

## NEWS LETTER-24

In the earlier issue we were discussing about the Isometric dwg.no referred in technical data sheet, pipe axes & how it is related to supports.

Let us discuss few more points about isometric dwg before proceeding to the next point in technical data sheet.

As the equipment (inlet & outlet) will be at two different locations (normally), from inlet, the pipe may have to Travel in  $\pm X$  axis (North or South) for some distance,  $\pm Y$  axis for some height (Elevation) &  $\pm Z$  axis (East or West) for a particular distance till pipe reaches the outlet. Basically isometric is developed/extracted from a layout which has plan, elevations & side views for better clarity of pipe routing.

Pipe routing/layout by itself is an art & carried out considering lot of aspects. As this is beyond the purview of the subject under discussion, let us **not** discuss further about it in depth.

From support vendor angle, referring iso no in data sheet does not have any significant use. But its use is immense from client angle.

To quote a few:

a-Isometric helps to locate the supports points on the piping & its relative distance between supports.

b- The type of supports & in some isos its orientation wrt the pipe axis whether it is top suspended support, bottom supported, axis in which it is restrained (in case of horizontal restraints), snubber support orientation etc may also be available.

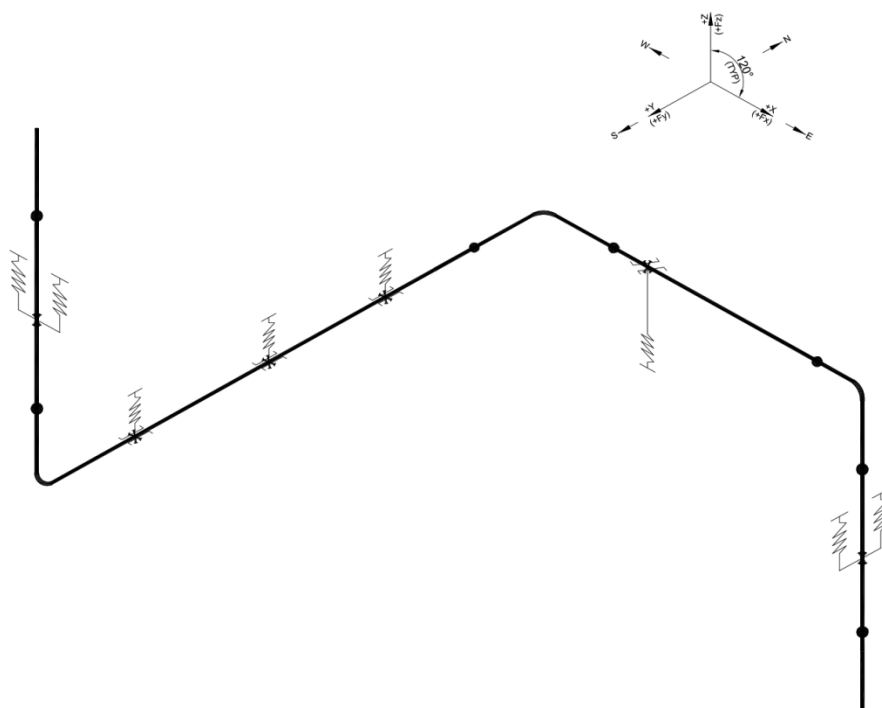
c-It is further used for executing the stress analysis.

d-it locates the instrument tapplings, branch off, drain / vent tapplings & on line items like Valves, orifice plates, flow meter, spectacle blinds etc

e-It aids for easy manufacture, erect the piping & supports with least mistake.

f-It is the liaison between support & piping.

A sample isometric dwg is illustrated below with supports located for better understanding.  
(for clarity only support points are included)



From the above detailed explanation, it is clear that referring isometric dwg no in data sheet will be very useful for one & all at client end (for various agencies like support, piping, production, erection, checking personals) for locating, any correction, changing of arrgt, availability of assy length etc.

(Note- Not all isos extracted thru software may have support details as stated above)

Moreover, when the layout is thru special softwares, normally logical supports are also modelled & these will be extracted & furnished to the vendor.

Please see attachment on next page.

For past newsletters please look up our website [www.pipehangers.in](http://www.pipehangers.in)

**About Pipe Hangers:**

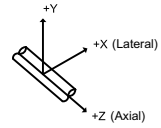
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# Pipe Hangers & Supports Private Limited

## Ordering Information



- 1) Hot Load (Operating Load) in Kgs : \_\_\_\_\_
- 2) Thermal Movement / Travel (Direction + or -) in mm : UP (+) \_\_\_\_\_ mm
- 3) Type of Hanger Variable / Constant /Rigid : VariableEffort Support
- 4) For Constant Add Over Travel : ☐ Yes ☐ No
- 5) For Variable Springs Max Allowable % Load Variation : \_\_\_\_\_ %
- 6) Horizontal / Lateral Movement (If any) : 'X' Dir \_\_\_\_\_ mm / 'Z' Dir \_\_\_\_\_ mm
- 7) Hydro Load ( If any) : \_\_\_\_\_ Kgs
- 8) Model & Type of Support : \_\_\_\_\_
- 9) Assembly Length (From BOS/TOS to Pipe CL ) : \_\_\_\_\_ mm
- 10) Operating Temperature : \_\_\_\_\_ Deg C
- 11) Pipe Insulation Thk : \_\_\_\_\_ mm
- 12) Pipe Material : \_\_\_\_\_
- 13) Require Pipe Shoe for Foot Mounted Support : ☐ Yes ☐ No
- 14) For Foot Mounted Support Match Height : ☐ Yes ☐ No
- 15) Attachments like Lugs, Cleats Welded to Pipe in Scope : ☐ Yes ☐ No
- 16) Operating Load includes Wt of Accessories like  
Clamp, Tie Rods, Cleats, Lugs etc. : ☐ Yes ☐ No
- 17) Preferred Surface Protection / Painting : \_\_\_\_\_
- 18) For 'G' Type / Double / Trapeze type Hanger the  
Load Given above is for 1 assembly consisting of  
2 Hangers / Individual Hanger : ☐ Yes ☐ No

