

20AG High flow pressure regulator G1/2 ... G1

Ported regulators for general purpose and high flow pneumatic applications

Large diaphragm provides accurate and quick response to changing flow demands and line pressure

Balanced valve minimizes effect of variations in inlet pressure on outlet pressure

Extensive range of applications



Technical features

Medium:

Compressed air only

Maximum inlet pressure:

28 bar max.

Pressure range:

0,1 ... 3,5 bar or 0,2 ... 8 bar

0,7 ... 17 bar (1/2" version only)

Port sizes:

G1/2, G3/4, G1

Gauge ports:

G1/8

Operating temperature:

-20 ... +80°C

Air supply must be dry enough to avoid ice formation at temperatures below +2°C

Materials:

Body: Zinc alloy


Bonnet: Aluminium alloy

Bottom plug: Glass filled nylon for G 1/2, aluminium for G 3/4 and G 1

Adjusting screw: Steel-plated

Elastomers: Synthetic rubber

Technical data, standard models

Symbol	Port size	Pressure range (bar)	Flow * (dm³/s)	Relieving	Adjustment	Weight (kg)	Model
	G1/2	0,1 ... 3,5	60	Standard	T-bar	1,40	20AG-X4G-PD100
	G1/2	0,2 ... 8	60	Standard	T-bar	1,30	20AG-X4G-PH100
	G3/4	0,1 ... 3,5	80	Standard	T-bar	2,75	20AG-X6G-PD100
	G3/4	0,2 ... 8	80	Standard	T-bar	2,85	20AG-X6G-PH100
	G1	0,1 ... 3,5	100	Standard	T-bar	2,44	20AG-X8G-PD100
	G1	0,2 ... 8	100	Standard	T-bar	2,90	20AG-X8G-PH100

Typical flow with 7 bar inlet pressure, 4 bar set pressure and 1 bar droop from set.

Option selector

20AG-★★G-P★1★★

Diaphragm	Substitute
Relieving (standard)	X
Non-relieving - (no digit)	
Port size	Substitute
1/2"	4
3/4"	6
1"	8

Options *2)	Substitute
T-bar handle (standard)	00
Panel mounted with plastic handwheel, 1/2" only	03
Pressure ranges *1)	Substitute
0,1 ... 3,5 bar	D
0,2 ... 8 bar	H
0,7 ... 17 bar, 1/2" only	J

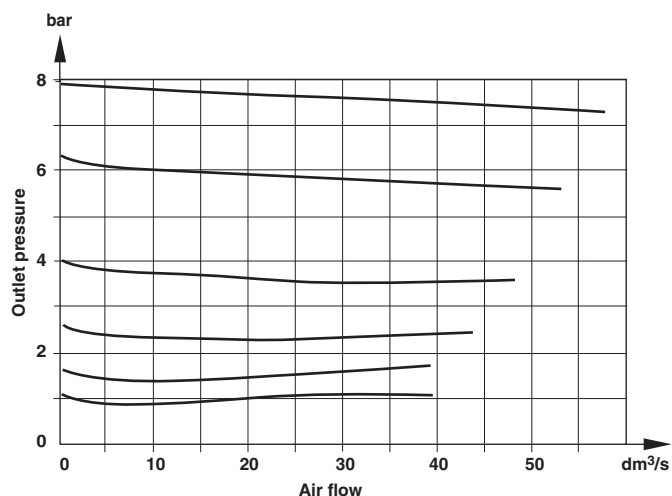
*1) Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

*2) Other seals or use other gases might be possible - please contact Norgren

Flow characteristics

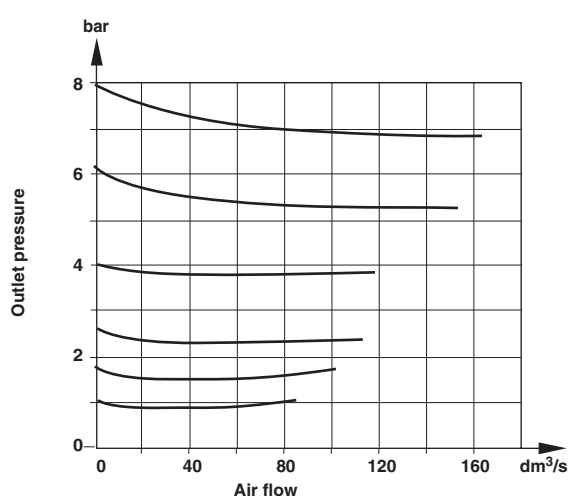
Inlet pressure: 10 bar, port size: 1/2"

Range: 0,2 ... 8 bar



Inlet pressure: 10 bar, port size: 1"

Range: 0,2 ... 7 bar



Accessories



Accessories

Wall mounting bracket

1



Port size

G 1/2 18-001-005

G 3/4 & G 1 18-001-029

Gauges

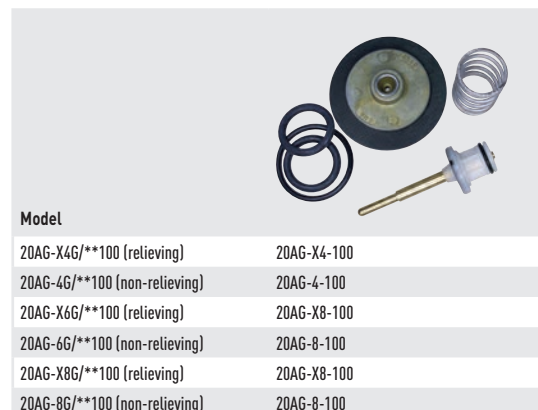
Gauges

2



Port size	Pressure range	Diameter	Model
R1/8	0 ... 4 bar	50 mm	18-013-011
R1/8	0 ... 10 bar	50 mm	18-013-013
R1/8	0 ... 25 bar	50 mm	18-013-014

Service kits



Model

20AG-X4G/**100 (relieving) 20AG-X4-100

20AG-4G/**100 (non-relieving) 20AG-4-100

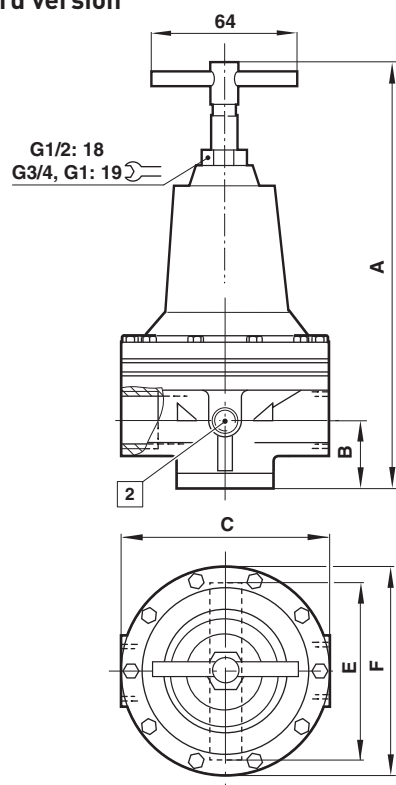
20AG-X6G/**100 (relieving) 20AG-X8-100

20AG-6G/**100 (non-relieving) 20AG-8-100

20AG-X8G/**100 (relieving) 20AG-X8-100

20AG-8G/**100 (non-relieving) 20AG-8-100

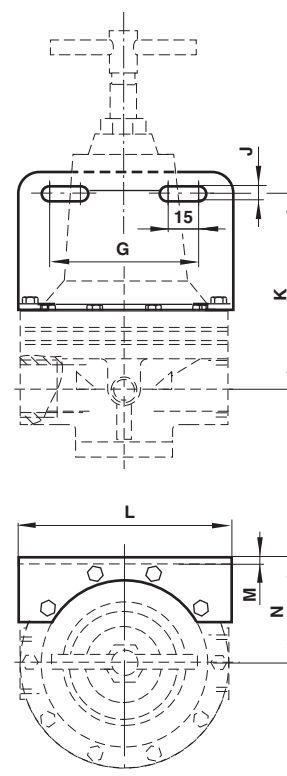
Dimensions Standard version



2 Gauge port

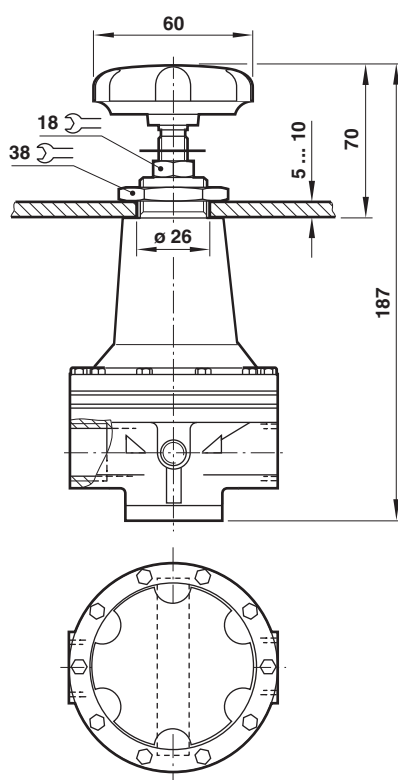
Port size	A	B	C	E	Ø F	P
G1/2	162	36	86	82	83	179
G3/4	232	41	124	108	124	245
G1	232	41	124	108	124	245

Bracket mounting



Port size	G	J	K	L	M	N
G1/2	63	7	73	83	2	57
G3/4	98	8	80	124	2	75
G1	98	8	80	124	2	75

Panel mounted with plastic handwheel, 1/2" only



Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where values 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.

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.