R68G - Olympian Plus plug-in system Pressure regulator

- Port size: 3/4" ... 1 1/2" (ISO G/PTF)
- Non-rising adjusting knob has snap-action lock
- Diaphragm and balanced valve design ensure good regulation characteristics



Technical features

Medium:
Compressed air only

Maximum operating pressure:
20 bar (290 psi)

Pressure range:
(standard)
0,4 ... 8 bar (5.8 ... 116 psi)
(optional)
0,3 ... 4 bar (4.3 ... 58 psi),
0,7 ... 17 bar (10 ... 246 psi)

Port size:
G3/4, G1, G1 1/4, G1 1/2,
3/4 NPT, 1 NPT, 1 1/4 NPT,
1 1/2 NPT

Gauge port:
1/8 PTF with PTF main ports
Rc1/8 with ISO G main ports

Flow:
See table below

Relieving:
With standard,
Non-relieving optional

Standard compliances:
II 2G Ex h IIC T6 Gb
II 2D Ex h IIIC T85° Db

Ambient/Media temperature:
-20° ... +80°C (-4° ... +176°F)
Version with gauge:
-20° ... +65°C (-4° ... +149°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:
Body, yoke and bonnet: Aluminium
Adjusting knob: Acetal resin
Elastomers: NBR

Technical data, standard models with relieving

Symbol	Port size	Size	Pressure range (bar)	Flow *1) (dm3/s)	Adjustment	Weight (kg)	Model
	G3/4	–	0,4 ... 8	150	Knob	1,95	R68G-6GK-RLN
	G1	Basic	0,4 ... 8	170	Knob	1,89	R68G-8GK-RLN
	G1 1/4	–	0,4 ... 8	170	Knob	1,93	R68G-AGK-RLN
	G1 1/2	–	0,4 ... 8	170	Knob	1,97	R68G-BGK-RLN
	Without yoke	–	0,4 ... 8		Knob	1,16	R68G-NNK-RLN

*1) Typical flow with 10 bar (145 psi) inlet pressure, and 6,3 bar (91 psi) set pressure and 1 bar (14.5 psi) drop from set.

Option selector

R68G-★★★-★★★

Port size	Substitute
3/4"	6
1"	8
1 1/4"	A
1 1/2"	B
Without yoke	N
Thread	**Substitute**
ISO G (standard)	G
PTF	A
Without yoke	N
Adjustment	**Substitute**
Knob (standard)	K
T-bar (0,7 ... 17 bar)	T

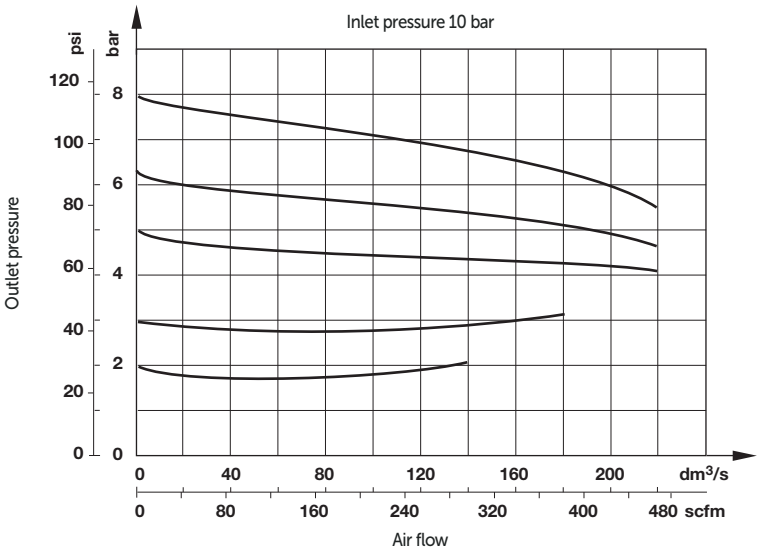
Gauge	Substitute
With	G
Without (standard)	N
Pressure range (bar) *2)	**Substitute**
0,3 ... 4	F
0,4 ... 8 (standard)	L
0,7 ... 17	S *3)
Diaphragm	**Substitute**
Relieving (standard)	R
Non-relieving	N

*2) 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.
*3) Units with 17 bar (246 psi) outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th digit and S at the 9th position.

Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2011 - 8092f) © 2024 IMI International s.r.o.

Flow characteristics

Port size 1”
Pressure range 0,4 ... 8 bar



Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2011 - 8092f) © 2024 IMI International s.r.o.

Accessories, service kit and gauges



Accessories

Thread	Single yoke  5	Double yoke  5	End connector kit  2	Single yoke non threads  5	3/2 Shut-off valve Threaded inlet only 	Threaded outlet only 	Bracket mounting  1
G3/4	Y68A-6GN-N1N	Y68A-6GN-N2N	5524-55	74785-98	T68H-6GB-B2N	T68H-6GC-B2N	18-001-979
G1	Y68A-8GN-N1N	Y68A-8GN-N2N	5524-52		T68H-8GB-B2N	T68H-8GC-B2N	18-001-979
G1 1/4	Y68A-AGN-N1N	Y68A-AGN-N2N	5523-52		T68H-AGB-B2N	T68H-AGC-B2N	18-001-978
G1 1/2	Y68A-BGN-N1N	Y68A-BGN-N2N	5523-93		T68H-BGB-B2N	T68H-BGC-B2N	18-001-972
3/4 PTF	Y68A-6AN-N1N	Y68A-6AN-N2N	5524-53		T68H-6AB-B2N	T68H-6AC-B2N	18-001-979
1 PTF	Y68A-8AN-N1N	Y68A-8AN-N2N	5524-50		T68H-8AB-B2N	T68H-8AC-B2N	18-001-979
1 1/4 PTF	Y68A-AAN-N1N	Y68A-AAN-N2N	5523-50		T68H-AAB-B2N	T68H-AAC-B2N	18-001-978
1 1/2 PTF	Y68A-BAN-N1N	Y68A-BAN-N2N	5523-95		T68H-BAB-B2N	T68H-BAC-B2N	18-001-972

Nut  4	Tamper resistant cap & seal wire  3	Porting block 	Padlock with two keys 
5520-89	4355-51	18-026-986 (G1/4 & G1/2)	0613633 (brass)

Service kit

Service kit 
R68G-KITR

Gauges

Center back connection, white face (full technical specification see datasheet 8.900.900) 

6

Pressure range bar *1)	MPa	psi	Ø	Thread size	Model
0 ... 4	0 ... 0,4	0 ... 58	50 mm	R1/8	18-015-011
0 ... 10	0 ... 1	0 ... 145	50 mm	R1/8	18-015-013
0 ... 25	0 ... 2,5	0 ... 362	50 mm	R1/8	18-015-014

*1) primary scale

Center back connection, black face for North America (full technical specification see datasheet 8.900.900) 

6

Pressure range psig *1)	bar	MPa	Ø	Thread size	Model
0 ... 60	0 ... 4	0 ... 0.4	2" (50 mm)	1/8 NPT	18-015-202
0 ... 160	0 ... 11	0 ... 1.1	2" (50 mm)	1/8 NPT	18-015-204
0 ... 400	0 ... 28	0 ... 2.8	2" (50 mm)	1/8 NPT	18-015-206

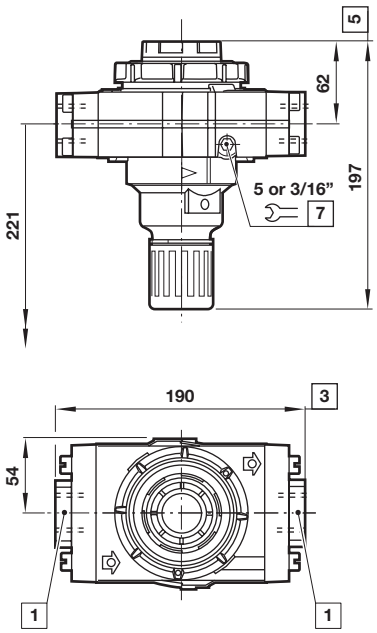
*1) primary scale

Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2011 - 8092f) © 2024 IMI International s.r.o.

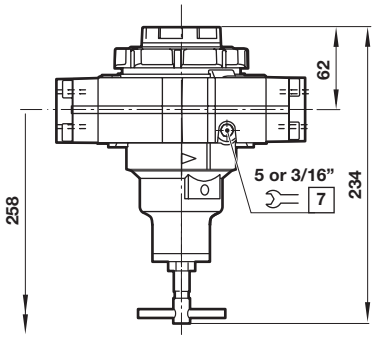
Dimensions

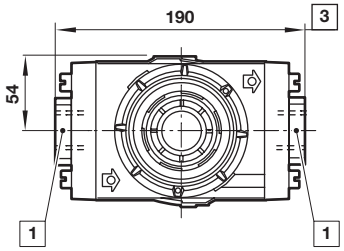
Dimensions in mm
Projection/First angle

Standrad



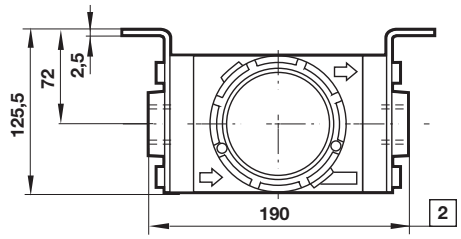
T-bar

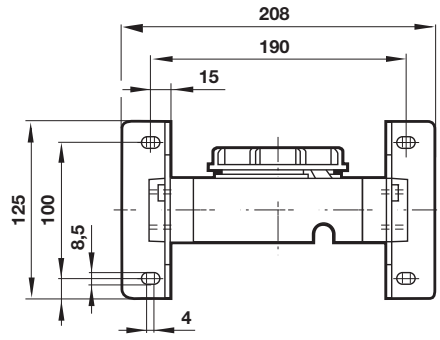




Minimum clearance required to remove unit from yoke
1 Main ports 3/4", 1", 1 1/4" or 1 1/2"
3 Plus 10 mm for ports 1 1/4" or 1 1/2"
5 Reduces by 4 mm with knob in locked position
7 Gauge port 1/8"

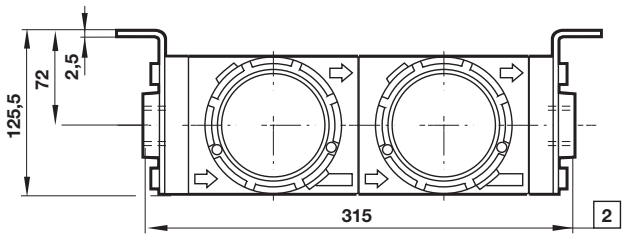
Single yoke with bracket

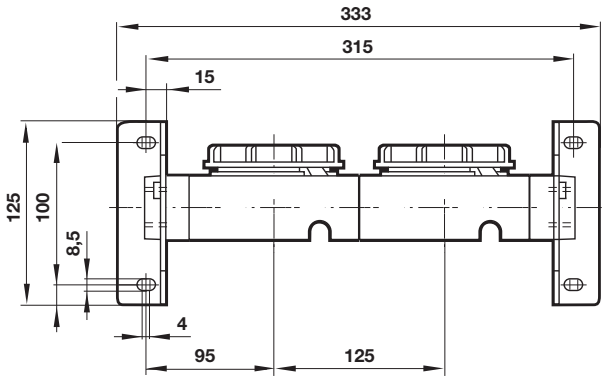




2 For 1 1/4" and 1 1/2" ported yokes add 10 mm

Double yoke with bracket

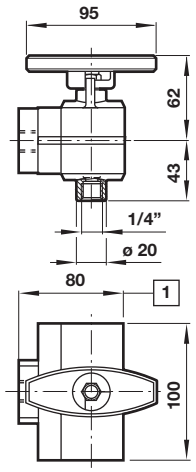




2 For 1 1/4" and 1 1/2" ported yokes add 10 mm

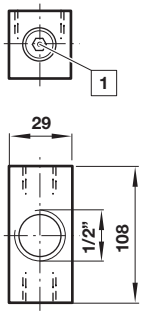
Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2011 - 8092f) © 2024 IMI International s.r.o.

3/2 Shut-off valve



1 For 1 1/2” ported yokes add 5 mm

Porting block



1 Two additional plugged G1/4 ports

Dimensions in mm
Projection/First angle

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.

Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2011 - 8092f) © 2024 IMI International s.r.o.