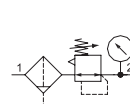


- High flow with a wide range of adjustable output pressure ranges
- Optional low profile integrated gauge, round gauge, digital gauge or digital pressure switch
- Optional extended temperature range of -40°C to +80°C
- Threaded ports allow for individual or modular mounting
- Sintered polyethylene elements 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		Micron Rating	l/min (ANR)	l/min (ANR)	
	1/8	5 µm	710	-	-
		25 µm	730	-	-
	1/4	5 µm	2240	3800	-
		25 µm	2360	4120	-
	3/8	5 µm	-	4450	-
		25 µm	-	5420	-
	1/2	5 µm	-	4490	-
		25 µm	-	5500	-
	3/4	5 µm	-	-	8900
		25 µm	-	-	9000
	1	5 µm	-	-	9000
25 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](#)

Thread connection
G = ISO 228/1-G ⁽¹⁾
8 = NPTF

Product series
651
652
653

Revision letter
A

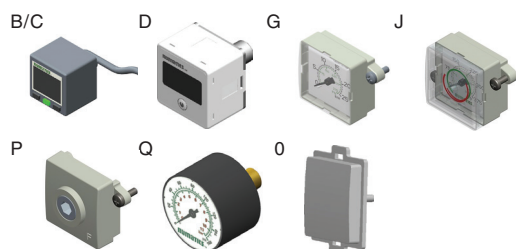
Product type
P = Filter/Regulator - Particulate

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) ⁽²⁾

Options ⁽³⁾

- 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) ⁽⁴⁾
- 109 = FPM seals
- 113 = Stainless steel fasteners
- 114 = Provision for key lock
- 117 = ATEX zones 1-21
- 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



⁽¹⁾ Conforms to ISO standards 1179-1.

⁽²⁾ Metal Bowl Types K or L only.

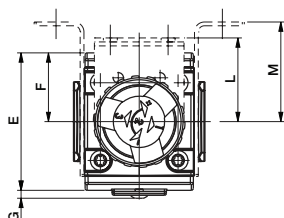
⁽³⁾ If multiple options are required, please use the on-line CAD configurator on the website to generate the part number (www.asco.com).

⁽⁴⁾ 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

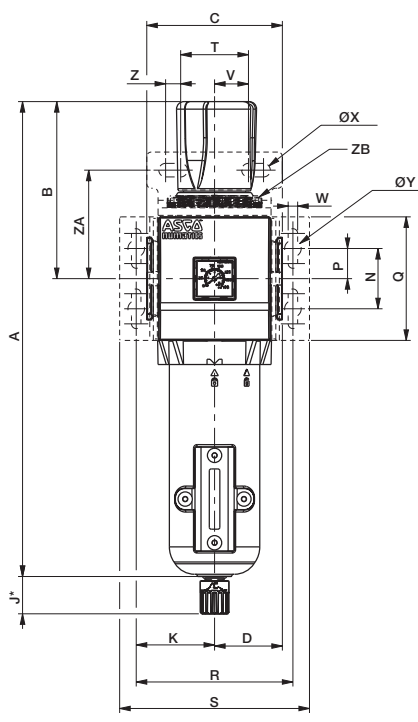
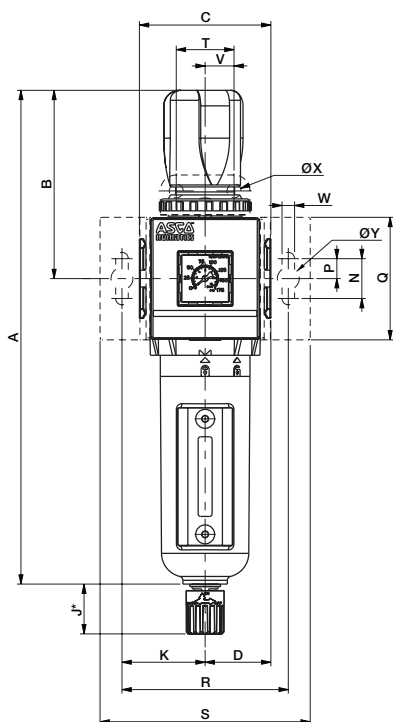
Dimensional Drawing - 651/652/653 Series Particulate Filter/Regulator

[Configurator - CAD Files](#)

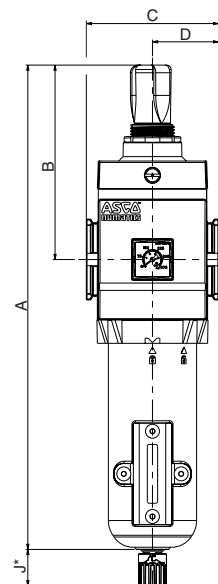


651/652 Series

653 Series



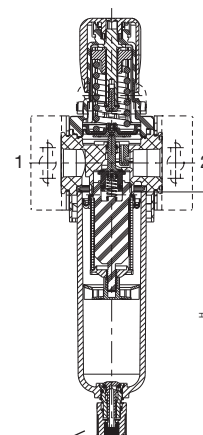
653 Series High Pressure
(16 bar)



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.

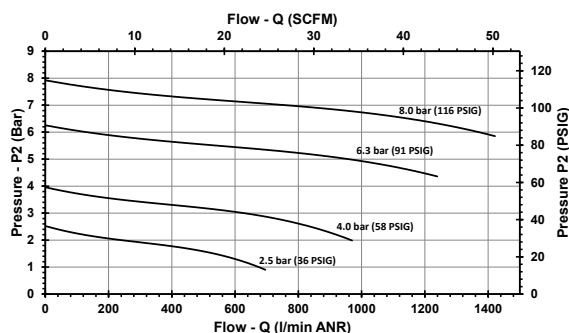
Series	A	B	C	D	E	F	G	H	J	K	L	M
651	215,5	77,5	50	25	58	29	3,4	116	25	35	42	44,5
652	248	94,5	66	33	69	30,5	4	160	25	41,75	42	50
653												

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

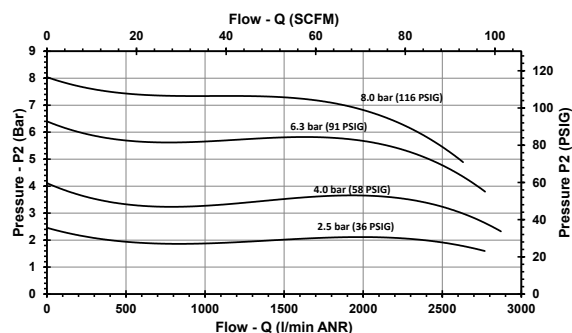
* Variable dimension based on type of drain that is specified. If an Automatic Drain is specified, add another 5 mm to "J" dimension.

Particulate Filter/Regulator Flow Charts

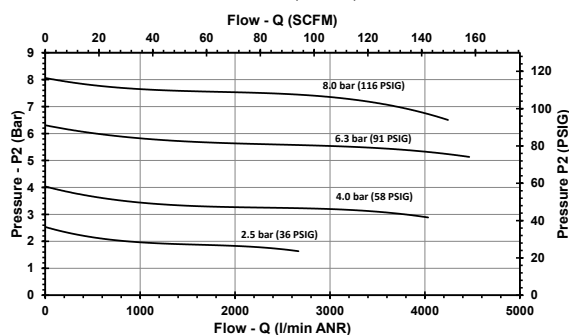
651 Filter-Regulator | 25 μ Filtration | 1/8 Ports
P1 = 10 Bar (145 PSIG)



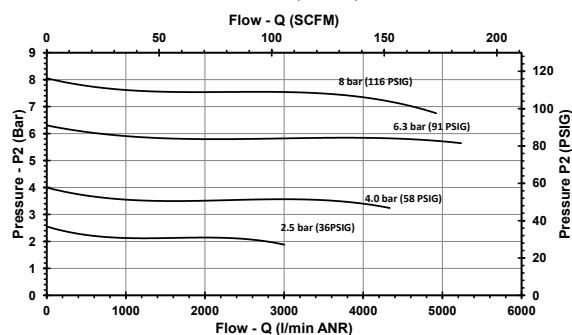
651 Filter-Regulator | 25 μ Filtration | 1/4 Ports
P1 = 10 Bar (145 PSIG)



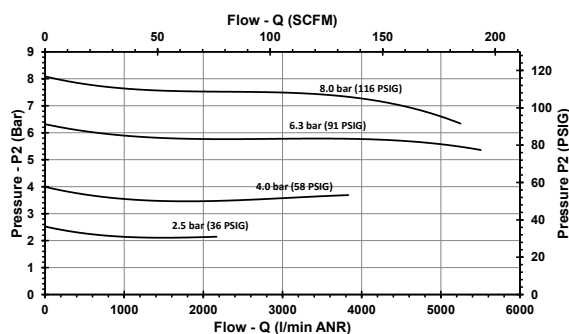
652 Filter-Regulator | 25 μ Filtration | 1/4 Ports
P1 = 10 Bar (145 PSIG)



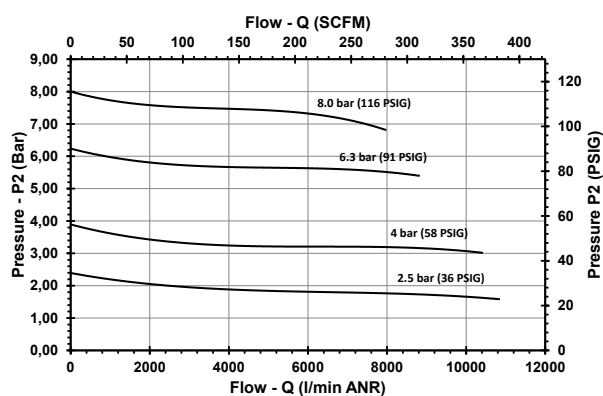
652 Filter-Regulator | 25 μ Filtration | 3/8 Ports
P1 = 10 Bar (145 PSIG)



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



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



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

