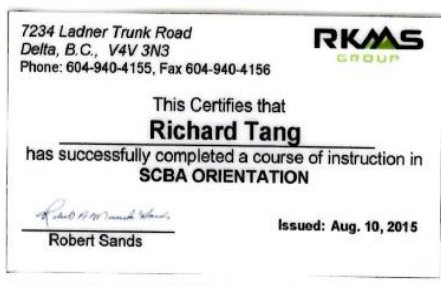
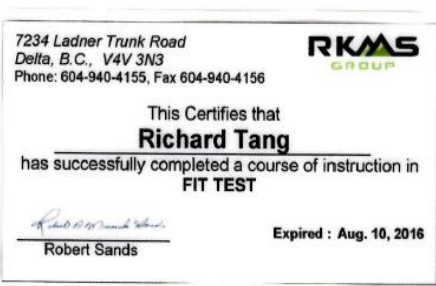




Graphics relating to this press release dated November 6, 2016
Supplemental Information of our Confined Space program.



Sample confined space entry permit

Employer name _____ Project name _____
 Date _____ Permit end time _____
 Assessment performed by _____ Permit start time _____

Location of confined space (or spaces if they are similar)
Description of confined space (or spaces if they are similar)
Description of work to be performed

Monitoring equipment

Air testing equipment	Serial #	Last calibrated

Air quality results

	Location:			Location:			Location:		
	1	Test # 2	3	1	Test # 2	3	1	Test # 2	3
Time of test:									
Oxygen %									
Combustibles %									
Atmospheric hazard:									
Atmospheric hazard:									
Atmospheric hazard:									
Other:									

Tester's name _____ Signature _____

CONFINED SPACE ENTRY PERMIT

DATE/TIME PERMIT ISSUED: 12-23-11 0800		EXPIRATION DATE/TIME: 12-23-11 10:00	
LOCATION (FAC #): FC-315-NW-002-03		DESCRIPTION: Pump Station	
PURPOSE OF ENTRY: Cleaning bar screen and wash well		DEPT/DIV/SHOP: I46 (PWB) / 84	
AUTHORIZED ENTRANT(S): [REDACTED]		AUTHORIZED ATTENDANT(S): [REDACTED]	
TIME OF ACTUAL ENTRY: 0826		TIME OF COMPLETION OF ENTRY: 0841	
ATMOSPHERIC TEST DATA			
TEST	PRE-ENTRY RESULTS	FOLLOW-UP TESTING RESULTS	
O ₂ (19.5 - 22%)	20.9	20.9	
% LEL (<10%)	0	0	
CO (<25 ppm)	0	0	
H ₂ S (<10 ppm)	0	0	
TIME		0841	
TOXICS			
1)			
2)			
PRE-ENTRY TESTING BY: [REDACTED]		DATE: 12-23-11	TIME: 0825
INSTRUMENT	MODEL	SERIAL #	GAS-CAL DATE/TIME
Biosystem	Multipro	2016B	12-23-11 0116
			PASSED GAS-CAL: Y/N? YES
ZERO CALIBRATION PRIOR TO ENTRY CONDUCTED BY: Simon Jacks			
REQUIRED SAFETY CONTROLS/OBSERVED HAZARDS			
REQUIREMENT	YES	NO	COMMENTS/CONTROL MEASURES/EQUIPMENT
ATTENDANT	<input checked="" type="checkbox"/>		
* Respiratory Protection		<input checked="" type="checkbox"/>	
* Protective Clothing		<input checked="" type="checkbox"/>	
* PPE	<input checked="" type="checkbox"/>		Steel toe boots and rubber gloves
Fire Extinguisher		<input checked="" type="checkbox"/>	
* Non-Entry Rescue Eqpt	<input checked="" type="checkbox"/>		Winch and harness
* Lockout/Tagout		<input checked="" type="checkbox"/>	
* Ventilation	<input checked="" type="checkbox"/>		Ventilation fan
* Follow-up Testing	<input checked="" type="checkbox"/>		Continuous monitoring
* Other Controls		<input checked="" type="checkbox"/>	
Are workers trained?	<input checked="" type="checkbox"/>		Confined space certified
* COMMENTS REQUIRED IF CHECKED "YES"			
Communication: (Circle)	<input checked="" type="radio"/> (VISUAL)	<input type="radio"/> (DIRECT VERBAL)	PHONE RADIO
EMERGENCY CONTACT:	BASE FIRE DEPARTMENT (EMS)		PHONE: 911
IS THE SPACE LABELED? (YES) or NO	OTHER COMMENTS: NONE		
PERMIT ISSUED - ENTRY SUPERVISOR'S SIGNATURE:	PERMIT CANCELLED - ENTRY SUPERVISOR'S SIGNATURE:		
[REDACTED]	[REDACTED]		
PRINT NAME HERE:	PRINT NAME HERE:		
[REDACTED]	[REDACTED]		
PERMIT REVIEWED BY (INITIALS & DATE): SHOP SUPERVISOR AM 12-27-11 CSPM			

* PERMIT MUST REMAIN AT ENTRY POINT(S) UNTIL WORK IS COMPLETE - A COPY MUST BE FORWARDED TO CSPM WITHIN ONE WEEK OF ENTRY - MAINTAIN ONE COPY AT SHOP LOCATION - ONLY AUTHORIZED ENTRANTS LISTED ON PERMIT MAY ENTER FRCS - PERMIT MUST BE FILLED OUT COMPLETELY - NOTIFY CSPM OF ANY UNEXPECTED HAZARDS OR EMERGENCIES ENCOUNTERED - FOR ASSISTANCE CALL CSPM - (910) 451-7449

Confined Space Supplemental Information

Table 1: Common hazardous gases that might be present in a confined space

Substance*	8-hour time-weighted average (TWA)	15-minute short-term exposure limit (STEL)	Ceiling limit (never to be exceeded)	Immediately dangerous to life and health (IDLH)	Recommended alarm settings (low / high)
Ammonia	25 ppm	35 ppm	—	300 ppm	13 ppm / 25 ppm
Carbon monoxide	25 ppm	100 ppm	—	1200 ppm	13 ppm / 25 ppm
Chlorine	0.5 ppm	1 ppm	—	10 ppm	0.25 ppm / 0.5 ppm
Hydrogen sulfide	—	—	10 ppm	100 ppm	5 ppm / 10 ppm
Methane	1000 ppm	—	—	—	500 ppm / 1000 ppm
Nitrogen dioxide	—	—	1 ppm	20 ppm	0.5 ppm / 1 ppm
Sulfur dioxide	2 ppm	5 ppm	—	100 ppm	1 ppm / 2 ppm
Oxygen	—	—	—	—	20.5% of atmosphere
Lower explosive limit (LEL)	—	—	—	—	5% LEL

Characteristics of Toxic Gases

Characteristics of Toxic Gases:

Recordkeeping

The employers must keep records of every

- ✓ plan
- ✓ assessment
- ✓ coordination document
- ✓ training
- ✓ entry permit
- ✓ record of rescue equipment inspection
- ✓ record of tests.

The records must be kept for at least one year after the project is finished, and they must be available for inspection.





COMBINATION GAS & VAPOR CARTRIDGES WITH P100 PARTICULATE FILTERS

 <p>Part No. 75SCP100</p> <p>Defender™ Multi-Purpose Cartridge with a P100 Particulate Filter: Organic Vapor, Ammonia, Methylamine, Formaldehyde and Acid Gas (Chlorine, Hydrogen Chloride, Sulfur Dioxide, Hydrogen Sulfide [Escape], Hydrogen Fluoride, Chlorine Dioxide) with a P100 particulate</p>	 <p>Part No. 7581P100</p> <p>Organic Vapor Cartridge with a P100 Particulate Filter (99.97% minimum filter efficiency) for all particulates</p> <p>Label Color: Black and Magenta</p>	 <p>Part No. 7582P100</p> <p>Acid Gas (Chlorine, Hydrogen Chloride, Sulfur Dioxide, Hydrogen Fluoride, Chlorine Dioxide) and Formaldehyde Cartridge with a P100 Particulate Filter (99.97% minimum filter efficiency) for all particulates</p> <p>Label Color: White and Magenta</p>	 <p>Part No. 7583P100</p> <p>Organic Vapor and Acid Gas (Chlorine, Hydrogen Chloride, Sulfur Dioxide, Hydrogen Fluoride, Chlorine Dioxide) Cartridge with a P100 Particulate Filter (99.97% minimum filter efficiency) for all particulates.</p> <p>Label Color: Yellow and Magenta</p>	 <p>Part No. 7584P100</p> <p>Ammonia and Methylamine Cartridge with a P100 Particulate Filter (99.97% minimum filter efficiency) for all particulates</p> <p>Label Color: Green and Magenta</p>
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DANGER
PERMIT REQUIRED
CONFINED SPACE
DO NOT ENTER

DANGER
CONFINED SPACE
ENTRY BY PERMIT ONLY

DANGER
CONFINED SPACE
Enter by permit only.

DANGER
CONFINED SPACE

DANGER
CONFINED SPACE
ENTER BY PERMIT ONLY

DANGER
CONFINED SPACE
AUTHORIZED PERSONNEL ONLY

DANGER
CONFINED SPACE ENTRY
Shouldn't Be A One Way Trip

DANGER
Do not enter without a confined space permit

Standby Worker, Alarm Horn, Gas and Flame Detector, Emergency SCBA, Lifeline to Safety Personnel

DANGER
CONFINED SPACE
ENTRY BY PERMIT

3M FILTER & CARTRIDGE SELECTION REFERENCE GUIDE

CARTRIDGES AND FILTERS FOR AIR-PURIFYING RESPIRATORS

GAS, VAPOR & PARTICULATE CARTRIDGES

 <p>OV Organic Vapor</p> <p>Certain Organic Vapors</p> <p>Label Color: Black</p>	 <p>OV / P95 Organic Vapor / P95</p> <p>Organic Vapor Cartridge</p> <p>Label Color: Black and Grey</p>	 <p>OV / P100 Organic Vapor / P100</p> <p>Certain Organic Vapors and Particulates</p> <p>Label Color: Black and Magenta</p>	 <p>AG Acid Gas</p> <p>Chlorine, Hydrogen Chloride, and Sulfur Dioxide or Chlorine Dioxide or Hydrogen Sulfide</p> <p>Label Color: White</p>	 <p>AG / P100 Acid Gas / P100</p> <p>Chlorine, Hydrogen Chloride, and Sulfur Dioxide or Chlorine Dioxide or Hydrogen Sulfide and Particulates</p> <p>Label Color: White and Magenta</p>
 <p>OV / AG Organic Vapor / Acid Gas</p> <p>Certain Organic Vapors, Chlorine, Hydrogen Chloride, and Sulfur Dioxide or Hydrogen Sulfide or Hydrogen Fluoride</p> <p>Label Color: Yellow</p>	 <p>OV / AG / P100 Organic Vapor / Acid Gas / P100</p> <p>Certain Organic Vapors, Chlorine, Hydrogen Chloride, and Sulfur Dioxide or Hydrogen Sulfide or Hydrogen Fluoride and Particulates</p>	 <p>AM / MA Ammonia / Methylamine</p> <p>Ammonia and Methylamine</p> <p>Label Color: Green</p>	 <p>AM / MA / P100 Ammonia / Methylamine / P100</p> <p>Ammonia and Methylamine and Particulates</p> <p>Label Color: Green and Magenta</p>	 <p>FM / OV Formaldehyde / Organic Vapor</p> <p>Formaldehyde / Certain Organic Vapors</p> <p>Label Color: Olive</p>



Chemical Industry Applications Products & Services Online-Services Company

Home > Chemical Industry > Products & Services > Gas Detection Devices > Calibration and Bump Testing >



Image 1

Image 2

Image 3

Dräger Bump Test Station

Function tests can be easily performed on site.

[Contact Us](#)

Product Information

- ▶ **Benefits**
- ▶ Specifications
- ▶ Components
- ▶ Literature

Benefits

Easy to use

The Dräger Bump Test Station enables you to perform function tests using a test gas cylinder in a matter of seconds. As the Bump Test Station does not need to be connected to a mains supply, it is very flexible in use.

Related Products

- ▶ Related Products

Service & Support

Reliable results

Sometimes trust is not enough, tests are also essential. Generally, you are required to regularly test the proper functioning of the instrument with a known gas concentration in order to guarantee reliable and correct warning. Particularly when it comes to the safety of your colleagues.