Pall Corporation

Pall Ultipor® Plus
Filter elements

The next generation of Ultipor filter elements feature a new composite/synthetic structure offering increased filter area, lower pressure drop and longer service life.

ULTIPOR® *plus*
FILTRATION

The optimized **Ultipor** Plus filter element design is suited for high viscosity and conventional lubrication and hydraulic fluid applications. **Ultipor** Plus filter elements directly replace **Ultipor** III filter elements in existing Pall Coreless filter housings.

Features and Benefits

- Optimized fan-pleat medium pack design
  - Extended filter element service life
  - Low initial pressure drop
- High filtration efficiency rating ($\beta_{x(c)}>1000$)
  - Superior control of particles in critical size ranges that contribute to component wear.
- High strength construction
  - Consistent performance throughout filter element service life
- Coreless, cageless, filter element configuration
  - Light weight and lower disposal costs
- Wide fluid and temperature compatibility
  - Suitable for use in a wide range of applications and operating conditions
- Same form and fit as **Ultipor** III filter elements
  - Direct installation in existing coreless **Ultipor** III filter housings
  - High performance and value for low operating costs

Ultipor® Plus filter elements

Ultipor® Plus filter element construction

8304/8314 Series Coreless Ultipor® III filter housing

Specifications

- **Multi-pass filter ratings (per ISO 16889),**
  See figure 1

- **Element Collapse Pressure Rating (ISO 2941)**
  10 bard (150 psid)

- **Fluid Compatibility (ISO 2943)**
  Compatible with petroleum oils, water glycols, water-oil emulsions, high water containing fluids, industrial phosphate esters and carboxylic acid esters, and most synthetic hydraulic and lubrication fluids.

- **Flow vs. Pressure Drop (ISO 3968)**
  See table 1

- **Flow Fatigue (ISO 3724)**
  Contact factory; filter element structure incorporates upstream and downstream medium support to achieve maximum fatigue cycle life.

- **Fabrication Integrity (ISO 2942)**
  Fabrication integrity is validated and assured during the manufacturing process by numerous evaluations and inspections including Bubble Point testing.

- **Temperature Range**
  Fluorocarbon seals: -29 °C (-20 °F) to +120 °C (+250 °F)
  60 °C (140 °F) maximum for HWCF or water glycol fluids

- **Quality Control**
  All filter elements are manufactured by Pall to exacting procedures and strict quality controls. Elements are checked against rigorous ongoing validation test protocols within Pall Corporation.

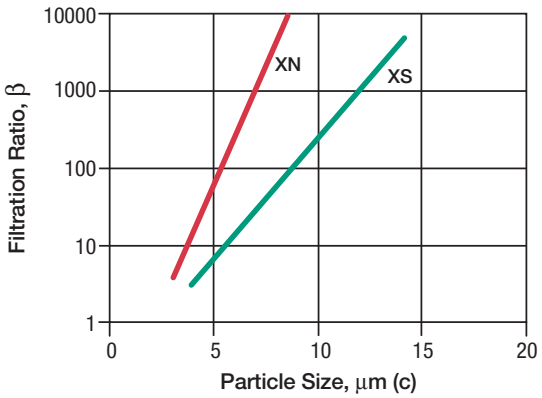
Element Pressure Drop

Multiply actual flow rate times factor in table below to determine pressure drop with fluid at 32 cSt (150 SUS), 0.9 S.G. Correct for other fluids by multiplying new viscosity in cSt/32 (SUS/150) x new S.G./0.9.
Note: factors are per 1000 L/min and per 1 USgpm.

Table 1: 8324 Series Filter Elements - bard/1000 L/min (psid/USgpm)

Length Code	XN	XS
39	0.3134 (0.0172)	0.2788 (0.0153)

Figure 1: Filtration Ratios per ISO 16889



Pall Ultipor® Plus Ordering Information

Filter Element P/N: HC8324F ☐ 39 Z

Table 2

Note: Z indicates fluorocarbon seals are standard.
Other options are available; contact Pall.

Table 2: Pall Media Grade

Code	$\beta_{x(c)} \geq 1000$ Based on ISO 16889
XN	7
XS	12

Pall Corporation

Pall Industrial Manufacturing

25 Harbor Park Drive
Port Washington, NY 11050
+1 516 484 3600 telephone
+1 800 289 7255 toll free US

Portsmouth - UK
+44 (0)23 9230 3303 telephone
+44 (0)23 9230 2507 fax

Visit us on the Web at www.pall.com

Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to www.pall.com/contact

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit www.pall.com to verify that this information remains valid. Products in this document may be covered by one or more of the following patent numbers: EP 470,485; US 5,252,207; US 5,552,048.

Filtration. Separation. Solution.SM

IMULTIPORPEN Printed in the UK. May 2009