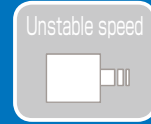
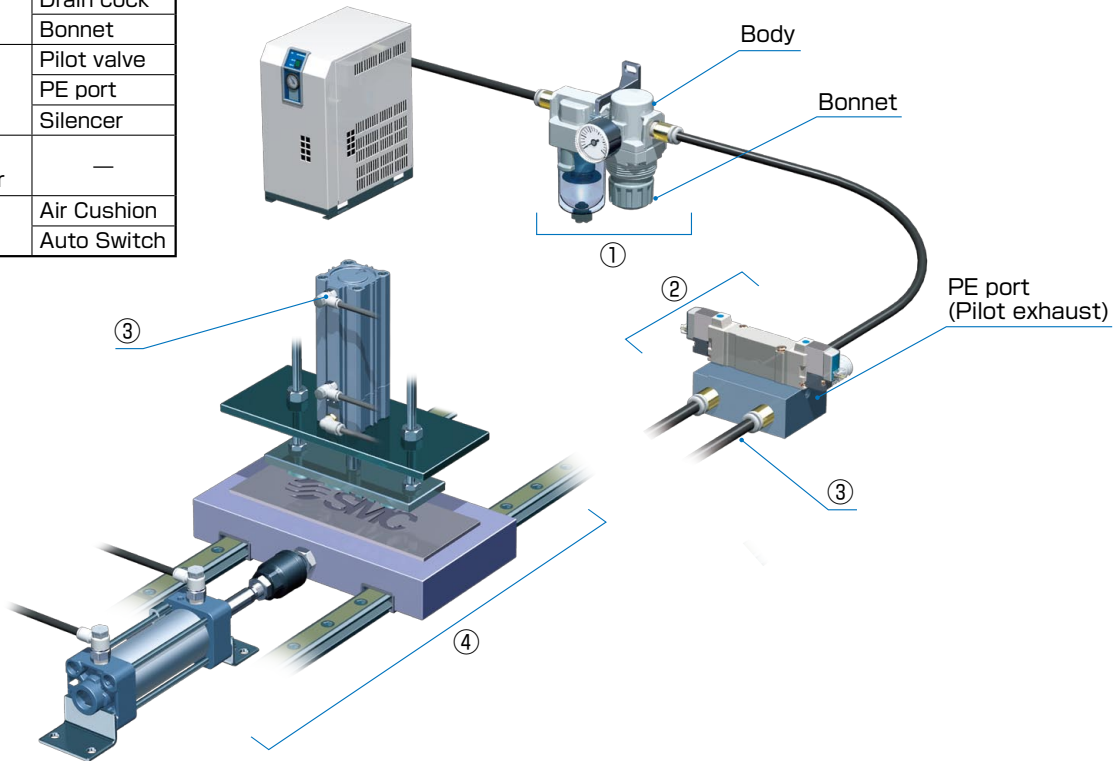


Basic Pneumatic Circuit



Check location	Description	Related items
①	Filter/Regulator	Drain cock Bonnet
②	Solenoid valve	Pilot valve PE port Silencer
③	Fitting/Tubing/ Speed controller	—
④	Air cylinder	Air Cushion Auto Switch



Check location		Detailed status	[Probable cause] and Actions
① Air filter	Drain cock	<input type="checkbox"/> Leakage from discharge portion	[Foreign matter caught in drain cock valve] [Damage of drain cock] · Blow clean the drain cock. · Replace bowl assembly
① Regulator	Exhaust hole of bonnet	<input type="checkbox"/> IN and OUT tubing is connected in reverse. <input type="checkbox"/> Parallel circuit is being used.	[Connection error] · Reconnect tubing. [Flowing around of valve-outlet pressure] · Review circuit. · Attach a check valve.
	Between bonnet and body	<input type="checkbox"/> Looseness in bonnet seal	Reconnect tubing.
② Solenoid valve	Between body and manifold	<input type="checkbox"/> Gasket is sticking out.	[Connection error] · Reconnect tubing. · Replace gaskets
	Silencer (Sound absorbing material)	<input type="checkbox"/> There is always leakage.	[Foreign matter caught in solenoid valve] · Operate manually. [Wear of cylinder piston seal] · Replace cylinder piston seal
③ Fitting/Tubing/Speed controller		<input type="checkbox"/> Air leaks from tube connection portion.	[Insufficient connection, or cut section] · Reconnect tubing.
		<input type="checkbox"/> Leakage from coiled tubing moving portion	[Rupture due to rubbing between tubing] · Reconnect tubing. · Consider using wear resistant tubing (Series TUZ)
④ Air Cylinder	Rod	<input type="checkbox"/> Scratches on rod surface	[Flowing of grease due to surrounding environment] [Damage of cylinder rod seal] · Replace cylinder rod seal [Increase of sliding resistance]
		<input type="checkbox"/> There is splashing or adhesion of dust, water, etc.	[Lateral load/Moment] · Replace with a cylinder equipped with dust, water resistance, and welding spatter measures.
		<input type="checkbox"/> Out of grease	[Wear of cylinder rod seal] · Replace cylinder rod seal [Increase of sliding resistance] [Flowing of grease due to surrounding environment] · Apply grease.
		<input type="checkbox"/> Floating mechanism is not installed.	[Wear of cylinder rod seal] [Increase of sliding resistance] [Lateral load/Moment]
		<input type="checkbox"/> Guide and rods are off center.	[Foreign matter adhesion] * Check the minimum operating pressure.