HYTORC

TOOL MODEL: AVANTI 80

PRESSURE/TORQUE CONVERSION CHART

Standard Torque Chart

PRESSURE IN PSI	TORQUE IN FT.LBS.	TORQUE IN KGM	TORQUE IN NM	PRESSURE IN BAR
1500	11965	1655	16220	104
1600	12802	1771	17354	110
1800	14476	2002	19624	124
2000	16150	2234	21893	138
2200	17847	2468	24193	152
2400	19544	2703	26494	165
2600	21241	2938	28794	179
2800	22938	3172	31095	193
3000	24635	3407	33395	207
3200	26351	3644	35721	220
3400	28067	3882	38048	234
3600	29783	4119	40374	248
3800	31499	4356	42700	262
4000	33215	4594	45026	276
4200	34925	4830	47344	290
4400	36635	5067	49662	303
4600	38345	5303	51980	317
4800	40055	5540	54299	331
5000	41765	5776	56617	345
5200	43501	6016	58970	358
5400	45237	6256	61323	372
5600	46973	6496	63677	386
5800	48709	6736	66030	400
6000	50445	6977	68383	414
6200	52323	7236	70929	427
6400	54201	7496	73475	441
6600	56079	7756	76021	455
6800	57957	8015	78567	468
7000	59835	8275	81112	482
7200	61441	8497	83289	496
7400	63047	8719	85467	510
7600	64653	8942	87644	524
7800	66259	9164	89821	538
8000	67865	9386	91998	552
8200	69646	9632	94412	565
8400	71427	9878	96826	579
8600	73208	10125	99241	593
8800	74989	10371	101655	607
9000	76770	10617	104069	620
9200	78555	10864	106489	634
9400	80340	11111	108909	648
9600	82125	11358	111329	662
9800	83910	11605	113748	676
10000	85695	11852	116168	690

* ISO DOCUMENT 9000

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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!