



domnick hunter

# OIL-X 50 SERIES

## Intermediate Pressure Filters

### Typical Applications

- PET bottling
- Air blast circuit breakers
- Shipborne air distribution systems
- Shipborne engine starting
- Pressure testing of pipelines

### The Problem

The removal of impurities within a compressed air system is vitally important in order to prevent contamination of downstream processes and products.

### The Solution

domnick hunter OIL-X 50 Series intermediate pressure filters combine the well proven OIL-Xplus filter elements with specially designed housings to provide high efficiency filtration for applications up to 50 bar g (725 psi g).

Available in various filtration grades and connection sizes, they provide a level of protection tailored to your application.

### Benefits

- **Elimination of oil, water and dirt**  
available in five filtration grades
- **Tailored solution for all applications**  
seven connection sizes 1/4" – 2" with flow rates up to 2044cfm
- **Low maintenance**  
housing corrosion protected and guaranteed for 10 years
- **Ease of installation**  
compact housing design
- **Trouble free, high performance**  
quality OIL-Xplus element backed with a 1 year guarantee

### Options

- **NPT connections**
- **Flanged connection kits**



### GRADE WS

#### High Efficiency Water Separator

For the removal of large quantities of excessive liquid contamination.

### GRADE AO

#### High Efficiency General Purpose Protection

For the removal of particles down to 1 micron including coalesced liquid water and oil, providing a maximum remaining oil aerosol content of 0.5 mg/m<sup>3</sup> (0.5 ppm) @ 21°C (70°F).

### GRADE AA

#### High Efficiency Oil Removal Filtration

For the removal of particles down to 0.01 micron including water and oil aerosols, providing a maximum remaining oil aerosol content of 0.01 mg/m<sup>3</sup> (0.01 ppm) @ 21°C (70°F). (Precede with Grade AO filter).

### GRADE ACS

#### Activated Carbon Filtration

For the removal of oil vapour and hydrocarbon odours giving a maximum remaining oil content of <0.003 mg/m<sup>3</sup> (<0.003 ppm) (excluding methane) @ 21°C (70°F). (Precede Grade ACS with Grade AA filter).

### GRADE AR

#### General Purpose Dust Filtration

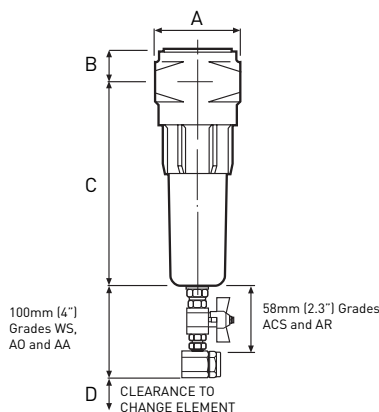
For the removal of dust particles down to 1 micron

## Technical specifications

<b>Maximum operating pressure</b>	50 bar g (725 psi g)	<b>Initial 'dry' differential pressure</b>	<b>Initial 'wet' differential pressure</b>
<b>Maximum recommended operating temperature (Grade WS/AO/AA/AR)</b>	66°C (150°F)	Grade WS N/A	Grade WS -70 m bar (1.0psi)
<b>Maximum recommended operating temperature (Grade ACS)</b>	30°C (86°F)	Grade AO/AR ~70 m bar (1.0psi)	Grade AO ~140 m bar (2.0psi)
<b>Minimum recommended operating temperature</b>	1.5°C (35°F)	Grade AA ~100 m bar (1.5psi)	Grade AA ~200 m bar (3.0psi)
		Grade ACS ~70 m bar (1.0psi)	Grade ACS N/A
			Grade AR N/A
<b>*Recommended Filter Element change:-</b> 12 months or 6000 hours* *Not applicable to Grade ACS elements. Grade ACS elements should be changed after 1000 hours operation at 21°C (70°F) or before if odours can be detected.			

## Filter selection & dimensions

Model no.	Pipe Size	Flow Rates @ 50 bar g (725 psi g)		Dimensions mm (inches)				Approx weight kg (lbs)	Replacement element code
		Nm <sup>3</sup> /hr	scfm	A	B	C	D		
IP50 - (Grade)-0030G	1/4"	108	64	78 (3.1")	33 (1.3")	142 (5.6")	70 (2.8")	1.3 (2.9)	K009 (grade)
IP50 - (Grade)-0045G	3/8"	162	95	78 (3.1")	33 (1.3")	142 (5.6")	70 (2.8")	1.3 (2.9)	K009 (grade)
IP50 - (Grade)-0095G	1/2"	342	201	89 (3.5")	40.5 (1.6")	205 (8.1")	130 (5.1")	2.0 (4.4)	K030 (grade)
IP50 - (Grade)-0145G	3/4"	522	307	89 (3.5")	40.5 (1.6")	205 (8.1")	130 (5.1")	2.0 (4.4)	K030 (grade)
IP50 - (Grade)-0285G	1"	1026	604	122 (4.8")	58.5 (2.3")	365 (14.4")	272 (10.7")	5.0 (11.0)	K145 (grade)
IP50 - (Grade)-0465G	1 1/2"	1674	985	122 (4.8")	58 (2.3")	365 (14.4")	272 (10.7")	5.0 (11.0)	K145 (grade)
IP50 - (Grade)-0965G	2"	3473	2044	170 (6.7")	62 (2.4")	418 (16.5")	320 (12.6")	10.0 (22.0)	K220 (grade)



Use the correction factors below for flow rates at other working pressures:

Working Pressure	bar g	20	25	30	35	40	45	50
	psi g	290	362	435	507	580	652	725
<b>Correction Factor</b>		0.63	0.71	0.78	0.84	0.90	0.95	1.00

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