LEAK DETECTION & NOTIFICATION FOR CO2 BEVERAGE DISPENSING APPLICATIONS

Carbon dioxide (CO2) systems with more than 100 pounds of carbon dioxide used in beverage dispensing applications shall comply with 2018 IFC 5307 & 916, 2016 NFPA 55, 2018 IMC and the following:

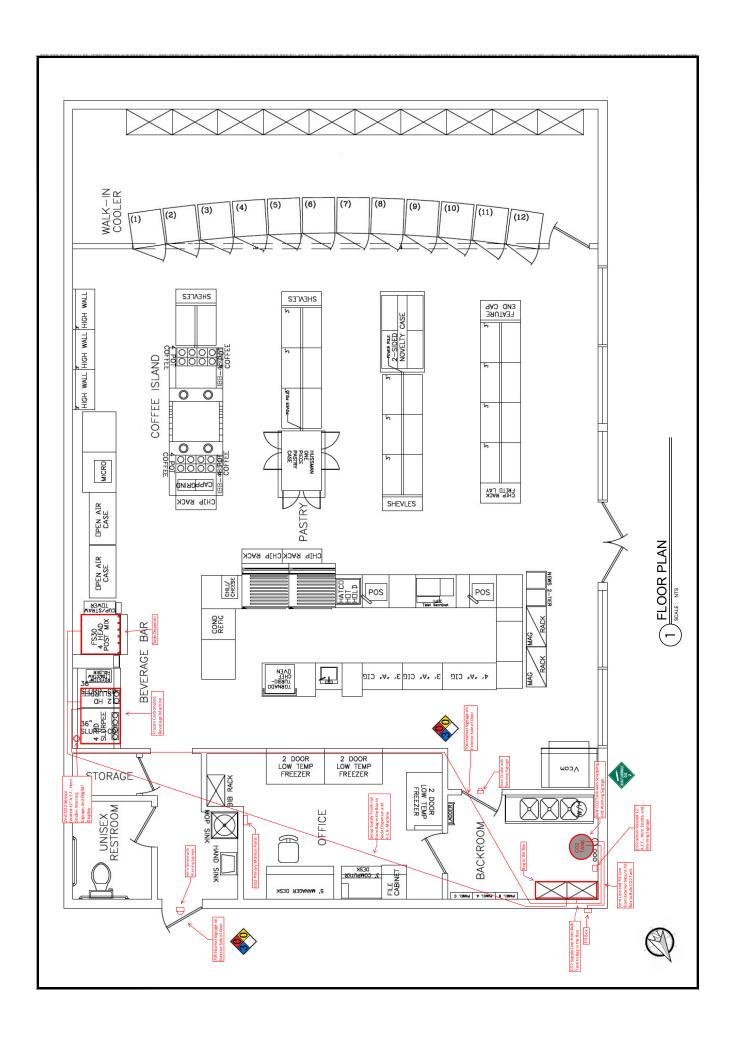
- Plan submittal. Provide a floor plan showing the location of the CO2 tank, piping, exterior fill location, CO2 sensors, notification devices, system control unit and required signage. Spec sheets for the tank and system components shall be included with the submittal. See attached plan sheet example. The permit application and plan review documents must be approved prior to final inspection and building occupancy.
- <u>Permit.</u> An annual "operational permit" and fire department inspection is required for CO2 detection systems. The "operational permit" fee is \$240.00 annually.
- <u>Leak Detection / Notification.</u> Rooms or areas containing carbon dioxide storage tanks, cylinders, piping and fittings and other areas where a leak of carbon dioxide can collect must have an emergency alarm system installed.
 - ➤ <u>Emergency alarm system.</u> An emergency alarm system shall comply with all of the following:
 - Continuous gas detection shall be provided to monitor areas where carbon dioxide can accumulate.
 - Activates an audible & visual "supervisory" alarm upon detection of a CO2 concentration of 5,000ppm in a normally attended location.
 - Activates an audible & visual emergency alarm within the room or immediate area in which the system is installed upon detection of CO2 concentration of 30,000ppm.
- AcceptanceTesting & Annual Certification. Inspection and testing of gas detection systems shall be conducted following the initial installation and then on an annual basis. Sensor calibration shall be confirmed at the time of installation. Future system calibration shall be performed at the frequency specified by the sensor manufacturer. CO2 emergency alarm systems are required to be certified and tagged annually.
- <u>System Installation & Certification.</u> The following companies have been approved by Unified Fire for system installation, maintenance, annual inspection and certification.

Bevgas

2100 N Redwood Rd #85 Salt Lake City, Utah Jarid Wortinger 801-683-7444 www.bevgasutah.com **CO2 Monitoring, LLC**

4310 Cameron St. #7 Las Vegas, NV 702-844-8428 www.aerospheremonitoring.com NuCO2

651 W 600 S Salt Lake City, Utah Christopher Southwick 385-226-0044 www.nuco2.com



Accuflex Beverage Transfer Products



- Bevlevé Series TO Polyester-Reinforced Polyethylane Bewerage Hose

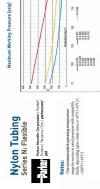
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Nominal Specificat	Fications								
Part # Number	Standard Packaging	(in)	Neminal 00) (in.)	Max. Worki Pressure † () 70°F 12	vehing 1 (PSI) 1227	Weig Paci Bs.	Neight per Package bs. kgs.	Min. Bending Radius (in.)	Ctamp Size (men)
· 170-041X2	100' Boxed Coil	265	457	300	150	6.2	2.8	1.10	13.3
170-04505	500' Board Spool 500' Board Spool	58 58	.517	300	20 05	8 8	15.6	110	140
170-05300	300' Board Spool 500' Red	380	593	300	150	22.9	10.4	255	15.7
170-051X0 170-053X1	100' Boxed Coll 300' Boxed Spool	380	835	8 8	150	15.0	6.8	22.52	0,71 0,71
170-08300	300' Whapped Coll 500' Red	510	740	250	125	48.1	122	300	19.8
† Mote: Working Pressure	Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures	Creases. P	TESSURE FASE	gs can only	be obtaine	d with pro	per coupl	ing procedures.	
. 100' one-piece cols may be available	one-piece colls may be available — ideal for kits and bag-in-box racks	s and bog	n-bax rados	-					

CO2 SUPPLY LINE SCALE: NTS





Part Number	Part Number	20	on on	100	999	Thick.	Average Wall Dickness	Pres Pres	Working Pressure Stressore	A SE	Minimum Burst at 70% core	Reel	188	Minimum Bend Redius	N.	Meight
#	#		0	0	0	9	(6)	0	0	1	Л		Cox	R	H	2
Matural	Black	inch	E	inch	E	inch	ш	8	ž	150	bar	feet	inch	u	Bs.m.	April 1
WN-2-016	NB-2-016	1/8	32	(83	77	910	0.41	250	17.2	1000	680	0100,0250	ĸ	4.8	900	900
WN-2-031	NB-2-031	1/8	3.2	188	178	1891	0.78	900	34.5	2000	137.9	0100,0250	10	4.6	100	900
NN-2.5-025	NB-2.5-025	5/32	0.4	109	2.7	005	0.64	300	20.7	1200	52	0100,0250	S	12.7	900	000
NN-3-025	NB-3-025	3/16	879	138	3.5	929	980	250	17.2	1000	0.89	0100,0250	8	16.0	900	900
NN-3-048	NB-3-045	3/16	879	989	24	940	12	900	34.5	3000	137.9	0100,0250	¥	11.2	603	.013
WN-4-035	NB-4-035	1/4	6.4	180	4.6	933	0.89	250	17.2	1000	089	0100,0250	88	22.4	110	910
WN-4-040	NB-4-040	1/4	979	2	63	040	1.0	310	\$12	1250	96.2	0100, 0250	83	22.4	.012	810
NN-4-052	NB-4-092	1/4	6.4	127	32	095	1.6	900	34.5	3000	137.9	0100,0250	93	12.7	210	500
WN-5-040	NB-5-040	5/16	7.8	233	88	040	10	052	17.2	1000	0.89	0100,0250	1.13	28.7	910	1004
050-9-NN	NB-6-050	38	9.6	275	7.0	020	1.3	250	17.2	1000	0.69	0100,0050	1.13	28.7	.023	1004
NN-6-093	NB-6-033	200	98	981	2	033	2.4	98	34.5	3000	137.9	0100,020	12	19.0	103	99
WN-8-062	NB-6-082	1/2	12.7	375	9.8	015	1.8	250	17.2	1000	0.89	0100,0250	1.25	31.8	EDJ:	.063
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Proceedings Procession Pr	A-4770-08-RT-10EI-10EI-120.0		10 feet
	A-4770-08-RT-1063-1063-180.0		15 feet
	A-4770-08-RT-10FI-10FI-300.0	Ĺ	25 feet
Part	A-4770-08-RT-10FJ-10FJ-360.0		30 feet
	A-4770-08-RT-1063-1063-400.0		Sofeet
	A-4770-08-RT-10EI-10EI-900.0		75 feet
The true knowless with restrictions and consideration of the considerati	A-4770-06-RT-10EJ-10EJ-1200.C	Ĺ	100 feet
2000 2000 212	kote: Assemblies with vent tubing : Part #	also available. ACCESSORIES	
006 12FWF 12FWF 20cFF9.05S87657 20c15.3G	D1005	FlexCrimp Portable Crimper	
006 126 12FWF 12FWF 12FWF 126-15.5G	D100:1	ValPower Hand Pump	
006 800 112FWF 112FWF 20n6F90.55.87657 1-20-15.5G	D100-2	ValPower Pneumatic Pump	
	PF-100	Hose Swager	
	4599-FP006	Pusher for 1/2" Hose	
	4540-30800	Die for 1/2" Hose	
	879C12-12F	FIII Gun Quick Connect - Wing Nut Style	
	B78N12-12FWF	Wall Box Nipple w/ 6 Hole Flange	
	955 8MPS0xFP50.55 87657	90 Degree Stainless Live Swivel from Con	nection to Reel
	N718-25-26-15.5G	Hose Reel w/ 1/2" Super Swivel Full-Flow,	Low Temp

The QUICK STRAP® #QS-120 is a seismiclearthquake support system for water heaters up to 120 U.S. gallors in size. The system includes: (4) Straps, (4) L-Citps, (4) Leg Bolts, (2) 36" Carriage Bolts and (2) 36" Hex Mus. The Quick Link® system allows for full adjustment from the front side of the water heater.

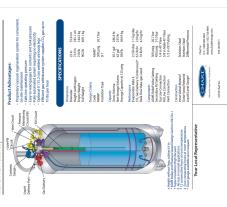
strical Specifications
Prover supply 90-250V AC, 1A Max
Optional 24V DC, 2.54 max
Relays DPDT, 24V DC / 220V AC, 2A

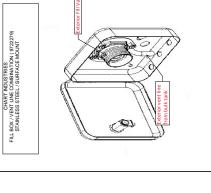
PRODUCT SPECIFICATION DRAWING OUICK STRAP® #QS-120 Seismic support for water heaters

Material: Strap, 24 gage CRS, galvanitzed California Division State Architect (DSA) approval #88-018 UPC / IPC / IAPMO listed

FILL LINE UNISOURCE ...









CO2 MONITOR

Strapping Alternatives:

1.) Tank may be bolted directly to floor

2.) Tank may be secured with chain
fastened to wall









FILL BOX

WARNING SIGNAGE
SOALE: NTS