

# MULTI BAG SERIES

Allied Filter Systems is able to offer multi bag vessels for applications requiring high flow rates or a large filtration surface area. Flow is split equally through each filter bag ensuring an even distribution of solid loading.

Filter bags are individually held in position by three point locking bayonets, which compress the filter bag ring and produce a seal with the filter vessel.

The vessel lid has a counterbalanced spring assisted lifting mechanism ensuring that opening and closing the filter is safe and easy for operators.

The counterbalance is precise and gives the lid a practically weightless feel. As an additional safety feature, a simple locking system is fitted on the hinge as standard and can be engaged when the lid is in the fully open position.

Multi bag vessels are provided with a choice of two closure types, either a bolted lid or with a quick closure clamp.

## QUICK CLOSURE SYSTEM

The quick closure system was developed for multi bag vessels to eliminate the need for swing bolts, decreasing the time required for filter bag changeout.

The system consists of a heavy duty precision engineered clamp, an opening wheel with counter screw, and a safety lock attached to a ball valve fitted to the vent of the housing.

To change the filter bags, first the safety lock is released, simultaneously venting the filter housing. Turning the hand wheel then opens the clamp. The hinged lid can then be lifted and the filter bags changed. The reverse procedure is carried out to close the housing.

**MULTI BAG VESSELS ARE DESIGNED TO BE ERGONOMIC. A TANGENTIAL BOTTOM OUTLET MINIMISES VESSEL HEIGHT, REDUCING THE INSTALLATION SPACE AND PROVIDING OPERATORS WITH A CONVENIENT BAG CHANGEOUT HEIGHT.**

There are two standard inlet and outlet orientations :

### STYLE 3

Side inlet / tangential bottom outlet on the opposite side.

### STYLE 4

Side inlet / tangential bottom outlet on the same side.

The hinged lid design minimises the installation floor space required compared to traditional davit lid models.

Multi bag vessels are constructed from stainless steel 304 or 316L. The standard pressure rating is 10 bar, the standard temperature rating is 80°C. Higher pressure and temperature ratings are available on request. Multi bag vessels can be CE marked if required.

Optional features are available to meet all customer requirements such as alternative inlet and outlet orientations, heating jackets and many more. See pages 16 and 17 for further information.



MULTI BAG VESSELS FOR HIGH FLOW RATES  
WITH A CHOICE OF LID CLOSURE DESIGNS.



MODEL CODE	NUMBER OF FILTER BAGS	BAG SIZE NUMBER	FILTRATION SURFACE AREA (m <sup>2</sup> )	INLET/OUTLET SIZE	MAXIMUM FLOW RATE*		
					GPM	litres/min	m <sup>3</sup> /hr
HD42	4	2	2.0	DN100	587	2667	160
HD62	6	2	3.0	DN150	880	4000	240
HD82	8	2	4.0	DN200	1174	5333	320
HD102	10	2	5.0	DN200	1468	6667	400
HD122	12	2	6.0	DN250	1761	8000	480
HD162	16	2	8.0	DN250	2348	10667	640

**LARGER HOUSINGS ARE AVAILABLE ON REQUEST.**

\*Maximum flow rate is based on aqueous flow at  $\Delta P=1.0$ psi clean through filter only without bag installed. Achieved flow rate is dependant on type of fluid being filtered, fluid viscosity and temperature, micron rating and type of filter bag.

