JORDAIR
COMPRESSORS INC.

FILL-KAT "D" SERIES NFPA 1901 LINEAR FILL STATIONS

Jordair breathing compressors and air filter systems meet or exceed the latest CSA standard CAN/CSA-Z180.1-00 (approved January 2001).

Jordair QC Program

- ISO 9001:2008
- CSA Cert. No. LR77799
- CRN Pressure Components
- B&PV Licence MA 1007

System Features:

- Positive Door Lock
- Full Protection
- Multiple Filling
- PLC Fill Speed Control
- Ball valves filling

New Jordair Technology

Station Features:

- Third Party Tested
- Front Door ½" Plate
- Operator Protection
- Safety First

TECHNICAL DATA FOR THE FILL-KAT "D" SERIES FILL STATIONS

MODEL	FILL POINTS	FILL PRESSURE	CRATED WEIGHT	SIZE "CM" H x D x W
FILL-KAT-D2	2	2216, 3000 or 4500 PSIG	650 KG	173 x 97 x 86
FILL-KAT-D3	3	2216, 3000 or 4500 PSIG	660 KG	173 x 97 x 86
FILL-KAT-D4	4	2216, 3000 or 4500 PSIG	670 KG	173 x 97 x 86
FILL-KAT-D6	6	2216, 3000 or 4500 PSIG	700 KG	173 x 137 x 86
FILL-KAT-D8	8	2216, 3000 or 4500 PSIG	720 KG	173 x 137 x 86
FILL-KAT-D10	10	2216, 3000 or 4500 PSIG	830 KG	173 x 178 x 86
FILL-KAT-D12	12	2216, 3000 or 4500 PSIG	850 KG	173 x 178 x 86

JORDAIR – "RELIABILITY & SAFETY" – BAUER
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FILL-KAT "D" SERIES NFPA 1901 LINEAR FILL STATIONS

FILL-KAT PLC CONTROLLED FILLING STANDARD FEATURES

The TD200 PLC touch screen display controls the SCBA filling complete with software for the following protocols:

- Linear filling of SCBA cylinders with optional compressor interface for integrated compressor and fill station operation.
- Operator control is optional as open use or overseen by a password system which ensures only fully trained operators are filling the SCBA cylinders.
- The fill station is set to fill at the CSA standard rate of exactly 300 PSIG per minute, other fill rates up to 1500 PSIG per minute can be selected by entering the pass code and selecting the new fill rate displayed on the screen. The system defaults to the 300 PSIG/min rate.
- The FILL-KAT series SCBA recharging system is a free standing and complete filling/de-fragmentation station for 2216, 3000 and/or 4500 psig cylinders. The SCBA refilling station is of a fully enclosed design to contain a SCBA cylinder failure or ruptured SCBA fill hose.
- The Jordair FILL-KAT series fill stations are the safest and most technically advanced filling stations offered in Canada for the containment and recharging of SCBA cylinders.
- A fully enclosed SCBA containment system that encloses both the SCBA cylinders and the filling hoses with a sliding front access door. The door must be closed and locked before SCBA cylinders can be recharged.
- Sliding front access door is ½" plate steel for optimum operator safety.
- The front access door is held in the closed position by a spring loaded pin type door lock.
- Heavy wall schedule 80 steel 8" pipe used to contain the SCBA cylinders within the recharge station.
- Anti-abrasion collars and liners in the SCBA containment sleeves to protect the exterior of the SCBA cylinders from abrasion damage during the filling process
- 6000 psig inlet ball type shut off valve to isolate the recharging station from the compressor and air storage cylinders.
- Manual anodized aluminum; self-venting and adjustable regulator with operating pressures from 0 to 6,000-psig inlets and 0 to 6,000-psig outlet pressures is supplied for use in the event of power failure. This regulator is normally locked out.
- The fill station has one fill hose per fill position and a quick disconnect to allow fill adapter changes for different pressures.
- When different filling pressures are required a manual selection valve provides for the desired pressure and safety relief valve over-fill protection.
- The final fill pressure is selected on the touch screen when the FILL-KAT is ordered with more than one fill pressure option.

FILL-KAT "D" SERIES NFPA 1901 LINEAR FILL STATIONS

- Panel mounted SCBA cylinder ball type shut off valves for 2216, 3000 or 4500 PSIG fill positions.
- SCBA recharge assemblies are supplied according to the scope of supply for 2216, 3000 or 4500 psig filling.
- A CRN certified adjustable safety relief valve is set for 2400, 3200 or 4700 psig to protect the filling of the 2216, 3000 or 4500 psig SCBA cylinder.
- The fill station is equipped with a restrictor set to the CSA Z94.4 rate of 300 psig per minute, to control filling speed on the manual override system. When a cascade system is used, this prevents rapid SCBA cylinder expansion and significant pressure drop due to the compression heat created during a rapid refilling situation.
- The fill station has removable service access panels for ease of service of the pressure components.
- The fill station is manufactured to CSA regulations Z180.1-00 and CSA Z94.4
- All electrical components are CSA approved and the complete electrical system is certified for use in Canada under the Jordair certificate number LR77799.
- B.C. Boiler and Pressure Vessels contractors licence No. MA-2007.
- The main pressure components: safety relief valve and fittings have CRN (Canadian Registration Numbers) as issued by the Canadian Boiler & Pressure Vessel Safety Branch.
- Protection for the SCBA fill station system is as follows: structural steel frame and panels are sand blasted and degreased. The frame and panels are then hot-acid dip cleaned, powder coated and baked, color code is HT212B8 blue.
- All pressure piping manufactured to ASME code B31.1 and B31.3
- As per NFPA 1901 regulation the manufacturer of the enclosed air refill station tested a standard production model. The test included pressurizing a 1-hour SCBA cylinder rated at a gauge pressure of 4500 psig (31,026 kPa) to failure. If the system provides for simultaneously refilling multiple cylinders, the other chambers contain air cylinders of equal size filled to a gauge pressure of 4500 psig (31,026 kPa) during the test.
- The testing proved that the air refill station is capable of containing all fragments of a failed cylinder to protect the operator and not rupture cylinders in adjacent chambers and proved that the venting provisions are adequate to direct the concussive release of air away from the operator.
- The test results are certified by an independent Canadian third-party testing organization.
- A copy of the Powertech Labs Inc. test certificate is on the Jordair website www.Jordair.ca.

JORDAIR IS ISO 9001:2008 CERTIFIED

"D" SERIES NFPA 1901 COMPLIANT LINEAR FILL STATIONS

AVAILABLE OPTIONS:

Model J-PLC-FS Automatic PLC display screen for control of the SCBA filling complete with software for the following protocols.

- RFID reading of SCBA cylinder, tracking cylinder fill cycles and pressures, tracking station operators.
- Model J-FSMV-5 Electrically controlled motor valve that stops the airflow to the SCBA fill point if the door is opened during the recharging period. The micro switch must be engaged by closing and locking the door before air flow will flow to the SCBA fill point.
- Model J-FSFP- (*) * Specify the number of additional fill points for dual filling 2216 or 4500 in any recharging holder.
- Model J-FFS- (*) C * specify the number of cascade control valves included in the frag station control panel.
- Model J-SV1018-3/4 specify number 3 or 4 cylinder automatic cascade system for storage air.
- Model J-FSEFP shut off valve and gauge for remote filling line.
- Model J-SRC-3 SCUBA cylinder recharging option within the frag station, replaces a SCBA holder and can accommodate SCBA cylinders as well.