The 2 types · side-by-side

Distributor-facing reading. Each row gives best-for, key trade-off, capacity, price band, and how many of SPC's tier slots carry an option at that product type.

PRODUCT TYPE	BEST FOR	KEY TRADE-OFF	TYPICAL CAPACITY	PRICE BAND	BRANDS SPC CARRIES
Sintered Bronze THE DEFAULT · POROUS BRONZE · 35-300°F · TO 300 PSI	**General industrial duty, every valve, every plant.** General manufacturing, assembly, packaging, welding, fabrication, construction, material handling, compressor enclosure venting. The default silencer call on every directional control valve unless a specific reason pushes the conversation to plastic. Bronze tolerates heat, mechanical abuse, oil mist, and ambient dust.	POROSITY LOADS · 6-12 MO PM CADENCE The same porous bronze network that diffuses the exhaust pulse also collects dust on every inhale-stroke and oil mist on every exhaust-stroke. Over months the pores narrow, Cv drops, back-pressure rises, and the valve starts to act sluggish. Replace as a full manifold set on 6-12 month PM: shorter in dusty or oily environments.	M5 · 1/8" · 1/4" · 3/8" · 1/2" (extends to 3/4" · 1") standard · high-flow diffuser · speed-control variants	$ – $$	1 / 5 · ADSENS ONLY
Plastic Body MESH-SCREEN ELEMENT · ~150 PSI · 35-120°F	**Washdown, weight-sensitive, prototype.** Three named cases where one of bronze's strengths becomes a liability. Washdown / food / marine / chemical-vapor environments (bronze rusts and contaminates the air stream). Weight-sensitive moving sub-assemblies: gantries, robot end-of-arm tooling, high-speed pick-and-place. Short-life prototype fixtures and test benches where bronze's decade of durability is irrelevant to the application.	LOWER TEMP + PRESSURE CEILING Polymer body caps operating temperature around 120°F and pressure around 150 PSI; hot high-cycle exhaust will deform it and a dropped tool or operator kick will crack it. Wrong call as a generic substitute for bronze: pick plastic only for the specific reasons it wins, default to bronze otherwise.	M5 · 1/8" · 1/4" · 3/8" · 1/2" mesh-screen element · standard + high-flow diffuser	$	1 / 5 · ADSENS ONLY

Reading the brand bench column: the bar shows how many of SPC's tier slots (Industry Leader · Emerging · Economical · adjacent) carry an option at that product type. Silencers run a single-brand bench across both body styles by design: Adsens is SPC's anchor for the full thread range in both sintered bronze and plastic, and consolidating to one vendor across the entire silencer line IS the value to the customer's MRO procurement.