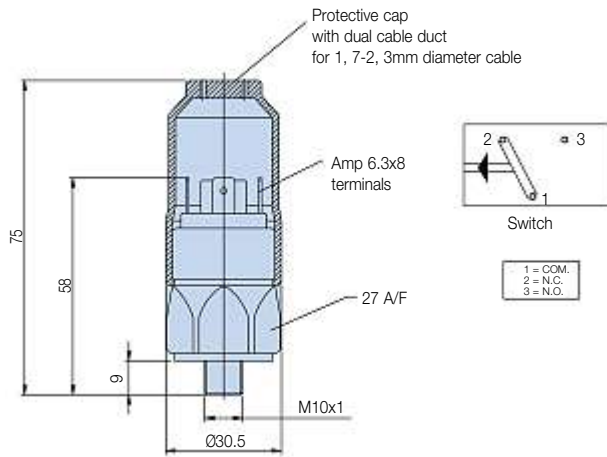


Tanktop Mounted Return Line Filters

TTF Series

Indicator Options

Indicator PS pressure switch

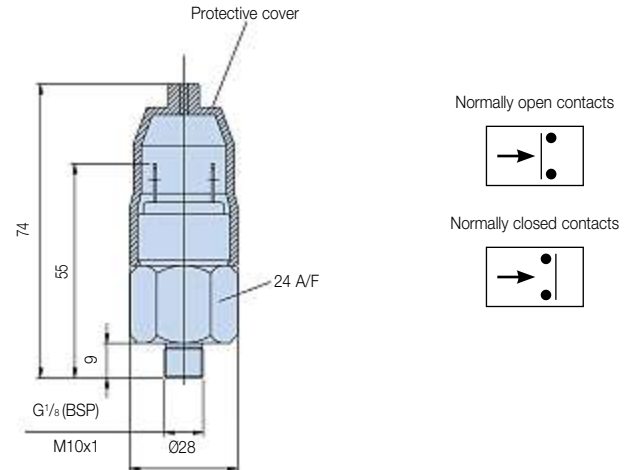


Specifications	
Elec.rating	42V / 4A
Thread connection	M10x1
Elec.connection	AMP 6.3x0.8 terminals + protective cap
Protection	IP65 (with cap) terminals IP00
Code	FMUS1EBMM10L (Switch)

Indicator Connection / Filter Head Matrix

	Port(s) Filter head	Indicator Thread
TTF	ISO 228-G ¹ / ₄ " (BSP) (TTF length 2,3,4 and 5)	M10
	ISO 228-G1" (BSP)	M10
	ISO 228-G1 ¹ / ₂ " (BSP) (TTF length 7 and larger)	M10
	2xISO 228-G1 ¹ / ₄ " (BSP) (TTF length 7 and larger)	G1/8"
	ISO 228-G1 ¹ / ₂ "(BSP) (TTF length 7 and larger)	M10
	2xISO 228-G1 ¹ / ₂ "(BSP) (TTF length 7 and larger)	G1/8"
	1 ¹ / ₂ " SAE-3000 PSI (TTF length 7 and larger)	G1/8"
	1 ¹ / ₂ " SAE-3000 PSI (2nd port) + G1 ¹ / ₂ " (TTF length 7 and larger)	G1/8"
	G2" (TTF length 7 and larger)	G1/8"
	G2" + G1 ¹ / ₂ " (TTF length 7 and larger)	G1/8"
TSR	ISO 228-G1 ¹ / ₄ " (BSP) + 2 Ports A ISO228-G1" (TSR only)	G1/8"
	2xISO 228-G1 ¹ / ₄ " (BSP) + 2 Ports A ISO228-G1" (TSR only)	G1/8"
	SAE20 + 2 Ports A SAE16 (TSR only)	G1/8"
	2xSAE20 + 2 Ports SAE16 (TSR only)	G1/8"

Indicator PS NO/NC pressure switch



Specifications	
Elec.rating	42V / 2A
Thread connection	G ¹ / ₈
Elec.connection	AMP terminal 6.3x0.8
Protection	IP65 (terminal IP00)
Switch type	NO or NC
Code	FMUS2EBMG02L (NO switch)
	FMUS3EBMG02L (NC switch)

Visual indicator	
M10: code	FMUG1EBPM10L
G ¹ / ₈ : code	FMUG2EBPG02L

Ordering Information

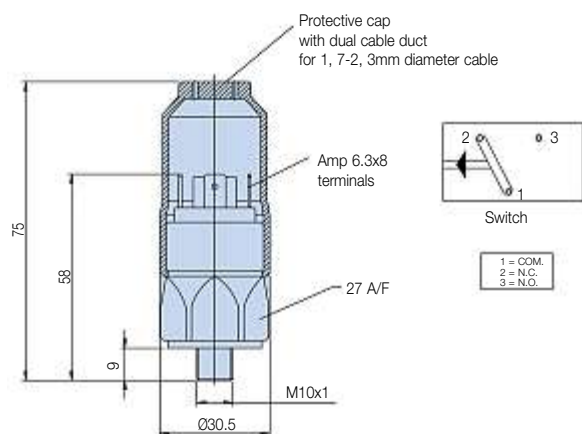
Standard products table

Part number	Supersedes	Flow (l/min)	Model number	Element length	Media rating (µ)	Seals	Indicator	Bypass settings	Ports	Included options	Replacement elements	Supersedes
TTF310QLBP2EG121	TTF90-G ¹ / ₄ TXWL3-10 B15 MM	90	TTF90	Length 3	10	Nitrile	Plugged	1.5 Bar (22 Psi)	G ¹ / ₄	None	937878Q	TXWL3-10
TTF320QLBP2EG121	TTF90-G ¹ / ₄ TXWL3-20 B15 MM	90	TTF90	Length 3	20	Nitrile	Plugged	1.5 Bar (22 Psi)	G ¹ / ₄	None	937877Q	TXWL3-20
TTF510QLBP2EG161	TTF125-G1 TXWL3E-10 B15 MM	125	TTF125	Length 5	10	Nitrile	Plugged	1.5 Bar (22 Psi)	G1	None	937852Q	TXWL3E-10
TTF520QLBP2EG161	TTF125-G1 TXWL3E-20 B15 MM	125	TTF125	Length 5	20	Nitrile	Plugged	1.5 Bar (22 Psi)	G1	None	937875Q	TXWL3E-20
TTF610QLBP2EG203	TTF170-G1 ¹ / ₄ TXWL4-10 T B15 MM	170	TTF170	Length 6	10	Nitrile	Plugged	1.5 Bar (22 Psi)	G1 ¹ / ₄	Diffuser type T	937853Q	TXWL4-10
TTF620QLBP2EG203	TTF170-G1 ¹ / ₄ TXWL4-20 T B15 MM	170	TTF170	Length 6	20	Nitrile	Plugged	1.5 Bar (22 Psi)	G1 ¹ / ₄	Diffuser type T	937874Q	TXWL4-20
TTF810QLBP2EG243	TTF300-G1 ¹ / ₂ TXWL5A-10 T B15 MM	300	TTF300	Length 8	10	Nitrile	Plugged	1.5 Bar (22 Psi)	G1 ¹ / ₂	Diffuser type T	937855Q	TXWL5A-10
TTF820QLBP2EG243	TTF300-G1 ¹ / ₂ TXWL5A-20 T B15 MM	300	TTF300	Length 8	20	Nitrile	Plugged	1.5 Bar (22 Psi)	G1 ¹ / ₂	Diffuser type T	937872Q	TXWL5A-20
TTF1010QLBP2HG24A	TTF500-G1 ¹ / ₂ TXWL5C-10 T B20 MM NMG	500	TTF500	Length 10	10	Nitrile	Plugged	2.0 Bar (29 Psi)	G1 ¹ / ₂	Diffuser type T	937857Q	TXWL5C-10
TTF1010QLBP2HG24A	TTF500-G1 ¹ / ₂ TXWL5C-20 T B20 MM NMG	500	TTF500	Length 10	20	Nitrile	Plugged	2.0 Bar (29 Psi)	G1 ¹ / ₂	Diffuser type T	937870Q	TXWL5C-20

Note: Filter assemblies ordered from the product configurator on the next page are on extended lead times. Where possible, please make your selection from the table above.

Indicator Options

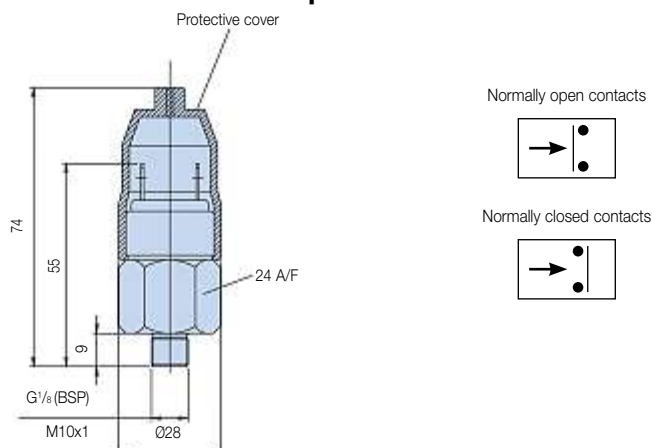
Indicator PS pressure switch



Specifications	
Elec.rating	42V / 4A
Thread connection	M10x1
Elec.connection	AMP 6.3x0.8 terminals + protective cap
Protection	IP65 (with cap) terminals IP00
Code	FMUS1EBMM10L (Switch)

Indicator Connection / Filter Head Matrix	
Port(s) Filter head	Indicator Thread
2" SAE BGT length 11 and 12	M10
3" SAE BGT Length 13 and larger	M10
1x2"SAE Flanged + 2 x 1 1/4" SAE Flanged for BGT Length 11 and 12	G 1/8"
3x1 1/4" SAE Flanges + 1x 1/2" SAE for BGT Length 13 and larger	M10

Indicator PS NO/NC pressure switch



Specifications	
Elec.rating	42V / 2A
Thread connection	G 1/8
Elec.connection	AMP terminal 6.3x0.8
Protection	IP65 (terminal IP00)
Switch type	NO or NC
Code	FMUS2EBMG02L (NO switch)
	FMUS3EBMG02L (NC switch)

Visual indicator	
M10 code	FMUG1EBPM10L
G 1/8 code	FMUG2EBPG02L

Pressure Drop Curves

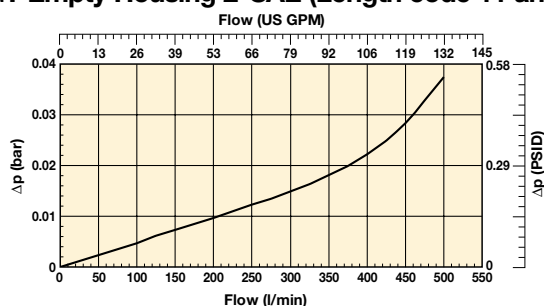
The recommended level of the initial pressure drop for low pressure filters is max 0.5 bar.

If the medium used has a viscosity different from 32cSt, pressure drop over the filter can be estimated as follows:

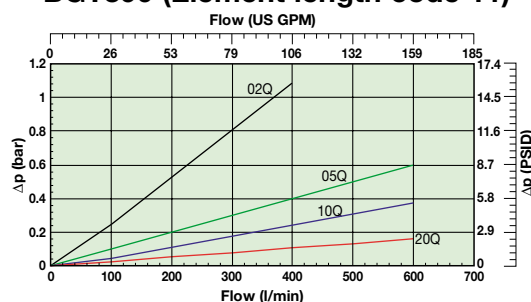
$\Delta p = (\Delta p_{32} \times \text{viscosity of medium used}) / 32\text{cSt}$

Filter housing and element pressure drop based on 32cSt fluid viscosity and 0.87 density.

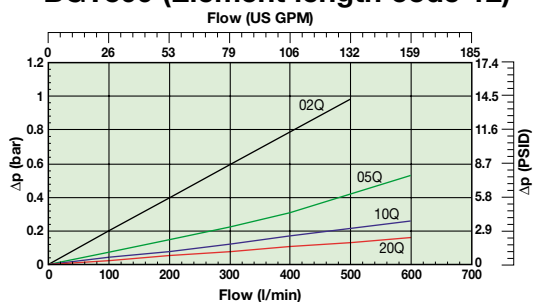
BGT Empty Housing 2"SAE (Length code 11 and 12)



BGT390 (Element length code 11)



BGT500 (Element length code 12)



Tanktop Mounted Return Line Filters

Tanktopper Series I, II & III

Ordering Information

Standard products table

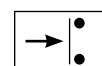
Part number	Supersedes	Flow (l/min)	Model number	Element length	Media rating (μ)	Seals	Indicator	Bypass settings	Ports	Included options	Replacement elements	Supersedes
TPR110QLBP2EG12E	TPR40-G ¹ / ₄ PXWL1-10 B15 MM MA	40	TPR40	Length 1	10	Nitrile	Plugged	1.5 Bar (22 Psi)	G ¹ / ₄	Magnets	937902Q	PXWL1-10
TPR120QLBP2EG12E	TPR40-G ¹ / ₄ PXWL1-20 B15 MM MA	40	TPR40	Length 1	20	Nitrile	Plugged	1.5 Bar (22 Psi)	G ¹ / ₄	Magnets	937904Q	PXWL1-20
TPR210QLBP2EG12L	TPR80-G ¹ / ₄ PXWL2-10 AB15 MM MA	80	TPR80	Length 2	10	Nitrile	Plugged	1.5 Bar (22 Psi)	G ¹ / ₄	Aluminium funnel, magnets	937903Q	PXWL2-10
TPR220QLBP2EG12L	TPR80-G ¹ / ₄ PXWL2-20 AB15 MM MA	80	TPR80	Length 2	20	Nitrile	Plugged	1.5 Bar (22 Psi)	G ¹ / ₄	Aluminium funnel, magnets	937905Q	PXWL2-20
TPR510QLBP2EG20I	TPR120-2G1 ¹ / ₂ PXWL3-10 B15 MM	120	TPR120	Length 5	10	Nitrile	Plugged	1.5 Bar (22 Psi)	2xG1 ¹ / ₂	None	937892Q	PXWL3-10
TPR520QLBP2EG20I	TPR120-2G1 ¹ / ₂ PXWL3-20 B15 MM	120	TPR120	Length 5	20	Nitrile	Plugged	1.5 Bar (22 Psi)	2xG1 ¹ / ₂	None	937895Q	PXWL3-20
TPR710QLBP2EG24I	TPR250-2G1 ¹ / ₂ PXWL4A-10 B15 MM	250	TPR250	Length 7	10	Nitrile	Plugged	1.5 Bar (22 Psi)	2xG1 ¹ / ₂	None	937894Q	PXWL4A-10
TPR720QLBP2EG24I	TPR250-2G1 ¹ / ₂ PXWL4A-20 B15 MM	250	TPR250	Length 7	20	Nitrile	Plugged	1.5 Bar (22 Psi)	2xG1 ¹ / ₂	None	937897Q	PXWL4A-20
TPR1110QLBP2EG24I	TPR650-2G1 ¹ / ₂ PXWL8-10 B15 MM	650	TPR650	Length 11	10	Nitrile	Plugged	1.5 Bar (22 Psi)	2xG1 ¹ / ₂	None	937914Q	PXWL8-10
TPR1120QLBP2EG24I	TPR650-2G1 ¹ / ₂ PXWL8-20 B15 MM	650	TPR650	Length 11	20	Nitrile	Plugged	1.5 Bar (22 Psi)	2xG1 ¹ / ₂	None	937917Q	PXWL8-20

Note: Filter assemblies ordered from the product configurator below are on extended lead times. Where possible, please make your selection from the table above.

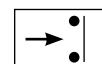
Visual indicator	
Thread connection	G ¹ / ₈
Code	FMUG2EBPG02L

Specifications	
Elec.rating	42V / 2A
Thread connection	G ¹ / ₈
Elec.connection	AMP terminal 6.3x0.8
Protection	IP65 (terminal IP00)
Switch type	NO or NC
Code	FMUS2EBMG02L (NO switch)
	FMUS3EBMG02L (NC switch)

Normally open contacts



Normally closed contacts



Product configurator

Configurator example TPR filter

Box 1	Box 2	Box 3	Box 4	Box 5	Box 6	Box 7	Box 8
TPR	2	05QL	B	S2	I	G12	L

Box 1	Box 2	Box 3																																																														
<table><tr><th>Code</th></tr><tr><td>TPR</td></tr></table>	Code	TPR	<table><tr><th colspan="2">Filter type</th></tr><tr><th>Housing</th><th>Code</th></tr><tr><td>TPR 1-40</td><td>1</td></tr><tr><td>TPR 1-80</td><td>2</td></tr><tr><td>TPR 2-120</td><td>5</td></tr><tr><td>TPR 2-200</td><td>6</td></tr><tr><td>TPR 2-250</td><td>7</td></tr><tr><td>TPR 3-450</td><td>10</td></tr><tr><td>TPR 3-650</td><td>11</td></tr></table>	Filter type		Housing	Code	TPR 1-40	1	TPR 1-80	2	TPR 2-120	5	TPR 2-200	6	TPR 2-250	7	TPR 3-450	10	TPR 3-650	11	<table><tr><th colspan="6">Degree of filtration</th></tr><tr><td rowspan="4">Element media</td><td colspan="5">Glass fibre</td><td rowspan="4">Wire mesh</td></tr><tr><td colspan="5">Microglass III (for disposable elements)</td></tr><tr><td>Cellulose</td><td colspan="4">Ecoglass III (for Leif® elements)</td></tr><tr><td>Nom. rating</td><td></td><td></td><td></td><td></td></tr><tr><td>Disposable element (TPR I only)</td><td>10C</td><td>02Q</td><td>05Q</td><td>10Q</td><td>20Q</td><td>040W</td></tr><tr><td>LEIF® element (for all TPR Filters)</td><td></td><td>02QL</td><td>05QL</td><td>10QL</td><td>20QL</td><td></td></tr></table>	Degree of filtration						Element media	Glass fibre					Wire mesh	Microglass III (for disposable elements)					Cellulose	Ecoglass III (for Leif® elements)				Nom. rating					Disposable element (TPR I only)	10C	02Q	05Q	10Q	20Q	040W	LEIF® element (for all TPR Filters)		02QL	05QL	10QL	20QL	
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LEIF® element (for all TPR Filters)		02QL	05QL	10QL	20QL																																																											

Seal type	
Seal material	Code
Nitrile	B
Fluoroelastomer	on request

Indicator	
	Code
Pressure gauge, setting 1.2 bar, G ¹ / ₈	G2
Pressure switch 42V, 1.2 bar setting, NO with G ¹ / ₈	S2
Pressure switch 42V, 1.2 bar setting, NC with G ¹ / ₈	S3
Pressure switch 250V, NO/NC with G ¹ / ₈	S4
No indicator, indicator ports not machined	on request
No indicator, indicator port R plugged	on request
No indicator, indicator ports L + R plugged	P2
Other settings for indicators / gauges on request	on request

Bypass valve	
Bypass valve	Code
0.8 bar	B
1.5 bar	E
2.5 bar (TPR 1 Series only)	I
Blocked bypass	on request
Other bypass settings	on request

Note 1: Part numbers featured with bold highlighted codes will ensure a 'standard' product selection.

Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.

Filter connection	
Ports	Code
G ¹ / ₄ (BSP) (TPR 1 Series)	G12
SAE12 (TPR 1 Series)	S12
G ¹ / ₄ (BSP) (TPR 2 Series)	G20
2 x ISO 228-G ¹ / ₄ (BSP) (TPR 2 Series)	2G20
SAE 20 (TPR 2 Series)	S20
2 x SAE 20 (TPR 2 Series)	2S20
SAE 24 (TPR 2 Series)	S24
2 x SAE 24 (TPR 2 Series)	2S24
G ¹ / ₂ (BSP) (TPR 2 and 3 Series)	G24
G ¹ / ₂ (BSP) (TPR 2 and 3 Series)	2G24

Options	
Options	Code
Standard	1
Dipstick	6
Aluminium funnel for TPR 1-80	J
Magnets for TPR 1 Series	E
Magnets + Dipstick for TPR 1 Series	K
Magnets + Aluminium Diffuser for TPR 1 Series	L
Magnets + Aluminium Diffuser + Dipstick for TPR 1 Series	M
Other combinations	on request

Note: Tanktopper I Series are standard supplied with POM type diffuser. Aluminium funnel is recommended for heavy duty applications, sensitivity for electrostatically charging or high fluid temperatures. Tanktopper II and III Series are always supplied with metal diffuser.

Highlights Key (Denotes part number availability)

123	Item is standard
123	Item is standard green option
123	Item is semi standard
123	Item is non standard

Note: Standard items are in stock, semi standard items are available within four weeks