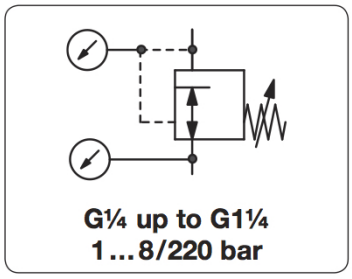
pressure regulator for gas-bottles
series RH10

Description	For outlet pressures up to 15 bar the regulator has a diaphragm, for higher outlets a piston. A sintered bronze filter at the inlet port protects against contamination.
Media	compressed air or non-corrosive gases
Supply pressure	max. 220 bar
Adjustment	RH10-02: by black plastic knob all others: by T-handle with locknut
Gauge port	All regulators are equipped with both one supply pressure gauge and one outlet pressure gauge.
Safety relief valve	prevents from overpressure, see chart
Compensation	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.
Temperature range	-20 °C to 60 °C / -4 °F to 140 °F **Mounting position** any
Material	Body: brass, nickel-plated at RH10-02 Inlet filter: sintered bronze Piston: brass at RH10-02 O-rings: EPDM or FKM, dependent on media Valve seat: nylon Diaphragm: stainless steel at RH10-02, NBR/Buna-N at all others

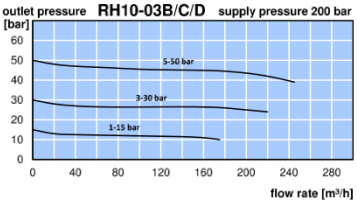


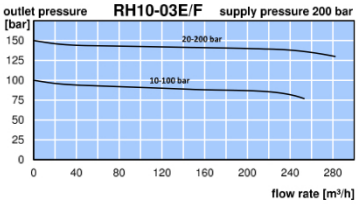
G¼ up to G1¼
1…8/220 bar

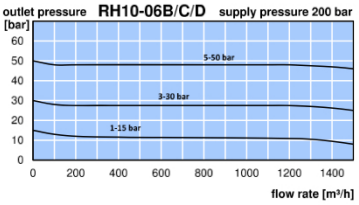
Dimensions A mm	B mm	C mm	Safety relief valve S: with valve	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread inlet / outlet	Pressure range bar	Order number
High pressure regulator 220 bar							non-relieving, for compressed air, pressure gauges supplied		**RH10**
175	150	32	S	0.05	80	1300	DIN 477 / G¼	1… 8	**RH10-02A**
			S					1… 15	**RH10-02B**
			S					3… 30	**RH10-02C**
			S					5… 50	**RH10-02D**
			S					10…100	**RH10-02E**
			-					20…200	**RH10-02F**
181	162	34	S	0.15	228	3800	DIN 477 / G½ a	0.1… 1.5	**RH10-030**
			S					1… 15	**RH10-03B**
181	164	34	S				DIN 477 / G⅜ i	3… 30	**RH10-03C**
			S					5… 50	**RH10-03D**
181	182	34	-					10…100	**RH10-03E**
			-					20…200	**RH10-03F**
181	231	102	S	0.25	422	7000	G¾ i / G½ a	0.1… 1.5	**RH10-A30**
			S					1… 15	**RH10-A3B**
181	233	102	S				G¾ i / G⅜ i	3… 30	**RH10-A3C**
			S					5… 50	**RH10-A3D**
181	184	35	-					10…100	**RH10-A3E**
			-					20…200	**RH10-A3F**
166	346	113	S	1.5	2000	33000	G¾ a / G¾ a	1… 8	**RH10-06A**
			S					1… 15	**RH10-06B**
			S					3… 30	**RH10-06C**
			S					5… 50	**RH10-06D**
			S					10…100	**RH10-06E**
250	370	242	S	2.5	3000	48000	G1 a / G1 a	1… 8	**RH10-08A**
			S					1… 15	**RH10-08B**
250	406	278	S					3… 30	**RH10-08C**
			S					5… 50	**RH10-08D**
250	387	276	-					20…200	**RH10-08F**

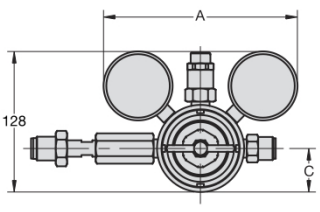
RH10-02B11

RH10-A3B07

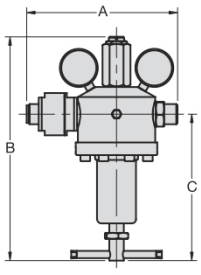








RH10-02/-03/-A3

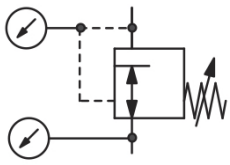


RH10-06/-08/-10

*1 at 200 bar supply pressure and 15 bar outlet pressure

*2 max. 80 bar outlet pressure

Description	For outlet pressures up to 15 bar the regulator has a diaphragm, for higher outlets a piston. A sintered bronze filter at the inlet port protects against contamination.
Media	compressed air or non-corrosive gases
Supply pressure	max. 220 bar
Adjustment	RH10-02: by black plastic knob all others: by T-handle with locknut
Gauge port	All regulators are equipped with both one supply pressure gauge and one outlet pressure gauge.
Safety relief valve	prevents from overpressure, see chart
Compensation	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.
Temperature range	-20 °C to 60 °C / -4 °F to 140 °F **Mounting position** any
Material	Body: brass, nickel-plated at RH10-02 Inlet filter: sintered bronze Piston: brass at RH10-02 O-rings: EPDM or FKM, dependent on media Valve seat: nylon Diaphragm: stainless steel at RH10-02, NBR/Buna-N at all others



G¼ up to G1¼
1…8/220 bar

RH10-08B

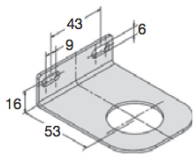
Dimensions A mm	B mm	C mm	Safety relief valve S: with valve	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread inlet / outlet	Pressure range bar	Order number
High pressure regulator 220 bar							non-relieving, for compressed air, pressure gauges supplied		**RH10**
246	385	269	S	3.5	5000	80000	G1 a /G1¼	1… 8	**RH10-10A**
			S					1… 15	**RH10-10B**
			S					3… 30	**RH10-10C**
246	426	310	S					5… 50	**RH10-10D**

Special options, add the appropriate letter

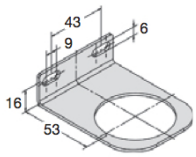
relieving diaphragm	with relieving function, for compressed air up to max. 50 bar	RH10-. . . **R**
relieving piston	with relieving function, for compressed air up to max. 50 bar	RH10-. . . **R**
FKM elastomer		RH10-. . . **V**
PTFE elastomer		RH10-. . . **T**
SST diaphragm	from RH10-03	RH10-. . . **S**
for panel mounting	for RH10-02 to -A3	RH10-. . . **P**
carbon dioxide *2	CO_2	RH10-. . . **03**
argon	Ar	RH10-. . . **05**
nitrogen	N_2	RH10-. . . **07**
helium	He	RH10-. . . **09**
hydrogen	H_2	RH10-. . . **11**
methane	CH_4	RH10-. . . **13**
oxygen	O_2	RH10-. . . **15**
propane	C_3H_6	RH10-. . . **16**
nitrous oxide	N_2O	RH10-. . . **17**
without flange connection		RH10-. . . **X40**

Accessories

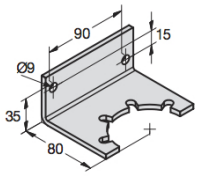
mounting bracket	made of stainless steel	for RH10-02	**BW35-01S**
mounting nut		for RH10-02	**M35x1,5S**
mounting bracket		for RH10-03 and -A3	**BW50-01S**
mounting nut		for RH10-03 and -A3	**M50x1,5S**
mounting bracket		for RH10-06	**BW00-31S**
		for RH10-08	**BW00-35S**



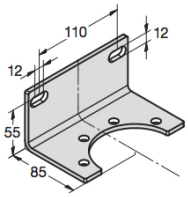
BW35-01S



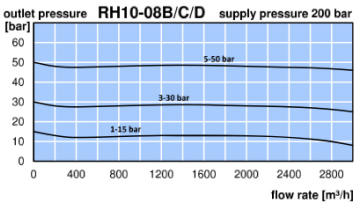
BW50-01S

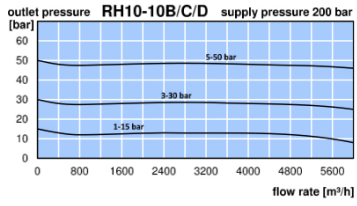


BW00-31S



BW00-35S





*

*1 at 200 bar supply pressure and 15 bar outlet pressure

*2 max. 80 bar outlet pressure

illustrations are for information only and are non-binding
all designs, configurations, measurements and materials are subject to change without prior notice