

W11, W12, W13 Filter



- Port size: 3/8" ... 1 1/2" ISO G/NPT
- Robust corrosion resistant design
- Protects pressure system components against contamination
- Element serviceable without need to remove filter from line

Technical features

A rugged all stainless steel filter. Comprises a stainless steel sintered mesh element which can be easily removed for maintenance.

Medium:
Gases

Maximum inlet pressure:
W11: 550 barg (7977 psig)
W12: 420 barg (6091 psig)
W13: 310 barg (4496 psig)

Filtration:
25 µm standard
5 or 15 µm optional

Port size:
3/8", 3/4", 1" or 1 1/2"

Ambient/Media temperature:
Elastomer:
NBR: -10 ... +100°C (+14 ... 212°F)
FPM: -20 ... +150°C (-4 ... 302°F)
EPDM: -30 ... +115°C (-22 ... 239°F)
NBR (special grade): -50 ... +90°C (-58 ... 194°F)
Body:
Stainless steel: -50 ... +150°C (-58 ... 302°F)

Material:
Body: Stainless steel BS EN 10088 1.4401
Filter: Stainless steel sintered mesh
Elastomers: NBR, FPM, EPDM

Technical data – standard models

Symbol	Port size	Filter element (µm)	Nominal size		Nominal flow area		Flow coefficient		Model
			(mm)	(inch)	(mm²)	(inch²)	(Kv)	(Cv)	
	3/8"	25	10	0.39	28	0.04	0,82	0,96	W11A9E2N25
	1"	25	16	0.63	200	0.31	5,82	6,85	W12A9E6N25
	1 1/2"	25	24	0.94	452	0.70	13,08	15,40	W13A9E8N25

Option selector

W1★A9★★★★

Design size	Substitute				Filtration	Substitute
3/8" (10 mm normal size)	1				5 µm	05
3/4" ... 1" (16 mm normal size)	2				15 µm	15
1 1/2" (24 mm normal size)	3				25 µm	25
Port size	Substitute				Elastomer	Substitute
G3/8 (W11)	E2				NBR	N
3/8 NPT (W11)	A2				FPM	V
13/16" UN (W11)	0Q				EPDM	E
G3/4 (W12)	E5				NBR (special grade)	Q
3/4 NPT (W12)	A5					
G1 (W12)	E6					
1 NPT (W12)	A6					
G1 1/2 (W13)	E8					

Option selector spare kits

Port size	Substitute
3/8"	1
3/4 or 1"	2
1 1/2"	3

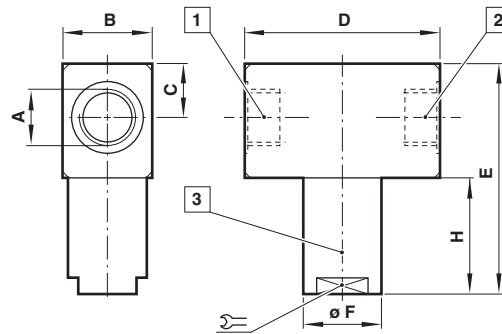
W1★S★★★

Elastomer	Substitute
NBR	N
FPM	V
EPDM	E
NBR (special grade)	Q
Filter element	Substitute
5 µm	05
15 µm	15
25 µm	25

Spares BOM

Description	Material	QTY
'O'-Ring	Rubber	2
Filter	Steel mesh	1
'O'-Ring	Rubber	1

Dimensions



Dimensions in mm
Projection/first angle



- 1 Inlet port
- 2 Outlet port
- 3 Mesh element can be easily removed for maintenance

A	B	C	D	E	Ø F	H	SW	Weight (kg)	Model
3/8"	38	17	65	103	32	66	24	1	W11
9/16" UNF	38	17	80	110	32	65	24	1.25	W11
13/16" UN	38	17	80	110	32	65	24	1.25	W11
3/4"	55	33	120	141	48	71	36	4	W12
1"	55	33	120	141	48	71	36	4	W12
1 1/2"	70	34	135	178	65	91	54	6.4	W13

Stainless Steel Filter Elements

Stainless steel filter elements are made up to several layers of 316 mesh that are sintered together to form an integrated porous element. The middle mesh is of very fine gauge and determines the filtration rates. This layer is then overlaid with inner and protection. Those filter elements are a typical surface filter and the contaminants are retained on the surface of the filtration layer, which makes cleaning and back flushing very easy. Those filter elements should be ultrasonically cleaned for best results.

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/data**«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI Plc.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.