



# Graphics Colour Standards

**Intelligent Plant Ltd.**

Company number: SC299081

Registered address: First Floor,

VAT number : 887 3049 84

489 Union Street,

E-mail : info@intelligentplant.com

Aberdeen,

Phone : 01224 596001

AB11 6AZ.

Revision History:

Date	Version	Description	Created by (Initials)	Reviewed by
15/11/2018	0.1	Graphics Colour Standards	TG	BN
07/02/2022	0.2	Updated with new logo and minor text changes	TG	

© Copyright 2022, Intelligent Plant Ltd.



# Table of Contents

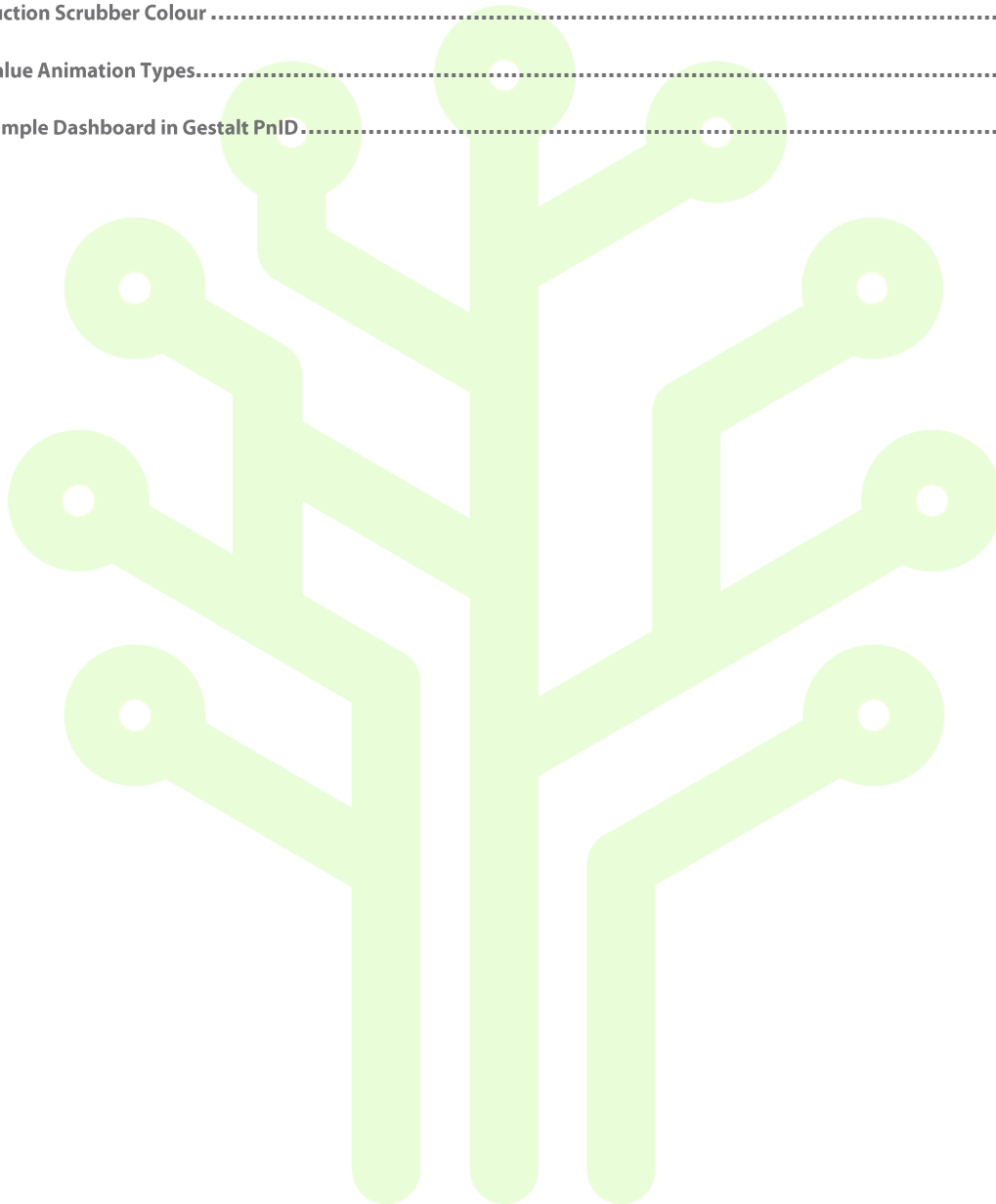
<b>Table of Contents</b> .....	<b>3</b>
Figures	4
<b>1 Purpose of Document</b> .....	<b>6</b>
<b>2 Information Requirements</b> .....	<b>7</b>
<b>3 Page Set Up</b> .....	<b>8</b>
3.1 Quick Reference Guide.....	8
<b>4 Colour Specification</b> .....	<b>9</b>
4.1 Background.....	9
4.2 Text.....	9
4.2.1 Page Title.....	9
4.2.2 Process Line Descriptors.....	9
4.2.3 Link Descriptors.....	9
4.2.4 Vessel Descriptors.....	10
4.2.5 Instrumentation Text.....	10
4.2.6 Value Animation Text.....	10
4.3 Linework.....	10
4.3.1 Linework Pixel Size.....	10
4.3.2 Oil.....	10
4.3.3 Gas.....	10
4.3.4 Chemicals.....	11
4.3.5 Glycol.....	11
4.3.6 Air Systems.....	11
4.3.7 Utilities.....	11
4.3.8 Heating & Cooling.....	11
4.3.9 Water.....	12
4.4 Valves.....	12
4.4.1 Valve Open.....	12
4.4.2 Valve Travelling or Moving.....	12
4.4.3 Valve Closed.....	12
4.4.4 Valve - Bad Data.....	13
4.5 Pumps.....	13
4.5.1 Pump Start (1).....	13
4.5.2 Pump Start (2).....	13
4.5.3 Pump Stop.....	13
4.5.4 Pump Running (1).....	13
4.5.5 Pump Running (2).....	13
4.5.6 Pump Not Running or Stopped.....	13
4.5.7 Pump - Bad Data.....	14
4.6 Vessels.....	14
4.6.1 Separators.....	14

4.6.2	Suction Scrubbers.....	14
4.7	Value Animations.....	14
5	Example Dashboard in Gestalt PnID.....	15

## Figures

Figure 3-1	Aspect Ratio 16:9 .....	8
Figure 3-2	Quick Reference Guide.....	8
Figure 4-1	Background Colour.....	9
Figure 4-2	Title Text .....	9
Figure 4-3	Process Line Descriptor .....	9
Figure 4-4	Link Descriptor.....	9
Figure 4-5	Vessel Descriptor .....	10
Figure 4-6	Instrumentation Text .....	10
Figure 4-7	Value Animation Text.....	10
Figure 4-8	Linework Pixel Sizes.....	10
Figure 4-9	Oil Linework .....	10
Figure 4-10	Gas Linework .....	11
Figure 4-11	Chemical Linework.....	11
Figure 4-12	Lean Glycol Linework.....	11
Figure 4-13	Rich Glycol Linework .....	11
Figure 4-14	Air Systems Linework.....	11
Figure 4-15	Utilities Linework .....	11
Figure 4-16	Heating Medium Linework .....	11
Figure 4-17	Cooling Medium Linework.....	11
Figure 4-18	Closed Drains Linework .....	12
Figure 4-19	Produced Water Linework .....	12
Figure 4-20	Seawater Linework .....	12
Figure 4-21	Water Linework.....	12
Figure 4-22	Valve Open .....	12
Figure 4-23	Valve Travelling or Moving .....	12
Figure 4-24	Valve Closed .....	12
Figure 4-25	Valve - Bad Data.....	13
Figure 4-26	Pump Start (1) .....	13
Figure 4-27	Pump Start (2) .....	13

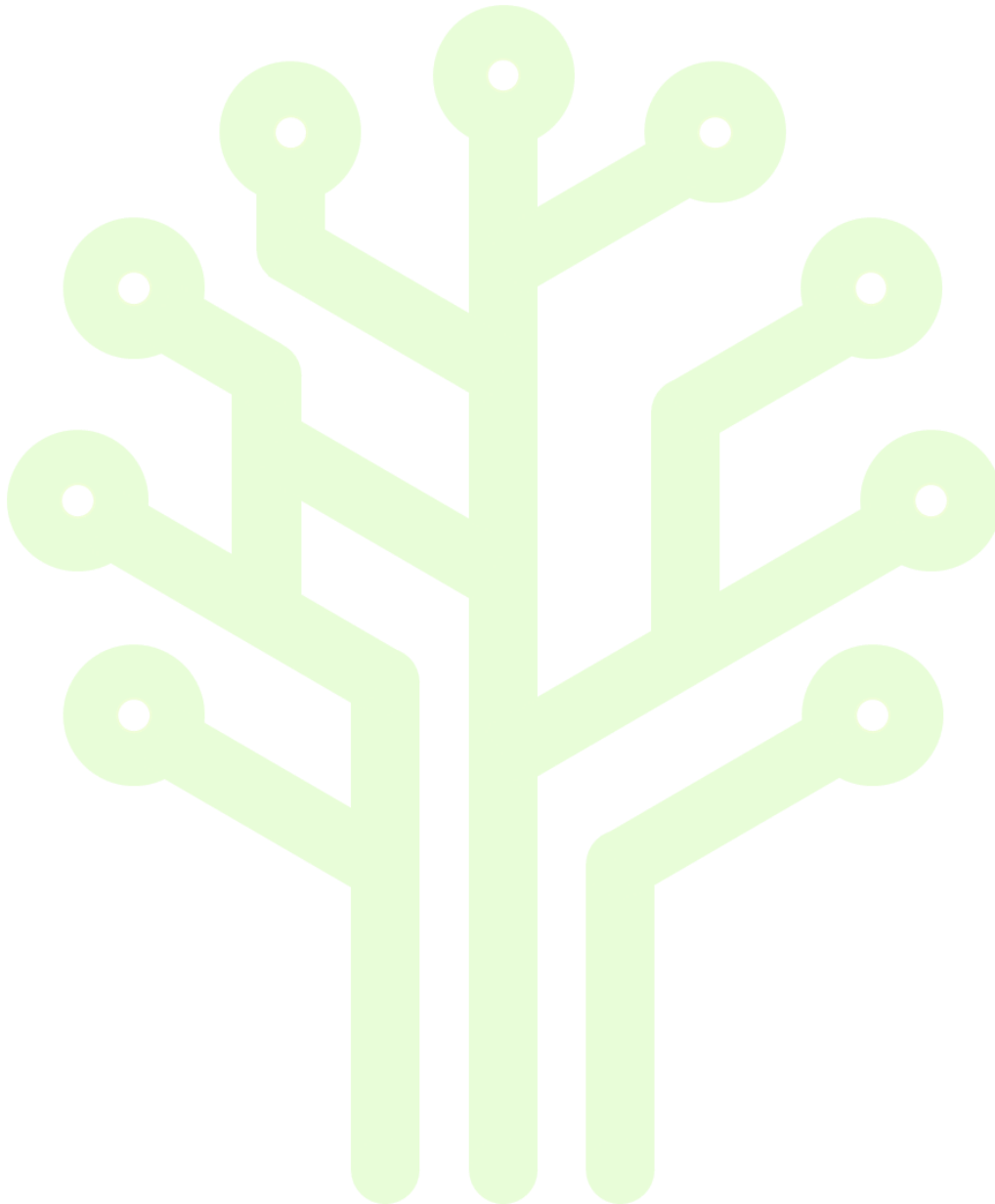
Figure 4-28 Pump Stop.....	13
Figure 4-29 Pump Running (1).....	13
Figure 4-30 Pump Running (2).....	13
Figure 4-31 Pump Not Running or Stopped .....	14
Figure 4-32 Pump - Bad Data.....	14
Figure 4-33 Separator Colours.....	14
Figure 4-34 Suction Scrubber Colour .....	14
Figure 4-35 Value Animation Types.....	14
Figure 5-1 Example Dashboard in Gestalt PnID.....	15



## 1 Purpose of Document

Intelligent Plant configure and deploy graphics to remotely monitor the performance of onshore and offshore receiving facilities. This document details the graphics colour standards used by Intelligent Plant, thus enabling all graphics produced to appear the same.

These colours have been adopted by many of our clients. In recent years some clients have produced their own colour standards and therefore they should be adhered to.

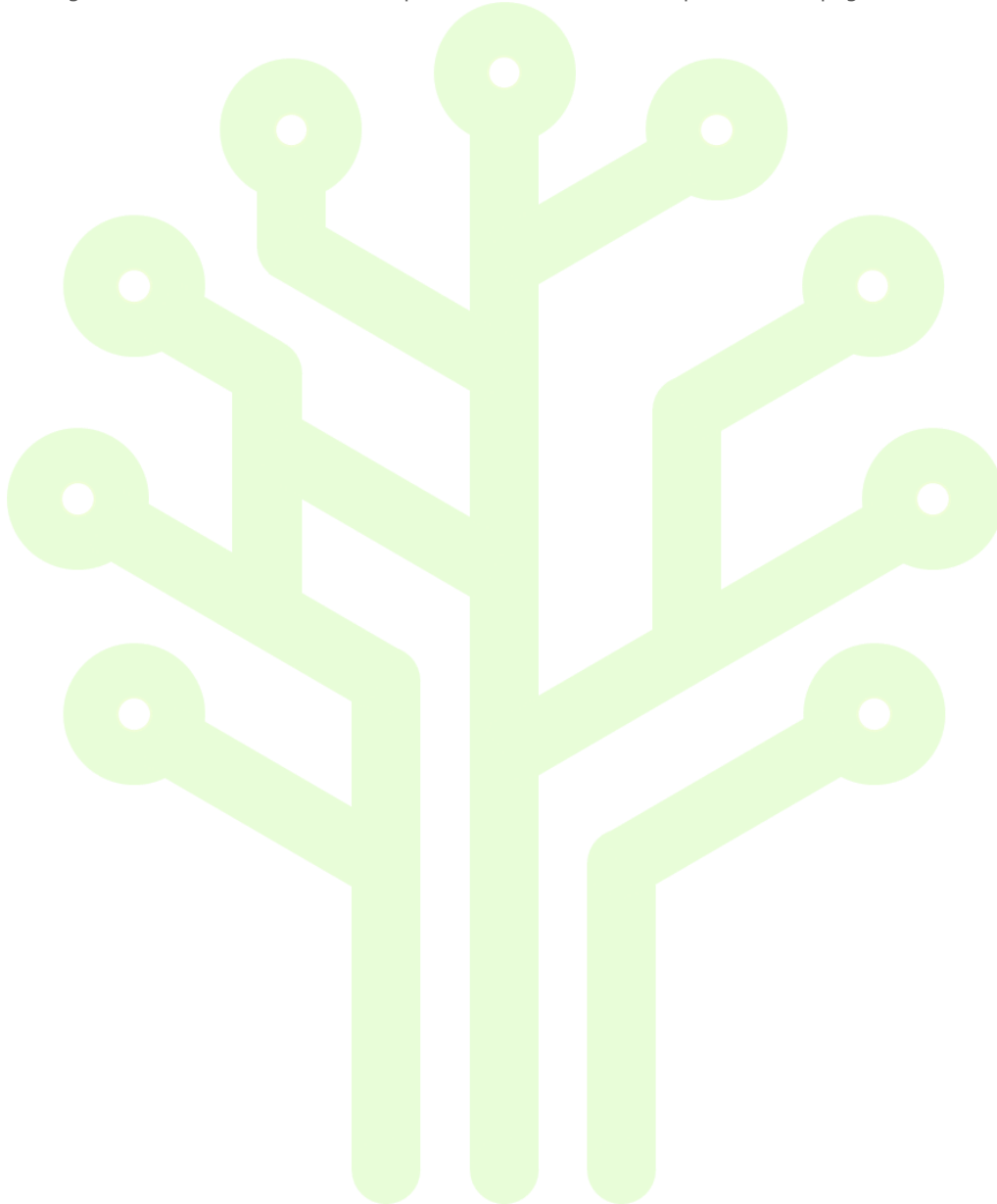


## 2 Information Requirements

Meetings will take place with the client to gather information relating to the graphics content within their project.

The client should provide Intelligent Plant with one or more of the following:

- Latest version of PFDs or P&IDs marked up as appropriate
- Screenshots of previous pages completed and marked up as appropriate
- Rough sketches of the layout of new pages that are required
- Colour Scheme and standards if they differ from Intelligent Plant Graphics Colour Standards
- Correct tag and datasource names are required if animations are required within pages



### 3 Page Set Up

The aspect ratio used for most graphics is 16:9 with a screen pixel size of 1920x1080. This is the convention used to fit current monitor sizes (PnID has the functionality to 'Zoom to Fit' any screen size without precision loss).

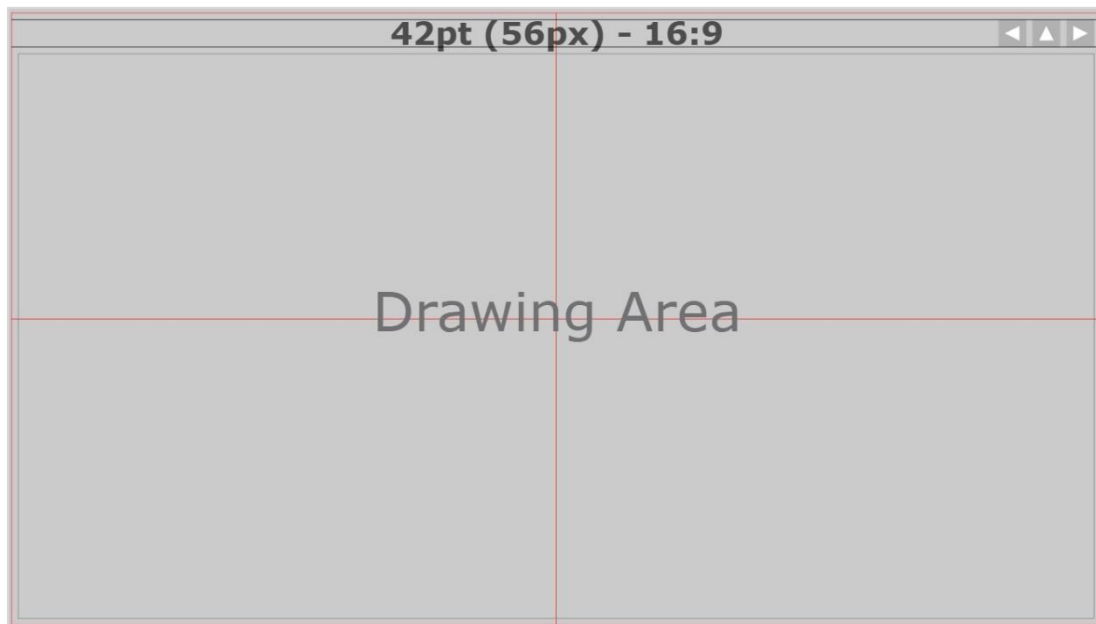


Figure 3-1 Aspect Ratio 16:9

#### Note

Check a client's monitors aspect ratio and page content of graphics for laptop, desktop monitor, IOC or ACE room screens.

#### 3.1 Quick Reference Guide

Graphic - Type	Size	Colour
Screen Size	Aspect Ratio 16:9 (1920 x 1080px)	-
Drawing Limits	Aspect Ratio 16:9 (1896 x 996px)	-
Background Colour	-	Light Grey - #CCCCCC
Process Lines	Minimum 1 pixel weight	Various
Font Type	Verdana	Various
Title	56px	Dark Grey - #4C4C4C
Text Line Descriptor	24px	Dark Grey - #4C4C4C
Text Link Animation	24px	Dark Grey - #4C4C4C
Text Instrumentation	20px	Grey - #717073
Vessel Descriptor	20px	Black - #000000
Value Animation	24px	Blue - #0000D9

Figure 3-2 Quick Reference Guide



## 4 Colour Specification

Unless specified by the client the general guidelines for graphics are detailed below.

### 4.1 Background

The screen background colour is shown as light grey (#CCCCCC).

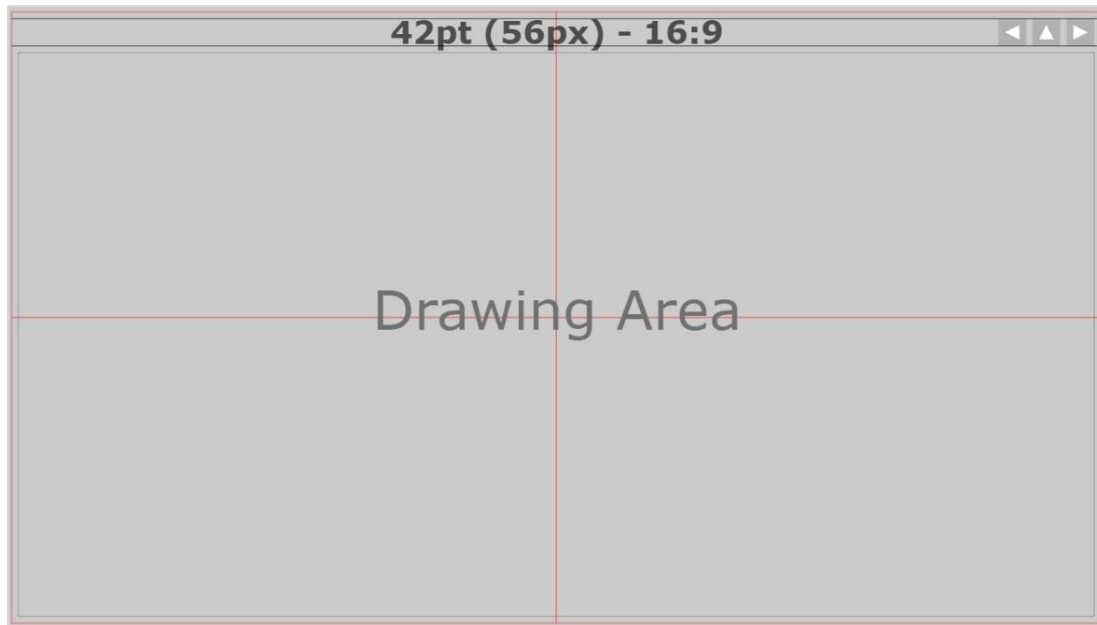


Figure 4-1 Background Colour

### 4.2 Text

#### 4.2.1 Page Title

Page Title is shown as dark grey (#4C4C4C).



Figure 4-2 Title Text

#### 4.2.2 Process Line Descriptors

Process line descriptors are shown as dark grey (#4C4C4C).



Figure 4-3 Process Line Descriptor

#### 4.2.3 Link Descriptors

Link descriptors are shown as dark grey (#4C4C4C) encased in a background of light grey (#E7E6E6).



Figure 4-4 Link Descriptor

#### 4.2.4 Vessel Descriptors

Vessel descriptors are shown as black (#000000).



Figure 4-5 Vessel Descriptor

#### 4.2.5 Instrumentation Text

Instrumentation Text descriptors are shown as dark grey (#717073).

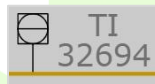


Figure 4-6 Instrumentation Text

#### 4.2.6 Value Animation Text

Value Animation Text is shown as blue (#0000D9).

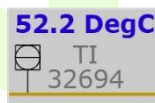


Figure 4-7 Value Animation Text

### 4.3 Linework

All linework will have a minimum weight of 1 pixel.

#### 4.3.1 Linework Pixel Size

Different line weights may be used if a specific page size is required.

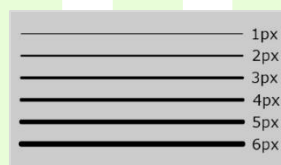


Figure 4-8 Linework Pixel Sizes

#### 4.3.2 Oil

Oil linework is shown as brown (#8E5800).



Figure 4-9 Oil Linework

#### 4.3.3 Gas

Gas linework is shown as mustard (#C69300).



Figure 4-10 Gas Linework

#### 4.3.4 Chemicals

Chemical linework is shown as purple (#5B008E).



Figure 4-11 Chemical Linework

#### 4.3.5 Glycol

Lean Glycol linework is shown as dark brown (#690000).



Figure 4-12 Lean Glycol Linework

Rich Glycol linework is shown as pink (#FF00FF).



Figure 4-13 Rich Glycol Linework

#### 4.3.6 Air Systems

Air Systems linework is shown as air force blue (#004F80).



Figure 4-14 Air Systems Linework

#### 4.3.7 Utilities

Utilities linework is shown as grey (#717073).



Figure 4-15 Utilities Linework

#### 4.3.8 Heating & Cooling

Heating Medium linework is shown as red (#FF0000).



Figure 4-16 Heating Medium Linework

Cooling Medium linework is shown as dark blue (#000056).



Figure 4-17 Cooling Medium Linework

Closed Drains linework is shown as black (#000000).



Figure 4-18 Closed Drains Linework

### 4.3.9 Water

Produced Water linework is shown as blue (#0000D9).



Figure 4-19 Produced Water Linework

Seawater linework is shown as green (#006600).



Figure 4-20 Seawater Linework

Non specified Water linework is shown as green (#006600).



Figure 4-21 Water Linework

## 4.4 Valves

### 4.4.1 Valve Open

Valve Open is shown as green (#006600).



Figure 4-22 Valve Open

### 4.4.2 Valve Travelling or Moving

Valve Travelling or Moving is shown as amber (#FFCC00).



Figure 4-23 Valve Travelling or Moving

### 4.4.3 Valve Closed

Valve Closed is shown as red (#FF0000).



Figure 4-24 Valve Closed

#### 4.4.4 Valve - Bad Data

Bad Valve data is shown as pink (#FF00FF).



Figure 4-25 Valve - Bad Data

When a page is in run mode valves would show as green, amber or red. Should you see the bad data colour pink then it is apparent that the valve is not functioning as it should and there should be further tag investigation done as to why it appears this way.

### 4.5 Pumps

#### 4.5.1 Pump Start (1)

Pump Start may be shown as green (#006600).



Figure 4-26 Pump Start (1)

#### 4.5.2 Pump Start (2)

Pump Start may be shown the same colour as the screen background (Default background colour is grey #CCCCCC).



Figure 4-27 Pump Start (2)

#### 4.5.3 Pump Stop

Pump Stop is shown as red (#FF0000).



Figure 4-28 Pump Stop

#### 4.5.4 Pump Running (1)

Pump Running may be shown as green (#006600).



Figure 4-29 Pump Running (1)

#### 4.5.5 Pump Running (2)

Pump Running may be shown the same colour as the screen background (Default background colour is grey #CCCCCC).



Figure 4-30 Pump Running (2)

#### 4.5.6 Pump Not Running or Stopped

Pump Not Running or Stopped is shown as red (#FF0000).



Figure 4-31 Pump Not Running or Stopped

#### 4.5.7 Pump – Bad Data

Bad Pump data is shown as pink (#FF00FF).



Figure 4-32 Pump - Bad Data

When a page is in run mode pumps would show as green, (grey) or red. Should you see the bad data colour pink then it is apparent that the pump is not functioning as it should and there should be further tag investigation done as to why it appears this way.

### 4.6 Vessels

#### 4.6.1 Separators

The Fill level animations in a separator may show gas (#C69300), oil (#8E5800) and water (#0000D9) if those tags are all available. If they are not all available then the background fill area is shown as mustard (#C69300) and the actual fill level animation is shown as brown (#8E5800).



Figure 4-33 Separator Colours

#### 4.6.2 Suction Scrubbers

The Fill level animation on a suction scrubber is shown as mustard (#C69300).

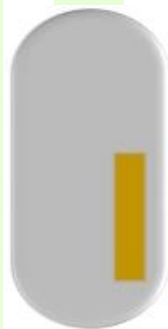


Figure 4-34 Suction Scrubber Colour

### 4.7 Value Animations

Value animations appear alongside instrumentation text and indicate process flow, level, pressure or temperature in real time. Value Animation Text is blue (#0000D9).

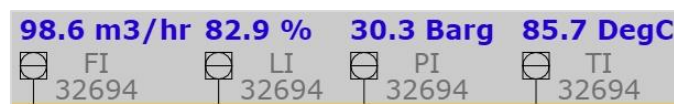


Figure 4-35 Value Animation Types

## 5 Example Dashboard in Gestalt PnID

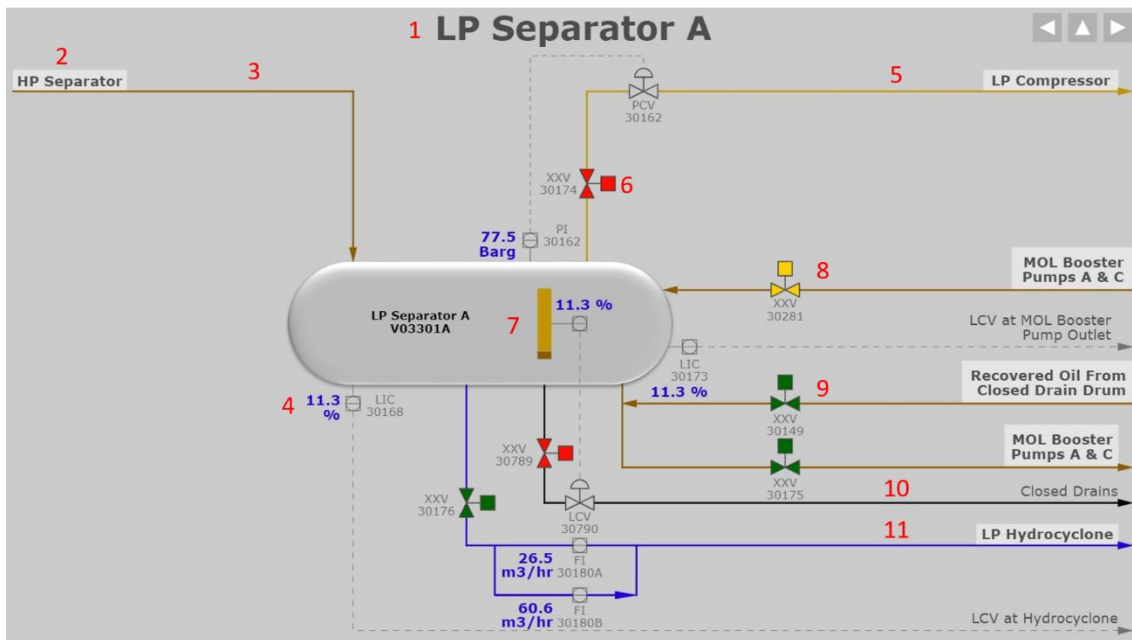
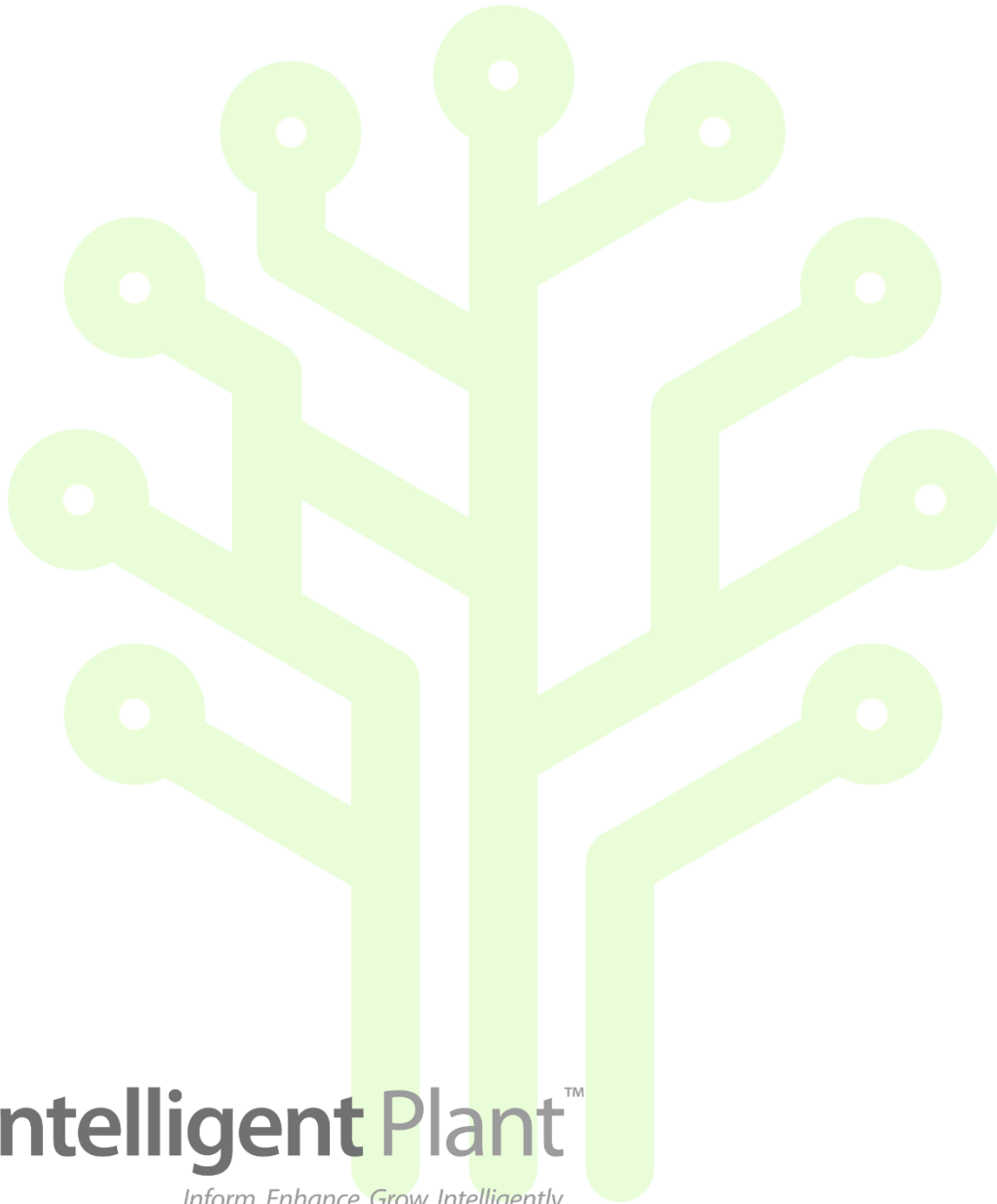


Figure 5-1 Example Dashboard in Gestalt PnID

1. Title - Dark Grey (#4C4C4C)
2. Link Animation Text - Dark Grey (#4C4C4C), Text Box (#E7E6E6)
3. Oil line - Brown (#8E5800)
4. Value Animation Text - Blue (#0000D9)
5. Gas line - Mustard (#C69300)
6. Valve Animation (Closed) - Red (#FF0000)
7. Fill Animation - Background Mustard (#C69300), Fill Brown (#8E5800)
8. Valve Animation (Travelling or Moving) - Amber (#FFCC00)
9. Valve Animation (Open) - Green (#006600)
10. Closed Drains line - Black (#000000)
11. Produced Water line - Blue (#0000D9)



**Intelligent Plant Ltd**

First Floor

489 Union Street

Aberdeen

AB11 6AZ