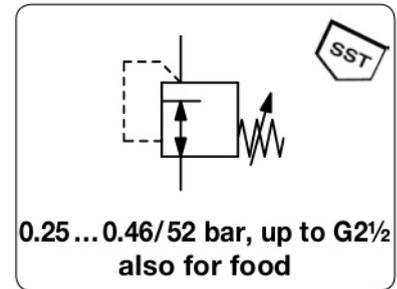


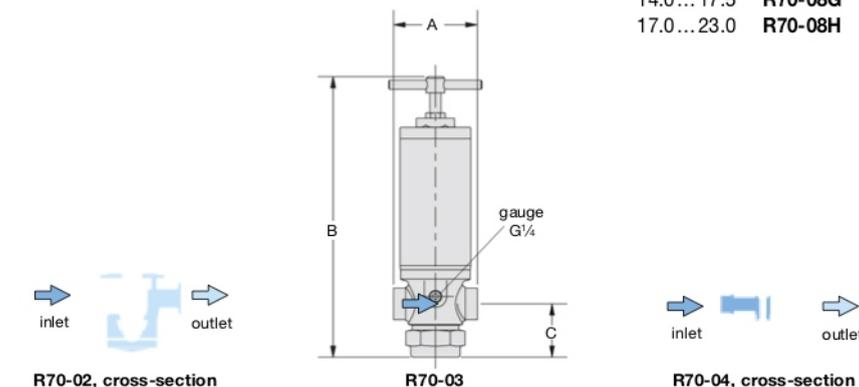
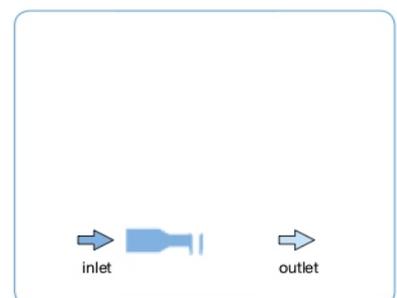
R70 - Régulateur de pression, à piston, adapté au milieu pharmaceutique, en acier inoxydable, pour air, gaz, liquides ou vapeur

Description	Piston-operated pressure regulator made of stainless steel up to pressure range of 52 bar, independent of inlet pressure.	
Note	It is recommended to select an outlet diameter at least one time larger than the main valve's diameter.	
Media	compressed air, gases, liquids or steam (R70-02 not suitable for steam)	
Supply pressure	max. 16 bar at R70-02,	max. 40 bar at R70-16/-20,
Adjustment	max. 63 bar at R70-03/-06 to -12,	max. 100 bar at R70-04
Relieving function	by wing screw at R70-02,	with locknut
Gauge port	by T-handle at R70-03 to -20,	with locknut
Temperature range	non-relieving	
Material	G $\frac{1}{4}$ on both sides of the body	
	0 °C to 140 °C / 32 °F to 284 °F, EPDM, steamable,	Mounting position any
	0 °C to 150 °C / 32 °F to 302 °F, PTFE/EPDM for steam	
	0 °C to 200 °C / 32 °F to 302 °F, PTFE/AF100/EPDM, for steam	
	Body: stainless steel 1.4301 or 1.4571 (R70-02), optionally 1.4435	
	Spring cage: stainless steel 1.4301	Diaphragm: EPDM
	Seals: EPDM, optionally PTFE	O-rings: EPDM



Dimensions	Nominal size	K _v -value	Flow rate	Connection	P ₁ max.	Pressure range	Order number
A B C	DN	(m ³ /h)	air water	thread	bar	bar	
mm mm mm			l/min*1 l/min*2	G			

SST pressure regulator							supply pressure max. 16/63/100 bar, non-relieving, for compressed air, gas, water, steam*3		R70	
58	185	36	8	0.63	24	3	G $\frac{1}{4}$	16	1.0 ... 2.0	R70-02A
									2.0 ... 4.0	R70-02B
									2.5 ... 5.0	R70-02C
									3.5 ... 7.0	R70-02D
70	253	48	10	2.0	55	6	G $\frac{3}{8}$	**	0.5 ... 1.2	R70-03A
									0.9 ... 1.8	R70-03B
									1.6 ... 3.2	R70-03C
									3.3 ... 6.5	R70-03D
									5.0 ... 10.0	R70-03E
									10.0 ... 17.0	R70-03F
90	333	58	15	3.0	120	15	G $\frac{1}{2}$	**	0.6 ... 1.2	R70-040
									1.0 ... 2.0	R70-04A
									1.5 ... 3.0	R70-04B
									2.7 ... 5.0	R70-04C
									4.3 ... 8.5	R70-04D
									8.5 ... 17.0	R70-04E
									15.0 ... 25.0	R70-04F
									25.0 ... 38.0	R70-04G
									38.0 ... 53.0	R70-04H
90	333	58	20	3.2	200	25	G $\frac{3}{4}$	**	0.6 ... 1.2	R70-060
									1.0 ... 2.0	R70-06A
									1.5 ... 3.0	R70-06B
									2.7 ... 5.0	R70-06C
									4.3 ... 8.5	R70-06D
									8.5 ... 17.0	R70-06E
									15.0 ... 25.0	R70-06F
									25.0 ... 38.0	R70-06G
									38.0 ... 53.0	R70-06H
105	368	68	25	6.3	350	45	G1	**	0.5 ... 1.1	R70-08A
									1.2 ... 2.4	R70-08B
									2.0 ... 4.2	R70-08C
									4.0 ... 8.0	R70-08D
									8.0 ... 11.5	R70-08E
									11.0 ... 14.2	R70-08F
									14.0 ... 17.5	R70-08G
									17.0 ... 23.0	R70-08H



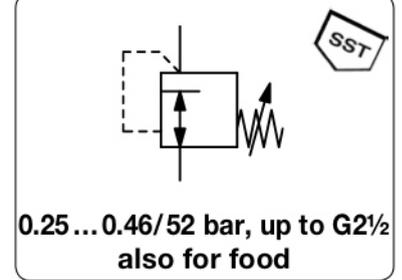
*1 at flow velocity 10 m/s
*2 at 2.5 m/s

*3 not for R70-02
*4 P₁ max. = P₂ max. + 25 bar

R70 - Régulateur de pression, à piston, adapté au milieu pharmaceutique, en acier inoxydable, pour air, gaz, liquides ou vapeur

Pharmacy and food-safe version

Description	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 $R_a < 2.6 \mu\text{m}$.				
Special options	Add the appropriate letter to the order number:				
Outer surface	Valve body: electropolished	FA	glass bead shot-peened	FC	
	Complete valve: electropolished	FB	glass bead shot-peened	FD	ground/polished $R_a 1.2 \mu\text{m}$
Inner surface	Valve body: $R_a < 2.0 \mu\text{m}$		glass bead shot-peened	GA	
	Media contact parts: $R_a < 1.6 \mu\text{m}$	GB	$R_a < 0.8 \mu\text{m}$	GC	$R_a < 0.5 \mu\text{m}$
Connection	Aseptic flange as per DIN 11864-2	F(AS)	as per APV	F(APV)	
	Flange as per DIN 2633 (PN16)	F	as per ANSI B16.5 150 lbs	F150lbs	
	Threaded connection as per DIN 11851	GA			
	Clamp fittings as per DIN 32676	CL			



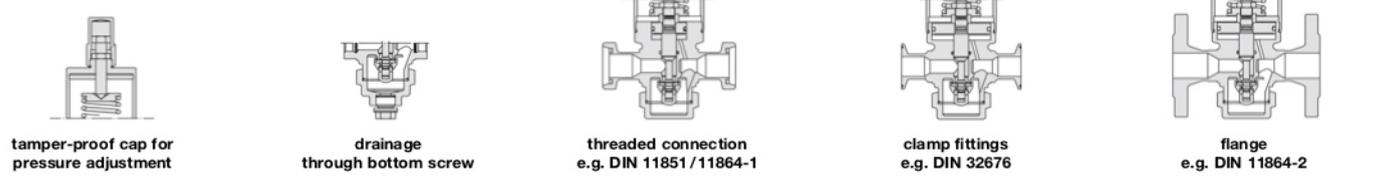
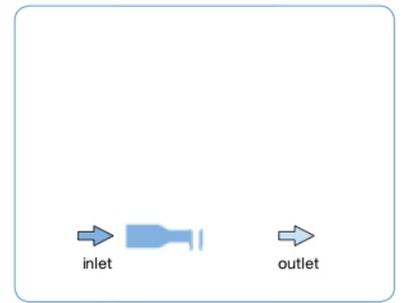
Dimensions	Nominal size	K_v -value	Flow rate	Connection	P_1	Pressure range	Order number
A B C	DN	(m³/h)	air water	thread	max. bar	bar	number
mm mm mm			l/min*1 l/min*2	G			

SST pressure regulator							supply pressure max. 16/63/100 bar, non-relieving, for compressed air, gas, water, steam*3		R70	
145	410	85	40	12.5	900	120	G1½	**	1.0 ... 2,2	R70-12A
									1.9 ... 3,5	R70-12B
									3.5 ... 4,3	R70-12C
									4.0 ... 6,7	R70-12D
									6.0 ... 8,8	R70-12E
									8.0 ... 12,3	R70-12F
									11.0 ... 17,0	R70-12G
145	410	85	50	13.0	1300	160	G2	**	1.0 ... 2,2	R70-16A
									1.9 ... 3,5	R70-16B
									3.5 ... 4,3	R70-16C
									4.0 ... 6,7	R70-16D
									6.0 ... 8,8	R70-16E
									8.0 ... 12,3	R70-16F
									11.0 ... 17,0	R70-16G
220	685	145	65	28.0	3200	420	G2½	**	0.25 ... 0.46	R70-20A
									0.5 ... 1.1	R70-20B
									1.2 ... 2.4	R70-20C
									2.5 ... 5.5	R70-20D
									4.5 ... 9.1	R70-20E
									6.0 ... 12.0	R70-20F



Special options,	add the appropriate letter	
NPT	connection thread	R70-...N
stainless steel 1.4435 up to 150 °C / 302 °F up to 200 °C / 392 °F	housing 1.4435, spring cage 1.4301 for G¾ up to G1	R70-...S
tamper-proof cap drainage	PTFE seals	R70-...X55
volume booster	PTFE / AF100 seals	R70-...X56
other connections for pharmacy for food industry	adjustment by spanner, height 35 mm lower through bottom screw	R70-...T
	pneumatic pressure setting	R70-...U
	DIN or ANSI flange, threaded connection or clamp fittings	R70-...J
	forged stainless steel, $R_a < 2.6 \mu\text{m}$, steamable, EPDM	R70-...F.
	EPDM elastomer with FDA approval	R70-...P
		R70-...

Accessories, enclosed		
pressure gauge	Ø 63 mm, 0 ... *3 bar, G¼ for other requirements on request	MS6302-...*3



*1 at flow velocity 10 m/s
*2 at 2.5 m/s
*3 02 = 0...2.5 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 25 = 0...25 bar, 60 = 0...60 bar
*4 $P_1 \text{ max.} = P_2 \text{ max.} + 25 \text{ bar}$