SP1 DIAGRAM

06/25/08 glg

REV	ECO NO.	BY	CHKD	DATE

DESIGN PRESSURE 100 kPa (14.5 PSI)
OPR. PRESSURE 50 kPa (7.2 PSI)

IA → STD IN (11) → STD

STD (ST) VALVE SV1 (N/C, PLUG, COM, N/O A)

GAS VALVE WASTE (2) → GAS VALVE SV8 (N/O A, N/C, COM)

IA → (1) GAS IN
DESIGN PRESSURE 220 kPa (31 PSI)
OPR. PRESSURE 175 kPa (25 PSI)

REG, GAUGE
SET PRESSURE = 175 kPa (25.4 PSI)

PRESSURE RELIEF
SET PRESSURE = 280 kPa (40.6 PSI)

DILUTION VESSEL

METERING (ME) VALVE RV01
ME WASTE PORT 5 (13)
ME WASTE PORT 9 (14)
PLUG, PLUG, PLUG

DESIGN PRESSURE 20,700 kPa (3000 PSI)
OPR. PRESSURE 6,900 kPa (1000 PSI)
40 PSI Check Valve
DILUTION PUMP
PUMP1

DILUENT (DI) VALVE SV2 (COM, N/C, N/O PLUG A)
DILUENT IN (12) ← DI WATER IN
DESIGN PRESSURE 190 kPa (27.6 PSI)
OPR. PRESSURE 150 kPa (21.8 PSI)

VALVE COIL IS
49 cm OF 0.020" ORG
100 uL LOOP

DESIGN PRESSURE 400 kPa (58 PSI)
OPR. PRESSURE 310 kPa (45 PSI)

FROM SS - SAMPLE SELECTOR → SAMPLE IN (9)

CHECK STD (CS) VALVE SV3 (N/O A, N/C, COM)

CHK STD IN (10) → IA → CHECK STD

DV VALVE WASTE (16) (N/O A, COM, N/C)

DILUTION VESSEL (DV) VALVE SV6 (N/C, N/O A, COM)

SAMPLE STD (SS) VALVE SV5 (N/C, N/O A, COM)

GREEN 0.030 ID

DESIGN PRESSURE 20,700 kPa (3000 PSI)
OPR. PRESSURE 10,300 kPa (1500 PSI)
LOADING PUMP PUMP2

BLACK 0.010 ID
40 PSI Check Valve
(6) LOAD INJECT

SAMPLE (SM) VALVE SV4 (COM, N/C, N/O A)
(15) SM WASTE

DET CELL
BACKPRESSURE COIL
SRS WATER
ASRS
DESIGN PRESSURE 175 kPa (25 PSI)
OPR. PRESSURE 70 kPa (10 PSI)
W
ANALYTICAL COLUMN
GUARD COLUMN
LOAD/INJECT VALVE L/I
CONCENTRATOR
W
EG
DEGAS
EGC CARTRIDGE
DESIGN PRESSURE 15,800 kPa (2300 PSI)
OPR. PRESSURE 13,800 kPa (2000 PSI)
ANALYTICAL PUMP
DI WATER (ELUENT)
DESIGN PRESSURE 70 kPa (10 PSI)
OPR. PRESSURE 50 kPa (7.5 PSI)

I/O CHART ASSIGNMENTS

<1> GAS IN (1/8)
<2> GAS VALVE WASTE (1/8)
<3> N/C
<4> N/C

<5> LOAD INJ WASTE (1/16) SP5
<6> LOAD INJ OUT (1/16)
<7> PUMP WASTE (1/16) SP5
<8> PORT 3 WASTE (1/16) SP2

<9> SAMPLE IN (1/8)
<10> CHK STD IN (1/8)
<11> STD IN (1/8)
<12> DI WATER IN (1/8)

<13> PORT 5 WASTE (1/16)
<14> PORT 9 WASTE (1/16)
<15> SM WASTE (1/8) SP1
<16> DV WASTE (1/8)

Fluid	Design Temp	Opr.Temp
Inst. Air (AI)	65°C	Ambient
DI Water	27°C	20°C
Sample Stream	35°C	20°C

ITEM	P/N	DESCRIPTION	QTY

THIRD ANGLE PROJECTION

UNLESS OTHERWISE NOTED:
DIMENSIONS & TOLERANCES IN INCHES [MILLIMETERS] AFTER FINISHING
DECIMAL .X±.05 .XX±.01 .XXX±.005 .XXXX±.0005
ANGLES ±0°30'
THREAD CLASS 2A-2B (6H-6g)
DEBUR & BREAK SHARP EDGES
FILLET R OR EDGE BREAK .020 MAX
MACH'D FLAT .001 IN/IN, SURF 125 RMS
CONCENTRICITY: ø SUM DIA TOLS TIR

	BY	DATE
DWG	GLEAVE	11/16/07
CHK'D		
APP'D		

THIS DOCUMENT BELONGS TO DIONEX AND IS ONLY TO BE USED AS PERMITTED BY WRITTEN CONTRACT.

TITLE: DWG, FLUID FLOW, DIAG, SP1
MATERIAL:
FINISH:
SCALE: NONE — DO NOT SCALE THIS DRAWING

DIONEX

SIZE: D
SHT 1 OF 1
DWG NO. SPxxx
REV 01