

# IFR3 & IFR4

## Filter/regulator (stainless steel)



- > **Port size:**  
1/4 NPT, 1/2 NPT
- > **Precision regulation and high flow rates**
- > **Certification: ATEX & TR CU (EAC) for non electrical equipment**
- > **Suitable for critical applications in arduous operating conditions**
- > **Reliable and long life, ideal for one time installation**



### Technical features

#### Medium:

Compressed air

#### Operating pressure max.:

Manual drain: 20 bar (290 psi)

Automatic drain: 17 bar (246 psi)

#### 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 (gauge)

#### 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 (+35°F).

#### Materials:

Valve body, top & bottom covers,

valve trim: 316 stainless steel

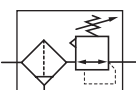
Seat and spring: stainless steel

O-rings, seals and diaphragm:

NBR

See option selector for variants

### Technical data, standard model, relieving

Symbol	Port size	Outlet pressure *1) (bar)	Element (µm)	Flow *2) (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

\*1) 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.

\*2) Typical flow with 10 bar (145 psi) inlet pressure, 6,3 bar (91 psi) set pressure and a 1 bar (14 psi) drop from set.

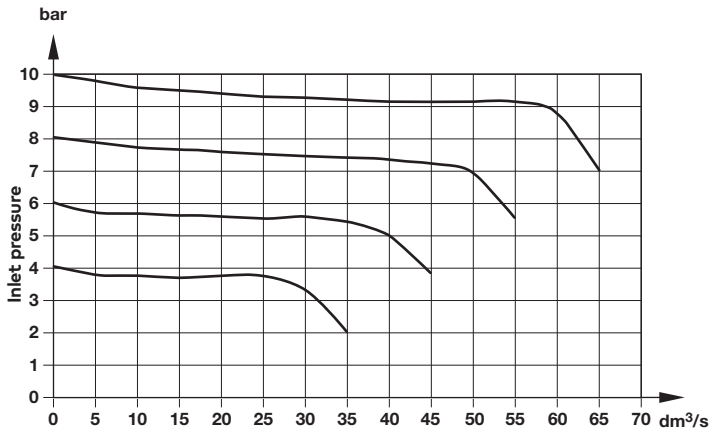
### Option selector

YR2★★★★★SO★★

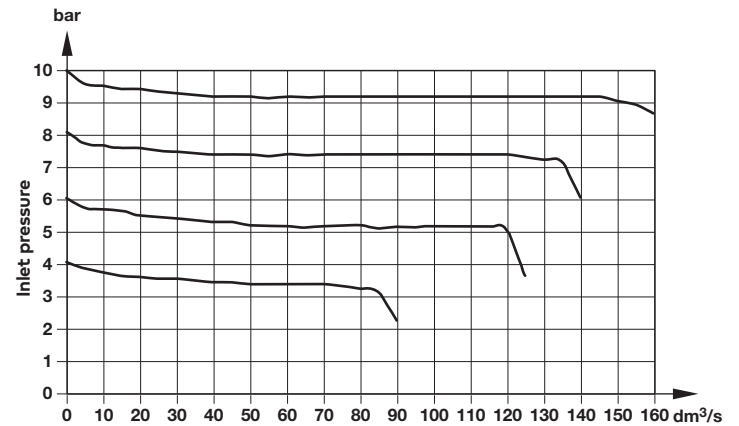
Outlet pressure range	Substitute	Filter element	Substitute
0,5 ... 10 bar (standard)	<b>A</b>	40 ... 50 µm (standard)	<b>40</b>
0,5 ... 16 bar	<b>B</b>	20 ... 30 µm	<b>20</b>
0,5 ... 6 bar	<b>6</b>	5 ... 10 µm	<b>05</b>
Operation options	Substitute	Mounting	Substitute
Filter/regulator unit automatic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

### Flow characteristics

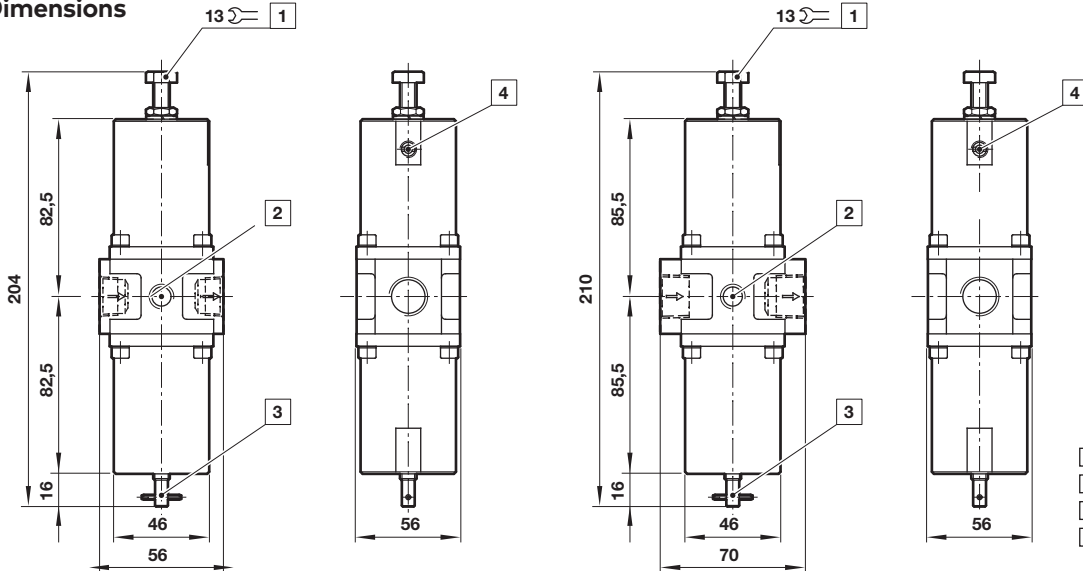
1/4"



1/2"



### Dimensions



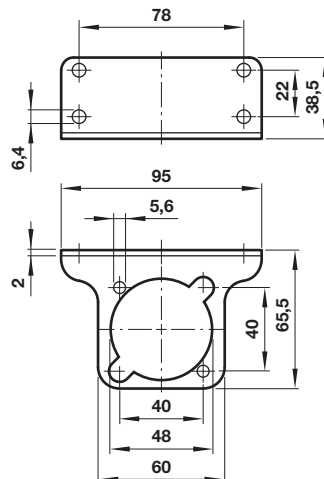
Dimensions in mm  
Projection/First angle



Air flow

- 1 Adjustment screw
- 2 1/8 NPT Gauge port
- 3 Manual drain
- 4 Relief vent  $\varnothing$  2 mm

### Bracket mounting kit



### 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 Norgren 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.