



## Donaldson LITHOGUARD® POINT-OF-USE FILTERS

The Science of Air Filtration for Critical Process Environments

Semiconductor Filtration

Designed for removal of base, acid and organic gas phase contaminants, Donaldson LITHOGUARD® Point-of-Use (POU) filters are ideal for pressurized air and pressurized N<sub>2</sub>, which require extremely high purity environments. POU filters enable a tight focus on a particular set of process contaminants.

### FEATURES & BENEFITS

- For use with Clean Dry Air (CDA), N<sub>2</sub>, and other inert gases
- Filter housing made of 304 gauge stainless steel construction
- Filters provide 3 nm particulate filtration in addition to chemical filtration
- Multiple mechanisms of adsorption
- Various media options to suit specific environmental requirements
- Max operating pressure - 150 psig/ 10 bar
- Wide variety of standard fittings available
- Filters prepurged and ready for immediate installation
- Global sales and service



Donaldson LITHOGUARD stainless steel point-of-use filters are prepurged and ready for immediate use.

### OPTIONAL FEATURES

- Used filter analysis available upon request
- Media is conditioned to the applicable relative humidity to match gas supply conditions and to maximize absorption efficiency
- Filters can be custom designed to meet your application requirements

# POINT-OF-USE FILTERS

## FILTER SPECIFICATIONS

	Part Number	Contaminates Removed	Flow Rate (SLPM)	Pressure Drop $\Delta P$ @ 1 bar (mbar)	Particulate Media	Dimensions (mm)	Fitting	Weight (kg)
CDA	P511885	Acid, base and organics	50	<50	> 99.999 % eff. @ 3 nm	216x102	1/4" tube	4.0
	P512886	Acid, base and organics	100	231	> 99.999 % eff. @ 3 nm	372x102	8 mm tube	4.5
	P510830	Acid, base and organics	130	<90	> 99.883 % eff. @ .3 mm	362x102	12 mm inlet 8 mm outlet	4.4
	P513202	Acid, base and organics	150	<179	> 99.999 % eff. @ 3 nm	384x127	3/8" BSPT	10
	P510978	Acid, base and organics	200	178	> 99.999 % eff. @ 3 nm	236x102	1/2" VCR male inlet 1/2" VCR female outlet	3.2
	P510979	Acid, base and organics	200	350	> 99.999 % eff. @ 3 nm	620x102	1/2" VCR male inlet 1/2" VCR female outlet	8.0
	P513374	Acid, base and organics	580	<120	N/A	454x127	3/4" VCR female	9.0
	P514278	Acid, base and organics	200	<300	> 99.999 % eff. @ 3 nm	711x102	1/2" VCR male inlet 1/2" VCR female outlet	7.5
N <sub>2</sub>	P511554	Acid, base and organics	10	<62	> 99.999 % eff. @ 3 nm	169x64	1/4" tube	1.3
	P510885	Acid, base and organics	40-120	145-430	> 99.999 % eff. @ 3 nm	166x64	1/4" VCR male	1.3
	P510988	Organics	40-120	121-467	> 99.999 % eff. @ 3 nm	166x61	1/4" VCR male	1.1
	P512098	Organics	180	<500	> 99.999 % eff. @ 3 nm	166x64	1/2" VCR female	1.3
Compressed Air	P514622	Acid, base and organics, H <sub>2</sub> O	0.5	<40	> 99.999 % eff. @ 3 nm	84x38	1/4" VCR male	0.6
	P514607	Acid, base and organics, H <sub>2</sub> O	5	<70	> 99.999 % eff. @ 3 nm	202x38	1/4" VCR male	1.2
	P514527	Acid, base and organics, H <sub>2</sub> O	5	<138	> 99.999 % eff. @ 3 nm	439x102	1/2" VCR male	10
	P513752	Acid, base and organics	130	<55	> 99.883 % eff. @ .3 mm	383x102	1" BSPP	8.0
	P510673	Acid, base and organics	130	65	> 99.883 % eff. @ .3 mm	319x102	1" BSPP inlet 1/2" BSPP outlet	4.3
	P510172	Acid, base and organics	130	71	> 99.883 % eff. @ .3 mm	391x102	1" BSPP	6.6
	P512045	Acid, base and organics	170	<35	> 99.999 % eff. @ 3 nm	384x127	1" BSPP	8.0
	P512925	Acid, base and organics	170	35*	> 99.999 % eff. @ 3 nm	520x127	1" BSPP	9.0
P513400	Acid, base and organics	360	<500	> 99.999 % eff. @ 3 nm	130x64	1" BSPP	7.0	

\* Without fittings installed.



**Donaldson**  
FILTRATION SOLUTIONS

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