DESCRIPTION

Many years of in-field experience have shown the necessity of more and more efficient controls on the contamination level of hydraulic fluids and fuels.

With this goal uppermost in its mind, and thanks to sophisticated design patterns and the use of cutting-edge materials and technologies, FAI FILTRI has engineered a complete series of spin-on filters , in different models and sizes, designed to meet a wide array of filtration and operating requirements, in order to allow a more effective control of contamination levels in hydraulic, lubricating, engine circuits, etc.

FSD complete filters, engineered to support medium pressures with peaks up to **50 bar**, provide a valid solution for filtration problems, granting their best performances when fitted into hydraulic drives, in presence of supercharged hydrostatic drives, earthworks machines, compressors, converters, hydraulic systems exhaust lines.

The main characteristics of these expendable elements the possibility, for any clogged filter, to be easily replaced, by a quick and clean procedure, condition that has to be considered of great importance in working contexts where highly deteriorated environmental conditions usually occur.

They can support flow rates up to 200 l/min.

Specifically, FAI FILTRI spin-on cartridges, equipped with new-generation “A” filtering media, can grant high standards of performance even in the hardest conditions.

“A” type elements with absolute filtration power of 3, 6, 10, 25 micron ($\beta x \geq 200$), are formed by inorganic impregnated and resin bonded inert micro-fibers, supported upstream and downstream. The result is a very compact filtering core which ensures the resistance of the media itself to deformation, distortion and strain ,preventing any contaminants to get released, thus improving filtering performances and allowing contaminants to accumulate efficiently, also in the event of phenomena such as high differential pressure and water hammering derived from cold starts and discharge flow rates.

The above mentioned features make the FAI FILTRI spin-on filters consistent with the use of hydraulic, lubricating oils, fuels, glycol water, emulsions and most synthetic fluids.

TECHNICAL DATA

MATERIALS

- Aluminum head derived from fusion
- Aluminum flange derived from fusion
- Sinned and painted sheet steel vessel
- Perforated/drilled supporting pipes and galvanized steel end-caps

FILTERS PRESSURE VALUE

Max operating pressure:	**35 bar (25 bar for model FSD180)**
Impulse test in compliance with ISO 3724:	**from 0-35-0 bar 1Hz 50.000 min. cycles (FSD050÷070)** **from 0-30-0 bar 1Hz 50.000 min. cycles (FSD180)**

TESTS CARRIED OUT ON FILTERING ELEMENTS

Differential collapsing pressure of the filtering elements tested in compliance with ISO 2941: **20 bar**

Resistance to axial deformation tested in compliance with ISO 3723

Manufacturing conformity and determination/assessment of the first bubble point in compliance with ISO 2942