

TC | Service Units - Filter Regulator + Lubricator

Catalog editions differ: confirm supplied-unit pressure limit and dimensions.

TC Series treatment Dyad—Basic

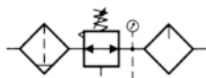
● Character

It is in standard modular design and can be separated and combined freely. With reasonable design, easy use, it can meet different requirements in pneumatic systems.

● Ordering Code

TC	2010	02	U
Series	Type	Pipe Size	Iron Shell
	1010	M5	No Mark ;
	2010	01 : G1/8	2010 No Iron Shell
	3010	02 : G1/4	3010 ~ 5010 With Iron Shell
	4010	03 : G3/8	U; 2010 With Iron Shell
	5010	04 : G1/2	
		06 : G3/4	
		10 : G1	

■ Graphics Sign

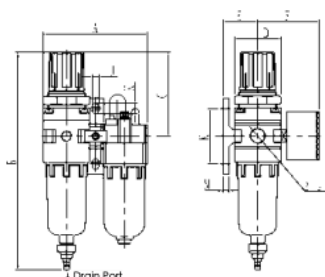


■ Technical Parameter

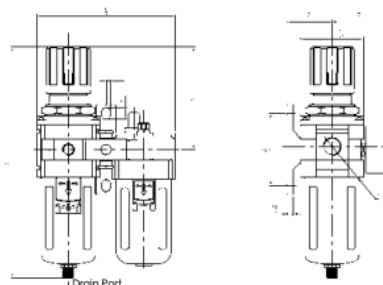
Specification	TC1010—M5	TC2010—02/01	TC3010—03/02	TC4010—04/03	TC4010—06	TC5010—10/06	
Applicable Medium	Air						
Rating Flow(L/min)	90	500	1700	3000	3000	4000	
Filtration	5 μm ~ 40 μm						
Applicable Pressure Range	0.05 ~ 0.7MPa	0.05 ~ 1MPa					
Medium Temperature	0 ~ 60℃						
Recommended Lubricating Oil	ISOVG32 or Equivalent						
Type of Valve	Relief Type						
Gauge Port Size	G1/16	G1/8			G1/4		
Components	Filter Regulator	TW1000—M5	TW2000—02/01	TW3000—03/02	TW4000—04/03	TW4000—06	TW5000—10/06
	Air Lubricator	TL1000—M5	TL2000—02/01	TL3000—03/02	TL4000—04/03	TL4000—06	TL5000—10/06

■ Figure Dimension

● TC1010-M5
TC2010-02/01



● TC3010-03/02 TC4010-04/03
TC4010-06 TC5010-10/06



Type	A	B	C	D	E	F	G	H	K	J	M
TC1010-M5	58	115	50	25	25	26	M5	40	7.5	4.5	5
TC2010-02/01	90	188	72.5	40	30	53	G1/4	48	9	5.5	6
TC3010-03/02	117	216	89	53	41	56	G3/8	70	13	7	7
TC4010-04/03	154	256	114	70	50	62	G1/2	80	11	9	7
TC4010-06	164	256	114	70	54	62	G3/4	80	13	10	7
TC5010-10/06	195	337	118	90	74.5	72	G1	103	17	13	10

TR | Air Pressure Regulators



● TR1000-M5



● TR2000-02



● TR3000-03



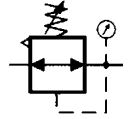
● TR4000-04

● Air Regulator

It adopts balanced inlet with relief device. It has the advantages of stable pressure, high precision, quick reaction and firm lockup. It can be freely combined with other air-source treatment products.

● Ordering Code

■ Graphics Sign



TR

Series

2000

Type
1000
2000
3000
4000
5000

02

Pipe size
M5
01 : G1/8
02 : G1/4
03 : G3/8
04 : G1/2
06 : G3/4
10 : G1

■ Technical Parameter

Specification	TR1000—M5	TR2000—02/01	TR3000—03/02	TR4000—04/03	TR4000—06	TR5000—10/06
Applicable Medium	Air					
Rating Flow(L/min)	100	550	2500	6000	6000	8000
Applicable Pressure Range	0.05 ~ 0.7MPa	0.05 ~ 1MPa				
Medium Temperature	0 ~ 60℃					
Type of Valve	Relief Type					
Gauge Port Size	G1/16	G1/8		G1/4		

■ Figure Dimension

● TR1000-M5

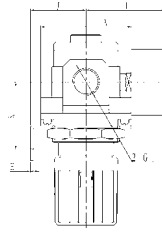
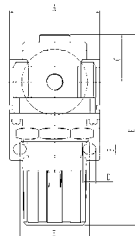
TR2000-02/01

TR3000-03/02

TR4000-04/03

TR4000-06

TR5000-10/06



Machinability Hole In Panel



TR2000-3000:Max Thickness 3.5
TR1000 5000:Max Thickness 5

Type	A	B	C	D	E	F	G	H	I	J	K	P
TR1000-M5	25	61	11	6.5	28	4.5	M5	2	26	25	30	20.5
TR2000-02/01	40	91	17	15	34	5.5	G1/4	2.3	50	30	45	33.5
TR3000-03/02	53	122	35	8	40	6.5	G3/8	2.3	56	48	46	42.5
TR4000-04/03	70	148	37	10.5	54	8.5	G1/2	2.3	61	43	52	51
TR4000-06	76	182	37	10.5	54	8.5	G3/4	2.3	70	43	52	51
TR5000-10/06	90	165	45	11	54	11	G1	3.2	71.5	43	50	51

TW | Filter Regulators - Automatic Drain

Catalog editions differ: confirm supplied-unit pressure limit and dimensions.

TW Series Filter Regulator—Automatic drain type



● TW2000—02D ● TW3000—03D ● TW4000—04D

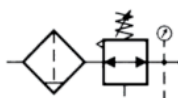
Character

Standard auto drain design, compact structure, convenient assembling. It can clear the water in cup without manually

Ordering Code

TW	2000	02	D
Series	Type 2000 3000 4000 5000	Pipe size 01 : G1/8 02 : G1/4 03 : G3/8 04 : G1/2 06 : G3/4 10 : G1	D : Automatic drain type

Graphics Sign

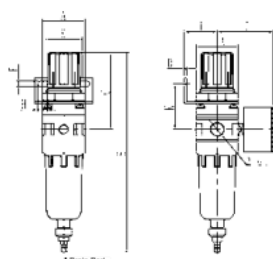


Technical Parameter

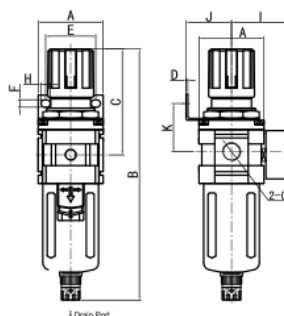
Specification	TW2000—02D/01D	TW3000—03D/02D	TW4000—04D/03D	TW4000—06D	TW5000—10D/06D
Applicable Medium	Air				
Rating Flow (L/min)	550	2000	4000	4000	5000
Filtration	5 μm ~ 40 μm				
Applicable Pressure Range	0.15 ~ 1MPa				
Medium Temperature	0 ~ 60°C				
Type of Valve	Relief Type				
Gauge Port Size	G1/8		G1/4		

Figure Dimension

● TW2000—02D/01D



● TW3000—03D/02D TW4000—04D/03D
TW4000—06D



1-4, 5 (K) : (a) (H) Max Thickness 3.5
1-6 (C) (D) : (a) (H) Max Thickness 5

Type	A	B	C	D	E	F	G	H	I	J	K	N
TW2000—02D/01D	40	205	72.5	2.0	34	5.5	G1/4	15	53	31	43	41.5
TW3000—03D/02D	53	241	89	2.0	54	6.5	G3/8	8	56	48	50	42.5
TW4000—04D/03D	70	292	114	2.0	54	8.5	G1/2	10.5	62	50	52	52.5
TW4000—06D	75	292	114	2.0	54	8.5	G3/4	10.5	62	50	52	52.5
TW5000—10D/06D	90	370	118	3.0	54	8.5	G1	11	78	60	60	52.5

TF Series Filter-Basic



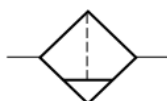
● TF2000-02 ● TF2000-02U ● TF4000-04

It is mainly used for cleaning and effectively eliminates various impurities in the compressed air from compressors with automatic discharge structure, long service life, higher safety. There are multiple specifications for your choice.

● Ordering Code

TF	2000	02	U
Series	Type	Pipe size	Iron Shell
	1000	M5	No Mark ;
	2000	01 : G1/8	2000 No Iron Shell
	3000	02 : G1/4	3000 ~ 5000 With Iron Shell
	4000	03 : G3/8	U:2000 With Iron Shell
	5000	04 : G1/2	
		06 : G3/4	
		10 : G1	

■ Graphics Sign

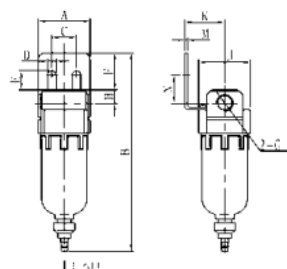


■ Technical Parameter

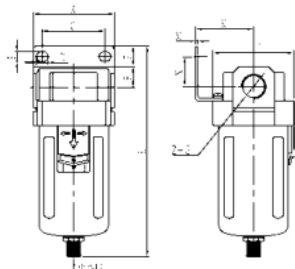
Specification	TF1000-M5	TF2000-02/01	TF3000-03/02	TF4000-04/03	TF4000-06	TF5000-10/06
Applicable Medium	Air					
Rating Flow(L/min)	110	750	1500	4000	6000	7000
Filtration	5 μm ~ 40 μm					
Applicable Pressure Range	0.05~1.0MPa					
Medium Temperature	0 ~ 60°C					
Drain Holding Capacity	4cm ³	15cm ³	20cm ³	45cm ³		130cm ³

■ Figure Dimension

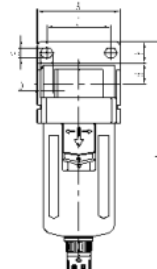
● TF1000-M5
TF2000-02/01



● TF3000-03/02 TF4000-04/03
TF4000-06 TF4000-10/06



● TF3000-03D/02D TF4000-04D/03D
TF4000-06D TF4000-10D06D



Type	A	B	C	D	E	F	G	H	J	K	M	N
TF1000-M5	25	73	28	6.5	4.5	10	M5	7	27	25	2	14
TF2000-02/01	40	154	19	6.5	16.5	28	G1/4	11	40	30	2.3	22
TF3000-03/02	53	146	40	8	6.5	17	G3/8	14	53	41	2.3	23
TF4000-04/03	70	182	54	10	8.5	18	G1/2	18	70	50	2.3	26
TF4000-06	70	182	54	10	8.5	18	G3/4	18	70	50	2.3	30
TF5000-10/06	90	244	66	13	11	23	G1	22	90	65	3.2	38

TF Series Filter—Automatic drain type



● TF2000—02D ● TF3000—03D ● TF4000—04D

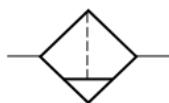
● Character

Standard auto drain design, compact structure, convenient assembling. It can clear the water in cup without manually

● Ordering Code

TF	2000	02	D
Series	Type 2000 3000 4000 5000	Pipe size 01 : G1/8 02 : G1/4 03 : G3/8 04 : G1/2 06 : G3/4 10 : G1	D : Automatic drain type

■ Graphics Sign

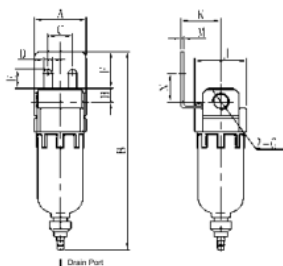


■ Technical Parameter

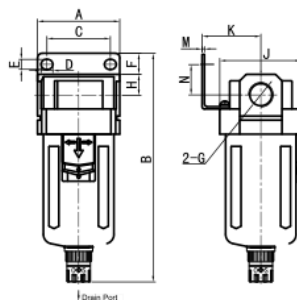
Specification	TF2000—02D/01D	TF3000—03D/02D	TF4000—04D/03D	TF4000—06D	TF5000—10D/06D
Applicable Medium	Air				
Rating Flow(L/min)	750	1500	4000	6000	7000
Filtration	5 μm ~ 40 μm				
Applicable Pressure Range	0.15 ~ 1MPa				
Medium Temperature	0 ~ 60°C				
Drain Holding Capacity	15cm ³	20cm ³	45cm ³		130cm ³

■ Figure Dimension

● TF2000—02/01



● TF3000—03D/02D TF4000—04D/03D
TF4000—06D TF4000—10D06D



Type	A	B	C	D	E	F	G	H	J	K	M	N
TF2000—02D/01D	40	170	19	6.5	16.5	28	G1/4	11	40	30	2.3	22
TF3000—03D/02D	53	166	40	8	6.5	17	G3/8	14	53	41	2.3	23
TF4000—04D/03D	70	206	54	10	8.5	18	G1/2	18	70	50	2.3	26
TF4000—06D	70	206	54	10	8.5	18	G3/4	18	70	50	2.3	30
TF5000—10D/06D	90	280	66	13	11	23	G1	22	90	65	3.2	38

TL Series Air Lubricator



● TL2000-02 ● TL2000-02U ● TL4000-04

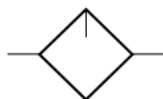
● Air Lubricator

It adopts balanced inlet with relief device. With the advantages of stable pressure, high precision, quick reaction and firm lockup, can be freely combined with other air-source treatment products.

● Ordering Code

TL	2000	02	U
Series	Type	Pipe size	Iron Shell
	1000	M5	No Mark ;
	2000	01 : G1/8	2000 No Iron Shell
	3000	02 : G1/4	3000 ~ 5000 With Iron Shell
	4000	03 : G3/8	U; 2000 With Iron Shell
	5000	04 : G1/2	
		06 : G3/4	
		10 : G1	

■ Graphics Sign

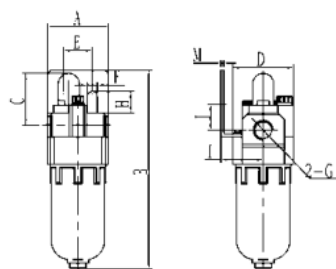


■ Technical Parameter

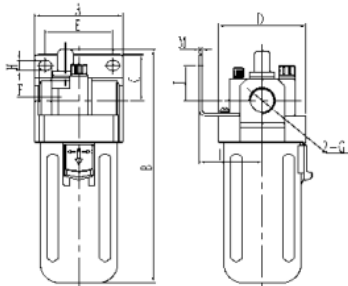
Specification	TL1000-M5	TL2000-02/01	TL3000-03/02	TL4000-04/03	TL4000-06	TL5000-10/06
Applicable Medium	Air					
Rating Flow(L/min)	95	800	1700	5000	6300	7000
Work Pressure	0.05 ~ 1MPa					
Medium Temperature	0 ~ 60°C					
Recommended Lubricating Oil	ISOVG32 or Equivalent					
Min. Flow For Oil Drip	4L/min	15L/min	30L/min	50L/min	50L/min	190L/min
Lubricating Oil Capacity	4cm ³	25cm ³	50cm ³	130cm ³		

■ Figure Dimension

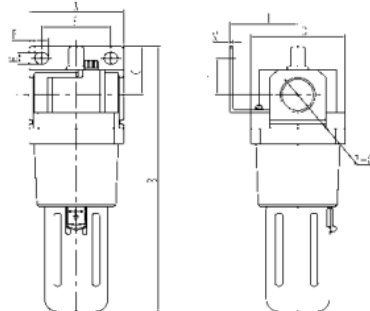
● TL1000-M5
TL2000-02/01



● TL3000-03/02 TL4000-04/03
TL4000-06



● TL5000-10/06

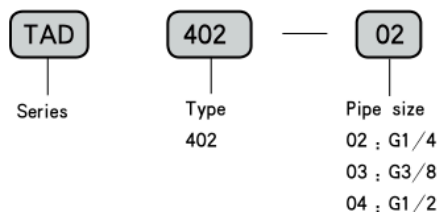


Type	A	B	C	D	E	F	G	H	I	J	M
TL1000-M5	25	87	14	27	28	6.5	M5	4.5	25	14	2
TL2000-02/01	40	131	34	40	19	6.5	G1/4	16	40	17	2.3
TL3000-03/02	53	146	30	53	40	8	G3/8	6.5	56	23	2.3
TL4000-04/03	70	180	37	70	54	10.5	G1/2	8.5	50	26	2.3
TL4000-06	76	199	37	70	54	10.5	G3/4	8.5	50	26	2.3
TL5000-10/06	90	254	46	90	66	13	G1	11	65	35	3.2

Auto Drain Valve



● Ordering Code



- TAD402-02
- TAD402-03
- TAD402-04

● Applications

The special design of the TAD Series can eliminate the liquid water and oil collect in the lower chamber of air compressor, separator, air dryer, air filter, drop leg, etc. It can be installed in any position which is not convenient for manual drain, or needs more compressed air and more time of drain.

■ Technical Parameter

Specification	TAD402-02	TAD402-03	TAD402-04
Proof Pressure	1.5MPa		
Applicable Pressure	0.15 ~ 1.0MPa		
Medium Temperature	0 ~ 60°C		
Outfall Size	G1/8	G1/4	G3/8
Applicable Medium	Air		

■ Graphics Sign



■ Operation Principle

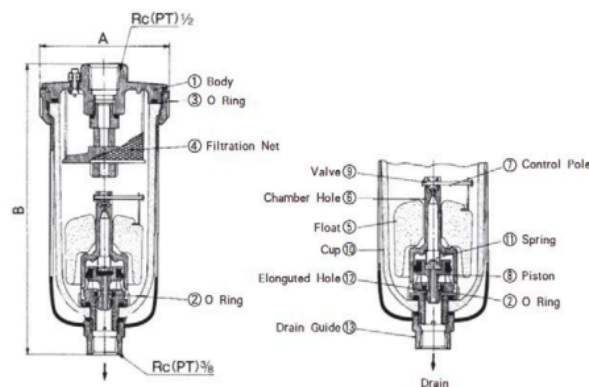
When no pressure is applied internally to case, float ⑤ descends of its own weight and valve ③ closes chamber hole ⑥. Piston ⑧ is pushed down by spring ⑪, and the drainage passes through the chamber's elongated hole ⑫ to be discharged.

When pressure is applied internally to the case:

When pressure is greater than 0.1MPa, it overcomes the force of spring ⑪, allowing piston ⑧ to ascend, and the chamber's elongated hole is closed. Thus, the inside of case is isolated from the outside. When drainage has accumulated:

Float ⑤ ascends due to flotation and opens the chamber hole ⑥, allowing the pressure to enter the chamber hole ⑥. Piston ⑧ descends due to the force of the internal pressure and spring ⑪, and the accumulated drainage is discharged through drain guide ⑬.

■ Figure Dimension



Type	TAD402-02	TAD402-03	TAD402-04
A	φ 82	φ 82	φ 82
B	182	182	182

■ ZDFS Auto Drain Valve

It is installed in the bottom of auto drain, air filter and filter regulator. It can automatically eliminate condensate collect in lower chamber. Notice: Installed vertically and outfall downward.



● TAD-ZDFS



● TF-ZDFS