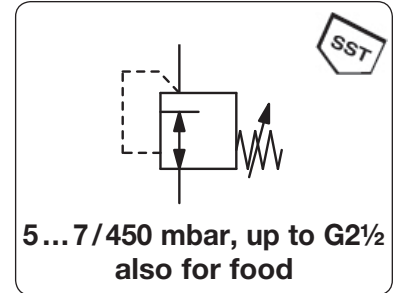


# Low Pressure Regulator Made of Stainless Steel, Suitable for Pharmacy R74

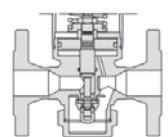
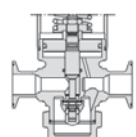
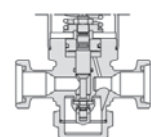
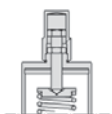
<b>Description</b>	Diaphragm-operated pressure regulator completely made of stainless steel for very low outlet pressure, independent of inlet pressure.		
<b>Note</b>	It is recommended to select an outlet diameter at least one time larger than the main valve's diameter. Mounting position with spring cage downward at pressure range < 100 mbar.		
<b>Media</b>	compressed air or gases		
<b>Supply pressure</b>	max. 25 bar at R74-02 to -A8,	max. 16 bar at R74-08/16	
<b>Adjustment</b>	by T-handle with locknut		
<b>Relieving function</b>	non-relieving		
<b>Gauge port</b>	G $\frac{1}{4}$ on both sides of the body	<b>Mounting position</b>	spring cage downward
<b>Temperature range</b>	0 °C to 140 °C / 32 °F to 284 °F for EPDM, steamable		
<b>Material</b>	Body: stainless steel 1.4301, optionally 1.4435	Spring cage: stainless steel 1.4301	
	Diaphragm: EPDM	Seals: EPDM	O-rings: EPDM



Dimensions			Nominal K <sub>v</sub> -	Flow rate		Connection	Diaphr.	P <sub>1</sub>	Pressure	Order
A	B	C	size	air	water	thread	Ø mm	< bar	range	number
mm	mm	mm	DN	(m <sup>3</sup> /h)	l/min*1	G			mbar	

## Low pressure regulator supply pressure max. 16 / 25 bar, non-relieving, without constant bleed **R74**

70	368	48	8	1.2	30	1.8	G $\frac{1}{4}$	405	0.5	5 ... 9	<b>R74-02A</b>
									0.5	8 ... 15	<b>R74-02B</b>
									0.5	14 ... 28	<b>R74-02C</b>
							R74-03 for G $\frac{3}{8}$	310	0.8	25 ... 33	<b>R74-02D</b>
									1.2	28 ... 56	<b>R74-02E</b>
							R74-A4 for G $\frac{1}{2}$	235	1.5	50 ... 74	<b>R74-02F</b>
									2.0	60 ... 120	<b>R74-02G</b>
								190	4.0	100 ... 150	<b>R74-02H</b>
									25	130 ... 266	<b>R74-02I</b>
									25	230 ... 450	<b>R74-02K</b>
70	368	48	10	2.0	30	1.8	G $\frac{3}{8}$	...	...	...	<b>R74-03 .</b>
70	368	48	15	2.2	30	1.8	G $\frac{1}{2}$	...	...	...	<b>R74-A4 .</b>
90	368	58	15	3.0	120	7.2	G $\frac{1}{2}$	405	0.5	5 ... 8	<b>R74-04A</b>
									0.5	8 ... 15	<b>R74-04B</b>
									0.5	13 ... 27	<b>R74-04C</b>
							R74-06 for G $\frac{3}{4}$	310	0.8	25 ... 32	<b>R74-04D</b>
									1.2	27 ... 54	<b>R74-04E</b>
							R74-A8 for G1	235	1.5	50 ... 70	<b>R74-04F</b>
									2.0	60 ... 100	<b>R74-04G</b>
								190	4.0	100 ... 140	<b>R74-04H</b>
									25	130 ... 250	<b>R74-04I</b>
									25	220 ... 400	<b>R74-04K</b>
90	368	58	20	3.2	120	7.2	G $\frac{3}{4}$	...	...	...	<b>R74-06 .</b>
90	368	58	25	3.5	120	7.2	G1	...	...	...	<b>R74-A8 .</b>
105	388	68	25	6.3	370	22	G1	405	0.5	5 ... 8	<b>R74-08A</b>
									0.5	7 ... 14	<b>R74-08B</b>
									0.5	13 ... 25	<b>R74-08C</b>
							R74-12 for G1 $\frac{1}{2}$	310	0.8	25 ... 30	<b>R74-08D</b>
									1.2	28 ... 50	<b>R74-08E</b>
								235	1.4	50 ... 65	<b>R74-08F</b>
									2.0	60 ... 110	<b>R74-08G</b>
								190	5.0	100 ... 140	<b>R74-08H</b>
									16	120 ... 230	<b>R74-08I</b>
									16	210 ... 400	<b>R74-08K</b>
105	388	68	32	6.5	370	22	G1 $\frac{1}{4}$	...	...	...	<b>R74-10 .</b>
105	388	68	40	6.7	370	22	G1 $\frac{1}{2}$	...	...	...	<b>R74-12 .</b>

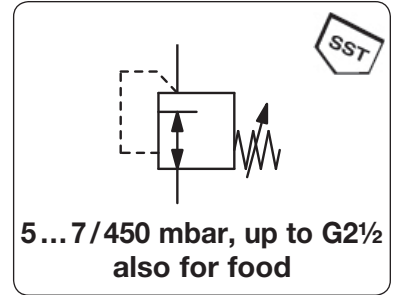


\*1 at 10 m/s flow velocity  
\*2 at 1.5 m/s flow velocity

# Low Pressure Regulator Made of Stainless Steel, Suitable for Pharmacy R74

## Pharmacy and food-safe version

<b>Description</b>	The pharmacy version (option P) standard design is completely made of stainless steel, independent of inlet pressure, sealed at zero consumption, with EPDM and steamable up to 140 °C / 284 °F. Media contact parts have roughness of $R_a < 2.6 \mu\text{m}$ .				
<b>Special options</b>	Add the appropriate letter to the order number:				
<b>Outer surface</b>	Valve body: electropolished	<b>FA</b>	glass bead shot-peened	<b>FC</b>	
	Complete valve: electropolished	<b>FB</b>	glass bead shot-peened	<b>FD</b>	ground/polished $R_a 1.2 \mu\text{m}$
<b>Inner surface</b>	Valve body: $R_a < 2.0 \mu\text{m}$		glass bead shot-peened	<b>GA</b>	
	Media contact parts: $R_a < 1.6 \mu\text{m}$	<b>GB</b>	$R_a < 0.8 \mu\text{m}$	<b>GC</b>	$R_a < 0.5 \mu\text{m}$
<b>Connection</b>	Aseptic flange as per DIN 11864-2	<b>F(AS)</b>	as per APV	<b>F(APV)</b>	
	Flange as per DIN 2633 (PN16)	<b>F</b>	as per ANSI B16.5 150 lbs	<b>F150lbs</b>	
	Threaded connection as per DIN 11851	<b>GA</b>			
	Clamp fittings as per DIN 32676	<b>CL</b>			



Dimensions			Nominal $K_v$ -	Flow rate		Connection	Diaphr.	$P_1$	Pressure	Order
A	B	C	size	value	air	water	thread	recommended	range	number
mm	mm	mm	DN	( $\text{m}^3/\text{h}$ )	$\text{l}/\text{min}^{*1}$	$\text{l}/\text{min}^{*2}$	G	$\varnothing$ mm	< bar	mbar

Low pressure regulator										supply pressure max. 16 / 25 bar, non-relieving, without constant bleed	R74
145	435	85	50	13.0	1350	81	G2*	405	0.5	5... 7	R74-16A
									0.5	7... 14	R74-16B
									0.5	12... 24	R74-16C
									0.8	21... 26	R74-16D
								310	1.2	25... 28	R74-16E
									2.0	27... 45	R74-16F
									3.0	42... 50	R74-16G
								235	4.0	50... 63	R74-16H
									16	60... 110	R74-16I
									16	100... 180	R74-16K
									16	160... 300	R74-16L
145	435	85	40	12.5	1350	81	G1 1/2	...	...	...	R74-B2.
145	435	85	65	13.5	1350	81	G2 1/2	...	...	...	R74-20.



R74-08IF



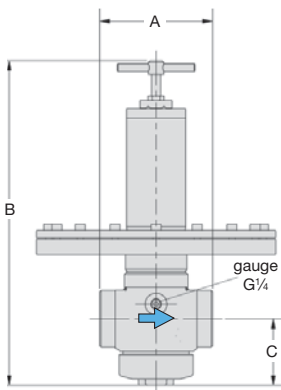
R74-16A

## Special options, add the appropriate letter

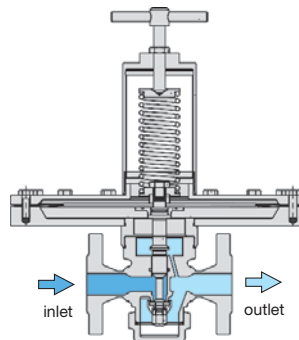
<b>NPT</b>	connection thread	R74-...N
<b>stainless steel 1.4435</b>	housing 1.4435, spring cage 1.4301 for $G^{3/8}$ up to G1	R74-...S
<b>tamper-proof cap</b>	adjustment by spanner, height 40 mm lower	R74-...T
<b>drainage</b>	through bottom screw	R74-...U
<b>volume booster</b>	pneumatic pressure setting	R74-...J
<b>other connections</b>	DIN or ANSI flange, threaded connection or clamp fittings	R74-...F.
<b>for pharmacy</b>	forged stainless steel, $R_a < 2.6 \mu\text{m}$ , steamable, EPDM	R74-...P
<b>CIP cleaning</b>	pressure regulator sterilisable and minimal dead spots	R74-...
<b>for food industry</b>	EPDM elastomer with FDA approval	R74-...

## Accessories

<b>pressure gauge</b>	$\varnothing 63$ mm, 0... <sup>*3</sup> mbar, $G^{1/4}$ , capsule type, 0...100 °C/32...212 °F <b>MS6302-..</b> <sup>*3</sup>
	for other requirements on request



R74



cross-section

\*1 at 10 m/s flow velocity

\*2 at 1.5 m/s flow velocity

\*3 B2 = 0...25 mbar, B6 = 0...60 mbar, C1 = 0...100 mbar, C3 = 0...250 mbar, C4 = 0...400 mbar, C6 = 0...600 mbar

Gauges: see chapter for measuring devices

PDF CAD  
www.aircom.net



Order example:  
R74-16A