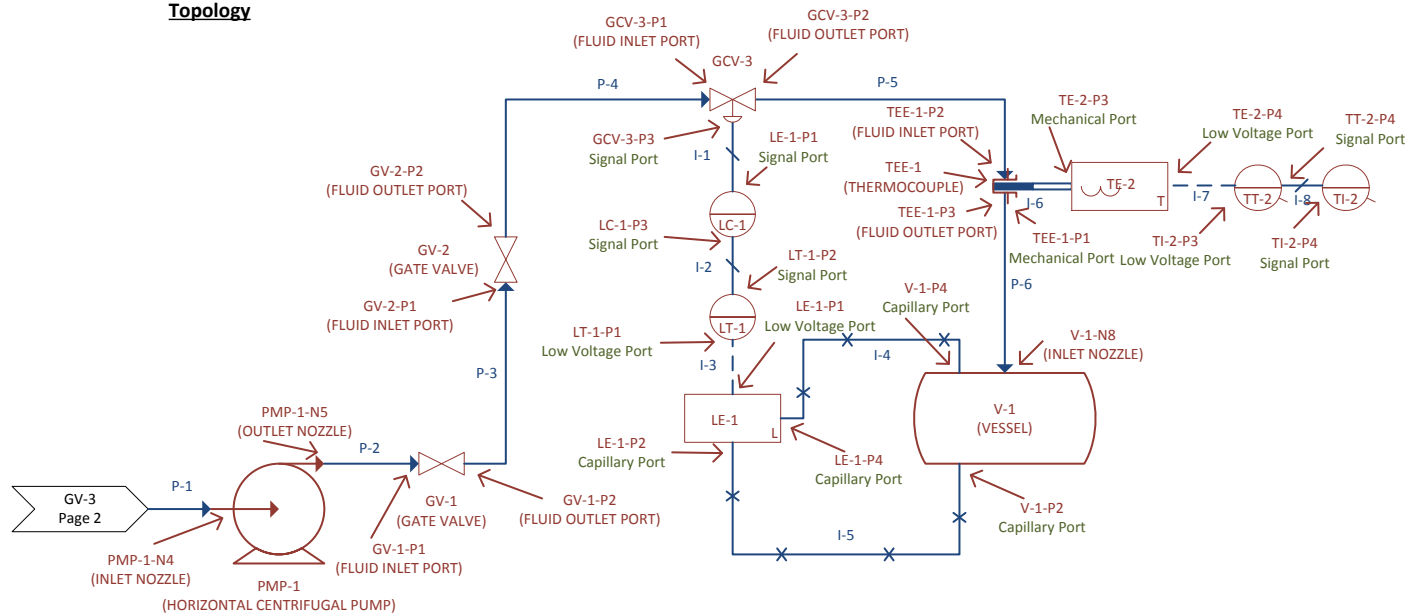


P&ID Scenario

Page 1

Topology



Red equipment are Segments
Blue lines are PortConnections

Pump Data Sheet Parameters

ABSOLUTE DESIGN PRESSURE	1340	kPa
DESIGN PRESSURE	1240	kPag
DIFFERENTIAL PRESSURE	70	kPag
FLOW RATE	167	m ³ /hr
INLET PRESSURE	1170	kPag
LOWER LIMIT DESIGN PRESSURE	400	kPag
NOMINAL DIAMETER	12	in
OPERATING PRESSURE	1240	kPag
OPERATING TEMPERATURE	53	°C
OUTLET PRESSURE	1240	kPag
RATED CURRENT	1000	amp
RATED OUTPUT POWER	250	kW
RATED VOLTAGE	240	V
ROTATIONAL SPEED	1000	RPM
TEST PRESSURE	4400	kPag
UPPER LIMIT DESIGN PRESSURE	3900	kPag
UPPER LIMIT DESIGN TEMPERATURE	200	°C
UPPER LIMIT HEAD WITH RATED IMPELLER DIAMETER	1200	ft
UPPER LIMIT POWER CONSUMPTION WITH RATED IMPELLER	500	kW
UPPER LIMIT PRESSURE	5000	kPa
UPPER LIMIT TEMPERATURE	425	°C
VAPOUR PRESSURE	1000	kPag

Assembly Breakdown

Work Unit (ISA-95 Work Unit)
 PMP-1 (HORIZONTAL CENTRIFUGAL PUMP)
 V-1 (VESSEL)
 GV-1 (GATE VALVE)
 GV-2 (GATE VALVE)
 GCV-3 (GATE CONTROL VALVE)
 LC-1 (LEVEL CONTROLLER)
 LT-1 (LEVEL TRANSMITTER)
 LE-1 (LEVEL ELEMENT)
 TI-2 (TEMPERATURE INDICATOR)
 TT-2 (TEMPERATURE TRANSMITTER)
 TE-2 (TEMPERATURE ELEMENT)
 TEE-1 (THERMOCOUPLE)

Vessel Data Sheet Parameters

LOWER LIMIT DESIGN PRESSURE	1100	kPag
OPERATING PRESSURE	1170	kPag
OPERATING TEMPERATURE	53	°C
TEST PRESSURE	1430	kPag
UPPER LIMIT DESIGN PRESSURE	1300	kPag
UPPER LIMIT DESIGN TEMPERATURE	75	°C
UPPER LIMIT PRESSURE	1400	kPag
UPPER LIMIT TEMPERATURE	100	°C

Transmitter Properties

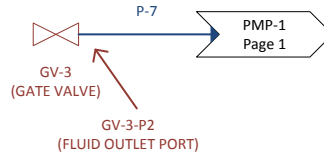
Instrument	Range	UOM	OPC Address
LT-1	0-100	%	LT1_PV
TT-2	0-260	°C	TT2_PV

Asset Installation

FuncLocation	Asset	Date	WorkOrder#
PMP-1	810001	2011-08-01	100001
V-1	710001	2011-08-01	100002
GV-1	610001	2011-08-01	100003
GV-2	610002	2011-08-01	100003
GCV-3	620001	2011-08-01	100003
LC-1	510001	2011-08-02	100004
LT-1	530001	2011-08-02	100004
LE-1	540001	2011-08-02	100004
TI-2	520001	2011-08-02	100004
TT-2	530002	2011-08-02	100004
TE-2	540002	2011-08-02	100004

P&ID Scenario

Page 2



Assembly Breakdown

Work Unit (ISA-95 Work Unit)

GV-3 (GATE VALVE)