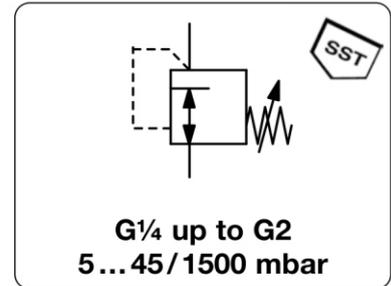


# R3100 - Mano-détendeur basse pression en acier inoxydable, compatible avec air, ammoniacque, CO<sub>2</sub>, argon, azote, hélium, hydrogène, méthane, gaz naturel, etc...

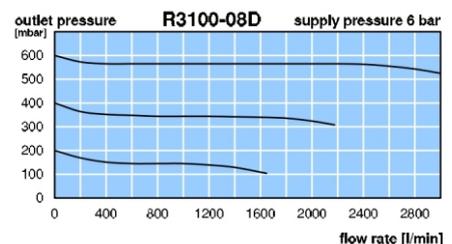
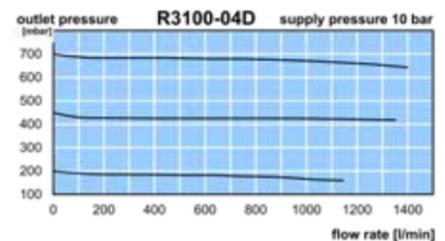
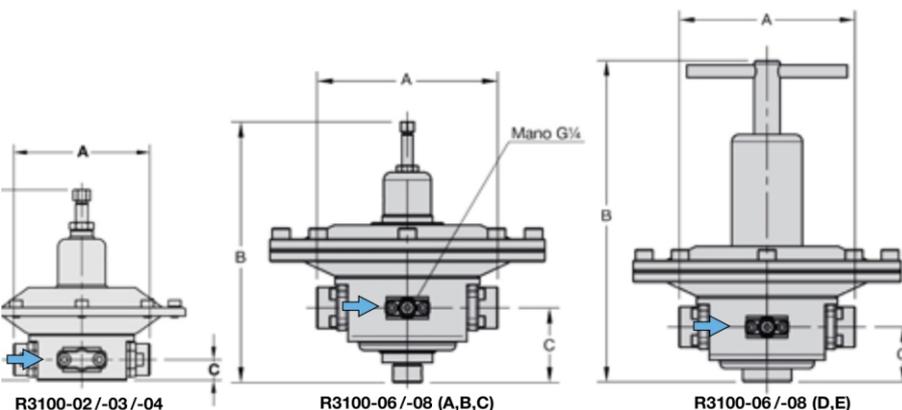
<b>Description</b>	Precision low pressure regulator with large diaphragm, completely made of stainless steel.	
<b>Media</b>	compressed air or gases	
<b>Supply pressure</b>	see table, max. 10 bar, min. 1 bar	
<b>Air consumption</b>	without constant bleed	
<b>Adjustment</b>	by adjusting screw	
<b>Relieving function</b>	non-relieving	
<b>Gauge port</b>	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied	
<b>Mounting position</b>	any	
<b>Temperature range</b>	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	
<b>Material</b>	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 <sub>v</sub> -value (m <sup>3</sup> /h)	Flow rate m <sup>3</sup> /h*1	Flow rate l/min*1	Supply pressure max. bar	Connection- thread G	Pressure range mbar	Order number
A	B	C							



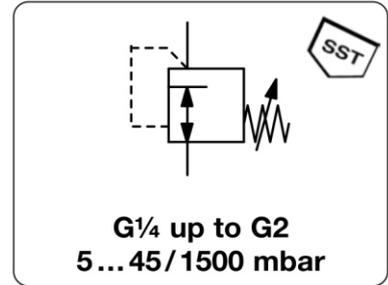
Low pressure regulator									
made of SST, supply pressure max. 6/7/10 bar, non-relieving diaphragm NBR/Buna-N with PTFE coating, FKM o-ring									
A	B	C	K <sub>v</sub>	Flow rate	Flow rate	Supply pressure	Connection- thread	Pressure range	Order number
109	181	39	1.4	84	1400	10	G $\frac{1}{4}$	5... 45 10... 400 20... 1000 50... 1500	<b>R3100-02A</b> <b>R3100-02C</b> <b>R3100-02D</b> <b>R3100-02E</b>
109	181	39	1.4	84	1400	10	G $\frac{3}{8}$	5... 45 10... 400 20... 1000 50... 1500	<b>R3100-03A</b> <b>R3100-03C</b> <b>R3100-03D</b> <b>R3100-03E</b>
109	181	39	1.4	84	1400	10	G $\frac{1}{2}$	5... 45 10... 400 20... 1000 50... 1500	<b>R3100-04A</b> <b>R3100-04C</b> <b>R3100-04D</b> <b>R3100-04E</b>
161	234	69	1.4	84	1400	7	G $\frac{3}{4}$	5... 45 10... 120 10... 400	<b>R3100-06A</b> <b>R3100-06B</b> <b>R3100-06C</b>
161	296	53	8.4	576	9600			15... 700 200... 1200	<b>R3100-06D</b> <b>R3100-06E</b>
161	234	69	1.4	84	1400	7	G1	5... 45 10... 120 10... 400	<b>R3100-08A</b> <b>R3100-08B</b> <b>R3100-08C</b>
161	296	53	8.4	576	9600			15... 700 200... 1200	<b>R3100-08D</b> <b>R3100-08E</b>



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

# R3100 - Mano-détendeur basse pression en acier inoxydable, compatible avec air, ammoniacque, CO2, argon, azote, hélium, hydrogène, méthane, gaz naturel, etc...

<b>Description</b>	Precision low pressure regulator with large diaphragm, completely made of stainless steel.	
<b>Media</b>	compressed air or gases	
<b>Supply pressure</b>	see table, max. 10 bar, min. 1 bar	
<b>Air consumption</b>	without constant bleed	
<b>Adjustment</b>	by adjusting screw	
<b>Relieving function</b>	non-relieving	
<b>Gauge port</b>	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied	
<b>Mounting position</b>	any	
<b>Temperature range</b>	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	
<b>Material</b>	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 <sub>v</sub> -value	Flow rate		Supply pressure max. bar	Connection-thread G	Pressure range mbar	Order number
A	B	C		m <sup>3</sup> /h*	l/min*				

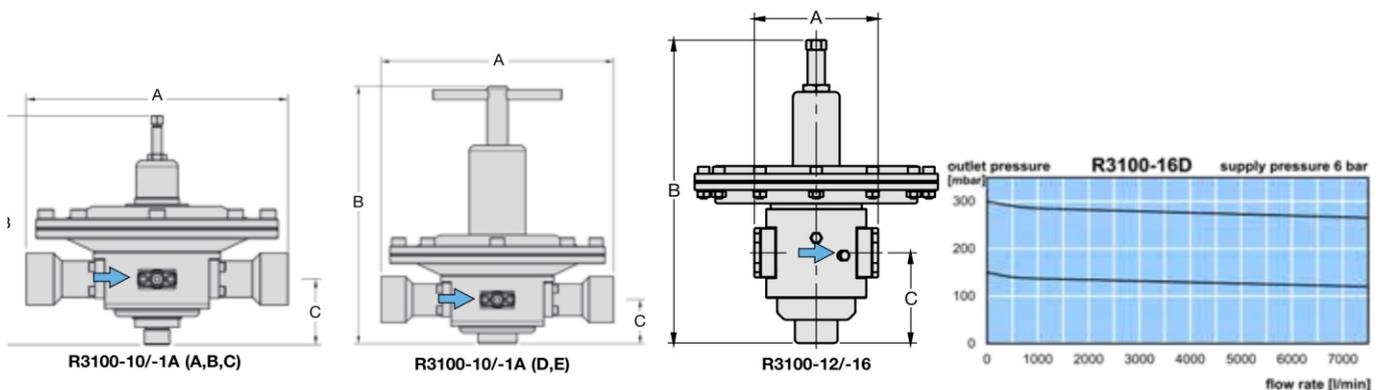


R3100-10/-1A



R3100-12/-16

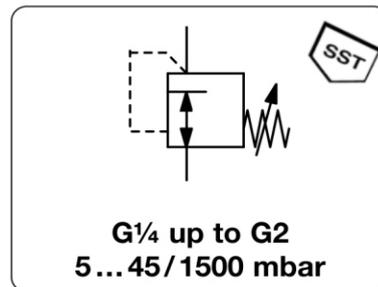
Low pressure regulator									
made of SST, supply pressure max. 6/7 bar, non-relieving diaphragm NBR/Buna-N with PTFE coating, FKM o-ring									
R3100									
265	234	69	1.4	84	1400	7	G $\frac{1}{4}$	5... 45	R3100-10A
								10... 120	R3100-10B
								10... 400	R3100-10C
265	296	53	8.4	576	9600			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 max. outlet pressure

# R3100 - Mano-détendeur basse pression en acier inoxydable, compatible avec air, ammoniacque, CO<sub>2</sub>, argon, azote, hélium, hydrogène, méthane, gaz naturel, etc...

<b>Description</b>	Precision low pressure regulator with large diaphragm, completely made of stainless steel.	
<b>Media</b>	compressed air or gases	
<b>Supply pressure</b>	max. 7 bar, min. 1 bar	
<b>Air consumption</b>	without constant bleed	
<b>Adjustment</b>	by adjusting screw	
<b>Relieving function</b>	non-relieving	
<b>Gauge port</b>	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied	
<b>Mounting position</b>	any	
<b>Temperature range</b>	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	
<b>Material</b>	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



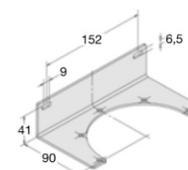
Dimensions			K <sub>v</sub> -	Flow	Supply	Connection-	Pressure	Order
A	B	C	value	rate	pressure	thread	range	number
mm	mm	mm	(m <sup>3</sup> /h)	m <sup>3</sup> /h*1	l/min*1	max. bar	G	mbar

## Special options, add the appropriate letter

<b>NPT</b>	connection thread	R3100-... <b>N</b>
<b>EPDM o-ring</b>		R3100-... <b>E</b>
<b>EPDM o-ring</b>	FDA-approval	R3100-... <b>TD</b>
<b>down to -40 °C/-40 °F</b>	low temperature version	R3100-... <b>X51</b>
<b>up to 130 °C/266 °F</b>	high temperature version	R3100-... <b>X54</b>
<b>ammonia</b>	NH <sub>3</sub>	R3100-... <b>02</b>
<b>carbon dioxide</b>	CO <sub>2</sub>	R3100-... <b>03</b>
<b>argon</b>	Ar	R3100-... <b>05</b>
<b>nitrogen</b>	N <sub>2</sub>	R3100-... <b>07</b>
<b>helium</b>	He	R3100-... <b>09</b>
<b>hydrogen</b>	H <sub>2</sub>	R3100-... <b>11</b>
<b>methane</b>	CH <sub>4</sub>	R3100-... <b>13</b>
<b>natural gas *2</b>		R3100-... <b>14</b>
<b>oxygen</b>	O <sub>2</sub>	R3100-... <b>15</b>
<b>propane</b>	C <sub>3</sub> H <sub>8</sub>	R3100-... <b>16</b>
<b>nitrous oxide</b>	N <sub>2</sub> O	R3100-... <b>17</b>
<b>flange connection</b>	according to EN-1092-1 or ASME B16.5 on request	R3100-... <b>F.s.</b>

## Accessories, enclosed

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



**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