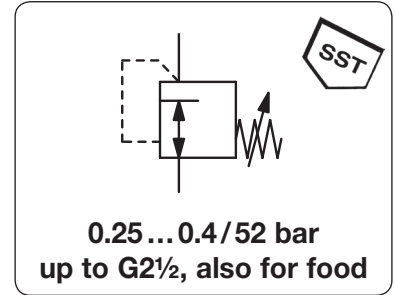
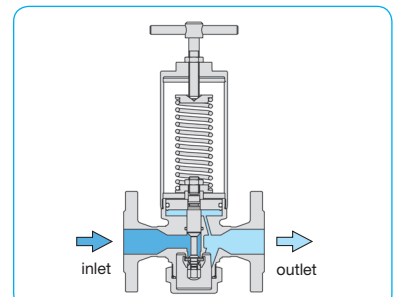
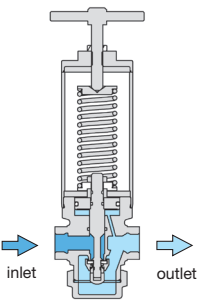
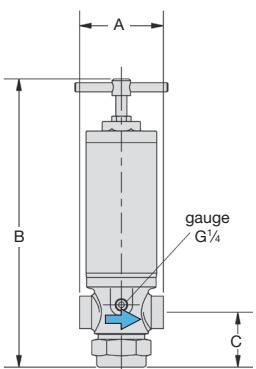
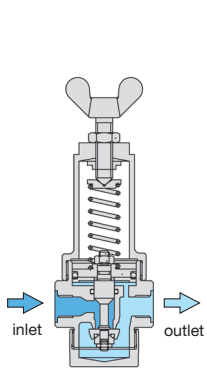


<b>Description</b>	Piston-operated pressure regulator made of stainless steel up to pressure range of 52 bar, independent to inlet pressure.	
<b>Note</b>	It is recommended to select an outlet diameter at least one time larger than the main valve's diameter.	
<b>Media</b>	compressed air, gases, liquids or steam (R70-02 not suitable for steam)	
<b>Supply pressure</b>	max. 16 bar at R70-02,	max. 40 bar at R70-16/-20,
<b>Adjustment</b>	max. 63 bar at R70-03/-06 to -12,	max. 100 bar at R70-04
	by wing screw at R70-02,	with locknut
	by T-handle at R70-03 to -20,	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> any
<b>Temperature range</b>	0 °C to 140 °C / 32 °F to 284 °F, EPDM, steamable, 0 °C to 150 °C / 32 °F to 302 °F, PTFE/EPDM for steam 0 °C to 200 °C / 32 °F to 392 °F, PTFE/AF100/EPDM, for steam	
<b>Material</b>	Body: stainless steel 1.4301 or 1.4571 (R70-02), optionally 1.4435	Diaphragm: EPDM
	Spring cage: stainless steel 1.4301	O-rings: EPDM
	Seals: EPDM, optionally PTFE	



Dimensions			Nominal size	K <sub>v</sub> value	Flow rate		Connection thread	Supply max.	Pressure range	Order number
A	B	C	DN	(m <sup>3</sup> /h)	Air l/min*1	Water l/min*2	G	bar	bar	

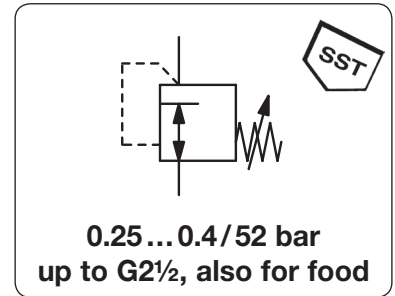
SST pressure regulator										supply max. 16 / 63 / 100 bar, non-relieving for compressed air, gas, water and steam*3		R70
58	185	36	8	0.63	24	3	G $\frac{1}{4}$	16	1.0 ... 1.7	1.7 ... 3.3	2.8 ... 5.6	R70-02A
											3.5 ... 6.2	R70-02B
												R70-02C
												R70-02D
70	253	48	10	2.0	55	6	G $\frac{3}{8}$	*4	0.4 ... 0.9	0.8 ... 1.7	1.5 ... 3.1	R70-03A
												R70-03B
												R70-03C
												R70-03D
												R70-03E
												R70-03F
90	333	58	15	3.0	120	15	G $\frac{1}{2}$	*4	0.5 ... 0.94	1.0 ... 2.4	2.6 ... 5.3	R70-04A
												R70-04B
												R70-04C
												R70-04D
												R70-04E
												R70-04F
												R70-04G
90	333	58	20	3.2	200	25	G $\frac{3}{4}$	*4	0.5 ... 0.94	1.0 ... 2.4	2.6 ... 5.3	R70-06A
												R70-06B
												R70-06C
												R70-06D
												R70-06E
												R70-06F
												R70-06G
105	368	68	25	6.3	350	45	G1	*4	0.4 ... 0.8	1.0 ... 2.0	1.7 ... 3.5	R70-08A
												R70-08B
												R70-08C
												R70-08D
												R70-08E
												R70-08F



\*1 at flow velocity 10 m/s  
\*2 at 2.5 m/s  
\*3 not for R70-02  
\*4 P<sub>1</sub> max. = P<sub>2</sub> max. + 25 bar

### Pharmacy and food-safe version

<b>Description</b>	The pharmacy version (option <b>P</b> ) 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>FE</b>
<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>GD</b>
<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 size	$K_v$ value	Flow rate		Connection thread	Supply max.	Pressure range	Order number
A	B	C	DN	(m <sup>3</sup> /h)	Air l/min*1	Water l/min*2	G	bar	bar	

SST pressure regulator										supply pressure max. 40 / 63 bar, non-relieving, without constant bleed	R70
145	410	85	40	12.5	900	120	G1½	*4	1.0 ... 2.0	R70-12A	
									1.6 ... 3.2	R70-12B	
									2.4 ... 4.8	R70-12C	
									4.8 ... 9.6	R70-12D	
									9.5 ... 19	R70-12E	
145	410	85	50	13.0	1300	160	G2	*4	1.0 ... 2.0	R70-16A	
									1.6 ... 3.2	R70-16B	
									2.4 ... 4.8	R70-16C	
									4.8 ... 9.6	R70-16D	
									9.5 ... 19	R70-16E	
220	685	145	65	28.0	3200	420	G2½	*4	0.25 ... 0.4	R70-20A	
									0.5 ... 1.1	R70-20B	
									1.3 ... 2.6	R70-20C	
									2.8 ... 5.6	R70-20D	
									6.0 ... 12	R70-20E	

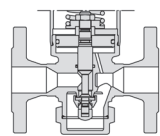
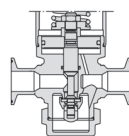
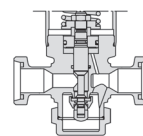
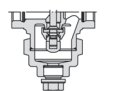
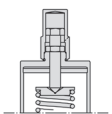
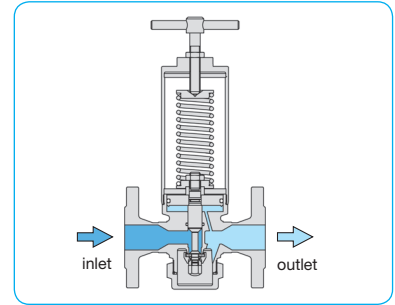


### Special options, add the appropriate letter

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

### Accessories, enclosed

<b>pressure gauge</b>	Ø 63 mm, 0...*3 bar, G¼ for other requirements on request	<b>MS6302-..*3</b>
-----------------------	--	--------------------



\*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<sub>1</sub> max. = P<sub>2</sub> max. + 25 bar