

SPECIFICATIONS		POWERV 475 RSS	POWERV 675 RSS	POWERV 825 RSS	POWERV 900 RSS	POWERV 1100 RSS
Mechanical	Nominal OD, in	4 3/4	6 3/4	8 1/4	9	11
	Overall length, ft	13.65	13.47	13.84	13.84	15.22
	Hole sizes, in	5 1/2 - 6 3/4	7 7/8 - 9 7/8	10 5/8 - 11 5/8	12 - 18 1/2	20 - 28
	Bit speed, rpm	0 - 220	0 - 220	0 - 220	0 - 220	0 - 125
	Maximum weight on bit, lbf †	31,000	180,000	270,000	370,000	225,000
	Maximum torque on bit, ft.lbf ‡	9,000	18,500	45,000	45,000	70,000
	Maximum overpull, lbf	340,000	1,100,000	1,100,000	1,800,000	2,500,000
	Passthrough (DLS sliding), °	30	16	12	10	4
Bit connection (box)	3 1/2 Reg	4 1/2 or 6 5/8 Reg	6 5/8 Reg	6 5/8 or 7 5/8 Reg	7 5/8 Reg	
Hydraulics §§	Flow range, galUS/min §	170 - 310	210 - 970	280 - 2,000	280 - 2,000	280 - 2,000
	Maximum mud density, lbm/galUS	24	24	24	24	24
	Maximum sand content, %	1	1	1	1	1
	Lost circulation material (LCM), lbm/bbl ††	35	50	50	50	50
	Acidity level, pH	9.5 - 12	9.5 - 12	9.5 - 12	9.5 - 12	9.5 - 12
	Oxygen, ppm	1	1	1	1	1
Pressure, temperature and shock	Maximum temperature, degF	302	302	302	302	302
	Maximum pressure, psi	20,000	20,000	20,000	20,000	20,000
	Maximum cumulative shock count, count	200,000 > 50 gn	200,000 > 50 gn	200,000 > 50 gn	200,000 > 50 gn	200,000 > 50 gn
	Maximum peak shock, gn	250	250	250	250	250
Measurements §§§	Inclination offset to tool bottom, ft	6.76	7.13	7.60	7.70	9
	Azimuth offset to tool bottom, ft	8.86	9.33	9.80	9.90	11.20
	Azimuthal gamma ray	Four bin	Four bin	Four bin	Four bin	Four bin
	Average gamma ray	Yes	Yes	Yes	Yes	Yes
	Gamma ray offset to tool bottom, ft	5.86	6.33	6.80	6.90	8.20
	Vibration range (axial), gn	0 - 35	0 - 35	0 - 35	0 - 35	0 - 35
	Vibration range (radial), gn	0 - 75	0 - 75	0 - 75	0 - 75	0 - 75
	Shock range, gn	625	625	625	625	625
	Shock axis	Triaxial	Triaxial	Triaxial	Triaxial	Triaxial
	Magnetic field cone of exclusion	None	None	None	None	None
Specifics	Automated loop	Vertical	Vertical	Vertical	Vertical	Vertical

† Maximum at 0-ft. lbf torque on bit; bit recommendations should be considered.

‡ Maximum at 0-lbf weight on bit.

§ Dependent on mud density.

†† Special configuration available for silicate muds.

‡‡ Depends on the type of LCM.

§§ Sensor offsets and tool weight vary depending on hole size configuration.