

F3 Torque Chart

Pressure In PSI	Torque			Pressure In Bars
	FT.LBS.	KGM	NM	
1500	432	60	586	104
1600	462	64	627	110
1800	523	73	709	124
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2000	584	81	792	138
2200	644	89	873	152
2400	704	98	954	165
2600	764	106	1036	179
2800	824	114	1117	193
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3000	884	123	1198	207
3200	944	131	1280	220
3400	1004	139	1361	234
3600	1064	148	1442	248
3800	1124	156	1524	262
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4000	1184	164	1605	276
4200	1243	173	1685	290
4400	1302	181	1766	303
4600	1362	189	1846	317
4800	1421	197	1926	331
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5000	1480	206	2006	345
5200	1539	214	2087	358
5400	1598	222	2167	372
5600	1658	230	2247	386
5800	1717	238	2327	400
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6000	1776	247	2408	414
6200	1835	255	2488	427
6400	1894	263	2568	441
6600	1954	271	2648	455
6800	2013	280	2729	468
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7000	2072	288	2809	482
7200	2131	296	2889	496
7400	2190	304	2969	510
7600	2250	313	3050	524
7800	2309	321	3130	538
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8000	2368	329	3210	552
8200	2427	337	3290	565
8400	2486	345	3371	579
8600	2546	354	3451	593
8800	2605	362	3531	607
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9000	2664	370	3611	620
9200	2723	378	3692	634
9400	2782	386	3772	648
9600	2842	395	3852	662
9800	2901	403	3932	676
10000	2960	411	4013	690

IMPORTANT SAFETY INSTRUCTIONS

WARNING: Your **HYTORC TORQUE MACHINE** is a power tool, and as with any power tool, certain safety precautions should be observed to avoid accidents or personal injury. The following tips will assist you.

- **READ ALL INSTRUCTIONS.**
- **KEEP WORK AREA CLEAN AND WELL LIT.**
- **CONSIDER WORK AREA ENVIRONMENT.** Electrical Pumps should never be used in an atmosphere which can be considered potentially volatile. If there is any doubt, use an air pump. Also Note: metal to metal contact can cause sparks, precautions should be taken.
- **AVOID PREMATURE TOOL STARTING.** The Pump Remote Control is for the **TOOL OPERATOR** only.
- **STAY CLEAR DURING OPERATION.** In most cases, the tool will allow “hands free” operation. If the tool must be held or steadied during operation, use alternative means of securing the tool to the application
- **GUARD AGAINST ELECTRIC SHOCK.** Ensure the pump is properly grounded and the proper voltage is being used.
- **STORE IDLE TOOLS.** When not in use, tool and accessories should be properly stored to avoid deterioration
- **USE RIGHT TOOL.** Don't force small tools or attachments to do the job of a larger tool. Don't use a tool for purposes not intended.
- **PROPER SAFETY ATTIRE.** When handling/operating hydraulic equipment use work gloves, hard hats, safety shoes and other applicable clothing.
- **USE SAFETY GLASSES.**
- **MOVING EQUIPMENT.** Do not use hydraulic hoses, uni-swivels, pump power or remote cords as means of moving the equipment.
- **MAINTAIN TOOLS WITH CARE.** For top performance, inspect tools, powerpack and accessories for visual damage frequently and always prior to use. Always follow instruction for proper tool and pump maintenance. Refer to the Operations Maintenance Section for further clarification
- **STAY ALERT.** Watch what you are doing. Use Common sense. Do not use power equipment under the influence of any mood altering substances.
- **PRIOR TO OPERATION**
Ensure that all hydraulic connections are securely connected and there is no leakage
Verify that the Hydraulic hoses are not kinked or otherwise damaged.
Ensure the square drive and its retainer are fully and securely engaged.
Be certain that all connectors, elbows, fitting and swivels are not bent, loose or damaged.
- **PRIOR TO USE.**
Check sockets for size, quality and flaws. (Do not use if questionable)
Cycle tool to ensure proper function.
Locate a solid, secure reaction point.
Be sure the reaction arm retaining clamp is fully engaged.
Be sure the hydraulic hoses are free of the reaction point.
Pressurize the system momentarily; if the tool tends to “ride up” or to “creep”, stop and re-adjust the reaction arm to a more solid and secure position.

NOTE: Remain clear of the reaction arm during operation and never put body parts between reaction arm and reaction surfaces.

- **ALWAYS USE QUALITY ACCESSORIES.** Always use top quality impact sockets in good condition which are the correct size and fully engage the nut. Hidden flaws, however, remain a possibility which could cause breakage, so stay clear of sockets during operation
- **DO NOT USE** other equipment to enhance performance (Hammer on Socket/Tool)

NOTE: Hytorc Pumps are designed to operate Hytorc Tools only. Damage may occur to the pump or the product that is being operated due to misuse.

SAVE THESE INSTRUCTIONS FOR FUTURE USE!