



## Process Automation

Our product brands:  
**IMI MAXSEAL®**

### IFR3 & IFR4

Filter/Regulator  
(stainless steel)



Breakthrough  
engineering for  
a better world

# IFR3 (1/4")

# IFR4 (1/2")

## Key Benefits

- IFR3 & IFR4  
Filter/Regulator (stainless steel)
- Port size:  
1/4 NPT, 1/2 NPT (ISO G optional)
- Suitable for critical applications in arduous operating conditions
- Precision regulation and high flow rates
- Reliable and long life, ideal for one time installation
- Certification: ATEX certified (Non-Electrical), NACE (Option)



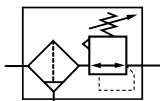
## Technical Features

Medium	Compressed air
Operating pressure	20 bar (290 psi) maximum
Outlet pressure range	Standard: 0,5 ... 10 bar (7 ... 145 psi) Optional: 0,5 ... 6/16 bar (7 ... 87/232 psi)
Flow characteristics	See page 2
Element	Standard: 40 ... 50 µm Optional: 5 ... 10 µm, 20 ... 30 µm
Port sizes	Standard: 1/4 NPT, 1/2 NPT 1/8 NPT (gouge)
Optional	G1/4 or G1/2; G1/8 (gauge)
Relief port	Ø 2 mm
Drain	Manual or automatic
Fluid / Ambient temperature	Standard: -30 ... +90°C (-22 ... +194°F) Optional: -55 ... +90°C (-67 ... +194°F) Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+36°F).
Materials	Valve body, top & bottom covers, valve trim: 316 stainless steel Seat and spring: stainless steel O-rings, seals and diaphragm: NBR See option selector for variants

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, lifesupport systems or other applications not within published specifications, consult Thompson Valves Ltd.

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.

# Technical Data, standard Models, relieving

Symbol	Port size	Outlet pressure <sup>*1</sup> (bar)	Element (µm)	Flow <sup>*2</sup> (dm³/s)	Drain	Weight (kg)	Model
	1/4 NPT	0,5 ... 10	40 ... 50	65	Manual	1,80	YR2ACA1H0BS040
	1/2 NPT	0,5 ... 10	40 ... 50	160	Manual	2,20	YR2ACA3H0BS040

<sup>\*1</sup> Outlet pressure can be adjusted to pressures in excess of, and less than, those specified.

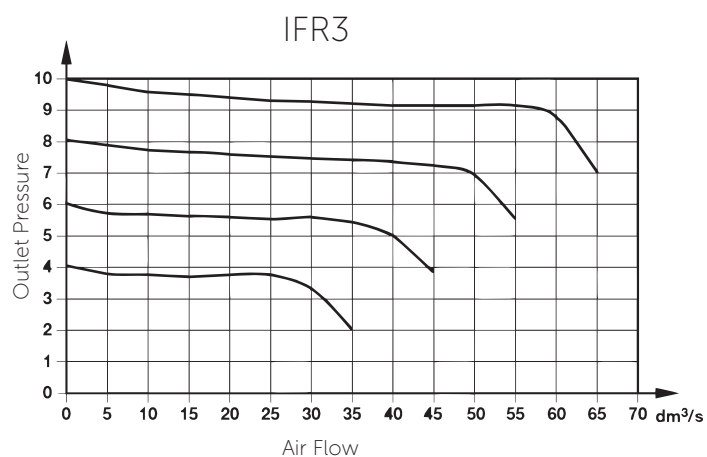
Do not use these units to control pressures outside of the specified ranges.

<sup>\*2</sup> Typical flow with 16 Bar (232 psi) Inlet Pressure, 10 Bar (145 psi) set pressure and a 1 Bar (14 psi) drop from set.

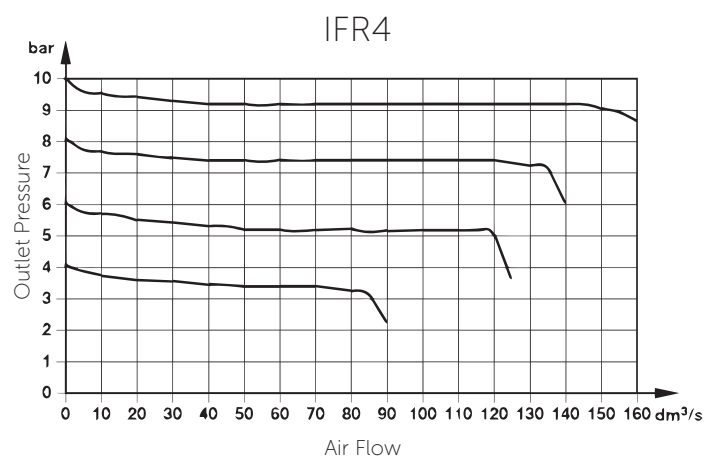
## Option selector

YR2 ★★★★★★ S0 ★★★★★			
Operating Pressure range	Substitute	Options	Suffix
0,5 ... 10 bar (standard)	A	None	B
0,5 ... 16 bar	B	NACE (Manual Drain Only)	-N
0,5 ... 6 bar	6	Filter element	Substitute
Operation options	Substitute	40 ... 50 µm (standard)	40
Filter/regulator unit automatic drain	A	20 ... 30 µm	20
Filter only automatic drain	B	5 ... 10 µm	05
Filter/regulator unit manual - drain	C	Filter element	Substitute
Filter only manual drain	F	With mounting bracket (standard)	B
Regulator only automatic drain	R	None	N
Regulator only manual drain	M	Gauge	Substitute
Port size	Substitute	None (standard)	0
1/4 NPT (standard)	A1	304/316SS dry, bar & psi units	1
G1/4	E1	304/316SS, Glycerine, bar & psi units	2
1/2 NPT (standard)	A3	304/316SS dry, psi & kPa units	3
G1/2	E3	316/316SS dry, bar & psi units	4
Seat/seal materials	Substitute	316/316SS Glycerine, bar & psi units	5
NBR (standard)	H		
FKM	V		
Low temperature variant (-55 ... 90°C)	L		

## Flow characteristics

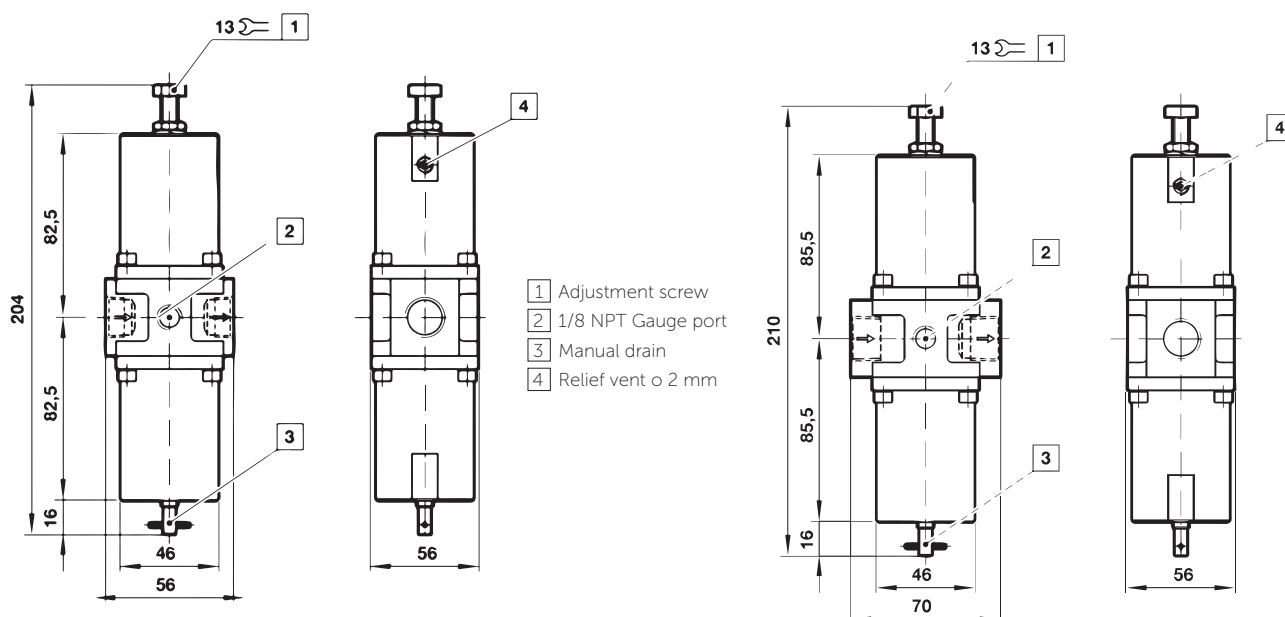


Inlet Pressure: 16 Bar  
Filter Element: 40...50 Micron

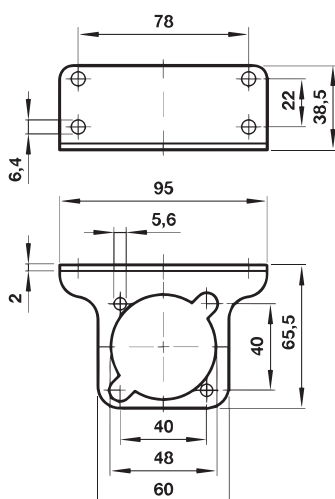


Inlet Pressure: 16 Bar  
Filter Element: 40...50 Micron

## Dimensions



## Bracket mounting kit



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