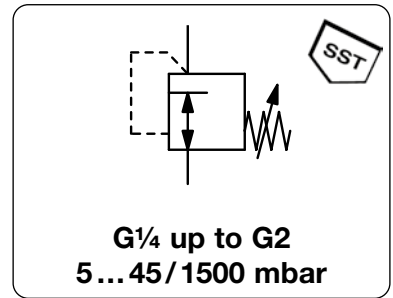


LOW PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGHOUT

R3100

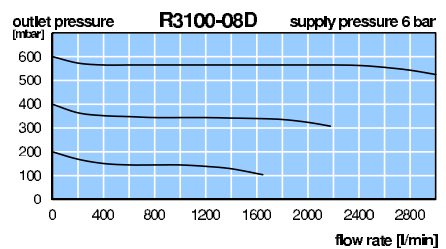
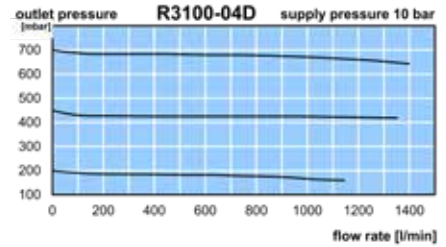
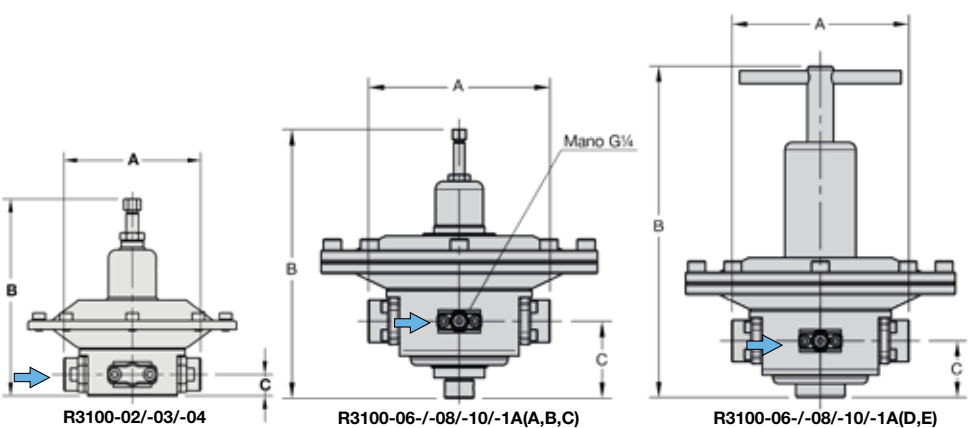
Description	Precision low pressure regulator with large diaphragm, completely made of stainless steel.	
Media	compressed air or gases	
Supply pressure	see table, max. 10 bar, min. 1 bar	
Air consumption	without constant bleed	
Adjustment	by adjusting screw	
Relieving function	non-relieving	
Gauge port	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied	
Mounting position	any	
Temperature range	0 °C bis 80 °C / 32 °C to 176 °F, FKM or EPDM 0 °C bis 130 °C / 32 °C to 266 °F, high temperature version, for appropriately conditioned compr. air down to -20 °C / - 4 °F, or low temperature down to -40 °C/-40°F	
Material	Body: stainless steel 316L, material no. 1.4404 Diaphragm: NBR/Buna-N with PTFE coating	O-rings: FKM Inner valve: stainless steel 316L / 1.4404



Dimensions			K _v -value	Flow rate	Supply pressure	Connection- thread	Pressure range	Order number
A	B	C						
mm	mm	mm	(m ³ /h)	m ³ /h*1	l/min*1	max. bar	G	mbar

Low pressure regulator made of SST, supply pressure max. 6/7/10 bar, non-relieving diaphragm NBR/Buna-N with PTFE coating, FKM o-ring **R3100**

109	181	39	1.4	84	1400	10	G $\frac{1}{4}$	5 ... 45	R3100-02A
								10 ... 400	R3100-02C
								20 ... 1000	R3100-02D
								50 ... 1500	R3100-02E
109	181	39	1.4	84	1400	10	G $\frac{3}{8}$	5 ... 45	R3100-03A
								10 ... 400	R3100-03C
								20 ... 1000	R3100-03D
								50 ... 1500	R3100-03E
109	181	39	1.4	84	1400	10	G $\frac{1}{2}$	5 ... 45	R3100-04A
								10 ... 400	R3100-04C
								20 ... 1000	R3100-04D
								50 ... 1500	R3100-04E
161	234	69	1.4	84	1400	7	G $\frac{3}{4}$	5 ... 45	R3100-06A
								10 ... 120	R3100-06B
								10 ... 400	R3100-06C
								15 ... 700	R3100-06D
								200 ... 1200	R3100-06E
161	234	69	1.4	84	1400	7	G1	5 ... 45	R3100-08A
								10 ... 120	R3100-08B
								10 ... 400	R3100-08C
								15 ... 700	R3100-08D
								200 ... 1200	R3100-08E

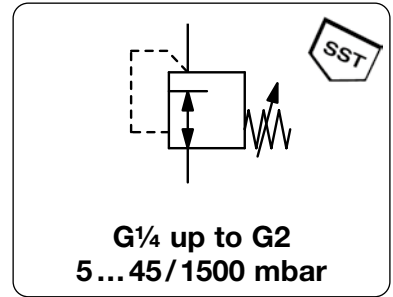


*1 at 6 bar supply pressure and 1 bar / 0.7 bar (-04) outlet pressure

LOW PRESSURE REGULATOR MADE OF STAINLESS STEEL THROUGHOUT

R3100

Description	Precision low pressure regulator with large diaphragm, completely made of stainless steel.
Media	compressed air or gases
Supply pressure	see table, max. 10 bar, min. 1 bar
Air consumption	without constant bleed
Adjustment	by adjusting screw
Relieving function	non-relieving
Gauge port	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied
Mounting position	any
Temperature range	0 °C bis 80 °C / 32 °C to 176 °F, FKM or EPDM 0 °C bis 130 °C / 32 °C to 266 °F, high temperature version, for appropriately conditioned compr. air down to -20 °C / - 4 °F, or low temperature down to -40 °C/-40°F
Material	Body: stainless steel 316L, material no. 1.4404 O-rings: FKM Diaphragm: NBR/Buna-N with PTFE coating Inner valve: stainless steel 316L / 1.4404

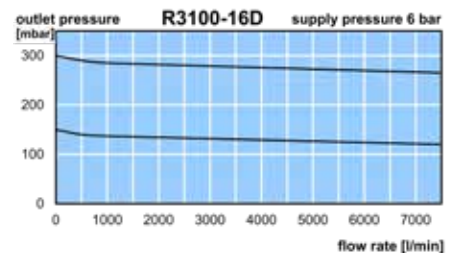
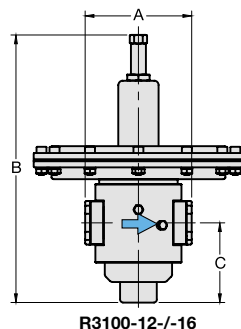


Dimensions			K _v - value	Flow rate	Supply pressure	Connection- thread	Pressure range	Order number
A	B	C						
mm	mm	mm	(m ³ /h)	m ³ /h*1	l/min*1	max. bar	G	mbar



R3100-12/-16

Low pressure regulator										made of SST, supply pressure max. 6/7 bar, non-relieving diaphragm NBR/Buna-N with PTFE coating, FKM o-ring	R3100
265	234	69	1.4	84	1400	7	G $\frac{1}{4}$	5 ... 45	R3100-10A		
								10 ... 120	R3100-10B		
								10 ... 400	R3100-10C		
265	296	53	8.4	576	9600			15 ... 700	R3100-10D		
								200 ... 1200	R3100-10E		
265	234	69	1.4	84	1400	7	G $\frac{1}{2}$	5 ... 45	R3100-1AA		
								10 ... 120	R3100-1AB		
								10 ... 400	R3100-1AC		
265	296	53	8.4	576	9600			15 ... 700	R3100-1AD		
								200 ... 1200	R3100-1AE		
171	431	97	6.2	420	7000	6	G $\frac{1}{2}$	20 ... 50	R3100-12A		
								50 ... 150	R3100-12B		
171	467	97						150 ... 300	R3100-12D		
171	430	97	25	1470	24500			100 ... 1000	R3100-12E		
171	431	97	6.2	420	7000	6	G2	20 ... 50	R3100-16A		
								50 ... 150	R3100-16B		
171	467	97						150 ... 300	R3100-16D		
171	430	97	25	1470	24500			100 ... 1000	R3100-16E		



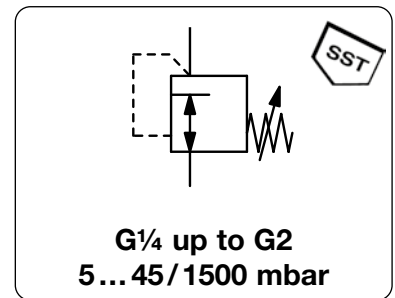
*1 at 6 bar supply pressure and 1 bar / 0.7 bar (-04) outlet pressure

PDF CAD
www.aircom.net



Order example:
R3100-10A

Description	Precision low pressure regulator with large diaphragm, completely made of stainless steel.		
Media	compressed air or gases		
Supply pressure	max. 7 bar, min. 1 bar		
Air consumption	without constant bleed		
Adjustment	by adjusting screw		
Relieving function	non-relieving		
Gauge port	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied		
Mounting position	any		
Temperature range	0 °C bis 80 °C / 32 °C to 176 °F, FKM or EPDM 0 °C bis 130 °C / 32 °C to 266 °F, high temperature version, for appropriately conditioned compr. air down to -20 °C / - 4 °F, or low temperature down to -40 °C/-40°F		
Material	Body: stainless steel 316L, material no. 1.4404	O-rings: FKM	Inner valve: stainless steel 316L / 1.4404
	Diaphragm: NBR/Buna-N with PTFE coating		



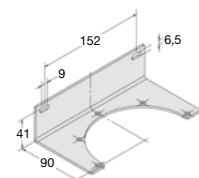
Dimensions			K _v -value	Flow rate	Supply pressure	Connection- thread	Pressure range	Order number
A	B	C	(m ³ /h)	m ³ /h*1	l/min*1	max. bar	G	mbar
mm	mm	mm	(m ³ /h)	m ³ /h*1	l/min*1	max. bar	G	mbar

Special options, add the appropriate letter

NPT	connection thread	R3100- ... N
EPDM o-ring		R3100- ... E
EPDM o-ring	FDA-approval	R3100- ... TD
down to -40 °C/-40 °F	low temperature version	R3100- ... X51
up to 130 °C/266 °F	high temperature version	R3100- ... X54
ammonia	NH ₃	R3100- ... 02
carbon dioxide	CO ₂	R3100- ... 03
argon	Ar	R3100- ... 05
nitrogen	N ₂	R3100- ... 07
helium	He	R3100- ... 09
hydrogen	H ₂	R3100- ... 11
methane	CH ₄	R3100- ... 13
natural gas *2		R3100- ... 14
oxygen	O ₂	R3100- ... 15
propane	C ₃ H ₈	R3100- ... 16
nitrous oxide	N ₂ O	R3100- ... 17
flange connection	see end of the chapter / flanges	R3100- ... F .

Accessories, enclosed

pressure gauge	Ø 63 mm, 0... ^{*3} mbar, G $\frac{1}{4}$, capsule type	up to 600 mbar	MS6302- ..^{*3}
	Ø 63 mm, 0... ^{*4} bar, G $\frac{1}{4}$, Bourdon tube	from 1 bar on	MS6302- ..^{*4}
mounting bracket		for G $\frac{1}{4}$ to G $\frac{1}{2}$	BW00-26S



BW00-26S



*1 at 6 bar supply pressure and 1 bar / 0.7 bar (-04) outlet pressure
*3 B6 = 0...60 mbar, C3 = 0...250 mbar, C4 = 0...400 mbar, C6 = 0...600 mbar

*2 without DVGW-approval
*4 02 = 0...2 bar, 04 = 0...4 bar, 06 = 0...6 bar

