



WARREN MORRISON  
UK LTD



AIR FILTER REGULATOR

W-AFR SERIES

# Warren-Morrison Valves

Established in 1949 in the United Kingdom, Warren-Morrison UK Ltd. has been manufacturing its own unique range of industrial valves and actuators for over 55 years. Benefiting from our own internal rubber mould department, machine shop and development and test facilities, we maintain total control over production and quality through continuous 'in process inspection'. Our dedication towards future development has continued to ensure our market position as a select industrial valve and accessories manufacturer and supplier.

## Warren-Morrison Air Filter Regulator

Warren-Morrison Air filter regulator is an efficient design for general applications in compressed air systems where effective contamination filtration, liquid water removal and controlled pressure is required.

### Air Filter Regulator Features:

- Extremely precise control.
- Unique valve design.
- Large ratio of diaphragm to valve area affords highly sensitive performance.
- Specially designed to meet instrumentation requirements.

## General Specifications of WM Air Filter Regulator

### Overview

PARAMETERS	SPECIFICATIONS
Fluid	Compressed Air
Pipe size	1/4"
Port Thread	BSPT
	NPT, BSP
Max. Inlet Pressure	17.5 bar - Aluminium
	30 bar (435 psi) - Stainless Steel
Max. Operating Temp. (Ambient)	+80 <sup>0</sup> C
Filter Element Size	5 / 25 /40 micron
Filter Element Material	Sintered Bronz / Stainless Steel
Material of Construction(Aluminium)	
Body, Bonnet, Bowl	Aluminium Alloy die-cast
Internal parts	Aluminium,SS304,SS316L,Acetal resin,Nylon,brass
External parts	SS 316L
Material of Construction(SS316 cast)	
Body, Bonnet, Bowl	SS316L
Internal parts	SS316L
External parts	SS 316L
Diaphragm Assembly	Synthetic Rubber without PTFE - Standard
Elastomers	Nitrile (NBR) -20°C to +80°C
	EPDM -35°C to +120°C(Std)
	Fluorocarbon (Viton-FKM) -20°C to +180°C
	Fluorosilicone (FVMQ) -60°C to +160°C
Regulated secondary pressure ranges	0.07 to 0.70 bar
	0.21 to 2.10 bar
	0.35 to 3.50 bar
	0.50 to 5.0 bar
	0.70 to 7.0 bar
Drain	Manual
Type	Relieving
	Non-Relieving
Pressure Adjustment	Hex Head Adjusting screw
	T handle
Gauge Port	1/4" BSPT
	1/4" NPT
Gauge size	50 mm

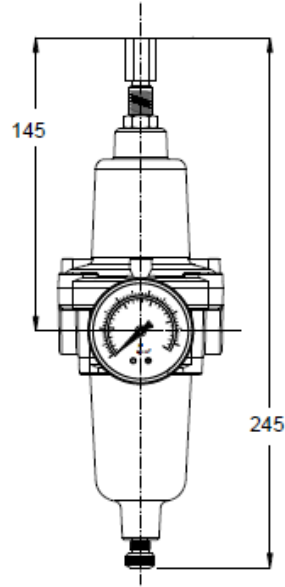
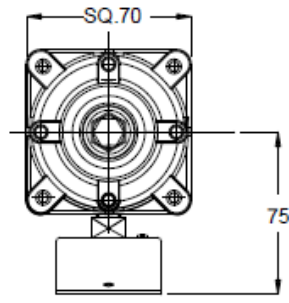
## Model Numbering System for WM Air Filter Regulator

# Model Numbering System

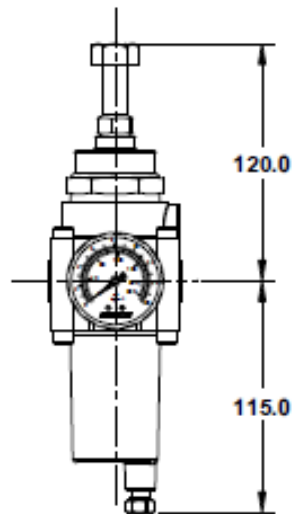
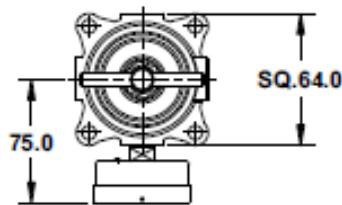
DESCRIPTION	CODE	SPECIFICATION			
Series	<b>W-AFR</b>	Air Filter Regulator			
Size	<b>2</b>	1/4"			
	<b>3</b>	3/8"			
	<b>4</b>	1/2"			
MOC	<b>A</b>	Aluminium			
	<b>S</b>	SS316			
Drain	<b>M</b>	Manual Drain			
Filter Element			Plastic	Sintered Bronze	SS
	5 Micron	<b>1</b>	<b>4</b>	<b>7</b>	
	25 Micron	<b>2</b>	<b>5</b>	<b>8</b>	
	40 Micron	<b>3</b>	<b>6</b>	<b>9</b>	
Pressure Range	<b>P</b>	0.07 - 0.7 bar			
	<b>Q</b>	0.21 - 2.1 bar			
	<b>R</b>	0.35 - 3.5 bar			
	<b>S</b>	0.50 - 5.0 bar			
	<b>T</b>	0.70 - 7.0 bar			
Tread Size		Main Ports		Gauge Ports	
	<b>N</b>	NPT		NPT	
	<b>B</b>	BSP		BSP	
	<b>X</b>	NPT		BSP	
	<b>Y</b>	BSP		NPT	
Elastomer Material	<b>N</b>	Nitrile			
	<b>E</b>	EPDM			
	<b>V</b>	Viton			
	<b>F</b>	Fluorosilicone			
Mounting Bracket	<b>N</b>	Without Mounting Bracket			
	<b>B</b>	With Mounting Bracket			
Options		Relieving		Non-Relieving	
		Screw Headed	T handle	Screw Headed	T handle
	No Gauge	<b>A0</b>	<b>B0</b>	<b>C0</b>	<b>D0</b>
	With Gauge (MS)	<b>A1</b>	<b>B1</b>	<b>C1</b>	<b>D1</b>
	With Gauge (SS)	<b>A2</b>	<b>B2</b>	<b>C2</b>	<b>D2</b>

# Overall Dimensions

*Dimensions*



Aluminium



SS 316



## Contact us:

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