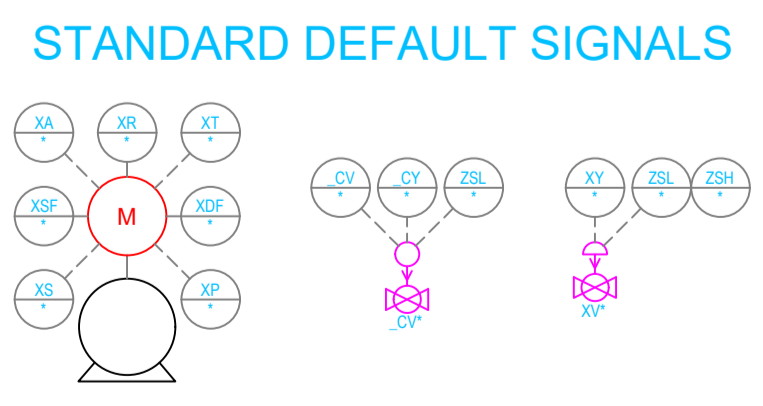


DC04	K04	RD04	SD04
DISTILLATION COLUMN 12m tall column 15m tall including support 28 bubblecap trays 316L Stainless Steel Design Pressure: 2.0 barg / FV @ 200°C Design Temperature: 200°C 316L stainless steel 316L stainless steel 316L stainless steel	KETTLE 4.3m ³ volume 2.1 barg / FV @ 200°C vessel 2885 inside diameter 6795 tan to tan B51601-316 S11 Stainless Steel Manufactured 04/95	REFLUX DRUM TO PROCURE, ROUGHLY 300kg FV @ 200°C design 316L Stainless steel 340 capacity 610 diameter 1070 tan to tan	SEPARATOR DRUM TO PROCURE, ROUGHLY 1417 lbs capacity 6000 internal dia 1470 tan to tan 316L Stainless Steel Design: 6.0 barg / FV @ 100°C
HE18 REBOILER TO PROCURE, ROUGHLY 316L Stainless Steel 80 120m ² 1 pass shell & tube Tube side heating 500-5.000kg/hr (steam 230psig) Tube: 2.07barg / FV @ 200°C Shell: 6.0barg @ 100°C	HE19 MAIN CONDENSER TO PROCURE, ROUGHLY 316L Stainless Steel 180-240m ² 1 pass shell & tube Tube side condensing 500-5.000kg/hr (steam 230psig) Tube: 2.07barg / FV @ 200°C Shell: 6.0barg @ 100°C	HE20 VENT CONDENSER TO PROCURE, ROUGHLY 316L Stainless Steel 14.7m ² 1 pass shell & tube Tube side condensing 300-3.000kg/hr (steam 230psig) Tube: 2.07barg / FV @ 200°C Shell: 6.0barg @ 100°C	HE21 BOTTOMS COOLER TO PROCURE, ROUGHLY 316L Stainless Steel 100m ² plate Process: 6.0barg @ 200°C Cooling: 6.0barg @ 50°C
HE22 PRODUCT COOLER TO PROCURE, ROUGHLY 316L Stainless Steel 100m ² plate Process: 6.0barg @ 200°C Cooling: 6.0barg @ 50°C	PN129 & 130 RECIRC PUMP TO PROCURE, ROUGHLY Centrifugal pump 316L Stainless steel 45m ³ /hr @ 16m duty 11kW 1450rpm 3phase 50hz motor	PN131 & 132 BOTTOMS PUMP TO PROCURE, ROUGHLY Centrifugal pump 316L Stainless steel 45m ³ /hr @ 16m duty 11kW 1450rpm 3phase 50hz motor	PN133 & 134 REFLUX PUMP TO PROCURE, ROUGHLY Centrifugal pump 316L Stainless steel 20m ³ /hr @ 50m duty 6kW 1450rpm 3phase 50hz motor



Tradebe Solvent Recycling
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Tyne & Wear
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http://www.tradebe.co.uk

ALL TAGS TO BE PRECEDED WITH '6103-54'- UNLESS OTHERWISE STATED
ALL PIPELINE NUMBERS TO BE PRECEDED WITH '6103-54'

REFERENCE DRAWINGS

REVISIONS

NO.	DATE	DESCRIPTION
A	06/12/21	FIRST DRAFT
B	07/12/21	KH Mods
C	10/12/21	BR Mods
D	14/12/21	AF Mods
E	31/01/22	Post HAZOP

Author: A.Fielden
31/01/22
Post HAZOP

Single line to Hoover (316) with
15kV motor relocated from K04 to
SD04 and the K04
CIP/CP added in clean line
Hoover and HAZOP added from K04
PN130 local indicator added
42 pumps from HAZOP on discharge
HOVER TANK added with 316
TTSC added as TC log on FCV644
HOVER TANK added with 316
HOVER TANK added to pump outlet
HOVER TANK added with 316
HOVER TANK added to air fan open
HOVER TANK added with 316
HOVER TANK added to end recycle of SD04

TITLE

S4 FLOWSHEET

DRAWN BY A.Fielden	DATE 04/06/20	PROJECT P354	SCALE NTS
SITE Sunderland	DRAWING No. S-PR248		REVISION E