

SUBJECT: NITROGEN GAS PRESSURE

MODEL(S): H, E, GH AND PH SERIES HAMMERS

The nitrogen gas pressure must be measured with no preload on the tool. Remove the tool or position the hammer with the tool fully extended against the tool retaining pin. The hammer must not be resting vertical on the tool. The gas pressure in the hammer will vary according to the gas temperature.

PREFERRED METHOD

The preferred method to measure or charge the nitrogen gas pressure is with the hydraulic system temperature stabilized after 1 to 2 hours of running and with a system oil temperature of 140° to 180°F (60° to 80°C).

ALTERNATE METHOD

The nitrogen gas pressure can be measured or charged at ambient temperature (cold), before operating the hammer. It is recommended the pressure be verified at operating temperature.

ATTENTION ***DO NOT OVERCHARGE THE HAMMER!***

Exceeding the gas pre-charge specifications can result in damaging hammer components. The NPK WARRANTY does not cover failures resulting from exceeding the specified nitrogen gas pressure.

H SERIES

HAMMER MODEL	*AT AMBIENT TEMPERATURE		*AT OPERATING TEMPERATURE	
	(cold, before operating)		(hot, after 1 to 2 hrs. operation)	
	psi	(bar)	psi	(bar)
H06X	370	(26)	430	(30)
H08X	370	(26)	430	(30)
H1XA	300	(21)	350	(24)
H2XA	320	(22)	375	(26)
H3XA	390	(27)	455	(31)
H4X/H4XE/ H4XL	250	(17)	300	(21)
H6XA	340	(23)	400	(28)
H7X	320	(22)	375	(26)
H8XA	340	(23)	400	(28)
H10XB	340	(23)	400	(28)
H12X	290	(20)	340	(23)
H16X	290	(20)	340	(23)
H20X	340	(23)	400	(28)
H30X	450	(31)	525	(36)

*The gas charge tolerance is plus 0, minus 25 psi (2 bar).

E SERIES

HAMMER MODEL	*AT AMBIENT TEMPERATURE		*AT OPERATING TEMPERATURE	
	(cold, before operating)		(hot, after 1 to 2 hrs. operation)	
	psi	(bar)	psi	(bar)
E200	350	(24)	405	(28)
E201	350	(24)	405	(28)
E202	350	(24)	405	(28)
E203	350	(24)	405	(28)
E204	350	(24)	405	(28)
E205	375	(26)	435	(30)
E207	390	(27)	450	(31)
E208	390	(27)	450	(31)
E210A	390	(27)	450	(31)
E213	350	(24)	405	(28)
E216	350	(24)	405	(28)
E218A (255)	320	(21)	375	(25)
E220	350	(24)	405	(28)
E224A (265)	340	(23)	400	(27)
E225	365	(25)	420	(29)
E235	340	(23)	400	(27)
E240A	390	(27)	450	(31)
E260A	390	(27)	450	(31)

*The gas charge tolerance is plus 0, minus 25 psi (2 bar).

GH SERIES

HAMMER MODEL	*AT AMBIENT TEMPERATURE		*AT OPERATING TEMPERATURE	
	<i>(cold, before operating)</i>		<i>(hot, after 1 to 2 hrs. operation)</i>	
	psi	(bar)	psi	(bar)
GH06	350	<i>(24)</i>	405	<i>(28)</i>
GH07	350	<i>(24)</i>	405	<i>(28)</i>
GH1	350	<i>(24)</i>	405	<i>(28)</i>
GH2/GHS2	350	<i>(24)</i>	405	<i>(28)</i>
GH3/GH3-2	350	<i>(24)</i>	405	<i>(28)</i>
GH4	375	<i>(26)</i>	435	<i>(30)</i>
GH6	390	<i>(27)</i>	450	<i>(31)</i>
GH7	350	<i>(24)</i>	405	<i>(28)</i>
GH9	365	<i>(29)</i>	420	<i>(29)</i>
GH10	365	<i>(25)</i>	420	<i>(29)</i>
GH12	365	<i>(25)</i>	420	<i>(29)</i>
GH15	365	<i>(25)</i>	420	<i>(29)</i>
GH18	365	<i>(25)</i>	420	<i>(29)</i>
GH23	390	<i>(27)</i>	450	<i>(31)</i>
GH30	390	<i>(27)</i>	450	<i>(31)</i>
GH40	390	<i>(27)</i>	450	<i>(31)</i>
GH50	390	<i>(27)</i>	450	<i>(31)</i>

*The gas charge tolerance is plus 0, minus 25 psi (2 bar).

PH SERIES

HAMMER MODEL	*AT AMBIENT TEMPERATURE		*AT OPERATING TEMPERATURE	
	<i>(cold, before operating)</i>		<i>(hot, after 1 to 2 hrs. operation)</i>	
	psi	(bar)	psi	(bar)
PH1	175	<i>(12)</i>	220	<i>(15)</i>
PH2	175	<i>(12)</i>	220	<i>(15)</i>
PH3	175	<i>(12)</i>	220	<i>(15)</i>
PH4	175	<i>(12)</i>	220	<i>(15)</i>

*The gas charge tolerance is plus 0, minus 25 psi (2 bar).