

MODEL	CR50 - STD		CR55 - STD		CR65 - STD		CR80-STD		CR88 - STD		CR100 - STD		CR120 - STD		CR260 - STD	
CPN	91000343		91000726		91000389		91000301		91000468		91000265		91000492		91002916	
DESCRIPTION	CR50 w/3-1/2 API Reg Pin Connection		CR55 w/3-1/2 API Reg Pin Connection & Cutting backhead		CR65 w/3-1/2 API Pin Connection & Cutting Backhead		CR80 w/4-1/2 API Reg Pin Connection		CR88 w/4-1/2 API Reg Pin Connection		CR100 w/6-5/8 API Reg Pin Connection		CR120 w/6-5/8 API Reg Pin Connection		CR260 w/8-5/6 API Reg Box Connection	
APPLICATION SUITABILITY:																
Geotechnical/Foundations	✓				✓		✓		✓		✓		✓		✓	
Waterwell/Geothermal	✓		✓				✓		✓		✓		✓		✓	
Quarry/Mining	✓		✓		✓		✓									
Mineral Exploration	✓															
Oil/Gas							✓		✓		✓		✓		✓	
AVAILABLE OPTIONS:																
Bit Retainer System							✓		✓		✓		✓			
Jetted Backhead					✓		✓		✓		✓		✓		✓	
GENERAL SPECIFICATIONS:																
Connection	3-1/2 API Reg Pin		3-1/2 API Reg Pin		3-1/2 API Reg Pin		4-1/2 API Reg Pin		4-1/2 API Reg Pin		6-5/8 API Reg Pin		6-5/8 API Reg Pin		8-5/8 API Reg Box	
Bit Shank	QL50		QL50		QL60		QL80		CR88		N100		QL120		C260	
Reversible Casing	Yes		Yes		Yes		Yes		Yes		No		No		Yes	
Outside Diameter (in/mm)	4.75	120.7	5.00	127.0	5.88	149.4	7.13	181.1	7.75	196.9	9.00	228.6	11.20	284.5	22.00	559.0
Length w/o Bit Shoulder to Shoulder (in/mm)	42.40	1077.7	40.10	1017.3	41.80	1060.7	57.20	1452.6	58.90	1496.1	59.90	1520.2	72.90	1850.6	74.3	1887.0
Length w/Bit Extended (in/mm)	46.60	1184.4	44.60	1132.6	46.00	1169.40	63.70	1618.0	66.80	1697.7	69.00	1753.4	83.60	2124.5	87.00	2210.0
Length w/Bit Retracted (in/mm)	45.40	1153.9	43.30	1100.3	44.90	1141.50	61.90	1571.5	64.90	1649.2	67.10	1704.3	81.40	2066.5	84.80	2153.0
Weight w/o Bit (pds/kgs)	145	65.9	153	69.5	219	99.5	443	201.4	518	235.5	740	336.4	1358	617.3	5842	2655.0
Backhead Across Flats (in.)	2 x 3-1/2 AF		2 x 3-1/2 AF		2-1/4 x 3-1/2 AF		2-1/2 x 3-7/8 AF		2 x 6-7/16 AF		2-1/2 x 7-1/2 AF		2-1/2 x 9-1/4 AF		2-1/2 x 21 AF	
Minimum Bit Size (in/mm)	5.25	133.4	5.75	146.1	6.50	165.1	7.88	200.2	8.75	222.3	9.63	244.6	12.25	311.2	26.00	660.0
Maximum Bit Size (in/mm)	6.00	152.4	6.00	152.4	6.75	171.5	10.00	254.0	11.00	279.4	12.25	311.2	22.00	558.8	38.00	965.0
Bore (in/mm)	3.890	98.81	4.125	104.78	4.750	120.65	5.875	149.23	6.410	162.81	7.540	191.52	9.250	234.95	17.150	436.0
Piston Weight (pds/kgs)	31.90	14.5	31.50	14.3	45.00	20.5	107.20	48.7	117.00	53.2	178.00	80.9	304.00	138.2	1422.00	646.0
Stroke (in/mm)	4.00	101.6	4.00	101.6	4.00	101.6	4.00	101.6	4.00	101.6	4.00	101.6	4.00	101.6	5.00	127.0
Maximum Pressure Differential (psig & bar)	350.00	24.1	350.0	24.1	350.00	24.1	350.00	24.1	350.00	24.1	350.00	24.1	350.00	24.1	250.00	17.2
Maximum Choke Diameter	0.50	12.70	0.50	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88	22.23	1.22	31.00
Make-up Torque (ft-lb / N-m)	5000	6700	5000	6770	6000	8174	8000	10832	9000	12186	10000	13540	12000	16248	30000	40620
AIR CONSUMPTION:																
100 psi/6,9 bar (scfm / m ³ /min)	202	5.7	155	4.4	235	6.6	400	11.3	548	15.5	581	16.4	866	24.5	2356	66.6
100 psi (bpm)	1116	1116	1116	1116	1350	1350	968	968	968	968	950	950	585	585	676	676
150 psi/10,3 bar (scfm / m ³ /min)	310	8.8	257	7.3	383	10.8	590	16.7	821	23.2	1000	28.2	1292	36.5	3625	102
150 psi (bpm)	1266	1266	1266	1266	1456	1456	1050	1050	1050	1050	1050	1050	695	695	838	838
200 psi/13,8 bar (scfm / m ³ /min)	422	11.9	374	10.6	543	15.3	780	22.0	1093	30.9	1400	39.5	1715	48.5	5043	142
200 psi (bpm)	1401	1401	1401	1401	1561	1561	1132	1132	1132	1132	1150	1150	805	805	991	991
250 psi/17,2 bar (scfm / m ³ /min)	538	15.2	508	14.3	713	20.1	970	27.4	1366	38.6	1781	50.3	2135	60.3	6611	187
250 psi (bpm)	1521	1521	1521	1521	1667	1667	1215	1215	1215	1215	1250	1250	915	915	1135	1135
300 psi/20,7 bar (scfm / m ³ /min)	658	18.6	657	18.6	894	25.3	1160	32.8	1639	46.3	2143	60.5	2551	72.1	N/A	N/A
300 psi (bpm)	1626	1626	1626	1626	1773	1773	1297	1297	1297	1297	1350	1350	1025	1025	N/A	N/A
350 psi/24,1 bar (scfm / m ³ /min)	783	22.1	822	23.2	1086	30.7	1350	38.1	1912	54.0	2486	70.2	2964	83.7	N/A	N/A
350 psi (bpm)	1716	1716	1716	1716	1878	1878	1379	1379	1379	1379	1450	1450	1135	1135	N/A	N/A