



# SDU H350 SUBSEA

***Removes Contaminants***

***Extends Oil Life***

***Reduces Component Wear***

***Removes all Water***

***Saves Machine Downtime***

***Reduces Disposal Costs***

***Simple to Install & Use***

***Low Maintenance Costs***

***Built in Sampling Points***

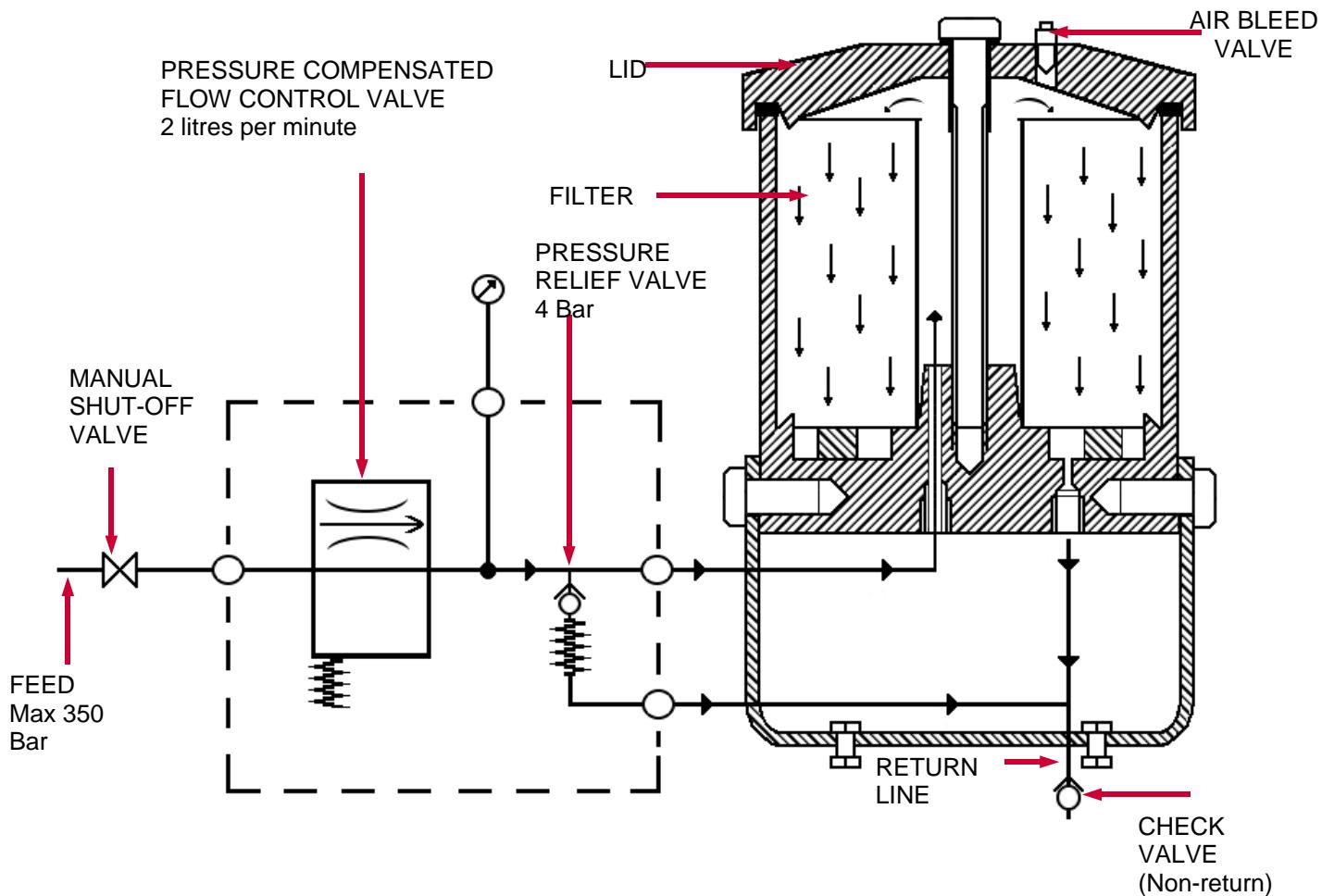


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## SDU H350 - UNDER WATER



Type	Recommended Installation	Ltr/hr	Lid Torque	Filter element type	Dimensions		Connections		Weight (kg)
					Height (mm)	Dia (mm)	INLET	OUTLET	
SDU H350	By-pass with max. 350 bar inlet and 0.5 bar back pressure up to 400 litres	120	50 Nm	SDFC or SDFC-P	325	238	M12 x 1.5/7/16JIC	M18 x 1.5/3/4JIC	7.5



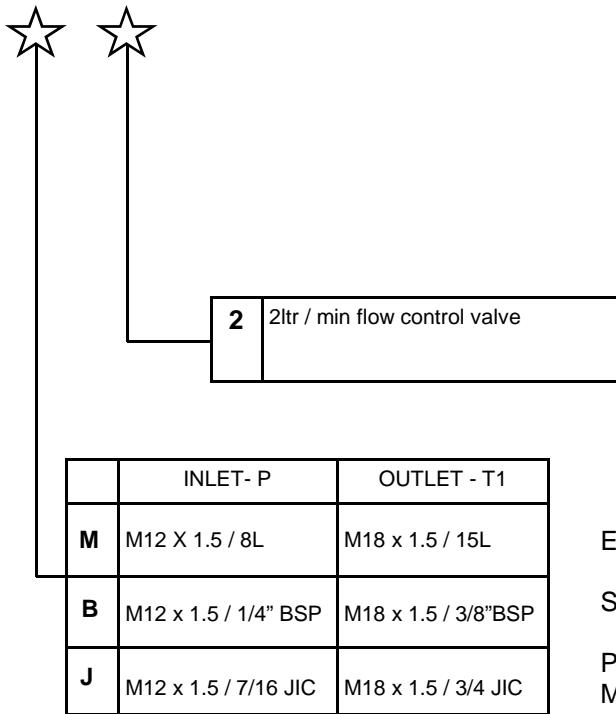
The SDU H350-UW is a by-pass hydraulic oil filter using an SDFC cartridge with built-in pressure reduction valve. The unit can accept between 5 & 350 bar inlet pressure and 0 - 0.5 bar back pressure, operating on systems of up to 400 litres capacity.

The system operates at 2 litres per minute and is controlled by a 3.5 bar pressure relief valve. There is an option to increase the filtration capability by the addition of an SDU H8 unit, in these cases a 4ltr / min flow valve can be fitted.

### SDU H350-UW OPTIONS

Order

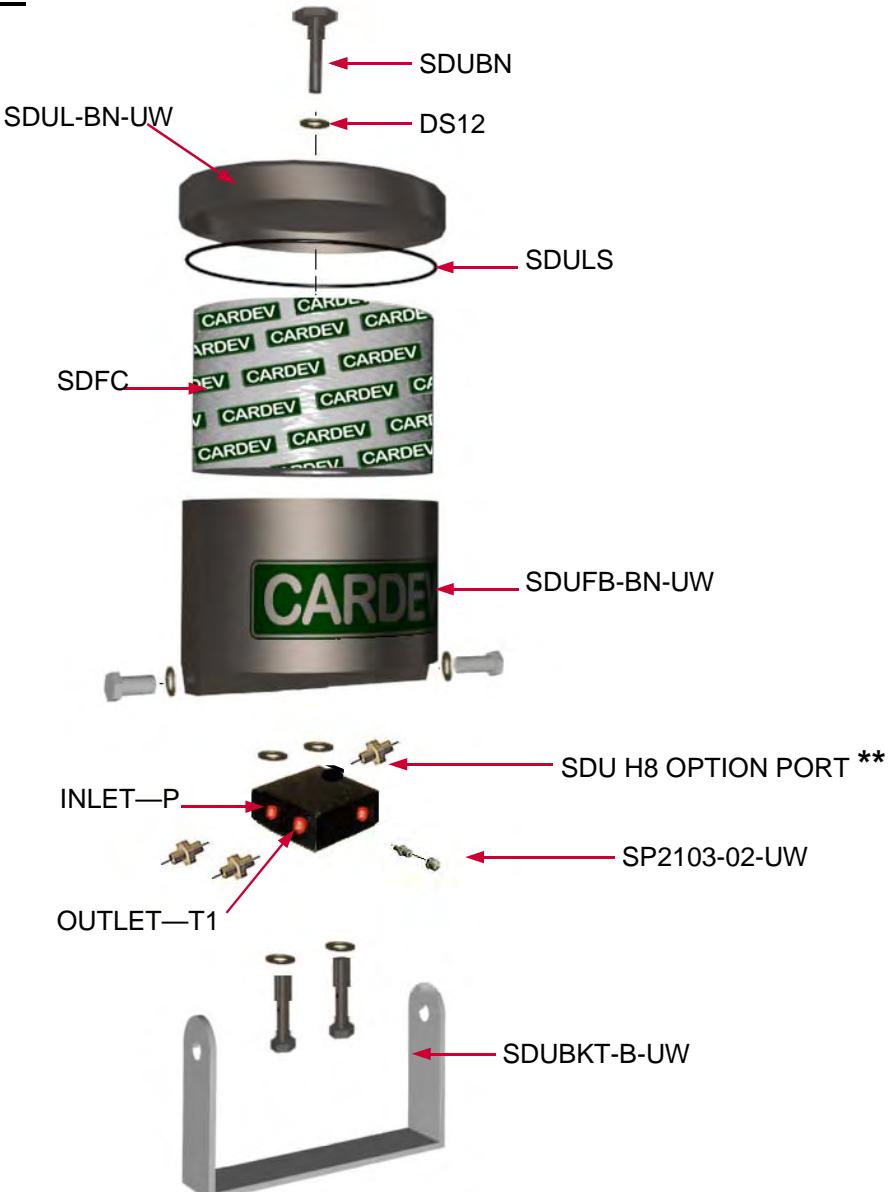
**SDU H350-UW -**



EXAMPLE:

SDU H350-UW-BM2

PRESSURE GAUGE,  
METRIC FITTINGS,  
2 LITRE/MIN FLOW CONTROL

**SDU H350-UW-BM2**



# DATA SHEET

## SDFC - SUPER DUTY FILTER CARTRIDGE

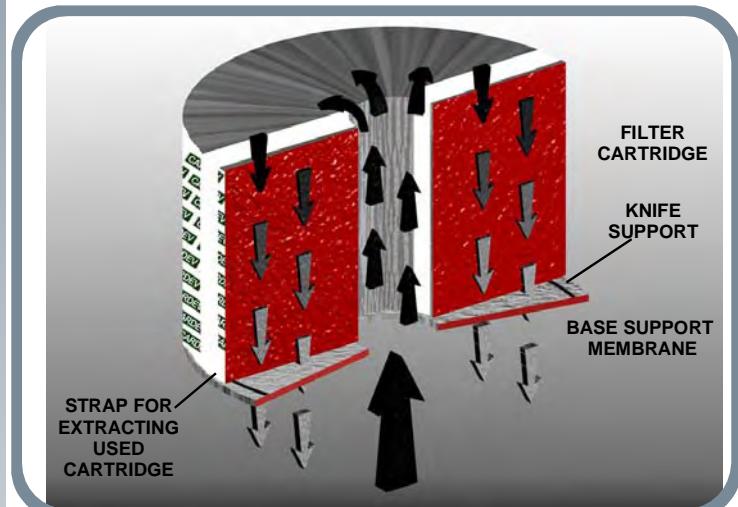
**Filters Oil Down To ISO 14/09  
Or Better**

**Removes Both Particles and  
Water From Oil**

**Does Not Affect The Additive  
Package Of The Oil**

**Made From Combustible  
Materials For Ease Of Disposal**

**High Dirt Holding Capacity**



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## SDFC Cartridge Description

The Cardev Super Duty Filter Cartridge is a depth cartridge made of long fibre cellulose with a full diameter polyester protection disc. The filter is covered with nylon and encased in an outer tube which forms an integral part of the cartridge. The cartridge can be used on all pure oil based products such as hydraulic, engine and gearbox oils. The filtration is carried out at low pressures, off-line, cartridge pressures are controlled between 1 and 4 bar with a 6 bar maximum.

## Action of Cartridge

The filter cartridge acts by absorption and adsorption in a continuous recycling process. The long cellulose fibres attract the water formed either through the combustion process or by condensation and absorb it like a sponge, whilst at the same time rejecting the larger oil molecules which are forced to pass between the tight windings of the cartridge. Thus the cartridge, by removing water inhibits the production of acids. As the oil passes through the cartridge, minute particles of carbon, wear metals and silicon are extracted from the oil by adhering to the many surfaces of the filter. Through the continuous removal of water and contaminants the catalysing effect of the oil additives will be prevented enabling the oil life to be extended within the original specification laid down by the manufacturer. The additional extension of oil life will be dependent upon the operating conditions and maintenance programme applicable to the machine.

## Important note-additives

While the filter is extracting the water and contaminants it is continuously safeguarding the desirable elements (additives) compounded within the oil itself. These typically include, dependent on use, dispersants, VI improvers, lubricity agents, fungicidal, anti foaming and gelling additives. These additives are held in suspension and their levels can be critical if the oil is to maintain its beneficial effect. The Cardev filter will not remove these additives but enhances their life by the removal of contaminants which cause them to be activated.

## Disposal

Used cartridges should be disposed of in accordance with local regulations and are made from fully combustible materials.

## Cartridge Change Intervals

Taking into consideration the high dirt and water retention capacity, the filter change intervals can be individually determined according to the contamination and volume of the oil.

With a normal machine installation the recommended cartridge change frequency is 500 operating hours or 6 mths whichever comes first. Where the machine operates in adverse conditions this change frequency should be reduced to 250 operating hours. The maximum life of the cartridge is 6 months.

## Oil Throughput

Throughput levels are dependent on viscosity, temperature, degree of contamination and oil pressure. However, as a guide for an SDFC under the following conditions; ISO 46 grade hydraulic oil at 40 degrees centigrade with a 3 bar inlet pressure the flow rate is approximately 4 litres per minute.

## Operating Temperature

The cartridge will operate within the operating specification of engine, hydraulic and gearbox oils -10 to +95 centigrade.

Type	Cleanliness Class	Retention		Height mm	Diameter mm	Weight grm	Packing
		Dirt grm	Water ml				
SDFC	ISO 4406 11/9/6	UP TO 2500	780	112	195	1000 ±5%	Boxes of 6



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