

TUBE INSTALLATION TOOLS

SPRING BALANCERS



▼ SF SERIES

SF Series balancers are the most widely used model, featuring a fully enclosed design with a body liner to protect the housing.

Note : Other weight options are available upon request.

Model No.	Capacity (kg)	Travel (m)	Weight (kg)
SF-01	0.5~1.5	1.0	1.0
SF-02	1.0~2.0	1.0	1.0
SF-03	1.5~3.0	1.3	1.8
SF-05	3.0~5.0	1.3	1.9
SF-09	4.5~9.0	1.3	4.0
SF-15	9.0~15.0	1.3	4.0
SF-22	15.0~22.0	1.5	8.0
SF-30	22.0~30.0	1.5	9.0
SF-40	30.0~40.0	1.5	10.5
SF-50	40.0~50.0	1.5	11.0
SF-60	50.0~60.0	1.5	12.0
SF-70	60.0~70.0	1.5	12.5

Model No.	Capacity (kg)	Travel (m)	Weight (kg)
-	-	-	-
-	-	-	-
SF-03L	1.5~3.0	2.5	0.75
SF-05L	3.0~5.0	2.5	0.85
SF-09L	4.5~9.0	2.3	8.0
SF-15L	9.0~15.0	2.3	8.0
SF-22L	15.0~22.0	2.3	8.5
SF-30L	22.0~30.0	2.3	9.5
SF-40L	30.0~40.0	2.3	11.0
SF-50L	40.0~50.0	2.3	12.0
SF-60L	50.0~60.0	2.3	13.0
SF-70L	60.0~70.0	2.3	13.5



▼ SA SERIES

These balancers are provisioned with wire arrest mechanism, which locks the drum pulley in case of tool disengagement. These balancers are available in capacity from 9 - 70 Kg, with all SF balancers features included.

Model No.	Capacity (kg)	Travel (m)	Weight (kg)
SA-15	9.0~15.0	1.3	5.5
SA-22	15.0~22.0	1.5	9.5
SA-30	22.0~30.0	1.5	10.0
SA-40	30.0~40.0	1.5	12.5
SA-50	40.0~50.0	1.5	13.0
SA-60	50.0~60.0	1.5	13.5
SA-70	60.0~70.0	1.5	14.0

Model No.	Capacity (kg)	Travel (m)	Weight (kg)
SA-15L	9.0~15.0	2.3	10.0
SA-22L	15.0~22.0	2.3	10.0
SA-30L	22.0~30.0	2.3	11.0
SA-40L	30.0~40.0	2.3	14.5
SA-50L	40.0~50.0	2.3	15.5
SA-60L	50.0~60.0	2.3	16.0
SA-70L	60.0~70.0	2.3	16.5

TUBE INSTALLATION TOOLS

Vacuum Leak Tester

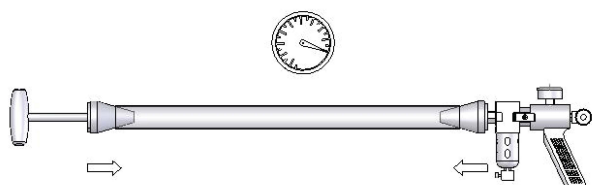
The vacuum tube leak tester is a simple and precise tool used for testing tubes of boilers, condensers and heat exchangers. It is the fastest and most accurate method for locating leaky tubes that require plugging or replacement or installation of new tubes.



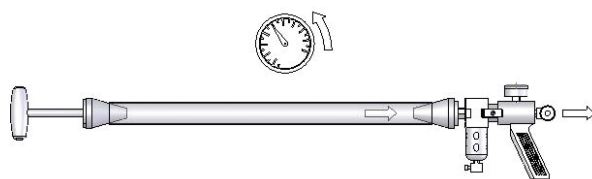
Tube Capacity	I.D. 6.3~76.2mm (1/4"~3")
Max. Vacuum	80%
Air Consumption	26cfm (720 L/min)
Air Pressure Required	90psi (6.0bar)
Temperature Range	-20 to 80°C
Vacuum Pressure	-0.4 to -0.8bar
Dimensions	230x120x170mm
Weight	2kg

Tube Seal Size.
mm
6.3 ~ 19.5
15.9 ~ 31.7
28.6 ~ 50.8
47.6 ~ 76.2

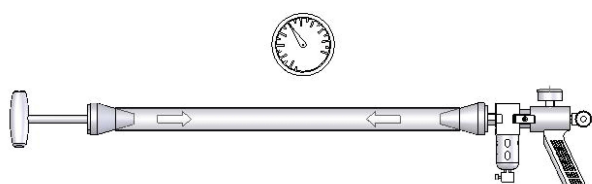
▼ OPERATING INSTRUCTIONS



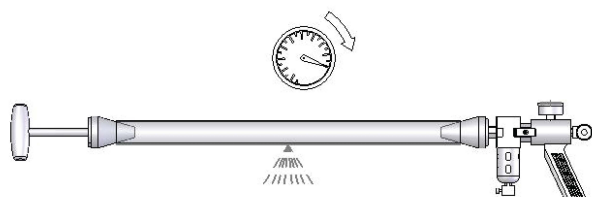
Connect the air supply to the gun, and plug both ends of the tube using T-handle.



Operate slide valve and allow create a vacuum inside the tube.



When vacuum gauge reaches the desire pressure shut off the slide valve.



Hold for seconds if gauge shows steady pressure there is no leak.