

Safewell is proud to be an authorised Donaldson Compressed Air & Gas Products Distributor for the Energy and Industrial Sectors.

Safewell is a leader in the life cycle holistic safety management of industrial processes.

Quality of Compressed Air Used for Respiratory Protection in accordance with International Breathing Air Standard BS EN12021:2014 and Medical Pharmacopoeia Breathing Gas Standards. We provide air purification products, air quality testing, safety training and life cycle spares, calibration, servicing and support



Quality of Compressed Air Used in Pharmaceutical / Food Production and Industrial Processes in accordance with ISO 8573-1:2010, Compressed Air Part 1: Contaminants and Purity Classes. We provide air purification products, air quality testing, safety training and life cycle spares, calibration, servicing and support for a range of market sectors



Safety of Automation Systems used on Commercial Dive Support Vessels in accordance with IEC61508 – Functional Safety of Electrical/Electronic/Programmable Electronic Safety-related Systems (E/E/PE, or E/E/PES). Including functional safety audits and design and development of industrial automation systems



This Donaldson CAP Data Sheet is Delivered to you by Safewell

**Please contact us today for technical assistance,
competitive pricing and excellent customer
service: sales@safewell.info**





Compressed Air Filtration

Filter for special applications

DFX

MAIN FEATURES & BENEFITS:

- Innovative Filtration technology, high retention rate, low pressure loss
- Filter housing made of aluminium, designed for operating pressure up to 25 bar and operating temperatures from -20°C up to +120°C
- For the purification of non-corrosive gases of fluid group 2 (non-dangerous gases) and selected non-corrosive gases of fluid group 1 (dangerous gases) acc. to Pressure Equipment Directive 97/23/EC
- Flow-optimized design (saving of energy costs)



INDUSTRIES:



- Chemical and pharmaceutical industry



- Gas industry



- Surface finishing



- Machine building industry and plant engineering / construction



- Energy and power generation

Donaldson Filtration Deutschland GmbH
Büssingstr. 1
D-42781 Haan
Tel.: +49 (0) 2129 569 0
Fax: +49 (0) 2129 569 100
E-Mail: CAP-de@donaldson.com
Web: www.donaldson.com

Donaldson®
Ultrafilter

PRODUCT DESCRIPTION

The DXF filters are intended for the processing of compressed air or gases in industrial applications. The special construction of filter housing and filter elements as well as the used materials allow the use under extreme operating conditions. The DFX filters cover applications at high and low operating temperatures as well as ambient conditions with mechanical stresses, like vibrations or impacts.

With 7 sizes the DFX filter covers a performance range up to 600 Nm³/h flow rate (for compressed air) at an operating pressure of 25 bar. The housing connections cover a range from 3/8" up to 2".

Validated performance data acc. to ISO 12500-1 and ISO 12500-3 for reliable achievement of compressed air quality suitable to the application acc. to ISO 8573-1.



The DFX filter element is designed and developed for the following applications:

- **Special applications:**

- High temperature
- Low temperature
- Heavy duty / Outdoor

- **Special gases:**

- Selected, non-corrosive gases of fluid group 1 + 2
- Natural gas / Biogas

- **Technical gases:**

- Gas manufacturing
- Gas processing
- Gas storage
- Gas transportation
- Laboratory

PRODUCT SPECIFICATIONS

Features:	Benefits:
Validated performance data acc. to ISO 12500-1 and ISO 12500-3	Reliable achievement of compressed air quality acc. to ISO 8573-1
Intelligent overall concept	Flow range, filtration grades, efficiencies as well as housing and element design meet requirements of compressed air purification and a multitude of technical gases
Fine thread connection between filter head and filter bowl with radial sealing-up O-ring	Very rugged construction with excellent sealing characteristics
Flow-optimized design	Low pressure losses, thereby saving of energy costs
Element can be removed together with filter bowl	Service friendly construction - easy installation and montage, easy filter exchange
Little installation height for the filter element exchange	Compact, space-saving construction - installation within smallest space possible
Filter housing anodised	Ensures long-term corrosion protection against environmental influences

DFX Application Specifications			
Fluid	Operating pressure	Operating temperature	Gasket materials
Technical Gases Fluid Group 2, non-corrosive *			
Air Nitrogen N ₂ Carbon Dioxide CO ₂ (dry) Helium He Argon Ar Neon Ne	≤ 25 bar	-20°C.....+120°C (dry condition) > 0°C.....+100°C (wet condition)	Viton
Technical Gases Fluid Group 1, non-corrosive *			
Butane C ₄ H ₁₀ Carbon Monoxide CO Ethane C ₂ H ₆ Ethylene C ₂ H ₄ Hydrogen H ₂ Methane CH ₄ Natural gas (dry) Propane C ₃ H ₈ Propylene C ₃ H ₆ (on request)	≤ 25 bar	-20°C.....+120°C (dry condition) > 0°C.....+100°C (wet condition)	Viton

* Applicable operating conditions for certain fluids on request

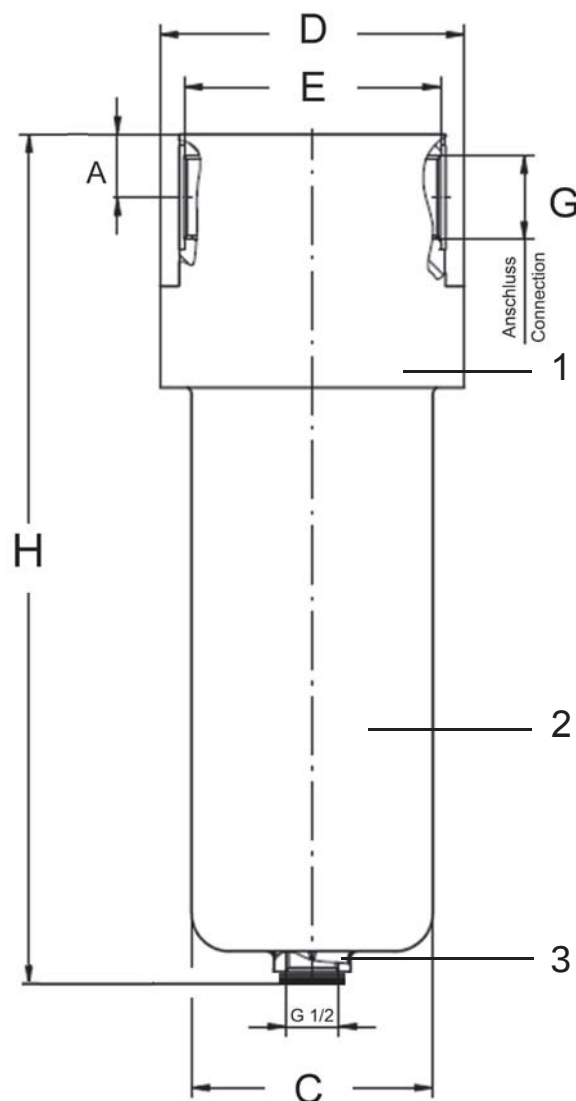
MATERIALS/ DIMENSIONS

Pos.	Pcs.	Description
1	1	Filter head
2	1	Filter bowl
3	1	Plug

Materials filter housing	
Filter housing	Aluminium
Sealings	Viton

Operating data	
Design pressure	25 bar
Test pressure	35,75 bar
Perm. operating temperature	-20°C / +120°C

Classification acc. 97 / 23 / EC for fluids		
Fluid	Group 1*	Group 2*
DFX 0035-DFX 0120	Art. 3, par. 3	Art. 3, par. 3
DFX 0210-DFX 0320	Cat. 1	Art. 3, par. 3
DFX 0450-DFX 0600	Cat. 2	Cat. 1
* only fluids of group 1 + 2 as described in table "DFX Application Specifications" on page 3		



	Volume	Weight	Dimensions						Element
DFX	l	kg *	A mm	C ø mm	D ø mm	E mm	H mm	G	MX/SX VX/AX
0035	0,19	0,7	12,0	60	75	67	144	G 3/8	0035
0070	0,54	1,6	16,5	72	100	90	212	G 1/2	0070
0120	0,54	1,6	18,5	72	100	90	217	G 3/4	0120
0210	1,20	2,9	23,0	95	120	108	296	G 1	0210
0320	1,20	3,6	30,0	95	130	113	310	G 1 1/2	0320
0450	2,50	6,5	30,0	120	160	146	383	G 1 1/2	0450
0600	2,50	8,8	38,0	120	180	161	396	G 2	0600

* without filter element