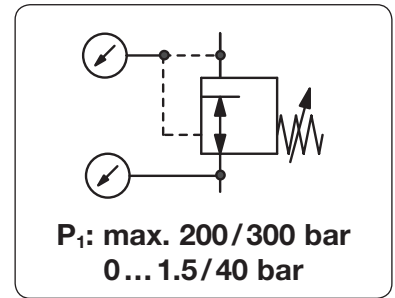


# Gas Cylinder Pressure Regulator up to 300 bar RH200 / RH300

<b>Description</b>	High pressure regulator for gas cylinders for reducing pressure of compressed air or liquid gases from a high level, e.g. of 200 bar or 300 bar, to the required pressure.
<b>Supply pressure</b>	max. 200 bar or max. 300 bar
<b>Media</b>	compressed air, oxygen or different gases
<b>Connections</b>	according to DIN 477
<b>Adjustment</b>	by T-handle
<b>Gauge port</b>	All regulators are equipped with both one supply pressure gauge and one outlet pressure gauge.
<b>Leakage rate</b>	10 <sup>-6</sup> mbar l/s
<b>Compensation</b>	All regulators are equipped with supply pressure variation compensation, so that a change in supply pressure has no effect on the outlet pressure's stability.
<b>Temperature range</b>	-30 °C to 60 °C / -22 °F to 140 °F
<b>Material</b>	Body: brass O-rings: NBR/Buna-N and EPDM Spring cage: brass Diaphragm: 65NBR4550, PTFE for outlet > 10 bar, stainless steel for pure gases up to 5.0



Dimensions			Version	Flow rate	Supply pressure	Pressure range	Order number
A	B	C	1-step	m <sup>3</sup> /h*3	l/min*3	max. bar	bar

Cylinder pressure regulator 200 bar							for compressed air, connections DIN 477, with inlet / outlet gauges	RH200
210	190	100	1-step	48	800	200	0 ... 10	RH201-00C
210	210	120		75	1250		0 ... 20	RH201-00D
				120	2000		0 ... 40	RH201-00E
240	190	100	2-step	8	133	200	0 ... 1.5	RH202-00A
				48	800		0 ... 10	RH202-00C

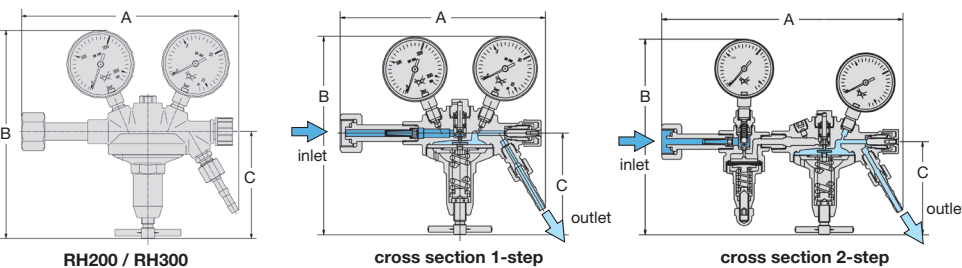
Cylinder pressure regulator 300 bar							for compressed air, connections DIN 477, with inlet / outlet gauges	RH300
210	190	100	1-step	48	800	300	0 ... 10	RH301-00C
210	210	120		75	1250		0 ... 20	RH301-00D
				120	2000		0 ... 40	RH301-00E
240	190	100	2-step	8	133	300	0 ... 1.5	RH302-00A
				48	800		0 ... 10	RH302-00C



Regulator for propane and acetylene							connections DIN 477, with inlet / outlet gauges	RH201
210	190	100	1-step	propane	C <sub>3</sub> H <sub>8</sub>	max. 8	0 ... 4	RH201-00B16
210	190	100	1-step	acetylene	C <sub>2</sub> H <sub>2</sub>	max. 26	0 ... 1.5	RH201-00A19



Special options, add the appropriate letter				
oxygen	O <sub>2</sub>		up to 20 bar	RH.0 -... 15
inert gas				RH.0 -... 04
carbon dioxide	CO <sub>2</sub>			RH.0 -... 03
argon	Ar			RH.0 -... 05
helium	He		up to 40 bar	RH.0 -... 09
fuel gas				RH.0 -... 06
hydrogen	H <sub>2</sub>			RH.0 -... 11
forming gas			up to 40 bar	RH.0 -... 08
nitrogen	N <sub>2</sub>			RH.0 -... 07
testing gas			up to 40 bar	RH.0 -... 12
chrome-plated body		inside and outside	for 1-step	RH.01-C...
chrome-plated body		inside and outside	for 2-step	RH.02-C...
metal diaphragm		5.0 purity	for 1-step	RH.01-.M...
			for 2-step	RH.02-.M...

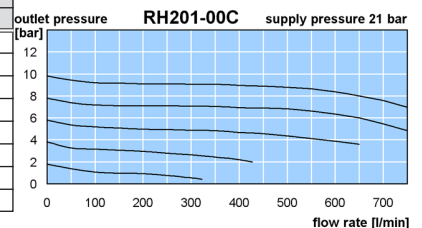


connection thread up to 200 bar		
type of gas	inlet *1	outlet *2
compressed air	G½	G¼ or G½
oxygen	G½	G¼
inert gas	W21, 8x¼	G¼
CO <sub>2</sub> / argon	W21, 8x¼	G¼
helium	W21, 8x¼	G¼
fuel gas	W21, 8x¼ LH	G½ LH
hydrogen	W21, 8x¼ LH	G½ LH
forming gas	W21, 8x¼ LH	G½ LH

connection thread up to 200 bar		
type of gas	inlet *1	outlet *2
nitrogen	W24.32x¼	G¼
testing gas	M19x1.5 LH	G½ LH
nitrous oxide	G½	G¼
acetylene	clamp (cylinder)	G½m LH

connection thread up to 300 bar		
type of gas	inlet *1	outlet *2
fuel gas	W30x2 LH	G½ LH
all others	W30x2	G¼

flow rate correction factor	
type of gas	factor
compressed air	1.00
oxygen	O <sub>2</sub> 0.95
carbon dioxide	CO <sub>2</sub> 0.81
hydrogen	H <sub>2</sub> 3.80
argon	Ar 0.85
helium	He 2.70
propane	C <sub>3</sub> H <sub>8</sub> 0.80
nitrous oxide	N <sub>2</sub> O 0.80



\*1 Thread according to DIN 477, only left hand thread is marked LH, right hand RH is not marked.  
\*2 male thread, up to 120 m<sup>3</sup>/h G½  
\*3 at supply pressure of 2x outlet pressure + 1 bar