

## *MMG5B SERIES*

# HYDRAULIC MOTOR REDUCTION UNIT 5:1 RATIO with BRAKE



TYPE		MMG5B-T										
MOTOR SIZE		32 W-T	50 W-T	63 W-T	75 W-T	100 W-T	125 W-T	150 W-T	200 W-T	250 W-T	300 W-T	400 W-T
DISPLACEMENT per OUTPUT rpm	cm <sup>3</sup> in <sup>3</sup>	166.0 10.10	249.0 15.25				631.3 38.60				1579.5 96.60	2002.0 121.45
MAX. OUTPUT SPEED	rpm cont. rpm int.	280 320				120 150		75 90	60 75	48 60	38 48	
MAX. OUTPUT TORQUE	Nm cont. lbf.in cont.	220 1947	500 4425			1200 10620	1500 13275	150 13275	1500 13275	1500 13275	1500 13275	1500 13275
MAX. PRESSURE DROP	bar cont. psi cont.	100 1450	140 2030				_	165 2390	130 1890	l		
	bar int. psi int.	140 2030	175 2540		200 2900		200 2900	200 2900	175 2540	l		
MAX. OIL FLOW	lpm cont. gpm cont.	50 11	40 8.8		60 13.2	60 13.2	60 13.2	60 13.2	60 13.2	1		60 13.2
	lpm int. gpm int.	55 12.2	50 11		75 16.5	75 16.5	75 16.5	75 16.5	75 16.5	1		75 16.5

Maximum continuous output torque 13275 lbf.in (1500Nm)

This unit must have gearbox drain piped to tank without obstruction from the highest point see mounting positions.

#### **Basic Motor Detail**

Spring applied pressure release Static brake torque 2655 lbf.in - 300 Nm Brake release pressure 362 psi - 25 bar Maximum brake pressure 200 bar

Maximum inlet pressure 3250 psi - 224 bar

Maximum pressure drop and speed must not be reached simultaneously. Intermittent operation may occur for 10% max. of every minute.

At speeds lower than 10 rpm please consult our Technical Department. Mineral based hydraulic fluids with anti-wear additives are recommended with a viscosity of 35 mm²/s at a temperature of 50 °C.

Minimum recommended oil viscosity 13 mm²/s at operating temperature. Recommended oil cleanliness ISO 19/14 with a nominal filtration of 25 micron or better.

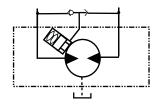
Where non-flammable fluids are to be used it is advisable to consult our Technical Department.

Ambient temperature should be between -30°C and +90°C.

Normal operating temperature should be between +30°C and +60°C.

Maximum operating temperature +85°C.

SYMBOL c/w MSV



#### **Motor / Brake Precautions**

To ensure proper operation of the brake, a separate case drain back to tank must be used due to the possibility of return line pressure spikes. A simple schematic of a system utilizing a motor/ brake is shown in the diagram below.

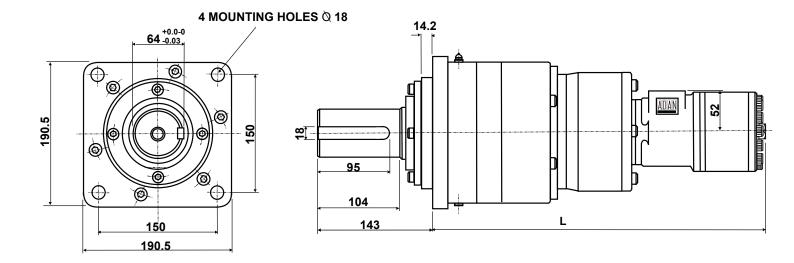
To achieve proper brake release operation, it is necessary to bleed out any trapped air and fill brake release cavity and hoses before all connections are tightened. It is advisable that the brake release port should be positioned as near the top of the unit in the installed position.

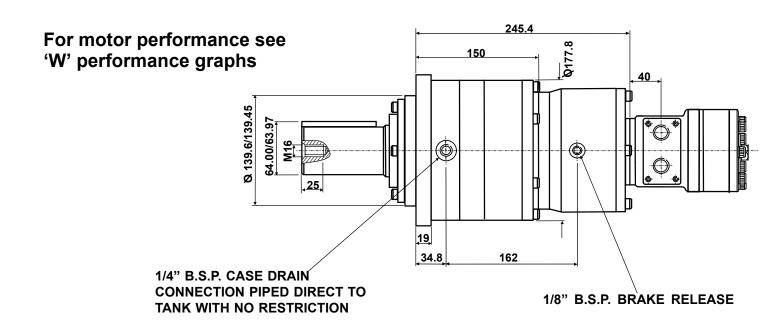
#### Caution

All Adan motor / brakes are intended to operate as static parking brakes, the system should be designed to bring the load to a stop before the brake is applied.

With large displacement motors it is possible for the motor to produce higher torques than the brake will hold, it is critical that the maximum system pressure is limited in these applications. It is vital that the system relief be set low enough to ensure the motor is not able to produce more torque than the brake can hold.

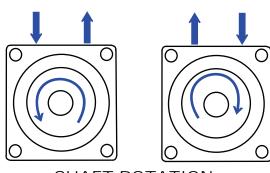
Failure to do so may result in serious injury or death.



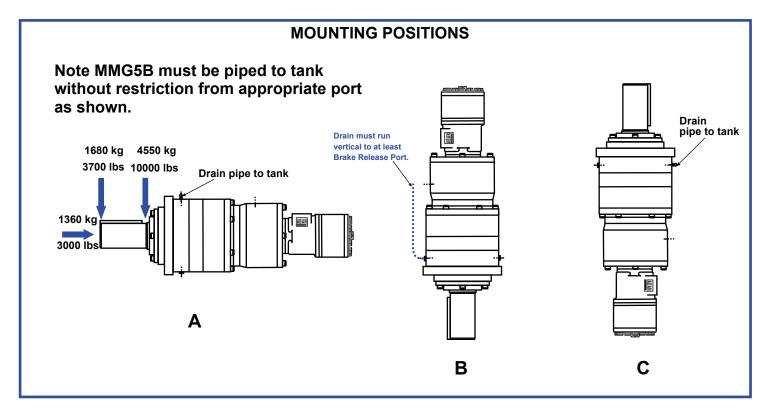


MMG5B	50	75	100	150	200	300	400
DIMN L mm	365.9	371.2	374.6	384.6	391.9	409.2	425.9
WEIGHT kg	52.6	52.8	53.1	53.5	54.0	54.9	55.9

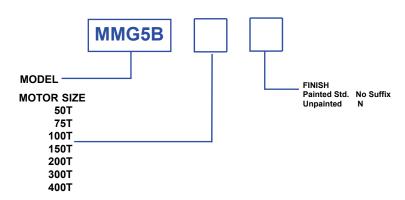
Hydraulic motor reduction brake unit comprising the Adan T series motor with the oil immersed multi-disc type spring actuated hydraulically release brake unit. Combined with the proven 5:1 ratio planetary gearbox. These units are built to operate under the most arduous conditions for long periods with minimum maintenance and have been successfully employed in the industrial, mobile, agricultural, mining and marine fields.



SHAFT ROTATION



#### **ORDERING CODE**



The policy of Adan Limited is one of continual development and the right is reserved to alter specifications without notice.



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