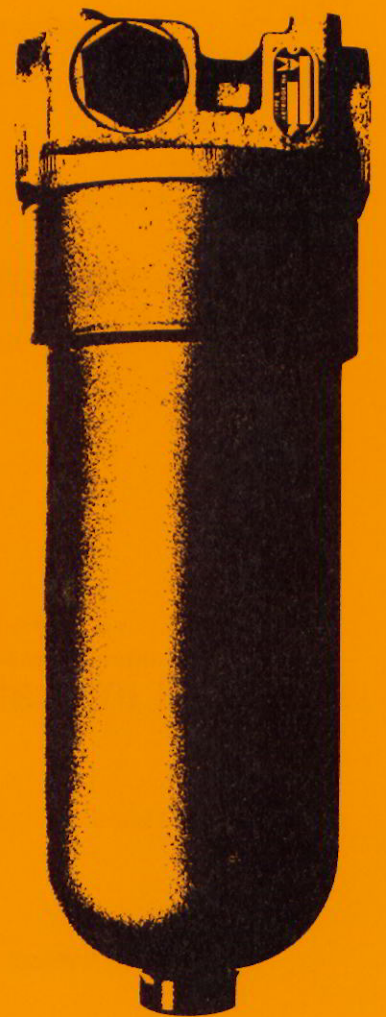


Fairey

• filter type
824



Fairey Industrial Hydraulics Limited

filtration ratings
 working pressure
 flow ratings

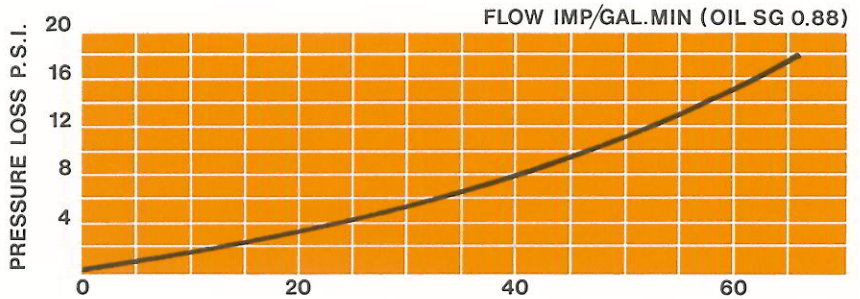
5 : 10 : 15 microns
 Standard up to 4000 p.s.i.
 High Pressure up to 6000 p.s.i.

	Filtration Rating (Microns)			Flow Imp. Gal/Min.
	5	10	15	
824 Length 1	11	18	22	
824 Length 2	22	36	44	
824 Length 3	36	58	66	

Flow rates quoted will produce a maximum pressure drop of 10 p.s.i. across a clean element with fluid of 30 centistokes viscosity. Flow rating varies inversely with fluid viscosity but must not exceed 66 gal/min.

temperature range
 housing losses

-40 deg. C to 100 deg. C.



Housing losses are virtually independent of viscosity but will vary directly as fluid density.

fluids
 construction
 by-pass

Suitable for use with mineral oils. Additional fluids are covered by other filters in the Fairey range.

Replacement cellulose element push fits onto spheroidal graphite iron head. The extruded steel filter bowl screws onto the head.

All filters described in this publication are fitted with a by-pass. The by-pass valve begins to open at a pressure differential across the filter head of approximately 50 p.s.i.

clogging indicators

Clogging of the filter element in service increases the pressure drop across it. The clogging indicator senses this differential pressure and operates when it reaches approximately 45 p.s.i. alerting the operator to the need for an element change before the by-pass opens.

The following indicator combinations are available —

Visual indicator: Element change is necessary when red begins to show in indicator windows.

Electrical indicator: For remote operation of alarm or machine shut down.

Visual and electrical indicators.

Dual visual indicators.

Dual electrical indicators.

Indicators may be fitted on either side of the filter head.

electrical indicator

Ratings and cable colour codes:

Ratings:
 30 volts d.c.
 10 amps inductive
 10 amps resistive
 36 amps surge
 125 or 250 volts a.c.
 10 amps

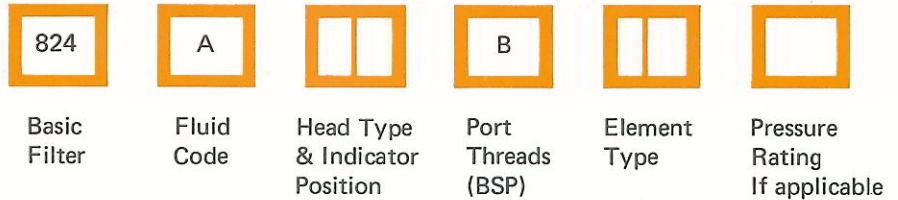
250 volts d.c.
 ¼ amp
Cable Colour Code:
 Green — Earth
 Red — Common
 Blue — Normal Open
 White — Normal Closed

Sealed and totally enclosed electrical indicators are available.

specifying Fairey filters

The filter part number:

Each filter has a part number which contains a complete specification. It is made up in the following way –



Fluid Code:

A – Mineral Oil

Head Type:

Type

- | | |
|-----------------------------------|------------------------|
| 1 No indicator fitted | 5 Electrical indicator |
| 2 Visual indicator | 8 Dual electrical |
| 3 Visual and electrical indicator | 9 Dual visual |

Indicator Position:

This shows the side of the head on which the indicator is fitted viewed from the inlet port; R—right hand L—left hand. In the case of Type 3 heads, position refers to visual indicator.

Port Threads:

B – 1½ in. B.S.P. Supplied as standard. For alternative port threads please consult Fairey.

Element Type:

This specifies element length and filtration rating through a 3 digit code as follows –

Element Length 1, 2 & 3	Filtration Rating
	12 – 5 microns
	25 – 10 microns
	35 – 15 microns

Pressure Rating:

Add HP if working pressure of filter is between 4000 and 6000 p.s.i.

Example:

824 A-2 R-B-112	Right hand visual indicator
Type 824 filter	B.S.P. port threads
Suitable for mineral oils	Length 1: 5 micron element

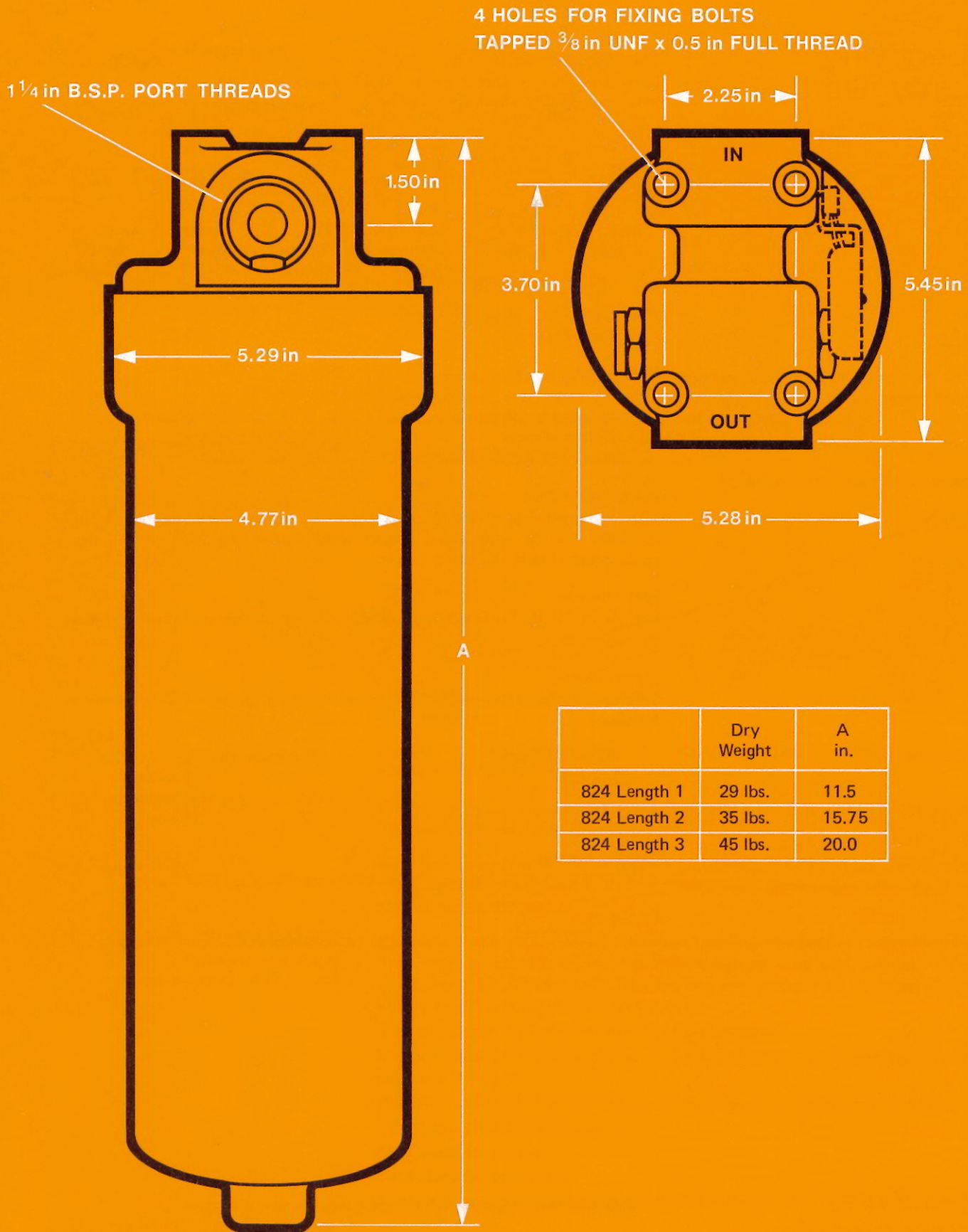
specifying replacement elements

A simplified code is used when ordering replacement elements.



Example:

820 P 225 A
Element for 824 filter, for use with mineral oil, length 2, 10 micron.



Allow extra 2.00 in. clearance (minimum) for removal of Element.
Port Threads: Adaptors and Special Threads are available.

Fairey Industrial Hydraulics Limited

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