



## FPS – AMPULE FILLING AND SEALING

The FPS series is a compact ampule filling and sealing monoblock machine; featuring an unscrambler, flushing and filling stations and is known for its simplicity, operational reliability and minimal maintenance factors.

Utilizing Cazzoli's exclusively patented sliding tube valve, the FPS uses stainless steel syringes and positive head pressure to fill product with outer diameter dimensions up to 1" (25.4mm) at full speed. Ampules from 25.4mm to 28.6mm can be handled by alternate indexing.

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Machine Model	FPS1-OS-SS	FPS1-SS	FPS2-SS	FPS2CA
Functions Performed	Fill/Flame Seal	Unscramble/Flush/Fill/Flush/Flame Seal	Unscramble/Flame/Fill/Flush/Flame Seal	Unscramble/Flame Open/Flush/Fill
Number of Filling Syringes	1	1	2	2
Min/Max Syringe Size	1ml - 2ml	1ml - 30ml	1ml - 30ml	1ml - 30ml
Min/Max Fill Volume	.1ml - 2.2ml	.1ml - 33ml	.1ml - 33ml	.1ml - 33ml
Number of Valve Assemblies	1	1	1 Duplex	1 Duplex
Flushing With Inert Gas	(1) Flush, Fill	Flush, Fill, Flush	Flush, Fill, Flush	Flush, Fill, Flush
Sealing Type	Pull Seal or Tip Seal - Venturi Burner Assembly With Ampule Rotating Rollers.			
Oxygen Flow Rate	1 - 2 Liters Per Minute	1 - 2 Liters Per Minute	2 - 4 Liters Per Minute	2 - 4 Liters Per Minute
Gas Flow Rate	.5 - 1 Liters Per Minute	.5 - 1 Liters Per Minute	1 - 2 liters Per Minute	1 - 2 Liters Per Minute
Min/max Sealing Height	(7)35mm - 88.9mm 1 3/8" - 3.5"	44mm - 120mm 1-3/4" - 4-3/4"	44mm - 120mm 1-3/4" - 4-1/4"	44mm - 120mm 1-3/4" - 4-3/4"
Min/max Stoppering Height		31.7mm - 107.9mm 1-1/4" - 4-3/4"	31.7mm - 107.9mm 1-1/4" - 4-1/4"	
General Containers Handled	Glass Tubes, Onion Skin Tubes	(6) Ampules	(6) Ampules	Ampules
Min/max Container Diameter	6.4mm - 16mm 1/4" - 5/8"	(2) 9.5mm - 25.4mm 3/8" - 1"	(2) 9.5mm - 25.4mm 3/8" - 1"	9.5mm - 25.4mm 3/8" - 1"
Max Container Height	134.9mm 5 5/16"	134.9mm 5-5/16"	134.9mm 5-5/16"	177.8mm 7"
Containers per Minute	15 - 60	15 - 60	30 - 120	30 - 120

(1) Can be supplied for fill/flush or flush/fill/flush

(2) Optional parts are available for vials from 25.4mm (1") up to 28.6mm (1 1/8") in diameter—production rates will be halved.

(3) Optional parts are available for handling vials.

(4) Consult Cozzoli for sealing heights outside this range.

Note: Other sizes may be handled with optional change parts—please consult us. Specifications are subject to change without notice.

Fill volume can be changed by a simple adjustment of a calibrated sector arm. Volumetric accuracy of fill is +/- 0.5%. Bottom-up filling is provided through the provision of two cams to lower and raise on a 2" or 5" stroke. Other cams are available for any special bottom up filling requirements.



Since the blending of proper amounts of oxygen and gas is important for effective sealing of the ampule, this machine can be optionally equipped with a dual flow meter assembly that will visually indicate the oxygen and gas flow separately.