HYTORC

TOOL MODEL: AVANTI 50

PRESSURE/TORQUE CONVERSION CHART

Standard Torque Chart

PRESSURE IN PSI	TORQUE IN FT.LBS.	TORQUE IN KGM	TORQUE IN NM	PRESSURE IN BAR
1500	7202	996	9763	104
1600	7695	1064	10432	110
1800	8682	1201	11770	124
2000	9669	1337	13107	138
2200	10632	1470	14412	152
2400	11594	1603	15717	165
2600	12557	1737	17022	179
2800	13519	1870	18327	193
3000	14482	2003	19632	207
3200	15455	2137	20951	220
3400	16428	2272	22269	234
3600	17400	2406	23588	248
3800	18373	2541	24907	262
4000	19346	2676	26225	276
4200	20242	2800	27440	290
4400	21138	2923	28655	303
4600	22035	3047	29870	317
4800	22931	3171	31085	331
5000	23827	3295	32300	345
5200	24726	3420	33519	358
5400	25625	3544	34737	372
5600	26524	3668	35956	386
5800	27423	3793	37175	400
6000	28322	3917	38393	414
6200	29192	4037	39572	427
6400	30061	4157	40751	441
6600	30931	4278	41930	455
6800	31800	4398	43109	468
7000	32670	4518	44287	482
7200	33653	4654	45620	496
7400	34636	4790	46953	510
7600	35619	4926	48285	524
7800	36602	5062	49618	538
8000	37585	5198	50950	552
8200	38513	5326	52208	565
8400	39441	5455	53466	579
8600	40369	5583	54724	593
8800	41297	5711	55982	607
9000	42225	5840	57240	620
9200	43005	5948	58298	634
9400	43785	6056	59355	648
9600	44566	6163	60413	662
9800	45346	6271	61471	676
10000	46126	6379	62528	690

* ISO DOCUMENT 9000

REV. 11/26/2007

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 INSTUCTIONS.**
- **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 AGAINS ELECTRIC SHOCK.** Ensure the pump is properly grounded and the proper voltage is being used
- **STORE IDLE TOOLS.** When not in use, tool sand 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 andsecure 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 NOR 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!