

ENGINEERING
TOMORROW

Danfoss

How to Identify Fluid Ports and Connectors



Accurate identification of ports and connectors in fluid piping systems is necessary before the correct hose or tube assembly can be selected and installed. With this booklet and a few simple tools, measurement and identification is easy.

Most connectors commonly used in fluid piping systems are included in this booklet. The connections are listed under headings divided by the country of origin to provide further assistance in identification.

Please consult your Danfoss representative for assistance in identifying connectors not found in this booklet.

How to Use This Booklet

Visually identify the part by comparing it with the illustration shown for each type of connection. Take measurements of the I.D., O.D., threads and angles as appropriate. Compare the measurements to the charts to convert to the correct dash and/or thread size and the parts series.

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Measuring Tools



FT1341 Digital Caliper kit

A seat angle gauge, thread pitch gauges and a caliper are necessary to make accurate measurements of commonly used connectors.



Caliper



Thread Pitch Gauge



Ruler



Angle Gauge

How to Measure Threads

Use a thread pitch gauge to determine the number of threads per inch or the distance between threads in metric connections. Place the gauge on the threads until the fit is snug. Match the measurement to the charts.

Measure the thread diameter with an I.D./O.D. caliper as shown. Match the measurements to the charts.



Measuring threads



Measuring inner diameter



Measuring threads

How to Measure Sealing Surface Angles

Female connections are usually measured by inserting the gauge into the connection and placing it on the sealing surface. If the centerlines of the connection and gauge are parallel, the correct angle has been determined.

Male flare type connectors are measured by placing the gauge on the sealing surface. If the centerlines of the connection and gauge are parallel, the correct angle has been determined.

