# DATA SHEET

# T 2570 EN



# Spare parts and accessories · Self-operated regulators for cryogenic media

Connecting components · Non-return units · Service kits · Conversion kits · Others

### **Application**

Spare parts and accessories for Series 2357 Regulators and Type 2040 Safety Temperature Monitor All parts cleaned and packed in bags to protect them from contamination (free of oil and grease) for oxygen service (provided not labeled otherwise).

SAMSON offers the following spare parts (parts subject to wear) and accessories for the safe and reliable functioning of regulators:

# • Connecting components

Soldering nipples with ball-type bushings including coupling nuts for installation in pipelines. The nipples are soldered at the site of installation.

Welding ends including coupling nuts for installation in pipelines. The welding ends are welded at the site of installation.

## Non-return unit

Prevents the medium from flowing back into the valve.

#### Service kits

Parts subject to wear, e.g. plugs, diaphragms and seals.

#### Conversion kits

Springs, diaphragms or operating bellows to change the set point range of regulators.

## Others

Filters, accessories to raise the downstream pressure, caps etc.

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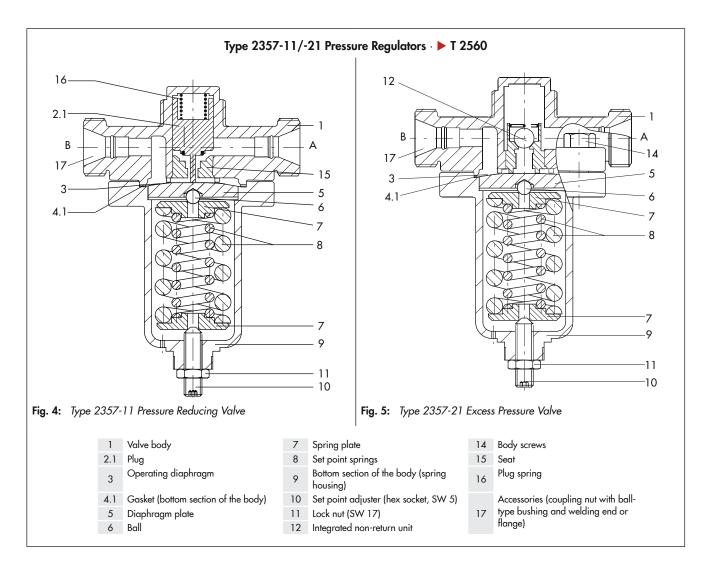
#### Type 2357-1/-2 Pressure Regulators · ▶ T 2557 4.2 2.1 13 3 В 17 17 -13 4.1 -5 6 8 9 7 11 -11 10 10 Fig. 2: Type 2357-1 Pressure Build-up Regulator or Pressure Reducing Fig. 3: Type 2357-2 Excess Pressure Valve (PN 50) Valve (PN 50) 1 Valve body 4.2 Seal (top section of body) 8 Set point springs 12 Non-return unit (accessories) 5 Diaphragm plate 2.1 Plug 9 Bottom section of the housing 13 Filter 6 Ball 10 Set point adjuster (hex socket, SW 5) 3 Operating diaphragm 16 Plug spring Gasket (bottom section of the Solder nipple with ball-type bushing Spring plate 11 Lock nut (SW 17) 17

(accessories)

**Table 1:** Spare parts and accessories · Type 2357-1/-2

body)

Position	Spare parts/accessories Pressure rating		Order no.				
			PN 40		PN 50		
	Set point range i	n bar	1 to 25	10 to 36	1 to 8	5 to 25	8 to 40
	Number of diaphragms		3	3	3	5	7
4.1 · 8	Conversion kit (set point range)		1402-0716	1402-0717	1402-0720	1402-0721	1402-0722
3	including 10 diaphragms		1400-7625		1400-7622		
	Service kit	including 20 diaphragms	1400	1400-7626 1400-7623			
4.1	Service kit includ	ing 20 seals	1402-0709 1402-0708		1402-0708	8	
2.1 · 4.2	Conversion kit (plug)		1402-0715 1402-0713		1402-0713	1	
2.1 · 4.2	1 2		-	_	1402-0714		
2.1 · 3 · 4.1 · 4.2	Conversion kit (plug)		-	_	1402-0725		
4.2	Service kit includ	ing 20 seals	1402-1728				
	Non-return unit for Type 2357-2 (used as an economizer)		1402-0703 (Ø15 mm) 1402-0704 (Ø16 mm)				
12	downstream pres	h 1 mm hole to raise the sure (for Type 2357-2), used f (Δp >3 bar; reduction of K <sub>vs</sub> n-return unit	1400-7303 (1x Ø15) 1400-7304 (1x Ø16, standard for Type 2357-2)				
17	Solder nipple		1400-9897 (1× Ø12) 1400-5133 (1× Ø15) 1400-5138 (1× Ø16, standard for Type 2357-2) 1400-5134 (2× Ø15) 1400-5137 (2× Ø16, standard for Type 2357-1)				
	Solder nipple wit	hout coupling nut	1400-9560 (1 x Ø12)				
	Welding ends		1400-9519 (2 x Ø21.3 x 1.6 mm)				
	Filter		1402-2116 (1 x 270 x 10 <sup>-6</sup> m mesh size)				
13	Orifice plate for	Type 2357-1	1400-5130 (Ø4 mm hole, 1x Ø15 mm) 1400-5131 (blank, 1x Ø15 mm)				
6	Ball				1402-0726		



**Table 2:** Spare parts and accessories · Type 2357-11/-21

Position	Spare parts/accessories	Order no.			
	Set point range in bar	1 to 8	5 to 25	8 to 40	
	Pressure rating	PN 63			
	Number of diaphragms · Inside diaphragms made of CuBe · Outer diaphragms made of 1.4404	3	5	7	
4.1 · 8	Conversion kit (set point range)	1402-0720	1402-0721	1402-0722	
3 · 4.1	Service kit with 7 + 2 diaphragms 1)	1402-0649			
4.1	Service kit including 20 seals	1402-0708			
2.1 · 4.2	Conversion kit (plug)	1402-0878			
4.1 · 15	Conversion kit (seat)	1402-0879			
	Screwed-on flanges	1402-0434 (2x DN 25, PN 40) 1402-0594 (2x NPS 1, Class 300)			
	Welding ends	1400-9519 (2x Ø21.3x1.6 mm)			
17	Welding ends (outlet side with 1 mm hole) to raise the downstream pressure (for Type 2357-21), used for pressure relief ( $\Delta p > 3$ bar; reduction of $K_{VS}$ to 0.02)	1402-0514			
	Welding ends (outlet side with 2.5 mm hole) to raise the downstream pressure (for Type 2357-21)	1402-0685 (2x Ø21.3x1.6 mm)			
n. d. <sup>2)</sup>	Cap for leakage line connection	1402-0687			
n. d. <sup>2)</sup>	Service kit including 10 seals for leakage line connection	1402-0880			
6	Ball	1402-0726			

<sup>1)</sup> Application for industrial gases

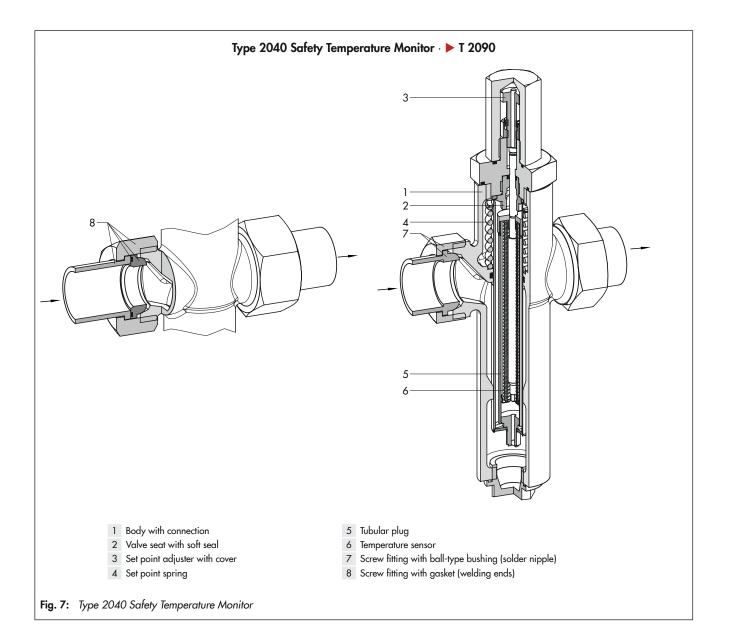
<sup>2)</sup> Not shown

# Type 2357-3 Pressure Build-up Regulator ⋅ ► T 2559 4.2 2.1 13 1 Valve body 2.1 Pressure build-up plug 2.2 Tubular plug 3 Operating bellows 4.1 Seal (body cover) 4.2 Seal (top section of body) 7 Spring plate -2.2 8 Set point springs 9 Body cover 10 Set point adjuster (hex socket, SW 5) 11 Lock nut (SW 17) 12 Non-return unit (accessories) 13 Filter 14 Body screws 16 Closing spring 17 Solder nipple with ball-type bushing (accessories) 10 Fig. 6: Type 2357-3 Pressure Build-up Regulator

**Table 3:** Spare parts and accessories · Type 2357-3

Position	Spare parts/accessories		Order no.		Index 1
	Version with operating bellows	Single wall Single wall		Double wall	
	Set point range in bar	2 to 10	8 to 26	25 to 40	
	Pressure rating		PN 40		
4.1 · 7 · 8	Conversion kit (section A of set point range)	1402-0706	1402-0707	1402-0710	6, 7, 8
3 · 4.1	Conversion kit (section B of set point range)	1402-0711	1402-0711	1402-0712	6, 7, 8
2.1 · 4.2 · 16	Conversion kit (plug) for stainless steel regulators	1402-0872 (process medium in the gas phase)			6
2.1 · 4.2 · 16	Conversion kit (plug) for brass regulators	1402-0925 (process medium in the gas phase) 1402-1831 (liquid phase)			7
4.1	Service kit including 10 seals	1402-1085			All
	Non-return unit for brass regulators	1402-0705			
12	Non-return unit for stainless steel regulators	1402-0718			
13	Filter	1402-2113 (1x 270x10 <sup>-6</sup> m mesh size) 1402-2114 (2x 270x10 <sup>-6</sup> m mesh size · Strainer insert containing non-ferrous metal)			All
	Solder nipple	1402-1053 (2 x Ø28 mm) · 1402-1054 (1 x Ø28 mm) 1400-7091 (1 x Ø18 mm) · 1400-9823 (1 x Ø12 mm)			All
17	Welding ends	1402-1055 (3x Ø18x1.6 mm; for version made of brass) 1402-0550 (3x Ø18x1.6 mm; for stainless steel version) 1402-1256 (2x Ø18x1.6 mm; for ports B and C, stainless steel version as excess pressure valve)			All
	Screwed-on flanges for stainless steel version	1402-0595 (2x NPS 1, Class 300) (2x DN 25, PN 40) on request			All
	Cap for port A	1402-1249			All
	Cap for port C	1400-7297			

<sup>1)</sup> See nameplate (entry according to type designation)



**Table 4:** Spare parts and accessories · Type 2040

Position	Spare parts/accessories			Order no.
	Pressure rating			PN 40
7	Screw fitting with ball-type bushing	Solder nipple	Red brass, DN 25	1400-6840
			Brass, DN 15	1400-9182
		Welding ends	Stainless steel, DN 25	1400-9129
			Stainless steel, DN 15	1400-9183
8	Screw fitting with gasket	Solder nipple	Brass, DN 25	1400-9131
			Brass, DN 15	1400-9130
		Welding ends	Stainless steel, DN 25	1400-9181
			Stainless steel, DN 15	1400-9180