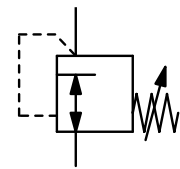


Description	Precision low pressure regulator with large diaphragm, completely made of stainless steel.	
Media	compressed air or gases	
Supply pressure	max. 15 bar, min. 1 bar	
Air consumption	without constant bleed	
Adjustment	by adjusting screw	
Relieving function	non-relieving	
Gauge port	G¼ on both 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



SST

G¼ up to G2
5 ... 45/1500 mbar

Dimensions			K _v - value	Flow rate		Connection- thread	Pressure range	Order number
A	B	C		m³/h	l/min*			
mm	mm	mm	(m³/h)	m³/h	l/min	G	mbar	

Low pressure regulator made of SST, supply pressure max. 15 bar, non-relieving diaphragm NBR/Buna-N with PTFE coating, FKM o-ring **R3100**

109	181	39	1.4	84	1400	G¼	5 ... 45 10 ... 400 20 ... 1000 50 ... 1500	R3100-02A R3100-02C R3100-02D R3100-02E
109	181	39	1.4	84	1400	G¾	5 ... 45 10 ... 400 20 ... 1000 50 ... 1500	R3100-03A R3100-03C R3100-03D R3100-03E
109	181	39	1.4	84	1400	G½	5 ... 45 10 ... 400 20 ... 1000 50 ... 1500	R3100-04A R3100-04C R3100-04D R3100-04E
161	234	69	1.4	84	1400	G¾	5 ... 45 10 ... 120 10 ... 400 15 ... 700 200 ... 1200	R3100-06A R3100-06B R3100-06C R3100-06D R3100-06E
161	296	53	8.4	576	9600			
161	234	69	1.4	84	1400	G1	5 ... 45 10 ... 120 10 ... 400 15 ... 700 200 ... 1200	R3100-08A R3100-08B R3100-08C R3100-08D R3100-08E
161	296	53	8.4	576	9600			



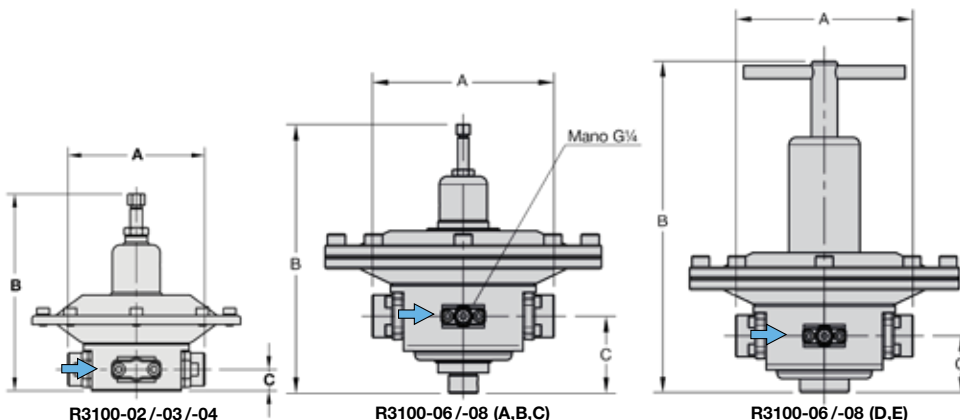
R3100-02/-03/-04



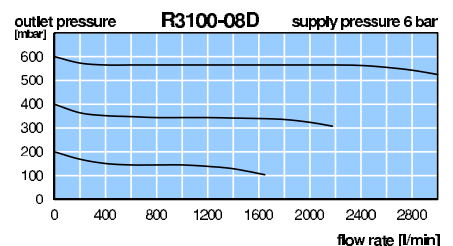
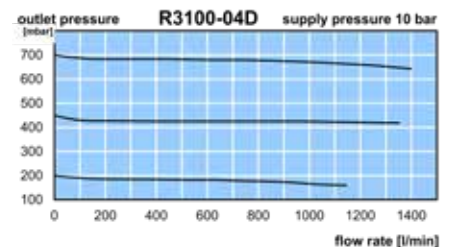
R3100-06/-08

SST

SST
15



*1 at 6 bar supply pressure and max. outlet pressure



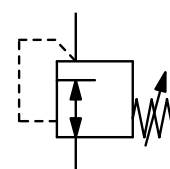
Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net



Order example:
R3100-02A

Description	Precision low pressure regulator with large diaphragm, completely made of stainless steel.
Media	compressed air or gases
Supply pressure	max. 15 bar, min. 1 bar
Air consumption	without constant bleed
Adjustment	by adjusting screw
Relieving function	non-relieving
Gauge port	G¼ 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



G¼ up to G2
5 ... 45/1500 mbar

Dimensions			K _v - value	Flow rate		Connection- thread	Pressure range	Order number	C*
A	B	C		m³/h*	l/min*				
mm	mm	mm	(m³/h)			G	mbar		

Low pressure regulator made of SST, supply pressure max. 15 bar, non-relieving diaphragm NBR/Buna-N with PTFE coating, FKM o-ring **R3100**

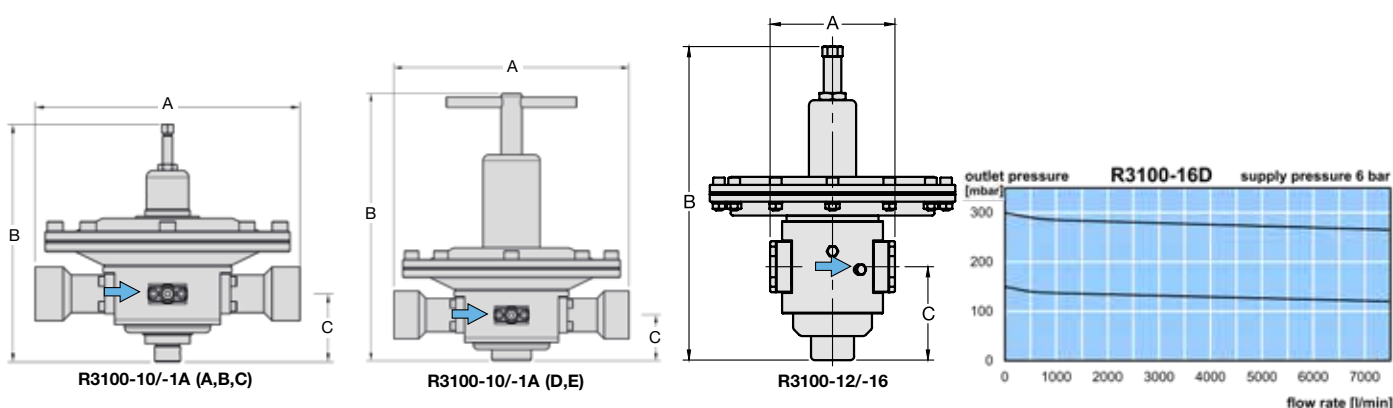
265	234	69	1.4	84	1400	G1¼	5 ... 45	R3100-10A
							10 ... 120	R3100-10B
							10 ... 400	R3100-10C
265	296	53	8.4	576	9600		15 ... 700	R3100-10D
							200 ... 1200	R3100-10E
265	234	69	1.4	84	1400	G1½	5 ... 45	R3100-1AA
							10 ... 120	R3100-1AB
							10 ... 400	R3100-1AC
265	296	53	8.4	576	9600		15 ... 700	R3100-1AD
							200 ... 1200	R3100-1AE
171	431	97	6.2	420	7000	G1½	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	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



R3100-10/-1A

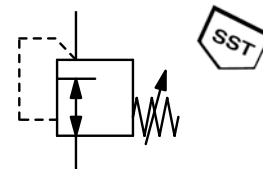


R3100-12/-16



*1 at 6 bar supply pressure and max. outlet pressure

Description	Precision low pressure regulator with large diaphragm, completely made of stainless steel.		
Media	compressed air or gases		
Supply pressure	max. 15 bar, min. 1 bar		
Air consumption	without constant bleed		
Adjustment	by adjusting screw		
Relieving function	non-relieving		
Gauge port	G¼ 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		



G¼ up to G2
5 ... 45/1500 mbar

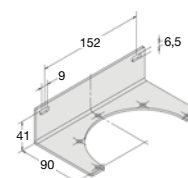
Dimensions			K _v - value	Flow rate	Connection- thread	Pressure range	Order number	C*
A	B	C						
mm	mm	mm	(m³/h)	m³/h*1 l/min*1	G	mbar		

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	according to EN-1092-1 or ASME B16.5 on request	R3100- ... F

Accessories, enclosed

pressure gauge	Ø 63 mm, 0... ^{*3} mbar, G¼, capsule type	up to 600 mbar	MS6302- ...^{*3}
	Ø 63 mm, 0... ^{*4} bar, G¼, Bourdon tube	from 1 bar on	MS6302- ...^{*4}
mounting bracket		for G¼ to G½	BW00-26S



BW00-26S

*1 at 6 bar supply pressure and max. 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

