

draPRO HELP FOR HYDRAULIC SERVICES

This help file contains information for each function in dra2010 Hydraulic Services.

Utilities

Cold Water Service

Hot Water Service

Gas Service

Isometrics


Sanitary Plumbing

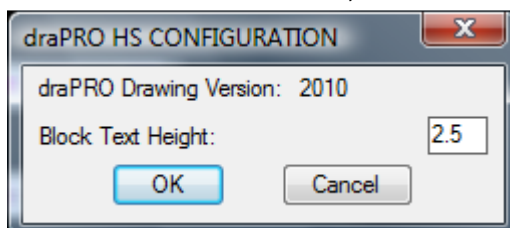
Stormwater

Utilities

Modify Setup

This dialog box displays the current settings for some variables for draPRO2010. The values you enter are only valid for the current drawing. If you want any settings to be made permanent set them in the Layer Definition File.

From the HS Utilities toolbar, choose 



- draPRO Drawing Version:


This is read only and indicates the version of draPRO that the drawing was created with.

- Block Text Height:

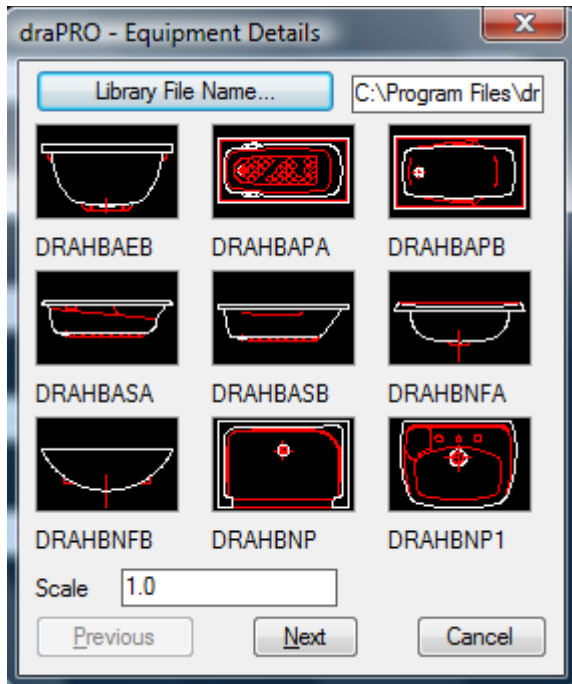
This text height is used in some functions to control the height of text.

Fixtures

If installed the draLIB menu will be loaded for use.

From the HS Utilities toolbar, choose 

Select the library file from drapro 2010/ es



Format:

Insertion point: (or R to Reference from):


Specify a point

Rotation angle: Specify an angle

See draLIB manual for details of its use.

Hydraulic Services Cold Water Service

Pump

From the HS Cold Water Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Hose Cock

From the HS Cold Water Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Water Meter

From the HS Cold Water Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Pressure Switch

From the HS Cold Water Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Flow Switch

From the HS Cold Water Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Gate Valve

From the HS Cold Water Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Check Valve

From the HS Cold Water Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Globe Valve

From the HS Cold Water Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Motorised 2 Way Valve

From the HS Cold Water Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Solenoid Valve

From the HS Cold Water Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Butterfly Valve

From the HS Cold Water Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Flange Connection

From the HS Cold Water Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Strainer

From the HS Cold Water Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Cold Water Pipework

From the HS Cold Water Toolbar, choose  , or 

Format:



Insertion point: (or R to Reference from):

Specify a point

To point or R

To point: Specify a point, R, or {RETURN} when done

Pipe Riser/Dropper From Bend

From the HS Cold Water Toolbar, choose , or 

Format:

Specify a point to place riser or dropper

Pipe Riser/Dropper From Tee

From the HS Cold Water Toolbar, choose , or 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Pipe Break

From the HS Cold Water Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Flow Direction

From the HS Cold Water Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Reducer

From the HS Cold Water Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Cap

From the HS Cold Water Toolbar, choose 




Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Isolation Valves

From the HS Cold Water Toolbar, choose , or , or 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Thermostatic Mixing Valve

From the HS Cold Water Toolbar, choose ,

Format:


Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Hydraulic Services Hot Water Service

Pump

From the HS Hot Water Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Hose Cock

From the HS Hot Water Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Pressure Switch

From the HS Hot Water Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Flow Switch

From the HS Hot Water Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Gate Valve

From the HS Hot Water Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Check Valve

From the HS Hot Water Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Globe Valve

From the HS Hot Water Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Motorised 2 Way Valve

From the HS Hot Water Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Solenoid Valve

From the HS Hot Water Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Butterfly Valve

From the HS Hot Water Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Flange Connection

From the HS Hot Water Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Strainer

From the HS Hot Water Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Hot Water Pipework

From the HS Hot Water Toolbar, choose  , or 

Format:



Insertion point: (or R to Reference from):

Specify a point

To point or R

To point: Specify a point, R, or {RETURN} when done

Pipe Riser/Dropper From Bend

From the HS Hot Water Toolbar, choose  , or 

Format:

Specify a point to place riser or dropper

Pipe Riser/Dropper From Tee

From the HS Hot Water Toolbar, choose  , or 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Pipe Break

From the HS Hot Water Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Flow Direction

From the HS Hot Water Toolbar, choose ,


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Reducer

From the HS Hot Water Toolbar, choose ,

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Cap

From the HS Hot Water Toolbar, choose ,




Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Isolation Valves

From the HS Hot Water Toolbar, choose , or , or ,

Format:


Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Hydraulic Services Gas Service

Gas Isolation Valve

From the HS Gas Toolbar, choose ,


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Hose Cock

From the HS Gas Toolbar, choose ,


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Pressure Switch

From the HS Gas Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Flow Switch

From the HS Gas Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Gate Valve

From the HS Gas Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Check Valve

From the HS Gas Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Globe Valve

From the HS Gas Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Motorised 2 Way Valve

From the Gas Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Solenoid Valve

From the HS Gas Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Butterfly Valve

From the HS Gas Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Flange Connection

From the HS Gas Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Hot Water Pipework

From the HS Gas Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

To point or R

To point: Specify a point, R, or {RETURN} when done


Pipe Riser/Dropper From Bend

From the HS Gas Toolbar, choose , or 

Format:

Specify a point to place riser or dropper

Pipe Riser/Dropper From Tee

From the HS Gas Toolbar, choose , or 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Pipe Break

From the HS Gas Toolbar, choose ,

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Flow Direction

From the HS Gas Toolbar, choose ,


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Reducer

From the HS Gas Toolbar, choose ,


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Cap

From the HS Gas Toolbar, choose ,

Format:


Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Hydraulic Services Sanitary Plumbing Service

Boundary Trap

From the HS Sanitary Plumbing Toolbar, choose ,


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Clear Out

From the HS Sanitary Plumbing Toolbar, choose ,


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

External Gully

From the HS Sanitary Plumbing Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Gully Overflow

From the HS Sanitary Plumbing Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Manhole

From the HS Sanitary Plumbing Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Generic Pit

From the HS Sanitary Plumbing Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Floor Waste

From the HS Sanitary Plumbing Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Tundish

From the Sanitary Plumbing Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Pump

From the HS Sanitary Plumbing Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Gate Valve

From the HS Sanitary Plumbing Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Check Valve

From the HS Sanitary Plumbing Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Flange Connection

From the HS Sanitary Plumbing Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Sanitary Plumbing Pipework

From the HS Sanitary Plumbing Toolbar, choose , or 

Format:

Insertion point: (or R to Reference from):

Specify a point

To point or R

To point: Specify a point, R, or {RETURN} when done



Pipe Riser/Dropper From Bend

From the HS Sanitary Plumbing Toolbar, choose , or 

Format:

Specify a point to place riser or dropper

Pipe Riser/Dropper From Tee

From the HS Sanitary Plumbing Toolbar, choose , or ,


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Pipe Break

From the HS Sanitary Plumbing Toolbar, choose ,


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Flow Direction

From the HS Sanitary Plumbing Toolbar, choose ,


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Reducer

From the HS Sanitary Plumbing Toolbar, choose ,


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Cap

From the HS Sanitary Plumbing Toolbar, choose ,

Format:


Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Hydraulic Services Stormwater Service

Clear Out

From the HS Stormwater Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Rainwater Outlet

From the HS Stormwater Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Manhole

From the HS Stormwater Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Generic Pit

From the HS Stormwater Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

450x450 Stormwater Pit

From the HS Stormwater Toolbar, choose 

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

600x600 Stormwater Pit

From the Stormwater Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Pump

From the HS Stormwater Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Gate Valve

From the HS Stormwater Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Check Valve

From the HS Stormwater Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Flange Connection

From the HS Stormwater Toolbar, choose 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Stormwater Pipework

From the HS Stormwater Toolbar, choose  , or 

Format:

Insertion point: (or R to Reference from):

Specify a point

To point or R

To point: Specify a point, R, or {RETURN} when done



Pipe Riser/Dropper From Bend

From the HS Stormwater Toolbar, choose  , or 

Format:

Specify a point to place riser or dropper

Pipe Riser/Dropper From Tee

From the HS Stormwater Toolbar, choose , or 


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Pipe Break

From the HS Stormwater Toolbar, choose ,


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Flow Direction

From the HS Stormwater Toolbar, choose ,


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Reducer

From the HS Stormwater Toolbar, choose ,


Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle

Cap

From the HS Stormwater Toolbar, choose ,

Format:

Insertion point: (or R to Reference from):

Specify a point

Rotation angle: Specify an angle