

IFR3  
&  
IFR4



## Typical Applications

- IFR3 1/4" Filter Regulator
- IFR4 1/2" Filter Regulator
- Oil & Gas Applications
- Control & Filtration of Process Media
- Pneumatic Control for Actuators, Cylinders and Positioners
- Designed for use with the Maxseal ICO3S & ICO4S Solenoid Valves

## Description

- Model IFR (Instrument Filter Regulator)
- All 316 Stainless Steel
- Filter / Regulator Combination
- High Flow Capability
- Max Inlet Pressure 20 bar
- Maintains set pressure with increasing flow
- Fully Venting
- Reliable and long life, ideal for one time installation

# Solenoid Operated Valves

## Standard Features

Materials of Construction	<input type="checkbox"/> Valve Body - Stainless Steel - 316
	<input type="checkbox"/> Top & Bottom Covers - Stainless Steel - 316
	<input type="checkbox"/> Valve Trim Materials - 316 Stainless Steel
	<input type="checkbox"/> O-Rings & Seals - Nitrile (NBR)
	<input type="checkbox"/> Diaphragm - Nitrile (NBR)
	<input type="checkbox"/> Seat & Adjustment Springs - Stainless Steel
Filter with manual drain	<input type="checkbox"/> 40 µm - Stainless Steel
Relief Port	<input type="checkbox"/> 1/8" NPT Threaded port with bug screen
Maximum Inlet Pressure	<input type="checkbox"/> 20 bar
Outlet Pressure Range	<input type="checkbox"/> 0.5 - 6 bar
	<input type="checkbox"/> 0.5 - 10 bar
	<input type="checkbox"/> 0.5 - 16 bar
Temperature Ratings	<input type="checkbox"/> Media (Min/Max -30°C/90°C) - Ambient (Min/Max -30°C/90°C)
Process Connections	<input type="checkbox"/> IFR3 -1/4" NPT
	<input type="checkbox"/> IFR3 -1/2" NPT
Media	<input type="checkbox"/> Air & Gas
Weight	<input type="checkbox"/> IFR3 - 1.8 kg
	<input type="checkbox"/> IFR4 - 2.2 kg

## Recommended Spares Kits

Soft Spares (O-rings, Springs, etc.)	<input type="checkbox"/> Please call for details
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## Options

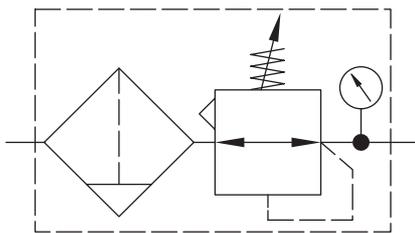
Process Connections	<input type="checkbox"/> IFR3 - 1/4" BSPP
	<input type="checkbox"/> IFR4 - 1/2" BSPP
Filter	<input type="checkbox"/> 20 µm
	<input type="checkbox"/> 5 µm
Low Temperature Variant	<input type="checkbox"/> Media (Min/Max -50°C/90°C) - Ambient (Min/Max -50°C/90°C)
Mounting Bracket Kit supplied alone	<input type="checkbox"/> IFR3 - YR20A010BS
	<input type="checkbox"/> IFR4 - YR20A030BS
NACE	<input type="checkbox"/> Please call for details

## Technical Specification

Pressures	<input type="checkbox"/> Test (Proof) Pressure	30 bar
	<input type="checkbox"/> Maximum Inlet Pressure	20 bar
ATEX Classification	<input type="checkbox"/> Exc - Complies with EN13463 for Non-Electrical Equipment	

# Solenoid Operated Valves

## Valve Symbol

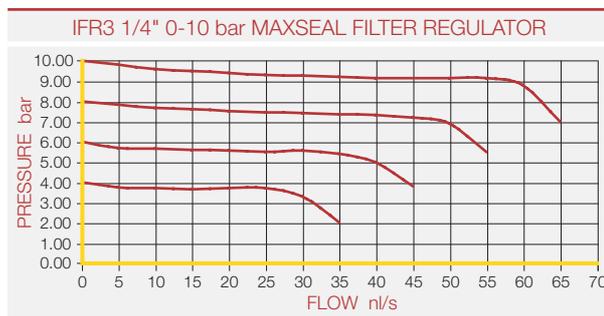


VALVE SYMBOL  
(SELF RELIEVING WITH MANUAL DRAIN & GAUGE)

## Flow Rates (16 bar Inlet) Pressure drop shown as a % of Outlet Flow

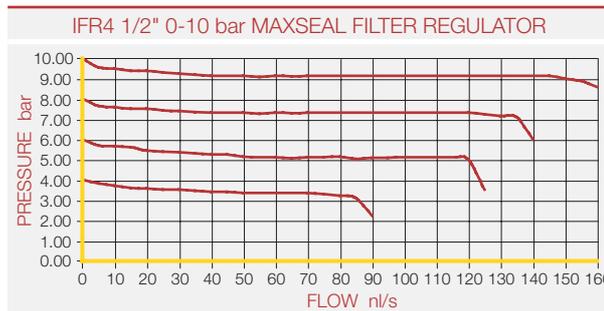
IFR3 - 0.5 - 6 bar		
Outlet (bar)	Flow (nl/s)	Pressure Drop
1	8	20%
2	25	10%
4	35	10%
6	45	10%

IFR3 - 0.5 - 16 bar		
Outlet (bar)	Flow (nl/s)	Pressure Drop
10	60	20%
12	75	10%
16	85	10%



IFR3 - 0.5 - 10 bar		
Outlet (bar)	Flow (nl/s)	Pressure Drop
2	15	20%
4	25	10%
6	35	10%
8	45	10%
10	60	10%

IFR4 - 0.5 - 10 bar		
Outlet (bar)	Flow (nl/s)	Pressure Drop
4	80	10%
6	120	10%
8	140	10%
10	160	10%



## Ordering Information

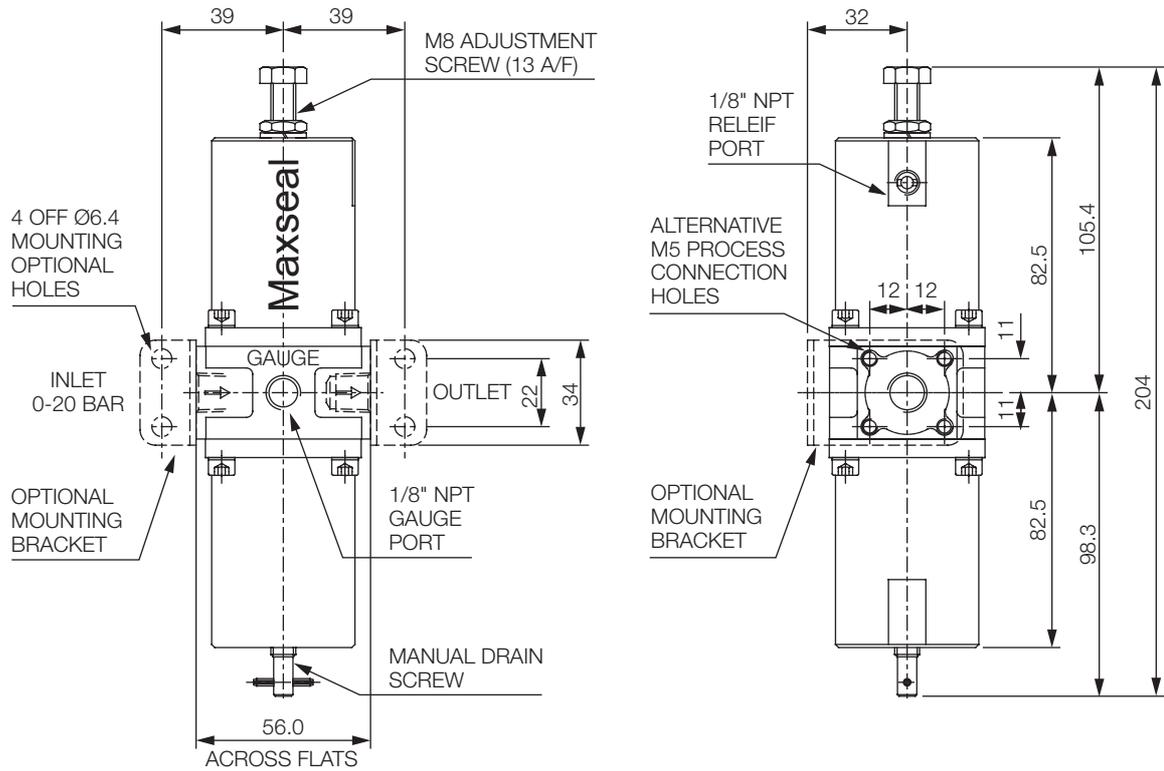
Model	Inlet Pressure	Outlet Pressure	Type	Process Conn.	Seat/Seal Materials	Gauge	Mounting	Body/Trim Materials	Filtration
YR	2	A	C	A1	H	O	B	S	040
IFR3 = 1/4" IFR4 = 1/2"	0-20 bar	6 0.5 - 6.0 bar	Filter / Regulator Combination	A1 1/4" NPT	H Nitrile	O NONE	B Mounting Bracket	S 316 Stainless Steel / 316 Stainless Steel	040 40-50 µm
		A 0.5 - 10 bar		E1 1/4" BSPP	V Viton®	1 Ø50 316SS Dry Gauge			020 20-30 µm
		B 0.5 - 16.0 bar		A3 1/2" NPT	L Low Temp Variant	2 Ø50 316SS Oil-Filled Gauge	N NONE		005 5-10 µm
E3 1/2" BSPP									

## Ordering Example

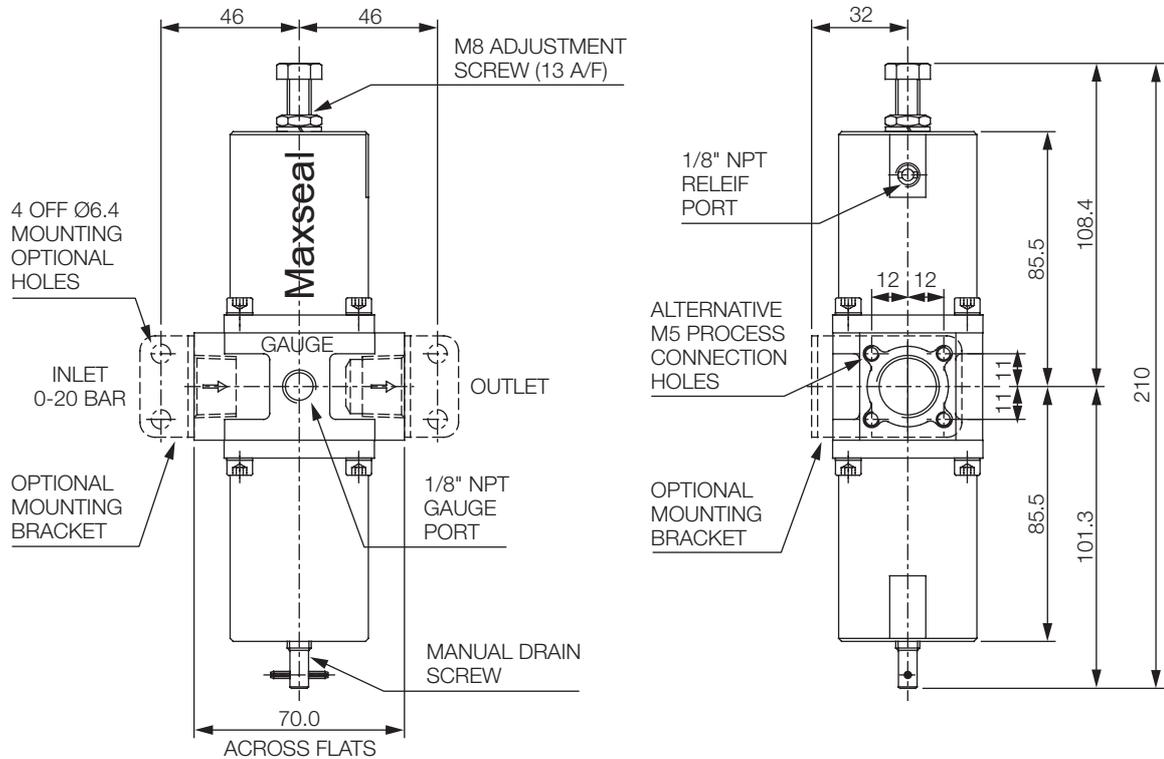
YR	2	6	C	A3	H	1	B	S	020
IFR3	0-20 bar	0.5 - 6.0 bar	Filt/Reg Comb	1/2" NPT	Nitrile	Ø50 316SS Dry Gauge	Mounting Bracket	316 SS / 316 SS	20-30 µm

# Solenoid Operated Valves

IFR3 - 1/4" Filter Regulator Combination



IFR4 - 1/2" Filter Regulator Combination



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