! HUST stands for Hook-Up Selection Tool. It is a Design Engineering tool for end-users, engineering contractors and instrumentation companies projects.



HUST enables the user to select the correct hook-ups by answering simple questions, in line with typical industry standards. As a result HUST is minimizing the chance of making mistakes.

The tool can be accessed easily, is programmed in JavaScript and works on every Microsoft Internet Explorer version 5.0 and above.

HUST selects the correct pressure/temperature class, based on the input and the ASME/API tables. It selects, when necessary, the correct heating. HUST saves an enormous amount of time and research work;

HUST contains both the latest Close-Coupled technology and traditional hook-ups and is suitable for all instruments installed with Instrument Manifold'. HUST can be extended in the future with in-line instruments, instruments with chemical seals, radars with stilling wells, sample points, etc.

## HUST Results

HUST can generate a list with required product codes, needed to order the instrument manifolds and accessories like body enclosures, heating, heating boxes, mounting plates, bolts & nuts, etc. Everything but the instrument itself.

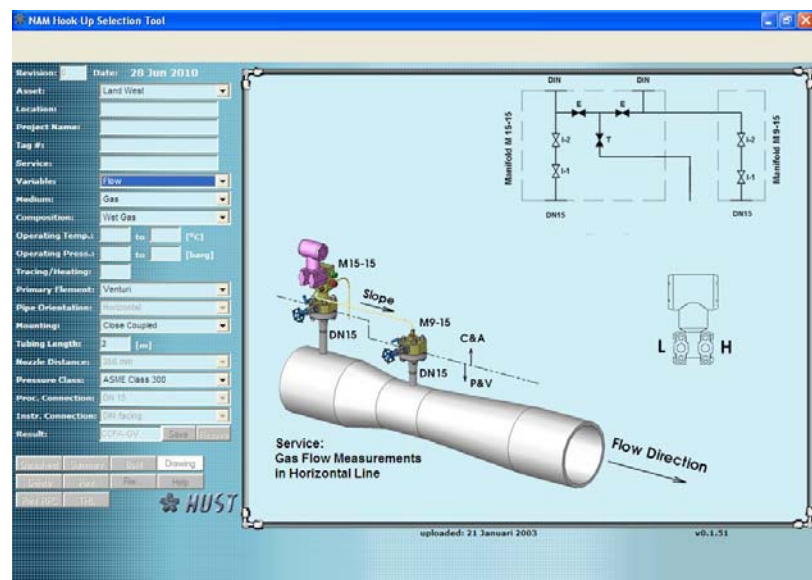
HUST provides a hook-up drawing (Released For Construction) and lists product codes, required for construction. During the construction phase the drawing can be used by the construction technician in the field, minimizing the chance of making mistakes.

HUST calculates the total tubing length and generates a list with product codes, used to order different types of tubing.

HUST checks the design on pressure and temperature in accordance with the ASME tables (PT-diagrams) and ensures that limits are not exceeded. When limits are exceeded, both the user and the mechanical engineer will be informed that the pressure class selected is too low.

HUST selects the correct heating codes, eliminating mistakes during the engineering phase and thus prevents time consuming searches and correction during the commissioning phase. HUST creates order in the choice of many products.

HUST is based on standards as used by the Dutch NAM/Shell, like NSS 40-D-7-01 Instrument Hook-ups and General MESC Specifications, like: Gen. MESC Spec. 60.96.XX./901 - CCLA; Gen. MESC Spec. 60.96.XX./902 - CC manif; Gen. MESC Spec. 60.96.XX./903 - RM manif. The General MESC Specifications are based on International Standards, such as ASME, IEC, API, DIN, BS, EN and NACE.



# HUST

## Sales Order Automation

HUST can be adapted to support contractual arrangements with suppliers for providing the tubing, instrument manifolds and instrument fittings, so that a 'fit-for-purpose' design at the lowest 'Total Cost of Ownership' can be guaranteed. The package is prepared for supporting electronic links with automated purchasing systems such as EBPro and Trade Ranger. With one mouse click the necessary orders can be prepared for on-line dispatch into the ordering system of the customer.

## Benefits

The savings on manpower in the engineering phase can exceed 75 percent: Assuming an average of 200 manifolds, the time to make the requisitions, typical hook-up drawings in AutoCAD and datasheets are approximately: 200 x 4 hours = 800 hours. Using HUST this can be reduced to 200 x 0.2 hour = 40 hours and a very small chance of making mistakes. These savings make HUST the tool to use. There are also cost savings in the construction phase, because pre-fabricated products can be installed easily in the field, with limited chance of mistakes.



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# HUST