

PERFORMANCE CHARTS

PIPER ARROW OPERATING SPEEDS (mph) IAS

V _{SO}	64	V _{LE}	150	V _{NO}	170	*Gear Dwn/Up
V _{S1}	71	V _{LO}	125	V _{NE}	214	
V _X	85/96*	V _{FE}	125			
V _Y	95/100*	V _A	131			

TAKEOFF CROSSWIND LIMIT - 15 KTS

	Rotate	Climb*	Flaps
Normal	65	95/100	Up
Short Field	65	85/96	25°
Soft Field	ASAP	95/100	25°

ENROUTE @ 2500' PA (STANDARD TEMP)

	POWER	IAS (mph)	FF (gph)
Climb	25"/2500	110	14
Cruise (75% BPH)	25"/2400	151	10.2
Cruise (55% BPH)	22"/2100	129	8
Holding	17"/2100	105	6.5

PATTERNS/LANDINGS CROSSWIND LIMIT – 15 KTS

	Power	IAS (mph)	Flaps
Downwind	18"/2400	120	
Abeam Touchdown	15"/FP**	110	10°
Base		100	25°
Normal Final		90	40°
Short Field Final		83	40°
Soft Field Final		83	40°
No Flap Final		95	40°
Inst Approach	17"/2400	105	0°
ILS Final (3°/480 fpm)	17"/FP**	105	0°

**Full prop after reducing manifold pressure

MAX RANGE GLIDE WITH ENGINE OUT & PROP AT LOW RPM

Flaps & Gear Up	105 MIAS	1.3 NM / 1000'
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PERFORMANCE @ MAX GROSS WT (2650#)

Density Altitude Ceilings		T/O & Ldg (SL, 95°, No Wind)	
Absolute	17000	Acc to 65 mph & Stop	1810'
Service	15000	Short Field T/O	1000' / 2150'
		Short Field Landing	810' / 1400'

MANEUVERS

	Power	Entry IAS (mph)	Altitude
Chandelle	25"/2500	125	>1500' AGL
Lazy 8	18"/2400	120	>1500' AGL
Steep Turns	18"/2400	120	>1500' AGL

AIRCRAFT SYSTEM NOTES

FUEL	<ul style="list-style-type: none"> • 48 gal usable: Tab in filler neck indicates 17 gal usable per tank. • Tanks are vented individually through a tube at the rear outboard corner of each tank. • Start/Taxi/Takeoff Fuel approximately 1.5 gal.
ENGINE	<ul style="list-style-type: none"> • Lycoming IO-360-C1C; 200 BHP @2700 RPM • Fuel injected
ELECTRICAL	<ul style="list-style-type: none"> • 12 Volt DC; one 60 amp alternator • Ammeter shows electrical load on system not rate of battery discharge.
LDG GEAR	<ul style="list-style-type: none"> • Nose gear 30 psi; Main gear 27 psi • Engage parking brake by pulling back on lever and depressing knob. Disengage y pulling back on lever and releasing.
STALL WARNING	<ul style="list-style-type: none"> • Warning light comes on 5 – 10 mph above stall.

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