Bypass Units - A & B Series

The Bypass Filtration Unit (BPU) is specifically designed for mobile hydraulic installations and is available in single or double filter housings, offering flexibility for new applications as well as upgrades to existing equipment.



Features:

- Easy installation
- Suitable for OEM use and retrofitting
- Fits various filter types and different micron ratings without any modifications
- Optional add-ons for additional water absorption capacity, indicators and condition monitoring
- Compatible with system pressure of 12-420 bar

[1]Performance Specifications:

	BPU05A	BPU1A	BPU1B	BPU2A	BPU2B
Dry Weight	± 11 lbs (± 5 kg)	± 13 lbs (± 6 kg)	± 22 lbs (± 10 kg)	± 29 lbs (± 13 kg)	± 40 lbs (± 18 kg)
Nominal Flow Rate	0.4 gpm (0,4 l/min)	0.55 gpm (2,1 l/min)	1.1 gpm (4,2 l/min)	1.1 gpm (4,2 l/min)	2.2 gpm (8,4 l/min)
Oil Temperature Range	up to 176° F (80° C) - Contact Des-Case representative for other oil temperatures				
Suitable Elements	20 series depth	30 series depth and glassfiber	60 series depth and glassfiber	30 series depth and glassfiber	60 series depth and glassfiber
Max. Pressure Filter Housing	20 bar				
Operating Pressure Flow Control Valve (min.- max.)	12 - 420 bar				
Bypass Opening Pressure	6,2 bar				
Max. Recommended Reservoir Volume	± 132 gal (± 500 l)	± 198 gal (± 750 l)	± 396 gal (± 1500 l)	± 396 gal (± 1500 l)	± 792 gal (± 3000 l)
Fluid Compatibility	Hydraulic and synthetic fluids according to DIN 51524, 51525. (Contact Des-Case representative for other fluid compatibility)				
Materials					
Housing	Anodized Aluminum				
Manifold, Lid	Aluminum				
Seals	NBR, FPM (Ordering code dependent)				
Mounting Bracket	Galvanized Steel				
Wetted Parts	Steel and Aluminum				

[1]Note: Small variations in the manufacturing process can be common and will be within the allowable engineering tolerances. All above data is nominal and provided for information only and is subject to change. All metric conversions are approximate.

Advantages

- Extends component & oil life by 3-7 times
- Compact & easy to maintain
- Highest filtration efficiency
- Saturated and free water absorption
- Contributes to the sustainability of the equipment

Typical Applications

- Excavators
- Wheel Loaders
- Harvesters
- Knuckle Boom Cranes
- Concrete Pumps
- Aircraft De-icers

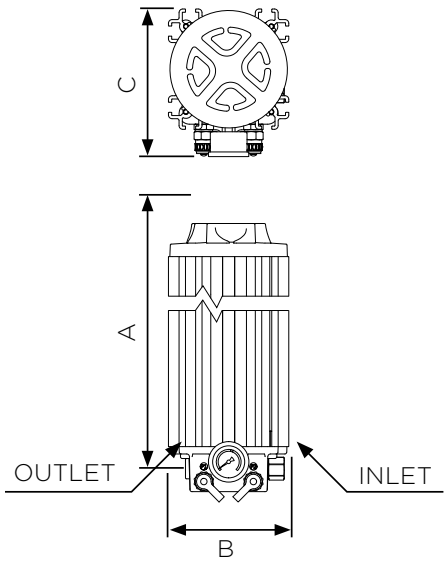
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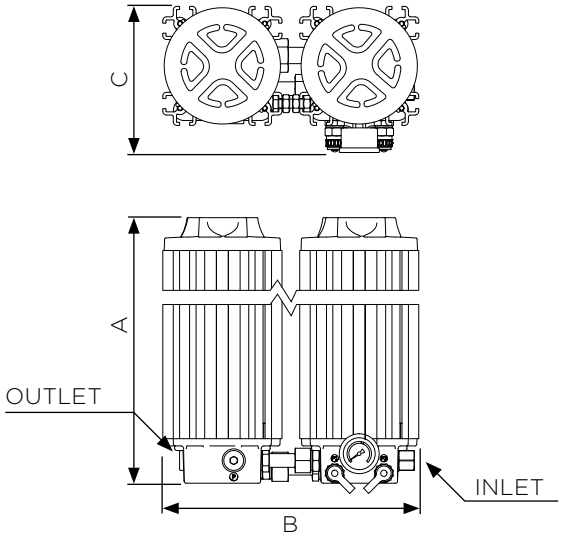
DIMENSIONS BPU05A, BPU1A, BPU1B

	A in / mm	B in / mm	C in / mm	INLET	OUTLET
BPU05A	11.9 / 301	5.2 / 131	6.3 / 161	G 1/4" FEMALE	G 1/ 2" FEMALE
BPU1A	15.8 / 401	5.2 / 131	6.3 / 161	G 1/4" FEMALE	G 1/ 2" FEMALE
BPU1B	27.8 / 706	5.2 / 131	± 8.4 / 213	G 1/4" FEMALE	G 1/ 2" FEMALE



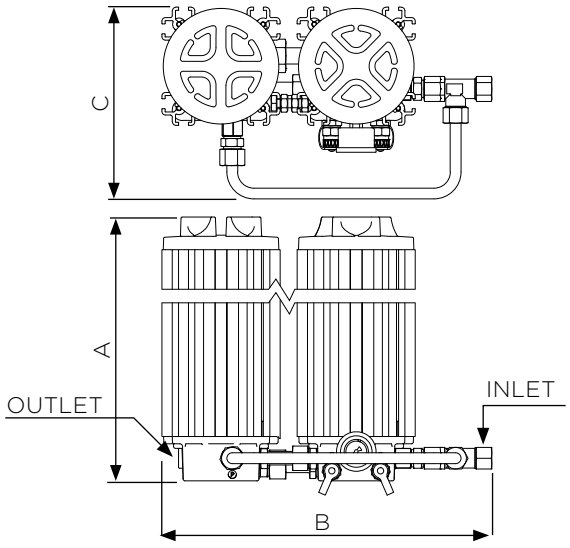
DIMENSIONS BPU2A

	A in / mm	B in / mm	C in / mm	INLET	OUTLET
BPU2A	15.8 / 401	11.1 / 282	6.3 / 161	G 1/4" FEMALE	G 1/2" FEMALE



DIMENSIONS BPU2B

	A	B	C	INLET	OUTLET
BPU2B	27.8 / 706	14.4 / 366	± 8.4 / 213	EL 12S MALE	G 1/2" FEMALE



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Ordering Codes

BPU							
Box 1	Box 2	Box 3	Box 4	Box 5	Box 6	Box 7	Box 8

Basic Configurations [Box 1]	
Code	**Description**
BPU	Bypass Unit

Housing Configurations [Box 2]		
Code	**Housing Configuration**	**Typical Reservoir Size**
05A	Single housing (short version)	0 – 130 gal (500 l) reservoir
1A	Single housing (single length)	0 – 200 gal (750 l) reservoir
2A	Twin housing (single length)	0 – 400 gal (1500 l) reservoir
1B	Single housing (double length)	0 – 400 gal (1500 l) reservoir
2B	Twin housing (double length)	0 – 400 gal (3000 l) reservoir

Element Length [Box 3]	
Code	**Description**
20	200 mm (8 in)
30	300 mm (12 in)
60	600 mm (24 in)

Filter Material [Box 4]		
Code	**Filter Material**	**Recommended Viscosity Range**
H	Cellulose 0.5 micron, bottom seal	10 - 180 cSt
N	Cellulose 0.5 micron, no bottom seal	
G1	Microglass 1 micron; $ß_4$ (c) > 1000	10 - 500 cSt
G3	Microglass 3 micron; $ß_5$ (c) > 1000	
G6	Microglass 6 micron; $ß_7$ (c) > 1000	
G10	Microglass 10 micron; $ß_{10}$ (c) > 1000	
A1	Microglass and water absorbing Polymer 1 micron; $ß_1$ (c) > 200	10 - 500 cSt
A5	Microglass and water absorbing Polymer 5 micron; $ß_5$ (c) > 200	

Seal Material [Box 5]	
Code	**Description**
B	Buna-N / NBR (standard)
V	Viton / FPM

Indicator Options [Box 6]	
Code	**Description**
0	Pressure gauge (standard)
1	Additional electric switch
2	No switch mounted
3	Additional Δp switch
4	OQS
5	OQS + display
6	OQS prepared
7	CMS prepared

Additional Options [Box 7]	
Code	**Description**
0	With standard flow control valve
1	Without flow control valve (please consult Des-Case representative)
5	Non standard flow / 0.55 gpm (2.1 l/min)
6	With 1.5 mm orifice - No flow control valve / 1 minimess (always together with option “2” in table 6)
7	Non-standard flow / 0.4 gpm (1.4 l/min)
8	Non-standard flow / 1.1 gpm (4.2 l/min)

Mounting Options [Box 8]	
Code	**Description**
0	No options
1	With standard foot / bulk head mounting bracket
3	With standard “OLU” wall mounting bracket

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