Kobelco KS19LNB Gas Screw Compressor Flow Table (250 hp)

Discharge Pressure (psig)

Suction Pressure (psig)

	70	100	125	150	175	200	225	250	275	300	325	350
0	0.480, 70 3.65, 100%	0.471, 83 5, 100%	0.462, 94 5, 100%	0.453, 105 5, 100%	0.443, 115 5, 100%	0.432, 126 5, 100%	0.421, 137 5, 100%	0.410, 148 5, 100%	0.398, 158 5, 100%			
5	0.697, 75 2.9, 100%	0.687, 93 3.65, 100%	0.679, 105 5, 100%	0.670, 115 5, 100%	0.569, 126 5, 100%	0.248, 137 5, 100%	0.637, 148 5, 100%	0.625, 158 5, 100%	0.613, 169 5, 100%	0.599, 180 5, 100%	0.586, 190 5, 100%	0.572, 200 5, 100%
10	0.901, 79 2.2, 100%	0.890, 99 3.65, 100%	0.879, 113 3.65, 100%	0.868, 127 5, 100%	0.862, 137 5, 100%	0.850, 148 5, 100%	0.839, 158 5, 100%	0.827, 169 5, 100%	0.815, 180 5, 100%	0.801, 190 5, 100%	0.788, 201 5, 100%	0.774, 212 5, 100%
15	1.108, 79 2.2, 100%	1.092, 102 2.9, 100%	1.083, 119 3.65, 100%	1.071, 133 3.65, 100%	1.059, 148 3.65, 100%	1.053, 158 5, 100%	1.042, 169 5, 100%	1.030, 185 5, 100%	1.017, 190 5, 100%	1.004, 201 5, 100%	0.991, 212 5, 100%	0.962, 220 5, 99.4%
20	1.320, 78 2.2, 100%	1.297, 105 2.2, 100%	1.285, 122 2.9, 100%	1.275, 139 3.65, 100%	1.263, 153 3.65, 100%	1.251, 168 3.65, 100%	1.238, 181 3.65, 100%	1.233, 190 5, 100%	1.220, 201 5, 100%	1.207, 212 5, 100%	1.159, 220 5, 98.8%	0.995, 220 5, 93.6%
25	1.544, 78 2.2, 100%	1.505, 105 2.2, 100%	1.489, 127 2.2, 100%	1.477, 143 2.9, 100%	1.468, 160 3.65, 100%	1.455, 173 3.65, 100%	1.442, 188 3.65, 100%	1.429, 202 3.65, 100%	1.424, 212 5, 100%	1.378, 220 5, 99.0%	1.227, 220 5, 95.0%	1.068, 220 5, 90.6%
30		1.717, 103 2.2, 100%	1.697, 126 2.2, 100%	1.683, 146 2.9, 100%	1.669, 164 2.9, 100%	1.660, 180 3.65, 100%	1.647, 195 3.65, 100%	1.633, 208 3.65, 100%	1.590, 220 3.65, 99.3%	1.427, 220 3.65, 95.4%	1.309, 220 5, 92.5%	1.127, 220 5, 82.0%
35		1.944, 103 2.2, 100%	1.907, 126 2.2, 100%	1.888, 149 2.2, 100%	1.876, 166 2.9, 100%	1.861, 184 2.9, 100%	1.852, 200 3.65, 100%	1.838, 215 3.65, 100%	1.730, 220 3.65, 97.9%	1.546, 220 3.65, 94.0%	1.378, 220 3.65, 91.4%	1.203, 220 5, 74.2%
40		0.160, 103 2.2, 100%	2.120, 125 2.2, 100%	2.098, 148 2.2, 100%	2.080, 170 2.2, 100%	2.068, 186 2.9, 100%	2.053, 204 2.9, 100%	2.044, 220 3.65, 100%	1.862, 220 3.65, 96.6%	1.700, 220 3.65, 93.6%	1.525, 220 3.65, 90.2%	1.267, 220 3.65, 67.7%
45			2.337, 125 2.2, 100%	2.309, 148 2.2, 100%	2.289, 170 2.2, 100%	2.276, 190 2.90, 100%	2.260, 208 2.9, 100%	2.181, 220 2.9, 98.8%	1.985, 220 3.65, 95.4%	1.820, 220 3.65, 92.6%	1.616, 220 3.65, 86.5%	1.384, 220 3.65, 66.3%
50				2.523, 146 2.2, 100%	2.500, 169 2.2, 100%	2.480, 192 2.2, 100%	2.468, 211 2.9, 100%	2.353, 220 2.9, 98.3%	2.131, 220 2.90, 94.8%	1.940, 220 3.65, 91.7%	1.736, 220 3.65, 83.9%	1.487, 220 3.65, 64.0%
55				2.741, 146 2.2, 100%	2.712, 169 2.2, 100%	2.691, 192 2.2, 100%	2.672, 245 2.2, 100%	2.524, 220 2.9, 97.9%	2.298, 220 2.9, 94.6%	2.083, 220 2.9, 91.5%	1.839, 220 3.65, 80.4%	1.591, 223 3.65, 62.2%
60					2.927, 169 2.2, 100%	2.903, 190 2.2, 100%	2.882, 213 2.2, 100%	2.656, 220 2.2, 97.0%	2.449, 220 2.9, 94.2%	2.232, 220 2.9, 91.3%	1.957, 220 2.9, 78.8%	1.712, 220 3.65, 61.8%
65					3.146, 168 2.2, 100%	3.117, 190 2.2, 100%	3.094, 213 2.2, 100%	2.860, 220 2.2, 97.1%	2.617, 220 2.9, 94.0%	2.398, 220 2.9, 91.3%	2.116, 220 2.9, 79.8%	1.829, 220 2.9, 61.5%
70					3.383, 168 2.2, 100%	3.333, 190 2.2, 100%	3.307, 212 2.2, 100%	3.074, 220 2.2, 97.4%	2.755, 220 2.20, 93.6%	2.529, 200 2.9, 90.8%	2.227, 220 2.9, 77.6%	1.980, 220 2.9, 63.0%
75						3.551, 189 2.2, 100%	3.522, 212 2.2, 100%	3.272, 220 2.2, 97.3%	2.957, 220 2.2, 93.9%	2.660, 220 2.20, 90.5%	2.371, 220 2.90, 77.6%	2.076, 220 2.9, 61.1%
80						3.791, 189 2.2, 100%	3.739, 212 2.2, 100%	3.485, 220 2.2, 97.4%	3.135, 220 2.2, 93.8%	2.874, 220 2.20, 91.1%	2.493, 220 5, 76.7%	2.230, 220 2.9, 62.6%
85								3.704, 220 2.2, 97.7%	3.359, 220 2.2, 94.3%	3.037, 220 2.2, 91.1%	2.697, 220 2.2, 79.7%	2.322, 220 2.2, 61.0%

Gas Flow Rate (MMscfd)
Horse Power (max. usable = 220 hp for this application)
Vi Ratio
Turn Valve Position (%)

Operating Conditions:
- Inlet Temperature = 60 deg. F
- Ambient Pressure = 13.5 psia
- Ambient Temperature = 95 deg. F
- Specific Gravity of Gas = 0.65
- Compressor Speed = 1800 rpm
- Lube Oil Supply Temp. = 140 deg.F
- Gas Discharge Temp. = varies

Note: Discharge Pressures between 350 psig and 375 psig may be available in some cases. Contact Jiro Engineering for Confirmation.
This chart was created by Jiro Engineering using Kobelco's Oil & Gas Selection Program (Version 2.0.5)