KOBELCO

SERVICEMAN'S HANDBOOK

HYDRAULIC EXCAVATOR
GRAND BEETLE
SR Series
SK70SR
SK115SR
SK115SRDZ (KAI)
SK135SR
SK135SRLC
SK135SRLC (KAI)
SK235SR

Applicable: SK70SR YT00101~, SK115SR YV00101~, SK115SRDZ(KAI) YY00101~
Applicable: SK135SR YY00101~, SK135SRLC YH00101~, SK135SRLC(KAI) YH00101~, SK235SR YF00101~

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MidWestTech | Kobelco Grand Beetle SR Series SK70SR, SK115SR, SK115SRDZ (KAI), SK135SR, SK135SRLC, SK135SRLC (KAI), SK235SR Hydraulic Excavator Serviceman's Handbook | Publication S7YO00100ZE01
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5. Density

kg/m^3	g/cm^3	lb/in^3	lb/ft^3
1	1×10^{-3}	3.613×10^{-5}	6.243×10^{-2}
1.000×10^3	1	3.613×10^{-2}	6.243×10
2.7680×10^4	2.768×10	1	1.728×10^3
1.602×10	1.602×10^{-2}	5.787×10^{-4}	1

Note : $1g/cm^3 = 1t/m^3$

6. Force

N	dyn	kgf	lbf	Pdl
1	1×10^5	1.01972×10^{-1}	2.248×10^{-1}	7.233
1×10^{-5}	1	1.01972×10^{-6}	2.248×10^{-6}	7.233×10^{-5}
9.80665	9.80665×10^5	1	2.205	7.093×10
4.44822	4.44822×10^5	4.536×10^{-1}	1	3.217×10
1.38255×10^{-1}	1.38255×10^4	1.410×10^{-2}	3.108×10^{-2}	1

Note : $1dyn = 10^{-5}N$, 1Pdl (poundal) = $1ft \cdot lb/s^2$

7. Pressure

Pa	bar	kgf/cm^2	atm	mH_2O	mHg	lbf/in^2 (psi)
1	1×10^{-5}	1.0197×10^{-5}	9.869×10^{-6}	1.0197×10^{-4}	7.501×10^{-3}	1.450×10^{-4}
1×10^5	1	1.0197	9.869×10^{-1}	1.0197×10	7.501×10^{-1}	1.450×10
9.80665×10^4	9.80665×10^{-1}	1	9.678×10^{-1}	1.0000×10	7.356×10^{-1}	1.422×10
1.01325×10^5	1.01325	1.0332	1	1.033×10	7.60×10^{-1}	1.470×10
9.80665×10^3	9.806×10^{-2}	1.0000×10^{-1}	9.678×10^{-2}	1	7.355×10^{-2}	1.4222×10
1.3332×10^5	1.3332	1.3595	1.3158	1.360×10	1	1.934×10
6.895×10^3	6.895×10^{-2}	7.031×10^{-2}	6.805×10^{-2}	7.031×10^{-1}	5.171×10^{-2}	1

Note : $1Pa = 1N/m^2$, $1bar = 10^5Pa$, $1lbf/in^2 = 1psi$

8. Stress

Pa	N/mm^2 (MPa)	kgf/mm^2	kgf/cm^2	lbf/ft^2
1	1×10^{-6}	1.0197×10^{-7}	1.0197×10^{-5}	2.089×10^{-2}
1×10^6	1	1.01972×10^{-1}	1.01972×10	2.089×10^4
9.80665×10^6	9.80665	1	1×10^2	2.048×10^5
9.80665×10^4	9.80665×10^{-2}	1×10^{-2}	1	2.048×10^3
4.786×10	4.786×10^{-5}	4.882×10^{-6}	4.882×10^{-4}	1

Note : $1N/mm^2 = 1MPa$

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