

Operating Limitations: Bell 206 Jet Ranger III

MTOW	Without external load	Maximum	3200 lbs
	With external load		3350 lbs
	On hook		1500 lbs
Speed (Vne)	Power-on <= 3000 lbs MTOW	Maximum	130 kts above 3000 ft -3.5 kts/1000 ft Alt
	Power-on > 3000 lbs MTOW		122 kts above 3000 ft -7.0 kts/1000 ft Alt
	Power-off		100 kts
	Aft Doors removed		87 kts
	Forward Doors removed		69 kts
	LH Sliding door opening		87 kts
	LH Sliding door closing		87 kts
Altitude	<= 3000 lbs	Maximum	20'000 ft Pressure Altitude
	> 3000 lbs	Maximum	13'500 ft Density Altitude
Temperature	OAT	Below	4°C and visible Moister → Anti Ice ON
Main Rotor	Power-on	In stabilized flight	97% – 100% RPM
		Maximum transient (5 sec)	95% - 97% RPM
	Power-off	Maximum	107% RPM
		Minimum	90% RPM
	Rotor brake application	Maximum	38% RPM
Torque		Maximum continuous	85 %
	IAS < 80 kts	Maximum take-off (5 min)	100 %
		Maximum transient (5 sec)	110 % (intentional use prohibited)
Gas Producer (N1)	Flight	Maximum continuous	60% - 105%
		Maximum	105%
		Maximum transient (15 sec)	106%
	Idle	Minimum	Ng = 60%-62%
TOT	Engine start	Maximum transient (10 sec)	810°C - 927°C
	Take-off	Maximum (5 min)	738°C – 810°C
	Power transient	Maximum (6 sec)	810°C – 843°C (intentional use prohibited)
	In-flight	Continuous	100°C – 738°C
Engine Oil	Pressure	Min. (N1 < 78.5%)	50 psi
		Min. (N1 < 78.5%)	90 psi
		Min. (N1 > 94.2%)	115 psi
		Maximum	130 psi
	Temperature	Maximum	107°C
Transmission Oil	Pressure	Minimum	30 psi
		Continious	30 psi - 50 psi
		Maximum	70 psi
	Temperature	Maximum	110°C
Fuel	Pressure	Minimum	4.0 psi
		Maximum	30.0 psi
Pilot & Pax	Pilot	Minimum	1 (min. 170 lbs)
	Persons carried	Maximum	5 (pilot included)
Heater	HB-XPQ	Casey Heater	No power loss
	HB-XSI	Bleed Air Heater	Switch OFF for T/O and landing
	HB-XLA	Combustion Heater	No power loss