

# 100 kN (S Series)

Maximum operating pressure	70 MPa
Maximum output	100 kN
Cylinder internal diameter	φ 43
Effective area	14.52 cm <sup>2</sup>
Cylinder system	Single-acting
Return system	Spring-return
Coupler connection port size	Rc3/8

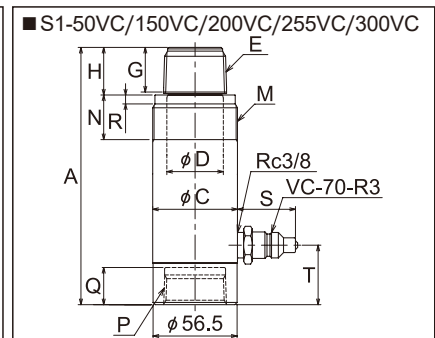
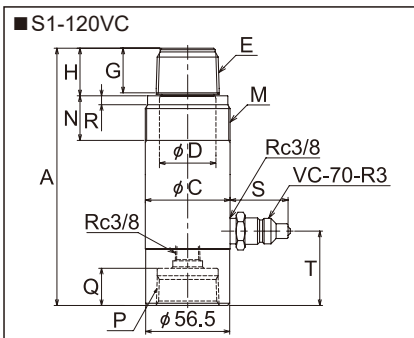
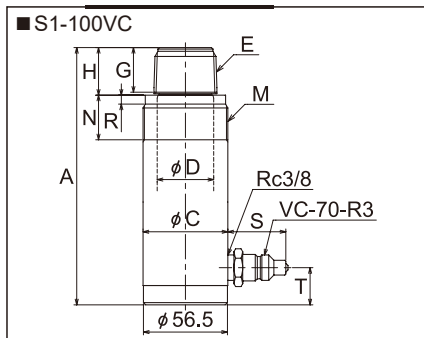
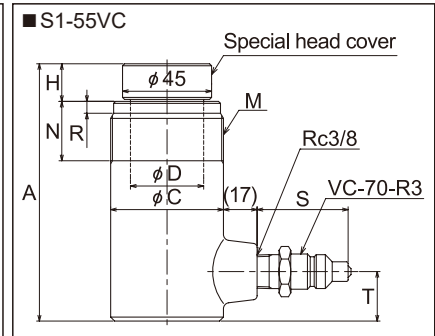
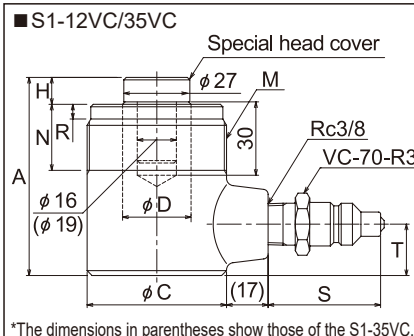
### Model code structure



**S** : Single-acting cylinder S series  
**1** : Maximum output 1 : 100 kN  
**12** : Stroke (mm)  
**VC** : Attached coupler  
 VC : VC-70-R3  
 S : S-1R  
 T : ROC-13R  
 -NC : W/O coupler

• The piston and the inside of the cylinder tube are plated.

👉 For cylinder and pump selections, see page 54.



### Specifications

Model		S1-12	S1-35	S1-55	S1-100	S1-50	S1-120	S1-150	S1-200	S1-255	S1-300	
Stroke	mm	12	35	55	100	50	120	150	200	255	300	
Minimum overall length	A	81	136	130	235	201	280	300	369	414	471	
Cylinder external diameter	φ C	57										
Piston diameter	φ D	28		37	38							
Piston thread size	E	—				1 1/4-11.5NPT						
Piston thread length	G	—				30						
Piston protrusion length	H	11	10	19	32							
Collar thread size	M	2 1/4-14NS										
Collar thread length	N	27	—				30					
Base thread size	P	—				1 1/4-11.5NPT						
Base thread depth	Q	—				25						
Incomplete thread length	R	6										
Coupler protrusion length	VC-70-R3	≈ 46				≈ 39						
	S-1R	≈ 53				≈ 46						
	ROC-13R	≈ 49				≈ 42						
Coupler position	T	21	25	25	25	40	50	40				
Required oil volume	cm <sup>3</sup>	18	51	80	146	73	175	218	291	371	436	
Approx. weight	kg	1.5	2.3	2.1	3.8	3.1	4.4	4.7	5.8	6.5	7.4	

### Compatible attachments

Attachment location	Cylinder parts	S1-12	S1-35	S1-55	S1-100	S1-50	S1-120	S1-150	S1-200	S1-255	S1-300	
Piston thread	Cap	With special head cover				R-10P						
	Piston base	—				RB-10						
	Clevis	—				CLF-10-A (B)						
Collar thread	Flange	10F										
Base thread	Cylinder base	—				CB-10						
	Clevis	—				CLM-10-A (B)						