

**Report By:**

**National TAB  
1329 E. KEMPER ROAD  
SUITE 4210  
CINCINNATI, OH 45246**



**Report: UC Pharmacy Relo PH1  
Function: Test, Adjust, & Balance  
Date: 09/03/2024**

**PROJECT**  
**UC Pharmacy Relo PH1 (Cincinnati, OH)**

3188 BELLEVUE AVENUE

Cincinnati, OH 45219

**Client**

Thomas J. Dyer Company  
5240 Lester Road  
Cincinnati, OH 45213

# National TAB

Project: UC Pharmacy Relo PH1 (Cincinnati, OH)

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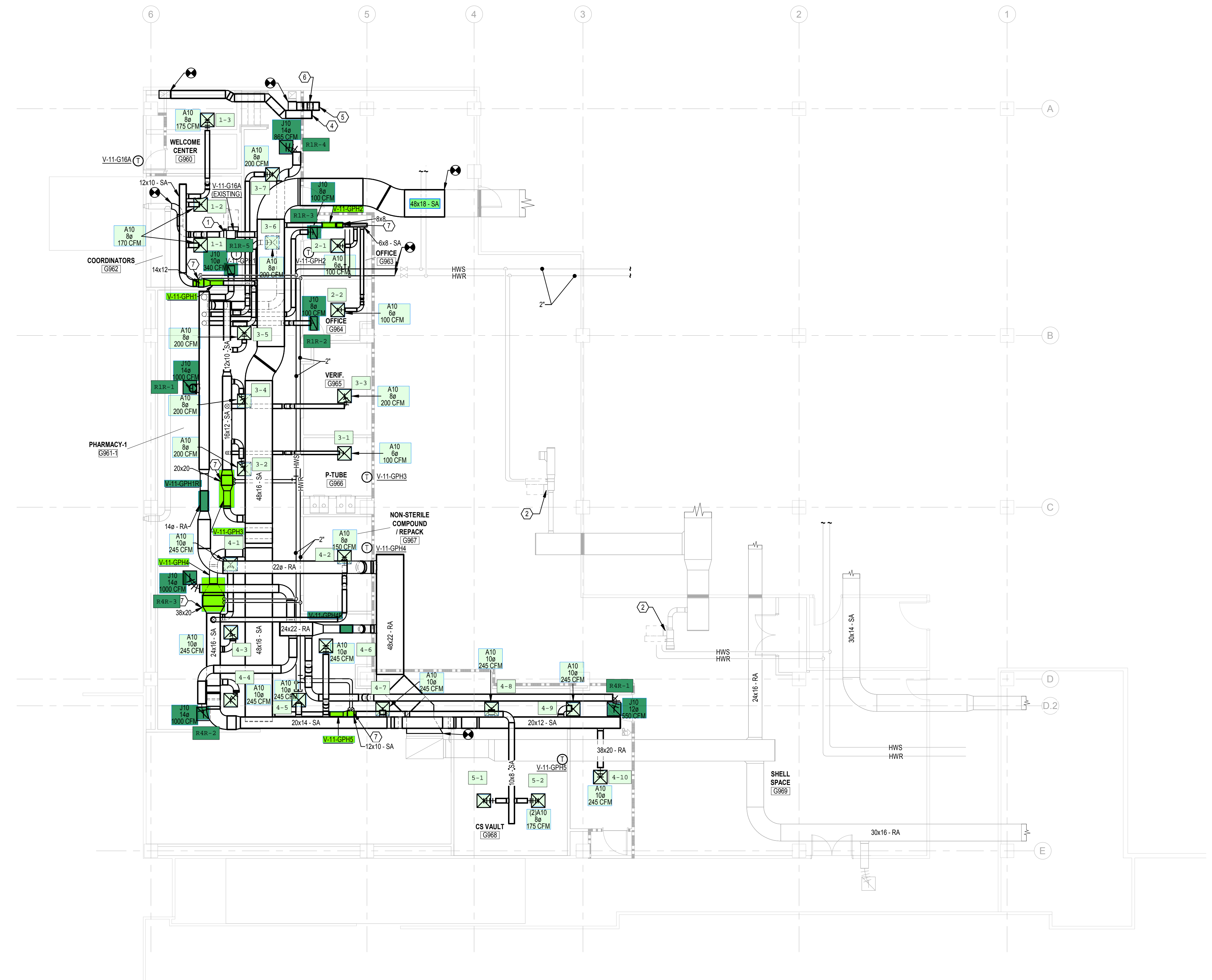
### GENERAL NOTES

A. FIRE BARRIERS - OBC 717.5.2 EXCEPTION 3 / FIRE PARTITIONS - OBC 717.5.4 EXCEPTION 4

FIRE DAMPERS ARE NOT REQUIRED (UNLESS SHOWN ON FLOOR PLANS OR SCHEMATICS) AT PENETRATIONS OF FIRE BARRIERS WHERE SUCH WALLS ARE PENETRATED BY DUCTED HVAC SYSTEMS, HAVING A REQUIRED FIRE-RESISTANCE RATING OF 1 HOUR OR LESS IN AREAS OF THESE THAN GROUP H AND ARE IN BUILDINGS EQUIPPED THROUGH WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.1.2. HVAC SYSTEM SHALL BE CONSTRUCTED OF SHEET STEEL NOT LESS THAN 26 GAUGE. FLEXIBLE AIR CONNECTORS SHALL NOT BE PROHIBITED IN FULLY DUCTED SYSTEMS AT AIR HANDLING EQUIPMENT CONNECTIONS AND AT AIR CONNECTORS INSTALLATION TO CONNECT METAL DUCT TO A CEILING DIFFUSER AND IS LOCATED ENTIRELY WITHIN THE SAME ROOM AS THE CEILING DIFFUSER. THE FLEXIBLE AIR CONNECTOR SHALL NOT PAS THROUGH ANY WALLS, FLOORS, OR CEILINGS.

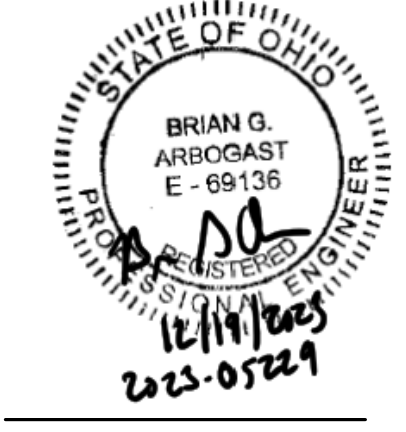
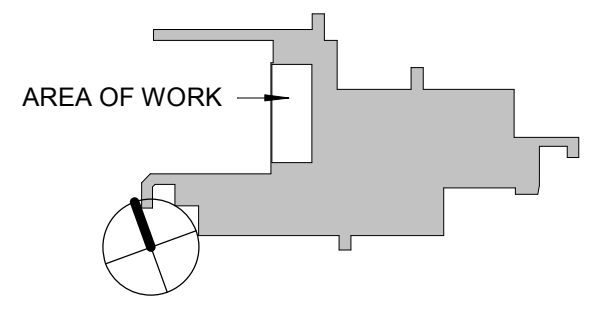
### PLAN NOTES:

1. RELOCATE EXISTING VAV LOCATION SHOWN. REBALANCE TO CFM INDICATED.
2. REBALANCE EXISTING VAV TO 650 CFM MAX.
3. RELOCATE EXISTING THERMOSTAT FOR EXISTING VAV. EXTEND CONTROL WIRING FROM THERMOSTAT TO NEW VAV BOX LOCATION. CONNECT TO THE BAS.
4. CAPPED FOR PHASE TWO USP EXHAUST. HC SHALL COORDINATE NEW DAMPER ACCESS DOORS FOR EXISTING FIRE DAMPERS LOCATED IN SLAB ABOVE. DAMPERS SHOULD BE ACCESSIBLE FROM ABOVE CEILING ON GROUND FLOOR OR WALL AND DUCT ACCESS PANELS SHALL BE PROVIDED ON LEVEL 1 ABOVE.
5. CAPPED FOR PHASE TWO GENERAL EXHAUST. HC SHALL COORDINATE NEW DAMPER ACCESS DOORS FOR EXISTING FIRE DAMPERS LOCATED IN SLAB ABOVE. DAMPERS SHOULD BE ACCESSIBLE FROM ABOVE CEILING ON GROUND FLOOR OR WALL AND DUCT ACCESS PANELS SHALL BE PROVIDED ON LEVEL 1 ABOVE.
6. TRANSITION DUCT INTO OPEN SPACE BETWEEN BEAMS.
7. DUCT MOUNTED HEATING COIL FURNISHED WITH AIR VALVE.



1 PARTIAL GROUND FLOOR PLAN - NEW WORK  
SCALE: 1/8" = 1'-0"

### KEY PLAN



12/20/23 Date

1 ISSUED FOR PERMIT AND CONSTRUCTION Issue/Revision/Submission No.

BHDP ARCHITECTURE  
CINCINNATI  
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**BHDP**  
XX XX XX

UCMC PHASE I PHARMACY RELOCATION  
3188 BELLEVUE AVENUE  
CINCINNATI, OH 45219-2316  
PARTIAL GROUND FLOOR PLAN - NEW

Project Manager  
Approver  
Drawn  
SMG  
Checked  
BHS  
Initial Drawing Date  
2023.12.20  
Project Number  
UCH0316



P: 937-224-0861 www.heapy.com  
PROJECT NO. 2023-05229

M101

# National TAB

Project: UC Pharmacy Relo PH1 (Cincinnati, OH)

## VAV - Single Duct



**AIR VALVES/**

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
V-11-GPH1	VAV		515	499	515	499	0	0	680

Completed By: Riley Frady on 08/20/2024

**Diffuser Supply (GRD)**

**V-11-GPH1/COORDINATORS**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	G962	A10	8	170	218	163	95.9
1-2	G962	A10	8	170	198	175	102.9
1-3	G960	A10	8	175	169	161	92.0
Total				515	585	499	96.89%

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## VAV - Single Duct



**AIR VALVES/**

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
V-11-GPH2	VAV		200	219	200	219	0	0	680

Completed By: Riley Frady on 08/20/2024

**Diffuser Supply (GRD)**

**V-11-GPH2/OFFICE**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1	G963	A10	8	100	118	110	110.0
2-2	G964	A10	8	100	126	109	109.0
Total				200	244	219	109.5%

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Project: UC Pharmacy Relo PH1 (Cincinnati, OH)

## VAV - Single Duct



**AIR VALVES/**

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
V-11-GPH3	VAV		1300	1325	1300	325	0	0	720

Completed By: Riley Frady on 08/20/2024

**Diffuser Supply (GRD)**

**V-11-GPH3/G968**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3-1	G966	A10	12	100	122	109	109.0
3-2	G961-1	A10	12	200	269	207	103.5
3-3	G965	A10	12	200	36	210	105.0
3-4	G961-1	A10	12	200	297	215	107.5
3-5	G961-1	A10	12	200	319	211	105.5
3-6	HALL	A10	12	200	278	187	93.5
3-7	HALL	A10	12	200	182	186	93.0
Total				1300	1503	1325	101.92%

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Project: UC Pharmacy Relo PH1 (Cincinnati, OH)

## VAV - Single Duct



**AIR VALVES/**

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
V-11-GPH4	VAV		2355	2270	2350	2270	0	0	2260

Asset	Notes	Date	Written By
V-11-GPH4	No damper on 4-2 at top of duct, unable to finish device balance	08/20/2024	Riley Frady

**Diffuser Supply (GRD)**

**V-11-GPH4/PHARMACY-1**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
4-1	G961-1	A10	14	245	282	240	98.0
4-2	G967	A10	14	150	202	178	118.7
4-3	G961-1	A10	14	245	314	225	91.8
4-4	G961-1	A10	14	245	233	206	84.1
4-5	G961-1	A10	14	245	321	233	95.1
4-6	G961-1	A10	14	245	259	278	113.5
4-7	HALL	A10	14	245	258	233	95.1
4-8	HALL	A10	14	245	280	259	105.7
4-9	HALL	A10	14	245	239	224	91.4
4-10	G969	A10	14	245	223	194	79.2
Total				2355	2611	2270	96.39%

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## VAV - Single Duct



**AIR VALVES/**

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
V-11-GPH5	VAV		350	358	350	358	0	0	676

Completed By: Riley Frady on 08/20/2024

**Diffuser Supply (GRD)**

**V-11-GPH5/PHARMACY-1**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-1	G968	A10	8	175	185	167	95.4
5-2	G968	A10	8	175	216	191	109.1
Total				350	401	358	102.29%

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## VAV - Single Duct



**AIR VALVES/**

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
V-11-GPH1R 1	VAV		2405	2402	1865	2402	0	0	1530

Completed By: Riley Frady on 08/20/2024

**Diffuser Ret/Exh (GRD)**

**V-11-GPH1R 1/PHARMACY-1**

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
1R1-1	J10	14	1000		740		1037	103.7
1R1-2	J10	8	100		137		99	99.0
1R1-3	J10	8	100		126		105	105.0
1R1-4	J10	14	865		579		801	92.6
1R1-5	J10	10	340		270		360	105.9
Total			2405		1852	0	2402	99.88%

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## VAV - Single Duct



**AIR VALVES/**

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
V-11-GPH4R 1	VAV		2550	2499	2550	2463	0	0	2700

**Diffuser Ret/Exh (GRD)**

**V-11-GPH4R 1/G961-1**

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R4R-1	J10	12	550		541		582	105.8
R4R-2	J10	14	1000		846		915	91.5
R4R-3	J10	14	1000		984		1002	100.2
Total			2550		2371	0	2499	98%

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**Circuit Setter**

**HW CS/**

Asset							
Asset Name	Size	Type	Design GPM	Setting	Delta P	Final GPM	% to Design
CS-1	0.75	AUTOFLOW	0.4	2-32 PSI	5.5	0.4	100.0
CS-2	0.75	AUTOFLOW	1.1	2-32 PSI	6.2	1.1	100.0
CS-3	1	AUTOFLOW	2.6	2-32 PSI	5.8	2.6	100.0
CS-4	1	AUTOFLOW	4.6	2-32 PSI	5.2	4.6	100.0
CS-5	0.75	AUTOFLOW	0.7	2-32 PSI	5.1	0.7	100.0
Total			9.4			9.4	100%