DFS Ac_vFLO[™] BULK GAS EQUIPMENT

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High Purity Nitrogen (HPN₂) Purifier Bypass Skid

Application: Automatic bypass of large facility Nitrogen purifiers, to ensure continuity of supply to semiconductor fab distribution.

DFS Bulk Gas Equipment is delivered as a complete factory-tested packaged system. Compact design minimizes gas pad or purifier room space required, while preserving ergonomic operation and maintenance access.

Pre-engineered options practically eliminate design time, minimize lead-times, and reduce installation cost and schedule.

Standard Features

- > All-welded stainless skid frame
- I&C junction box
- Bellows-sealed manual isolation valves
- Fast-acting fail-open globe control valve
- Pressure transmitter

Quality Assurance

- Designed, manufactured, and tested under our ISO9001:2015 certified quality management system, in accordance with ASME B31:3 Chap X
- Welded under high purity Argon purge, by AWS certified welders in a ISO-6 clean room
- 100% weld examination by ASNT-IIs
- Pneumatic testing to 110% of MAWP
- Helium leak checked to 10⁻⁹ atm.cc/s
- Particle testing optional
- Connections capped, shipped under dry N₂ positive pressure

Configurable Options

- Indoor or outdoor installation
- Customer preferred Control strategy
- > Valve positioning: Pneumatic, electronic
- On-skid instrument N₂ distribution
- Choice of bellows-sealed isolation valves
- Customer-specific material and component specification compliance
- Optionally EU Pressure Equipment Directive (2014/68/EU) compliant, CE marked



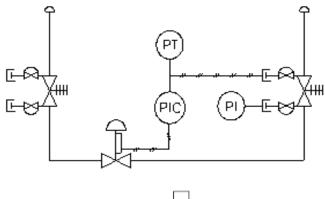


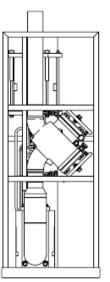
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DATA SHEET

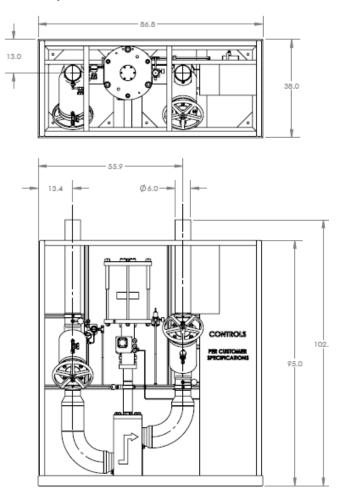
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Example Process Flow Diagram





Example Skid Dimensions



Technical Specifications

Nominal Size	4-inch	6-inch	8-inch
Max Flow: NM ³ /hr (SCFM)	6,400 (4,000)	14,400 (9,000)	22,500 (14,000)
MAWP psig	250	250	250
Process Lines	ASTM A269 316SS tube	ASTM A269 316SS tube	ASTM A312 316SS S10 pipe
Wetted Surface Finish	Electro-polished Ave. 15 Ra, < 20 Ra max	Electro-polished Ave. 15 Ra, < 20 Ra max	EP Ave. 20 Ra, < 25 Ra max
Filtration	PTFE High flow media, Removal rating > 3nm		
Isolation Valves	Bar-stock or forged 316 SS, Bellows sealed, <15 Ra		





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For more information: www.dfsolution.com To speak to a representative: 208.489.0053 To request a quote: info@dfsolution.com

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