

- Designed with two integral visual indicators (sizes 1 and 2) for all-round visibility and visual read-out of filter condition.
- Full-flow, inline filter for flows up to 360 l/min.
- Three sizes. Multi-purpose filter for return or suction.
- 3μAbs. (size 2), 10μAbs. and 25μAbs. disposable spin-on elements – 'Multipass' tested to ISO 4572.
- Maximum working pressure 7 bar.



MAXIFLOW FILTER

FULL FLOW FILTER FOR SUCTION OR RETURN

SPECIFICATIONS

Construction:

Aluminium head castings.

Steel bowl

Seals:

Nitrile

Max. working pressure: 7 bar

Operating temperature: -30°C to +90°C

Fluid compatability:

Mineral and petroleum based fluids.

Flower

Up to 360 l/min

By-pass crack pressure: 1.05 bar (return line)

1.05 bar (return line) 0.17 bar (suction line)

Filtration media:

3μ (Abs.) glassfibre comp. (Size 2)

10μ (Abs.) glassfibre composite 25μ (Abs.) Nitrile Phenolic resin

impregnated cellulose

Port sizes:

UC. MXA, 8*** Series = G¾ UC. MXA, 9*** Series = G1¼

UC. MXA 7*** Series = G1½

Weights:

Size	Overall weight Kg	Element weight Kg
8*** Series	0.8	0.51
9*** Series	1.6	1.04
7111 Spring	4.42	1.04

FILTER CONDITION INDICATORS

VISUAL INTEGRAL INDICATORS

Size 1 and 2 Maxiflow filters feature two integral red/green indicators incorporated into the head casting design. Fitted as standard, they ensure maximum indicator visibility and early warning of filter condition.

Size 3 Maxiflow features one integral indicator.

ELECTRICAL INDICATOR

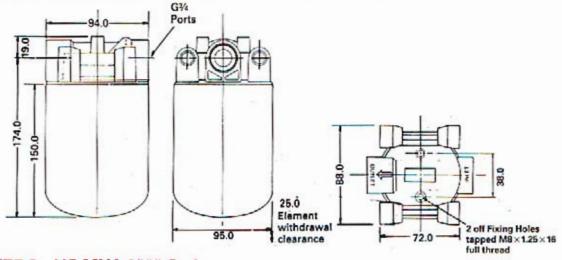
Consult UCC.

UCC recommend that the clean pressure differential across the element assembly should not exceed 50% of the bypass crack pressures, ensuring at least a 2:1 Factor for an effective filter life.

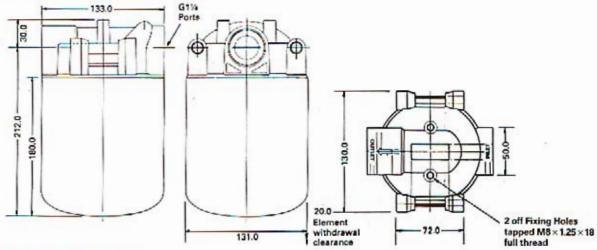
A GUARANTEE WILL ONLY BE GIVEN IF ORIGINAL UCC REPLACEMENT ELEMENTS AND SPARES ARE USED.

125µ stainless steel elements available for 7*** and 9*** Series. Consult UCC.

SIZE 1 - UC.MXA.8*** Series INSTALLATION DETAILS



SIZE 2 - UC.MXA.9*** Series INSTALLATION DETAILS



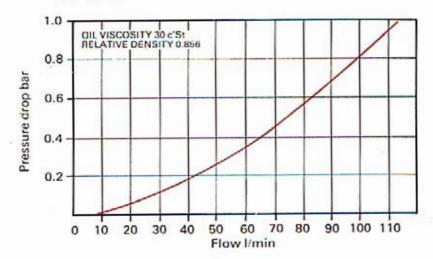
FILTER SELECTION

To select the correct filter use the appropriate pressure drop graphs. For details and an example of how to select the correct filter, see page 18.

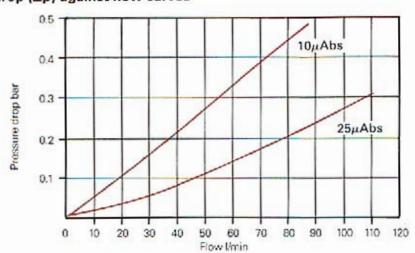




SIZE 1 MAXIFLOW (UC.MXA.8*** SERIES) FILTER SELECTION Filter housing pressure drop (∆p) against flow curves



Element pressure drop (\Delta p) against flow curves



ORDERING INFORMATION (UC.MXA.8*** SERIES)

RETURN LINE SIZE 1. G¾ PORT

Part Number	Description	Supersedes	Replacement Element
MXA.8551.424	10µ Abs. with by-pass, with indicator		MXR.8550
MXA.8511.424	25µ Abs. with by-pass, with indicator	UC-MX-1518-101/102	MX.1518.4.10x4*

SUCTION LINE SIZE 1 G¾ Port

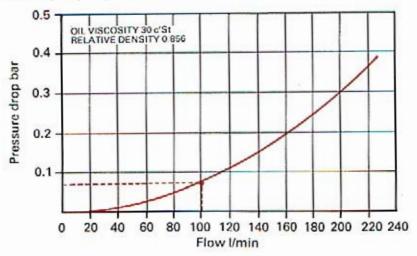
Part Number	Description	Supersedes	Replacement Element
MXA.8551.223	10μ Abs. with by-pass, with indicator		MXR.8550
MXA.8551.023	10μ Abs. without by-pass, with indicator		MXR.8550
MXA.8511.223	25μ Abs. with by-pass, with indicator	UC-MX-1518-103/104	MX.1518.4.10x4*
MXA.8511.023	25µ Abs. without by-pass, with indicator	UC-MX-1518-105/106	MX.1518.4.10x4*

*Note: These replacement elements are only available in 4 element packs. Please consult UCC for other Filter options.

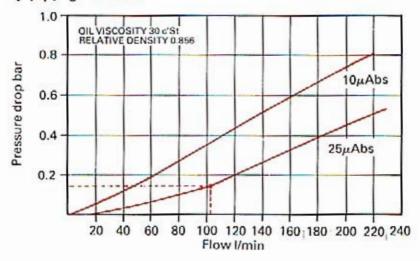
Replacement Element Part Numbers		
MXR.8550	10 _j ± Abs. Replacement element for UC.MXA.8*** Series	
MXR.1518.4.10x4*	25 _j ; Abs. Replacement element for UC.MXA.8*** Series	

SIZE 2 MAXIFLOW (UC.MXA.9*** SERIES) FILTER SELECTION

Filter housing pressure drop (△p) against flow



Element pressure drop (\Delta p) against flow



ORDERING INFORMATION (UC.MXA.9*** SERIES) RETURN LINE SIZE 2. G1¼ PORT

Part Number	Description	Supersedes	Replacement Element
MXA.9561.424	3µ Abs with by-pass, with Indicator		MXR.9560
MXA.9551.424	10μ Abs with by-pass, with indicator		MXR.9550
MXA.9511.424	25µ Abs with by-pass, with indicator	UX-MX-1591-101/102	MX.1591.4.10x4*

SUCTION LINE SIZE 2. G1¼ Port

Part Number	Description	Supersedes	Replacement Element
MXA.9551.223	10μ Abs with by-pass, with indicator	-	MXR.9550
MXA.9551.023	10µ Abs without by-pass, with indicator		MXR.9550
MXA.9511.223	25µ Abs with by-pass, with indicator	UC-MX-1591-103/104	MX.1591.4.10x4*
MXA.9511.023	25µ Abs without by-pass, with indicator	UC-MX-1591-105/106	MX.1591.4.10x4*

^{*}Note: These replacement elements are only available in 4 element packs. Consult UCC for other Filter options.

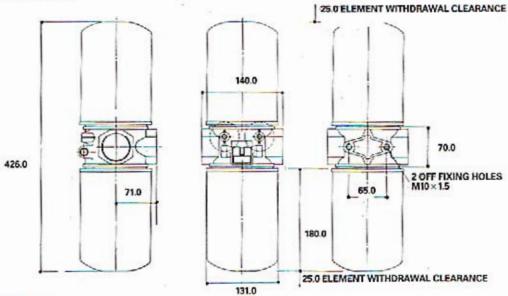
Replacement Element Part Numbers		
MXR.9560	3µ Abs. Replacement element for UC.MXA.9xxx Series	
MXR.9550	10 _{j.t.} Abs. Replacement element for UC.MXA.9xxx Series	
MXR.1591.4.10x4*	25µ Abs. Replacement element for UC.MXA.9xxx Series	

³μ Abs. FILTRATION FOR OFF-LINE SYSTEM CLEAN-UP
With a recommended maximum flow rate of 30 l/min. Maxiflow 3μ Abs elements are ideal for off-line clean-up applications.
3μ Abs. filtration can be specified for the 9*** and 7*** Series return line filters.



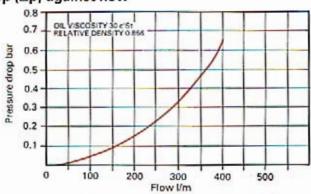
SIZE 3 MAXIFLOW (UC.MXA.7*** SERIES)

INSTALLATION DETAILS

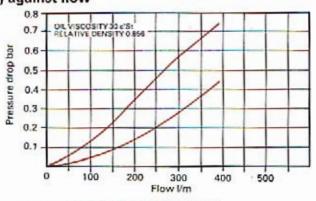


FILTER SELECTION

Filter Housing pressure drop (Δp) against flow



Element pressure drop (∆p) against flow



ORDERING INFORMATION (UC.MXA.7*** SERIES) RETURN LINE SIZE 3. G1½ PORT

Part Number	Description	Supersedes	Replacement Element
MXA.7551.424	10μ Abs. with by-pass, with indicator		MXR.9550 (2 off)
MXA.7511.424	25µ Abs. with by-pass, with indicator	UC.MX.1720.101/102	MX.1591.4.10×4 * (2 off)

SUCTION LINE SIZE 3. G1½ PORT

Part Number	Description	Supersedes	Replacement Element
MXA.7551.223	10μ Abs. with by-pass, with indicator	manual Control of the	MXR.9550 (2 off)
MXA.7551.023	10µ Abs. without by-pass, with indicator		MXR.9550 (2 off)
MXA.7511.223	25µ Abs. with by-pass, with indicator	UC.MX.1720.103/104	MX.1591.4.10×4 * (2 off)
MXA.7511.023	25μ Abs. without by-pass, with Indicator	UC.MX.1720.105/106	MX.1591.4.10×4 * (2 off)

MAXIFLOW TECHNICAL INFORMATION FILTER SELECTION

To establish total pressure drop through the filter assembly use this formulae:

Total Filter $\Delta p = \text{Housing } \Delta p + \text{Element } \Delta p$ where Element Ap is proportional to viscosity and for practical purposes relative density remains constant.

NOTE

Filters tested in accordance with ISO 3968 - pressure drop flow characteristics of hydraulic fluid power filters.

FILTER SELECTION EXAMPLE

(The pressure drop graphs for this example can be found on page 16)

> To find the pressure drop Δp across a complete filter with a clean element, where the flow rate is 100 l/min and the filtration required is 25 micron absolute, with mineral oil fluid at 50 cSt viscosity.

Consider a Maxiflow MXA.9511.424 Filter, with a 25 micron absolute element.

The pressure drop across the complete filter is: Total Filter $\Delta p = \text{Housing } \Delta p + \text{Element } \Delta p$. Therefore Housing Ap (at 100 l/min) = 0.06 bar (see graph)

Clean element Δp (30 cSt) (at 100 l/min) = 0.16 bar (see graph) Clean element Δp is proportional to viscosity Therefore clean element Δp at 50 cSt = 0.16 x 50 cSt = 0.27 bar

Therefore total filter Δp at 50 cSt = 0.06 + 0.27 = 0.33 bar

The clean element pressure drop should be less than 50% of the

bypass valve setting
The Bypass setting for a Maxiflow MXA.9511.424 return line filter is 1.05 bar.

Therefore the Maxiflow MXA.9511.424 Filter with 25 micron absolute element is satisfactory for this application.

UCC recommend that the clean pressure differential across the element assembly should not exceed 50% of the bypass crack pressures, ensuring at least a 2:1 Factor for an effective filter life.

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SUCTION LINE FILTERS

Use the pressure drop against flow graph to establish pressure drop (sub-atmospheric). It is important to ensure that the total pressure loss due to filter and pipes, etc. does not create a depression at the pump inlet exceeding the pump manufacturer's recommendations, cold start conditions must be taken into account. For further data consult UCC. Suction filters are supplied fitted with a by-pass valve set to crack at 0.17 bar or with no by-pass.