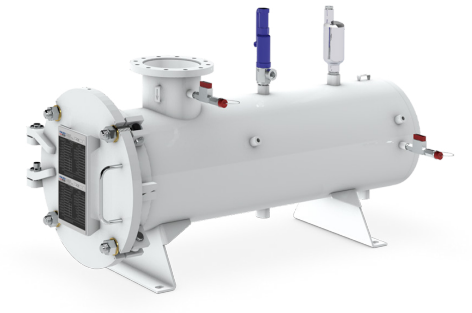
Dirt Defence Filter Vessel

DDFV Series

Qualified to specification EI 1599 2nd Edition

The standardized Dirt Defence Filter Vessel DDFV is designed to be compliant with procedural guidelines, applicable legal regulations and requirements of the pressure vessel regulation AD2000. Additional pressure vessel standards can be met upon request.



Dirt Defence Filters are designed to remove fine solids such as rust, sand and other particles efficiently and continuously from aviation fuels.
Dirt Defence Filtration Technology in combination with AFGUARD® Electronic Water Sensor is a Global Standard (JIG 1 and ATA 103).

Application Area

- Designed for hydrant dispensers, refuelers and hydrant carts

Technical Data

• Design and construction:	EI 1596 3rd Edition
• Design pressure:	12 bar (others upon request)
• Flow rate:	Up to 4600 lpm (1215 USgpm)

Standard Design

• Material:	Stainless Steel
• Interior:	Stainless Steel
• Cover seal:	NBR (Buna-N) or FKM (Viton)

Recommended Accessories

- Differential pressure gauge
- Manual drain valve
- Automatic air eliminator
- Pressure relief valve
- Sampling probe connections
- Electronic bulk water detector

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Order Reference

Vessel	Dirt Defence Filters		Flow Rates	
Model No.	Model	Quantity	lpm	USgpm
DDFV-10-12	DDO2.2-30-2	10	1150	303
DDFV-20-12	DDO2.2-30-2	20	2300	607
DDFV-30-12	DDO2.2-30-2	30	3450	911
DDFV-40-12	DDO2.2-30-2	40	4600	1215

Options	Description
DDFV-I-XX-XX	DDFV with Interlock
DDFV-S-XX-XX	DDFV with Sump
DDFV-SI-XX-XX	DDFV with Sump and Interlock

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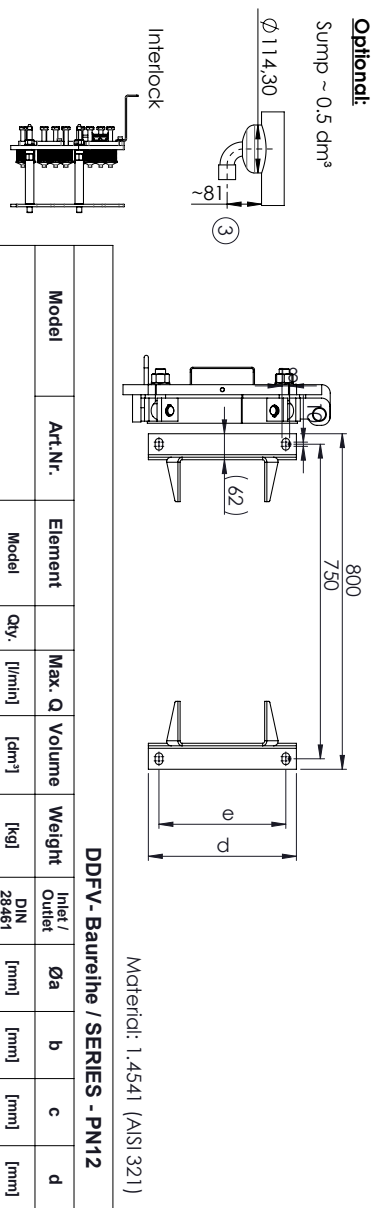

Stutzentabelle / LIST OF NOZZLES

Stutzen Nr. NOZZLE NO	Nennweite NOMINAL SIZE	Ranschenart TYPE OF FLANGES	Benennung NAME
1	gem. Tabelle ACC. TABLE	gem. Tabelle ACC. TABLE	Eintrtt INLET
2	gem. Tabelle ACC. TABLE	gem. Tabelle ACC. TABLE	Austritt OUTLET
3	G 3/4"	Muffe / COUPLING	Entleerung DRAIN
4	G 3/4"	Muffe / COUPLING	Restentleerung RESIDUAL DRAIN
5	G 3/4"	Muffe / COUPLING	Auto. Entlüftung AUTO. DEAERATION
6	G 1/2"	Muffe / COUPLING	Überdruck PRESSURE RELIEF
7/8	G 1/4"	Muffe / COUPLING	Diff. Druck Messung DIFF. PRESSURE GAUGE
9/10	G 1/4"	Muffe / COUPLING	Probeentnahme SAMPLE PROBE

- Ausbauölinge der Elemente ca. 0,8 Meter !
- ELEMENT DISASSEMBLY LENGTH CA. 0,8 METER !
- Gemgfügige Maßabweichungen vorbehalten !
- SLIGHT DEVIATIONS RESERVE !
- Standardabmessungen gelten für alle Optionen !
- STANDARD DIMENSIONS APPLY TO ALL OPTIONS !

Technische Daten / TECHNICAL DATA

Berechnung, Herstellung / DESIGN CODE	AD-2000
Max. zul. Betriebsüberdruck (PS) / MAWP (PS)	12 bar
Prüfdruck / TEST PRESSURE	17,16 bar
Prüfdruck Einfüllskammer / TEST PRESSURE INLET CHAMBER	15 bar
Zul. Betriebstemp. min/max (TS) / TEMPERATURE MIN/MAX (TS)	-40°C / +50°C
Medium / MEDIUM	Jet Fuel
Kategorie / CATEGORY	II
Abnahme / APPROVAL	DGRL 2014/68/EU

DDFV- Baureihe / SERIES - PN12

Model	Art.Nr.	Element Model	Qty.	Max. Q [l/min]	Volume [dm³]	Weight [kg]	Inlet / Outlet DIN 28461	Øa [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	g [mm]	i [mm]	k [mm]	Øm [mm]	n [ ]
DDFV-10-12		DDO2.2-30-2	10	1150	60	62	DN 100 TW	273	1105	1191	300	250	250	1015	250	237	410	4
DDFV-20-12		DDO2.2-30-2	20	2300	85	125	DN 100 TW	323,9	1105	1197	350	300	280	1015	280	255	470	4
DDFV-30-12		DDO2.2-30-2	30	3450	135	166	DN 150 TW	404,6	1125	1217	400	350	320	1057	350	300	550	6
DDFV-40-12		DDO2.2-30-2	40	4600	215	255	DN 150 TW	508	1157	1255	500	450	370	1062	400	385	650	8

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