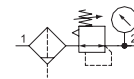


- High flow with a wide range of adjustable output pressure ranges
- Optional low profile integrated gauge, round gauge, digital gauge or digital pressure switch
- Optional extended temperature range of -40°C to +80°C
- Threaded ports allow for individual or modular mounting
- Sintered polyethylene elements include 5 and 25 Microns
- Innovative two position plastic drain with manual and semi-automatic functions. Additional drains include an automatic style (brass) and manual (stainless steel)
- Polycarbonate and Aluminium bowls with or without glass gauge, to meet industry all application requirements
- Key lockable and tamper resistant models
- Air Purity Class according to ISO 8573-1: 2010



Performance Data						
Series		651	652	653		
Port sizes		1/8, 1/4	1/4, 3/8, 1/2	3/4, 1		
Thread type		G (NPTF in option)				
Nominal flow - ISO 6358  P1 = 10 bar Setpoint P2 = 6,3 bar ΔP = 1 bar	1/8	Micron Rating	l/min (ANR)	l/min (ANR)		
		5 μm	710	-	-	
	1/4	25 μm	730	-	-	
		5 μm	2240	3800	-	
	3/8	25 μm	2360	4120	-	
		5 μm	-	4450	-	
	1/2	25 μm	-	5420	-	
		5 μm	-	4490	-	
	3/4	25 μm	-	5500	-	
		5 μm	-	-	8900	
	1	25 μm	-	-	9000	
		5 μm	-	-	10000	
	Maximum inlet pressure (bar)		Polycarbonate bowl	16		12
			Aluminium bowl	16		20
Adjustable pressure ranges (bar)		0,2 to 3				
		0,5 to 10				
		-	-	0,5 to 16 *		
Hysteresis (bar)		0,3	0,5	0,4		
Ambient temperature range (°C)		-20 to +50				
Fluid temperature range (°C)		-20 to +50				
Fluid		air or inert gas				
Weight (kg)		w/Polycarbonate bowl	0,304	0,546	1,315	
		w/Aluminium bowl	0,449	0,688	1,565/1,769 *	

\* High pressure assisted version.

Materials in contact with fluid	
Body	Aluminium
Seals	NBR/FPM
Springs	Stainless steel
Filter element	Sintered polyethylene
Bowl	Polycarbonate or aluminium
Poppet	Brass
Cover / Stem	PA (Polyamide)

Air Purity Class - ISO 8573-1: 2010	
5 μm	(5:8:4)
25 μm	(6:8:4)

## HOW TO ORDER

### Particulate Filter/Regulator

[Configurator - CAD Files](#)

**G 651 A P B P 2 G A00 H N**

**Thread connection**  
G = ISO 228/1-G <sup>(1)</sup>  
8 = NPTF

**Product series**  
651  
652  
653

**Revision letter**  
A

**Product type**  
P = Filter/Regulator - Particulate

**Elements**  
B = 5 µm (White)  
J = 25 µm (Yellow)

**Bowl type**  
K = Metal bowl without sight gauge  
L = Metal bowl with sight gauge (glass)  
P = Polycarbonate bowl with bowl guard

**Port size**  
1 = 1/8 (651 Series)  
2 = 1/4 (651 or 652 Series)  
3 = 3/8 (652 Series)  
4 = 1/2 (652 Series)  
5 = 3/4 (653 Series)  
6 = 1 (653 Series)

**Gauge type**  
B = Digital pressure switch - PNP  
C = Digital pressure switch - NPN  
D = Digital gauge  
G = Low profile integrated gauge bar/PSI  
J = Low profile integrated gauge bar/PSI with pressure range indicators  
Q = Round gauge bar/PSI  
0 = No gauge port  
P = Port Plate Rc 1/8

**Drain type**  
0 = Without  
A = Auto drain normally open  
N = Manual/Semi-automatic drain  
Q = Manual drain - Stainless steel

**Pressure range**  
D = 0,2..3 bar  
H = 0,5..10 bar  
N = 0,5..16 bar (653 only) <sup>(2)</sup>

**Options <sup>(3)</sup>**  
A00 = Without option  
101 = Side Mounting Brackets  
102 = Panel Nut (651 or 652)  
103 = Tamper resistant  
104 = Key lockable  
105 = High temperature (+80°C)  
106 = Low temperature (-40°C) <sup>(4)</sup>  
109 = FPM seals  
113 = Stainless steel fasteners  
114 = Provision for key lock  
117 = ATEX zones 1-21 <sup>(4)</sup>  
119 = Panel Bracket with Panel Nut (651 or 652)  
121 = Non-relieving  
123 = Gauge type mounted for right-to-left flow  
124 = CUTR Certification (EAC)  
125 = CUTR Ex  
202 = 105 + 109  
2A9 = 105 + 106

<sup>(1)</sup> Conforms to ISO standards 1179-1.

<sup>(2)</sup> Metal Bowl Types K or L only.

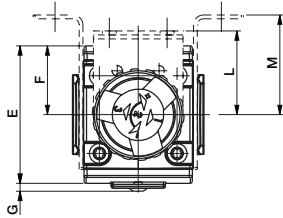
<sup>(3)</sup> If multiple options are required, please use the on-line CAD configurator on the website to generate the part number ([www.asco.com](http://www.asco.com)).

<sup>(4)</sup> Compressed air must be dry enough so no ice formation is present on the product. All bowls should be emptied prior to ambient temperatures dropping below 0°C.

Dimensions: mm

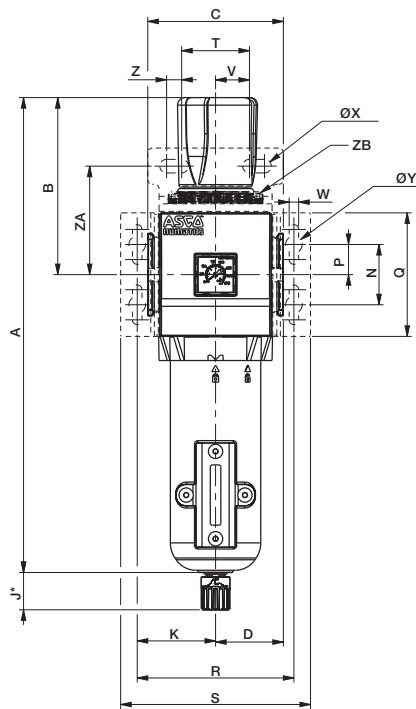
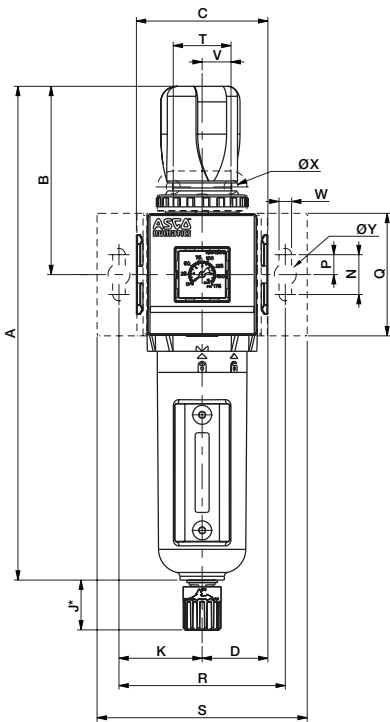
Dimensional Drawing - 651/652/653 Series Particulate Filter/Regulator

[Configurator - CAD Files](#)

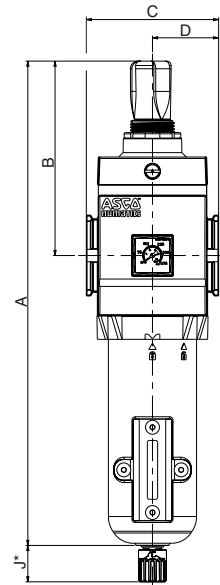


651/652 Series

653 Series



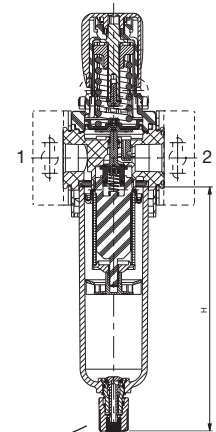
653 Series High Pressure  
(16 bar)



Series	A	B	C	D	E
653	329,5	132	90	45	93,6

Series	F	G	H	J*
653	46,2	2,7	158,9	25

Cross Section -  
651/652/653 Series  
Particulate Filter/Regulator



To remove bowl allow:  
651 - 44 mm  
652 - 75 mm  
653 - 100 mm  
from the bottom  
of the bowl drain.

Series	A	B	C	D	E	F	G	H	J	K	L	M
651	215,5	77,5	50	25	58	29	3,4	116	25	35	42	44,5
652	248	94,5	66	33	69	30,5	4	160	25	41,75	42	50
653												

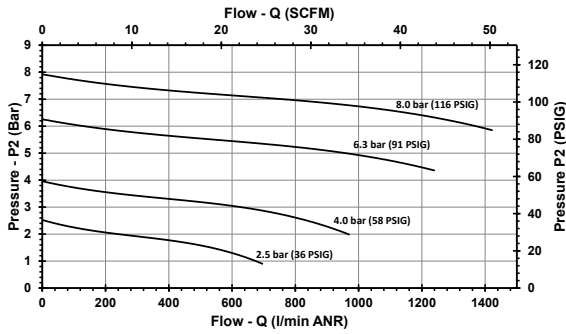
Series	M	N	P	Q	R	S	T	V	W	ØX	ØY
651	44,5	20	10	50	70	92	29	14,5	6,3	7	11
652	50	20	10	61,5	84	105,5	29	14,5	6,3	7	11

\* Variable dimension based on type of drain that is specified. If an Automatic Drain is specified, add another 5 mm to "J" dimension.

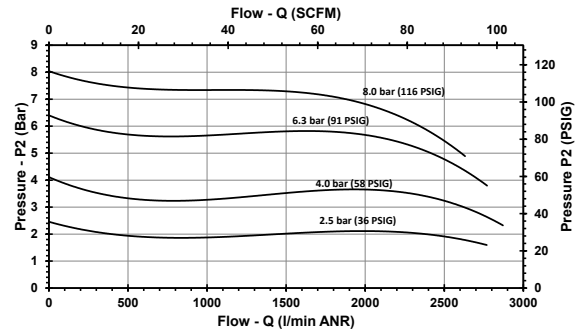
01805GB-2017/R02  
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## Particulate Filter/Regulator Flow Charts

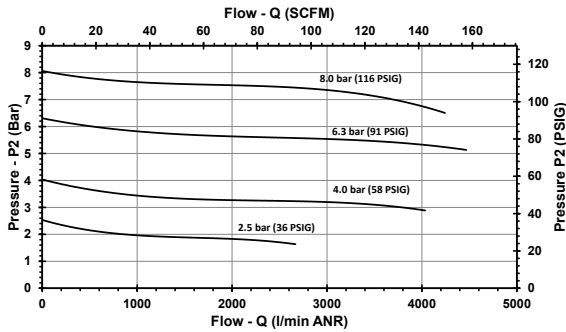
651 Filter-Regulator | 25µ Filtration | 1/8 Ports  
P1 = 10 Bar (145 PSIG)



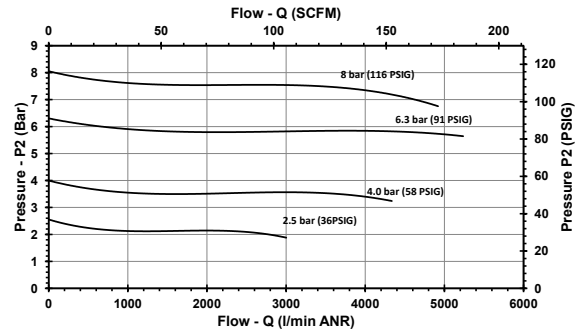
651 Filter-Regulator | 25µ Filtration | 1/4 Ports  
P1 = 10 Bar (145 PSIG)



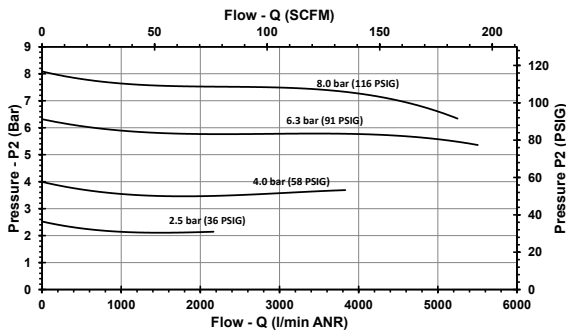
652 Filter-Regulator | 25µ Filtration | 1/4 Ports  
P1 = 10 Bar (145 PSIG)



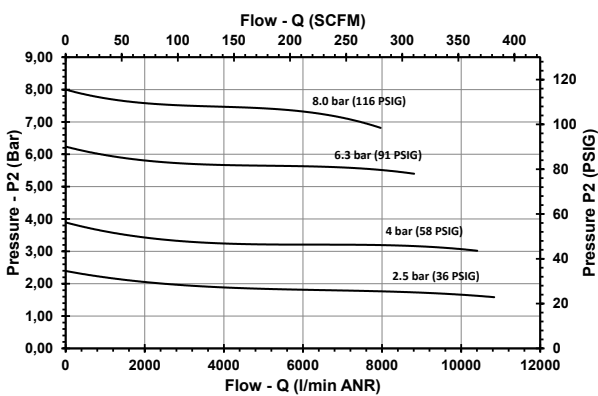
652 Filter-Regulator | 25µ Filtration | 3/8 Ports  
P1 = 10 Bar (145 PSIG)



652 Filter-Regulator | 25µ Filtration | 1/2 Ports  
P1 = 10 Bar (145 PSIG)



653 Filter-Regulator | 25µ Filtration | 3/4 Ports  
P1 = 10 Bar (145 PSIG)



653 Filter-Regulator | 25µ Filtration | 1" Ports  
P1 = 10 Bar (145 PSIG)

