

Schock Absorbers

Product image	Prod. Name	Prod.ID	Fitting - Spring - Fitting Head Options	Head Prod.ID	Length/Weight	Sail Diameter	Sail Prod.ID	Duct min- max Din (Calibration %)	Compatible Sondes				
	IV343	V14343	M3,5 - Ø4.0mm - M3,5	---	67mm / 2.2g	---	---	6mm - 8mm	X				
	IV343-48	V14350	IV343 + head Ø4.8mm	T20840	76mm / 3.4g	---	---	6mm (80%) - 8mm (60%)	X				
	IV343-64	V14355	IV343 + head Ø6.4mm	T20841	82mm / 6.0g	---	---	8mm (80%)	(X)				
	IV565 v2	V14567	M5 - Ø6.4mm - M5	---	49mm / 6.3g	---	---	8mm - 12mm		X	X	X	
	IV566 v2	V14568	M5 - Ø6.4mm - M6	---	46mm / 6.9g	---	---	8mm - 12mm		X	X	X	
	IV566-66	V14571	IV566 + head Ø6.6mm	T20845	62mm / 8.5g	7.19mm	V14408	8mm (83%) - 10mm (66%)		X	X		
	IV566-80	V14576	IV566 + head Ø8.0mm	T20842	68mm / 13g	9.05mm	V14410	10mm (80%) - 12mm (67%)		X	X	X	
	IV566-96	V14581	IV566 + head Ø9.6mm	T20843	72mm / 11g	10.91mm	V14412	12mm (80%)		(X)	(X)	X	
	IV696 v2	V14697	M6 - Ø9.0mm - M6	---	52mm / 15g			12mm - 20mm				X	X
	IV696-96	V14701	IV696 + head Ø9.6mm	T20843	73mm / 19g	10.91mm	V14412	12mm (80%) - 14mm (69%)				X	X
	IV696-112	V14706	IV696 + head Ø11.2mm	T20844	78mm / 36g	12.77mm	V14414	14mm (80%) - 16mm (70%)				(X)	X
	IV696-128	V14711	IV696 + head Ø12.8mm	T20839	84mm / 24g	14.63mm	V14416	16mm (80%) - 20mm (64%)				(X)	X

What are shock absorbers needed for?

Shock absorbers are special accessories to Vesala's NanoSonde, MicroSonde and MiniSonde, intended for duct tracing and calibration together with a blowing machine. They considerably decrease risk of sonde damage during jetting by absorbing the excessive energy when the sonde hits an object. Hence it is recommended to use shock absorbers when possible.

All shock absorbers include a base part with a spring with two threaded fittings. First thread is to mount the base to the sonde, the other for a calibrator head or push rod. The largest shock absorbers also have a sail that helps the sonde travel with the air flow.

A variety of shock absorbers and calibrator heads are available for different sonde models and duct sizes. The table to the right shows all compatible combinations.

It is important to choose the right shock absorber according to the sonde model and duct size, and use the Vesala SC39 Sonde Catcher at the duct end.

Flexible mountings are for attaching sondes to a push rod. Especially at duct corners added flexibility makes sonde traveling smoother and reduces risk of damage.

Flexible Mountings and Adapters

Product image	Prod. Name	Prod.ID	Fitting - Spring - Fitting	Length/Weight	Duct min- max Din	Compatible Sondes			
	FM55	V14805	M5 - Ø6.4mm - M5F	55mm / 6.8g	8mm - 12mm	X	X	X	(X)
	FM56	V14800	M5 - Ø6.4mm - M6F	55mm / 7.2g	8mm - 12mm	X	X	X	(X)
	PL18-FM	V14194	PL18 - Ø18mm - M12F & M6F	97mm / 90g	21mm				X
	PL-MSA5	V14057	M12 - M5F	39mm / 26g	---				X

Example of use



MPL6-33M5F sonde with the IV566-66 shock absorber, ready to be used to calibrate 8mm ducts with 80% diameter ratio or 10mm ducts with 66% ratio.

Notes:

- (1) No head available from Vesala. Customers can use their own head/ accessory with M5 fitting.
- (2) Flexible accessory to protect M5 sondes during push rod use. FM56 operates also as an M5 to M6 adapter. Smallest recommended duct diameter depends on the sonde being used.
- (3) PL18-FM includes a battery compartment for PL18 sondes
- (4) Minimum 9mm duct size is recommended.

Sondes

X = Recommended
(X) = Compatible, not recommended

	MPL4-33	
	MPL6-33	
	VMS6-33	⁴⁾
	MPL7-33	
	MPL9-33	
	PL18-33	
	PL18-05	