



Tierre Group S.p.a.
Via dell'Industria, 18 - 20032 - Cormano (MI) - Italy
Tel. +39 02 663088.1 - Fax +39 02 66304172
C.F. e P.IVA 12437570158
www.tierregroup.com - info@tierregroup.com

INDEX

 FTRP-LBX Pag.4	 FTRP-LBX-N Pag.4	 FTRPX Pag.4	 FTRPX-N Pag.4	 LBX Pag.5	 LBX-N Pag.5	 RPX Pag.5
 RPX-N Pag.5	 FTX Pag.6	 FTX-N Pag.6	 STUX Pag.6	 EFTX Pag.6	FTRP-LBCX Pag.8	FTRP-LBCX-N Pag.8
FTRPCX Pag.8	FTRPCX-N Pag.8	 LBCX Pag.9	 LBCX-N Pag.9	 RPCX Pag.9	 RPCX-N Pag.9	FTCX Pag.10
FTCX-N Pag.10	 STUCX Pag.10	 EFTX Pag.10				

F.R.L. COMBINATIONS

AISI 316

Technical specifications

For high pressure use, corrosion and chemical resistance.
 Good performance in chemically working environments and outdoor facility.
 Suitable for semi-conductor industry.
 Accurate and sensitive pressure setting.
 Lubricator oil can be replenished without stopping air supply.
 Oil spray in mist ensures god lubrication for machines.

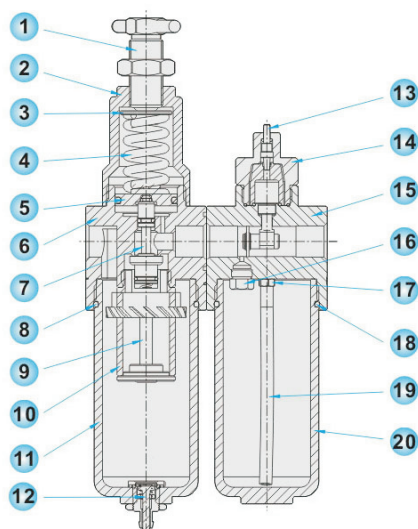
Model designation

FTRP	-	LB	X	N	14										
↓		↓	↓	↓	↓										
Filter regulator		Lubricator	SUS316 Stainless steel	Thread	Port size										
				<table><tr><td>G</td><td>BSPP</td></tr><tr><td>N</td><td>NPT</td></tr></table>	G	BSPP	N	NPT	<table><tr><td>14</td><td>1/4"</td></tr><tr><td>38</td><td>3/8"</td></tr><tr><td>12</td><td>1/2"</td></tr></table>	14	1/4"	38	3/8"	12	1/2"
G	BSPP														
N	NPT														
14	1/4"														
38	3/8"														
12	1/2"														



Specifications

MODEL	FTRP-LBXG14 FTRP-LBXN14	FTRP-LBXG38 FTRP-LBXN38	FTRP-LBXG12 FTRP-LBXN12
Port size	1/4"	3/8"	1/2"
Fluid	Compressed air		
Regulator construction	Piston		
Body material	Stainless steel SUS 316		
Bowl material	Stainless steel SUS 316		
Pressure gauge material	Case: Stainless steel SUS 304, Thread: Stainless steel SUS 316		
Filtration/Element material	5μm (Standard) Stainless steel SUS 316		
Operating pressure range	0.5 ~ 30 kgf/cm ²		
Max. inlet pressure	60 kgf/cm ²		
Max. flow rate l/min (6kgf/cm ²)	2080	2200	2500
Ambient temperature	-10°C +60°C		
Lubricator oil (Racommended)	ISO-VG32		
Filter bowl capacity	110cc		
Lubricator bowl capacity	130cc		
Standard drain	Semi-auto drain (Drains below 0.5kgf/cm ²)		
Available on demand	MD: manual drain D: Auto drain		
Net weight	3800g	3870g	3840g
Accessories	Pressure gauge, Mounting bracket		



N.	Description	Material
1	Pressure regulating screw	SUS316
2	Regulator base	SUS316
3	Disc Gasket	SUS303
4	Spring	SUS303
5	Piston	SUS303
6	Regulator body	SUS316
7	Pressure regulating needle	SUS303
8	O-ring	VITON
9	Filter element holder	SUS303
10	Filter element	SUS316
11	Filter bowl	SUS316
12	Drain	Cu + Ni
13	Oil adjusting screw	SUS316
14	Screw cover	SUS316
15	Lubricator body	SUS316
16	Plug	SUS316
17	Oil pipe fitting	SUS316
18	O-ring	VITON
19	O-ring	PU
20	Lubricator bowl	SUS316

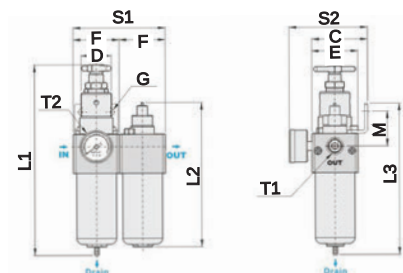
products in conformity with the directive 2002/95/EC **RoHS**

drawings and technical data are not binding

Filter regulator + Lubrificator with thread BSPP

FTRP-LBX

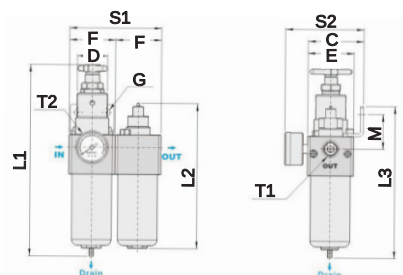
CODE	T1	T2	C (mm)	D (mm)	E (mm)	F (mm)	ØG (mm)	L1 (mm)	L2 (mm)	L3 (mm)	M (mm)	S1 (mm)	S2 (mm)	
FTRP-LBXG14	G1/4"	1/4	70.5	36.0	58.0	58.0	9.0	243.0	182.2	191.5	44.0	116.0	99.1	1
FTRP-LBXG38	G3/8"	1/4	70.5	36.0	58.0	58.0	9.0	243.0	182.2	191.5	44.0	116.0	99.1	1
FTRP-LBXG12	G1/2"	1/4	70.5	36.0	58.0	58.0	9.0	243.0	182.2	191.5	44.0	116.0	99.1	1



Filter regulator + Lubrificator with thread NPT

FTRP-LBX-N

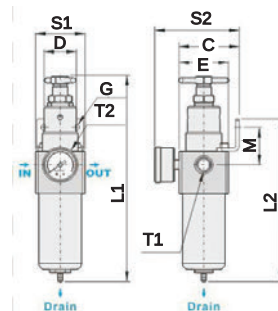
CODE	T1	T2	C (mm)	D (mm)	E (mm)	F (mm)	ØG (mm)	L1 (mm)	L2 (mm)	L3 (mm)	M (mm)	S1 (mm)	S2 (mm)	
FTRP-LBXN14	N1/4"	1/4	70.5	36.0	58.0	58.0	9.0	243.0	182.2	191.5	44.0	116.0	99.1	1
FTRP-LBXN38	N3/8"	1/4	70.5	36.0	58.0	58.0	9.0	243.0	182.2	191.5	44.0	116.0	99.1	1
FTRP-LBXN12	N1/2"	1/4	70.5	36.0	58.0	58.0	9.0	243.0	182.2	191.5	44.0	116.0	99.1	1



Filter regulator with thread BSPP

FTRPX

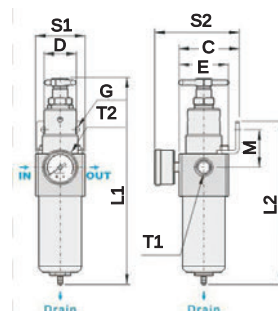
CODE	T1	T2	C (mm)	D (mm)	E (mm)	M (mm)	ØG (mm)	L1 (mm)	L2 (mm)	S1 (mm)	S2 (mm)	Max. flow rate (l/min)	WEIGHT (g)	
FTRPXG14	G1/4"	1/4	70.5	36.0	58.0	44.0	9.0	243.0	191.5	116.0	99.1	2200	2000	1
FTRPXG38	G3/8"	1/4	70.5	36.0	58.0	44.0	9.0	243.0	191.5	116.0	99.1	2500	2000	1
FTRPXG12	G1/2"	1/4	70.5	36.0	58.0	44.0	9.0	243.0	191.5	116.0	99.1	3800	2000	1



Filter regulator with thread NPT

FTRPX-N

CODE	T1	T2	C (mm)	D (mm)	E (mm)	M (mm)	ØG (mm)	L1 (mm)	L2 (mm)	S1 (mm)	S2 (mm)	Max. flow rate (l/min)	WEIGHT (g)	
FTRPXN14	N1/4"	1/4	70.5	36.0	58.0	44.0	9.0	243.0	191.5	116.0	99.1	2200	2000	1
FTRPXN38	N3/8"	1/4	70.5	36.0	58.0	44.0	9.0	243.0	191.5	116.0	99.1	2500	2000	1
FTRPXN12	N1/2"	1/4	70.5	36.0	58.0	44.0	9.0	243.0	191.5	116.0	99.1	3800	2000	1

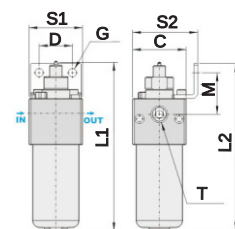


Lubrificatore with thread BSPP

LBX



CODE	T	C (mm)	D (mm)	ØG (mm)	L1 (mm)	L2 (mm)	M (mm)	S1 (mm)	S2 (mm)	Max. flow rate (l/min)	WEIGHT (g)	
LBXG14	G1/4"	58.0	36.0	9.0	182.2	181.0	44.0	58.0	70.5	2500	1750	1
LBXG38	G3/8"	58.0	36.0	9.0	182.2	181.0	44.0	58.0	70.5	2525	1750	1
LBXG12	G1/2"	58.0	36.0	9.0	182.2	181.0	44.0	58.0	70.5	4100	1750	1

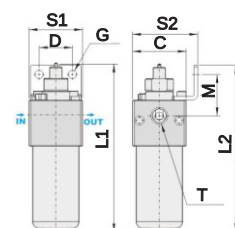


Lubrificatore with thread NPT

LBX-N



CODE	T	C (mm)	D (mm)	ØG (mm)	L1 (mm)	L2 (mm)	M (mm)	S1 (mm)	S2 (mm)	Max. flow rate (l/min)	WEIGHT (g)	
LBXN14	N1/4"	58.0	36.0	9.0	182.2	181.0	44.0	58.0	70.5	2500	1750	1
LBXN38	N3/8"	58.0	36.0	9.0	182.2	181.0	44.0	58.0	70.5	2525	1750	1
LBXN12	N1/2"	58.0	36.0	9.0	182.2	181.0	44.0	58.0	70.5	4100	1750	1

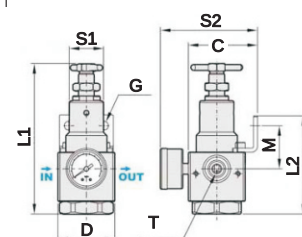
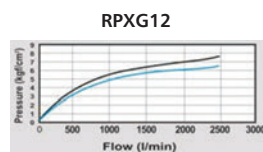
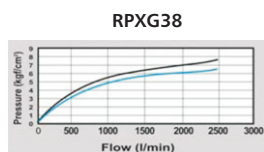
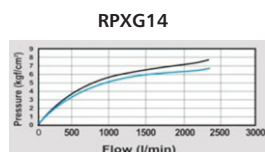


Regulator with thread BSPP

RPX



CODE	T	C (mm)	D (mm)	ØG (mm)	L1 (mm)	L2 (mm)	M (mm)	S1 (mm)	S2 (mm)	Max. flow rate (l/min)	WEIGHT (g)	
RPXG14	G1/4"	70.5	58.0	9.0	153.5	100.0	44.0	36.0	99.1	1950	1400	1
RPXG38	G3/8"	70.5	58.0	9.0	153.5	100.0	44.0	36.0	99.1	2250	1400	1
RPXG12	G1/2"	70.5	58.0	9.0	153.5	100.0	44.0	36.0	99.1	2520	1400	1

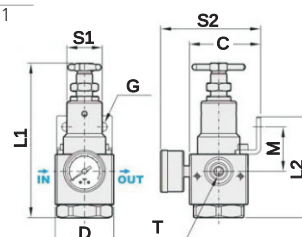
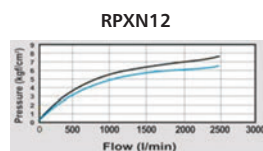
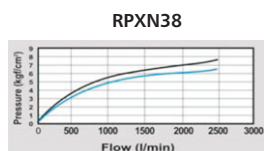
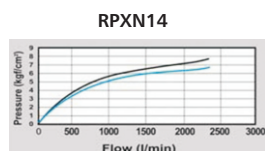


Regulator with thread NPT

RPX-N



CODE	T	C (mm)	D (mm)	ØG (mm)	L1 (mm)	L2 (mm)	M (mm)	S1 (mm)	S2 (mm)	Max. flow rate (l/min)	WEIGHT (g)	
RPXN14	N1/4"	70.5	58.0	9.0	153.5	100.0	44.0	36.0	99.1	1950	1400	1
RPXN38	N3/8"	70.5	58.0	9.0	153.5	100.0	44.0	36.0	99.1	2250	1400	1
RPXN12	N1/2"	70.5	58.0	9.0	153.5	100.0	44.0	36.0	99.1	2520	1400	1

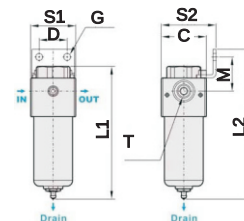


Filter with thread BSPP

FTX



CODE	T	C (mm)	D (mm)	ØG (mm)	L1 (mm)	L2 (mm)	M (mm)	S1 (mm)	S2 (mm)	Max. flow rate (l/min)	WEIGHT (g)	
FTXG14	G1/4"	58.0	36.0	9.0	171.2	194.2	44.0	58.0	70.5	2440	1650	1
FTXG38	G3/8"	58.0	36.0	9.0	171.2	194.2	44.0	58.0	70.5	2450	1650	1
FTXG12	G1/2"	58.0	36.0	9.0	171.2	194.2	44.0	58.0	70.5	3030	1650	1

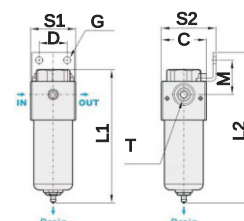


Filter with thread NPT

FTX-N



CODE	T	C (mm)	D (mm)	ØG (mm)	L1 (mm)	L2 (mm)	M (mm)	S1 (mm)	S2 (mm)	Max. flow rate (l/min)	WEIGHT (g)	
FTXN14	N1/4"	58.0	36.0	9.0	171.2	194.2	44.0	58.0	70.5	2440	1650	1
FTXN38	N3/8"	58.0	36.0	9.0	171.2	194.2	44.0	58.0	70.5	2450	1650	1
FTXN12	N1/2"	58.0	36.0	9.0	171.2	194.2	44.0	58.0	70.5	3030	1650	1

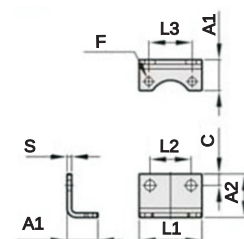


Universal mounting bracket for F.R.L.

STUX



CODE	A1 (mm)	A2 (mm)	C (mm)	ØF (mm)	L1 (mm)	L2 (mm)	L3 (mm)	S (mm)	WEIGHT (g)	
STUX00	27,0	28,0	10,0	9,0	55,0	36,0	38,0	4,0	...	1

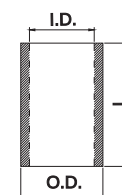


Filtration element for FTX and FTCX "large flow"

EFTX



CODE	O.D. (mm)	I.D. (mm)	L (mm)	WEIGHT (g)	
EFTX005	28,0	22,5	40,0	...	1
EFTX040	28,0	22,5	40,0	...	1



F.R.L. COMBINATIONS - LARGE FLOW

AISI 316

Technical specifications

For high pressure use, corrosion and chemical resistance.
 Good performance in chemically working environments and outdoor facility.
 Suitable for semi-conductor industry.
 Large flow rate.
 Accurate and sensitive pressure setting.
 Lubricator oil can be replenished without stopping air supply.
 Oil spray in mist ensures god lubrication for machines.

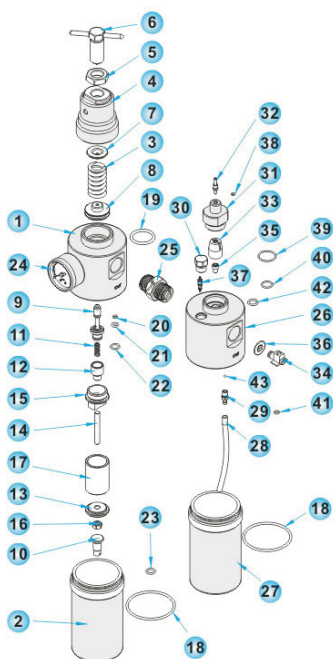
Model designation

FTRP	-	LBC	C	X	N	34								
↓		↓	↓	↓	↓	↓								
Filter regulator		Lubricator	Large Flow	SUS316 Stainless steel	Thread	Port size								
					<table><tr><td>G</td><td>BSPP</td></tr><tr><td>N</td><td>NPT</td></tr></table>	G	BSPP	N	NPT	<table><tr><td>34</td><td>3/4"</td></tr><tr><td>1</td><td>1"</td></tr></table>	34	3/4"	1	1"
G	BSPP													
N	NPT													
34	3/4"													
1	1"													



Specifications

MODEL	FTRP-LBCXG34 FTRP-LBCXN34	FTRP-LBCXG1 FTRP-LBCXN1
Port size	3/4"	1"
Fluid	Compressed air	
Regulator construction	Piston	
Body material	Stainless steel SUS 316	
Bowl material	Stainless steel SUS 316	
Pressure gauge material	Case: Stainless steel SUS 304, Thread: Stainless steel SUS 316	
Filtration/Element material	5μm (Standard) Stainless steel SUS 316	
Operating pressure range	0.5 ~ 30 kgf/cm ²	
Max. inlet pressure	60 kgf/cm ²	
Max. flow rate l/min (6kgf/cm ²)	7250	7600
Ambient temperature	-10°C + 60°C	
Lubricator oil (Racommended)	ISO-VG32	
Nipple size and material	1/2"SUS316	
Filter bowl capacity	200cc	
Lubricator bowl capacity	220cc	
Standard drain	Manual drain	
Net weight	5500g	
Accessories	Pressure gauge, Mounting bracket	



N.	Description	Material	N.	Description	Material
1	Filter Regulator body	SUS316	23	O-ring	VITON
2	Filter bowl	SUS316	24	Pressure gauge	Stainless Steel
3	Pressure regulating spring	SUS304	25	Nipple	Stainless Steel
4	Stainless steel regulator base	SUS316	26	Lubricator body	SUS316
5	Nut	SUS316	27	Lubricator bowl	SUS316
6	Pressure regulating screw	SUS316	28	Oil pipe	PU
7	Disc Gasket	SUS316	29	Oil pipe fitting	SUS316
8	Piston	SUS316	30	Oil filling plug	SUS316
9	Pressure regulating needle	SUS316	31	Oil adjusting knob	SUS316
10	Manual drain	SUS316	32	Oil adjusting screw	SUS316
11	Spring	SUS304	33	Oil dropping orifice	SUS316
12	Needle holder	SUS316	34	Oil spraying orifice	SUS316
13	Plate	SUS316	35	Screw	SUS316
14	Bolt	SUS316	36	Damper	VITON
15	Spring holderNut	SUS316	37	Check valve	Stainless Steel
16	Nut	SUS316	38	O-ring	VITON
17	Filter element	SUS316	39	O-ring	VITON
18	O-ring	VITON	40	O-ring	VITON
19	O-ring	VITON	41	O-ring	VITON
20	O-ring	VITON	42	O-ring	VITON
21	O-ring	VITON	43	Steel ball 3mm	SUS316
22	O-ring	VITON			

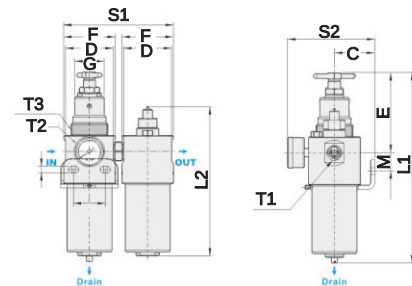
products in conformity with the directive 2002/95/EC **RoHS**

drawings and technical data are not binding

Filter regulator + Lubrificator with thread BSPP

FTRP-LBCX

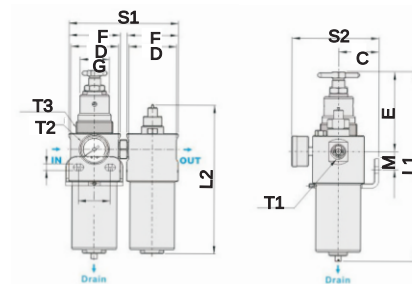
CODE	T1	T2	T3	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	L1 (mm)	L2 (mm)	M (mm)	O (mm)	S1 (mm)	S2 (mm)	
FTRP-LBCXG34	G3/4"	1/4	M50x1.5	55.0	65.0	109.0	70.0	48.0	43.0	258.0	202.0	24.5	9.0	149.0	118.6	1
FTRP-LBCXG1	G1"	1/4	M50x1.5	55.0	65.0	109.0	70.0	48.0	43.0	258.0	202.0	24.5	9.0	149.0	118.6	1



Filter regulator + Lubrificator with thread NPT

FTRP-LBCX-N

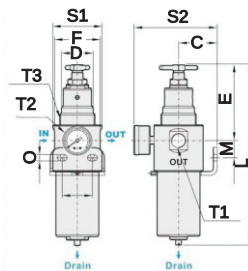
CODE	T1	T2	T3	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	L1 (mm)	L2 (mm)	M (mm)	O (mm)	S1 (mm)	S2 (mm)	
FTRP-LBCXN34	N3/4"	1/4	M50x1.5	55.0	65.0	109.0	70.0	48.0	43.0	258.0	202.0	24.5	9.0	149.0	118.6	1
FTRP-LBCXN1	N1"	1/4	M50x1.5	55.0	65.0	109.0	70.0	48.0	43.0	258.0	202.0	24.5	9.0	149.0	118.6	1



Filter regulator with thread BSPP

FTRPCX

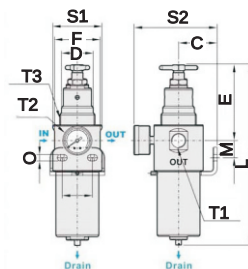
CODE	T1	T2	T3	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	L (mm)	M (mm)	O (mm)	S1 (mm)	S2 (mm)	Max. flow rate l/min	WEIGHT g	
FTRPCXG34	G3/4"	1/4	M50x1.5	55.0	48.0	109.0	65.0	43.0	258.0	24.5	9.0	70.0	118.6	7250	3000	1
FTRPCXG1	G1"	1/4	M50x1.5	55.0	48.0	109.0	65.0	43.0	258.0	24.5	9.0	70.0	118.6	7650	3000	1



Filter regulator with thread NPT

FTRPCX-N

CODE	T1	T2	T3	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	L (mm)	M (mm)	O (mm)	S1 (mm)	S2 (mm)	Max. flow rate l/min	WEIGHT g	
FTRPCXN34	N3/4"	1/4	M50x1.5	55.0	48.0	109.0	65.0	43.0	258.0	24.5	9.0	70.0	118.6	7250	3000	1
FTRPCXN1	N1"	1/4	M50x1.5	55.0	48.0	109.0	65.0	43.0	258.0	24.5	9.0	70.0	118.6	7650	3000	1

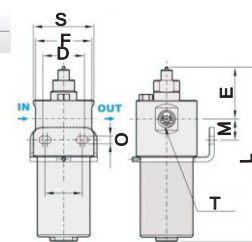


Lubrificatore with thread BSPP

LBCX



CODE	T	D (mm)	E (mm)	F (mm)	H (mm)	L (mm)	M (mm)	O (mm)	S (mm)	Max. flow rate l/min	WEIGHT g	
LBCXG34	G3/4"	48.0	60.0	65.0	43.0	202.0	24.5	9.0	70.0	7250	2500	1
LBCXG1	G1"	48.0	60.0	65.0	43.0	202.0	24.5	9.0	70.0	7650	2500	1

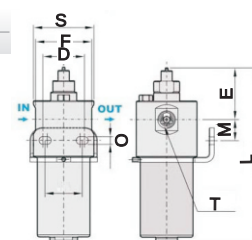


Lubrificatore with thread NPT

LBCX-N



CODE	T	D (mm)	E (mm)	F (mm)	H (mm)	L (mm)	M (mm)	O (mm)	S (mm)	Max. flow rate l/min	WEIGHT g	
LBCXN34	N3/4"	48.0	60.0	65.0	43.0	202.0	24.5	9.0	70.0	7250	2500	1
LBCXN1	N1"	48.0	60.0	65.0	43.0	202.0	24.5	9.0	70.0	7650	2500	1



Regolatore with thread BSPP

RPCX



CODE	T	ØS (mm)	L (mm)	
RPCXG34	G3/4"	.	.	1
RPCXG1	G1"	75,0	165,0	1

Regolatore with thread NPT

RPCX-N



CODE	T	ØS (mm)	L (mm)	
RPCXN34	N3/4"	.	.	1
RPCXN1	N1"	75,0	165,0	1

Filter with thread BSPP

FTCX

CODE	T	C (mm)	D (mm)	□G (mm)	L1 (mm)	L2 (mm)	M (mm)	S1 (mm)	S2 (mm)	Max. flow rate (l/min)	WEIGHT (g)	
FTCXG34	G3/4"	.	.	.	.	.	.	.	.	.	.	1
FTCXG1	G1"	.	.	.	.	.	.	.	.	.	.	1

Filter with thread NPT

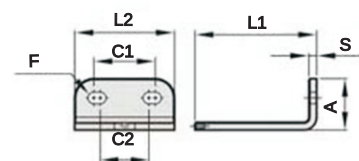
FTCX-N

CODE	T	C (mm)	D (mm)	□G (mm)	L1 (mm)	L2 (mm)	M (mm)	S1 (mm)	S2 (mm)	Max. flow rate (l/min)	WEIGHT (g)	
FTCXN34	N3/4"	.	.	.	.	.	.	.	.	.	.	1
FTCXN1	N1"	.	.	.	.	.	.	.	.	.	.	1

Universal mounting bracket for F.R.L.

STUCX

CODE	A (mm)	C1 (mm)	C2 (mm)	□F (mm)	L1 (mm)	L2 (mm)	S (mm)	WEIGHT (g)	
STUCX00	40,0	48,0	38,0	R 4,5	95,0	78,0	6,0	...	1



Filtration element for FTX and FTCX "large flow"

EFTX

CODE	O.D. (mm)	I.D. (mm)	L (mm)	WEIGHT (g)	
EFTX005	28,0	22,5	40,0	...	1
EFTX040	28,0	22,5	40,0	...	1

