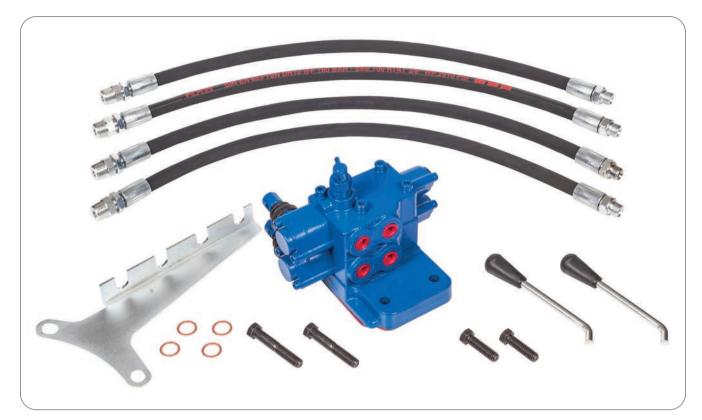


## SPECIAL TRACTOR VALVES GMM-FRD5000







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#### **Additional Informations**

**Note:** This catalog shows the product in the most standard configurations. For Other Configurations, more detailed information or special request, Please contact Customer Service Dpt.

Warning! :All specifications of this catalog refer to the standard product at this date (10/2019). GEMMA, oriented to a continuous improvement, reserves the right to discontinue, modify or revise the specifications, without notice.

GEMMA IS NOT RESPONSIBLE FOR ANY DAMAGE CAUSED BY AN INCORRECT USE OF THE PRODUCT.

#### WORKING CONDITIONS

Nominal Flow Rating / Displacement	45 l/min	12 U.S.G.P.M
Maximum Working Pressure	315 Bar	4600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperture with NBR Seals	-20 to 80 C°	-4 to 176 F °
with FPM (Viton) Seals	M (Viton) Seals -20 to 100 C°	
Oil Viscosity – Operating Range	From 10 to 75 mm2/s	From 10 to 75 cSt
Minumum / Maximum	10/400 mm2/s	10 / 400 cSt
Oil Filtration	≤30 µ	
Ambiant Temperture Range	-35 to 60 C°	-31 to 140 F °
Number Of Spools	1 to 3	
İnternal Leakage (at 100 bar (1450 PSI), 40C° (110 F°), 46 cSt – A(B)–T)	3 cm3/min	0,18 in3/min
Max. Level Of Contamination	19/16 - ISO 4406	

Not: This catalogue shows technical specifications measured with mineral oil of 46 mm2/s-46 cSt viscosity at 40 C° temparture.

#### **Features**

• Simple, compact and heavy duty designed sectional truck mounted valves from 1 to 3 sections for open center hydraulic systems.

- Interchangeable spool diametre is 16 mm 0,63 in.
- It can be work working section and truck lift for some time.
- It has low tank pressure for additional tank line.
- It can be use single and double acting for only last working section.

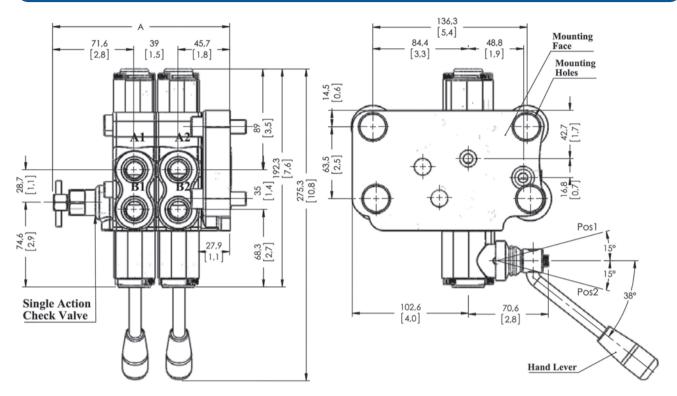






# G Gemma

#### DIMENSIONAL DATA



ТҮРЕ	A		WEIGHT	
ITPE	mm	in	Kg	lb
GMM-FRD5000-2	117,0	4,61	7,18	15,83
GMM-FRD5000-4	156,0	6,14	10,74	23,68
GMM-FRD5000-6	195,0	7,68	14,45	31,83

#### STANDARD THREADS

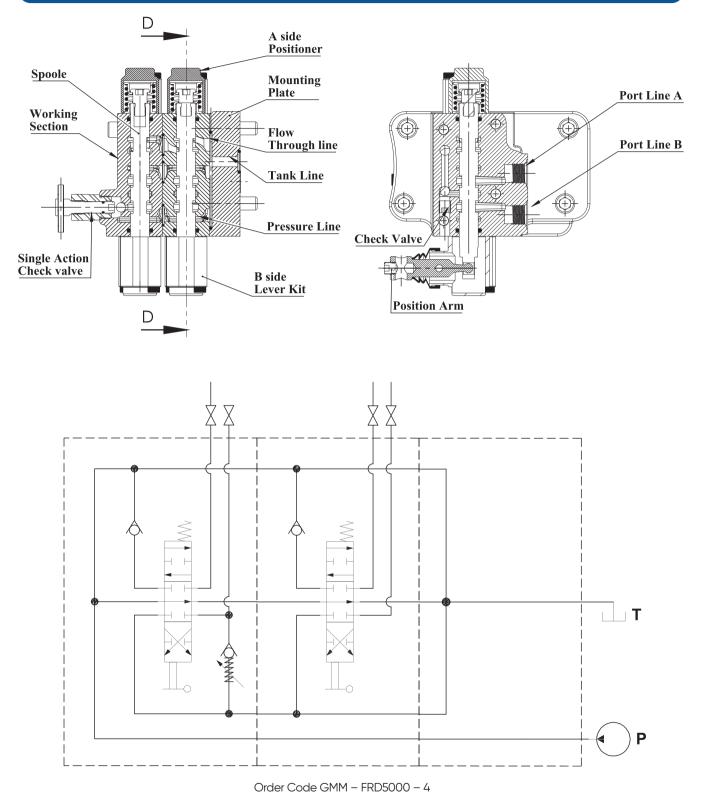
PORT	BSP (Iso 228) 3/8" Series ½"Series		UN-UNF (Iso 11926-1)	Metric (Iso 262)	
P Inlet			Plate Mounted		
A-B Ports	G 3/8	G 1/2	9/16-18 UNF	M18x1.5	
T Outlet			Plate Mounted		

#### **Compatible Models**

Ford (All Old Models ) 5000 Series – 5000, 5600 6000 Series – 6000, 6600



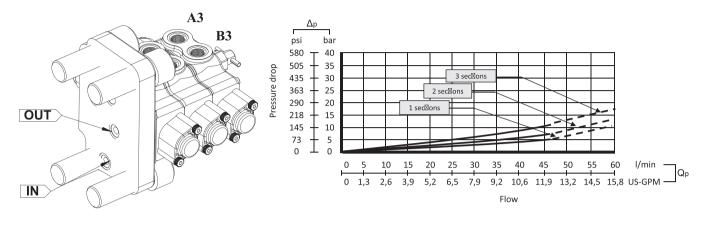
#### HYDRAULIC CIRCUIT



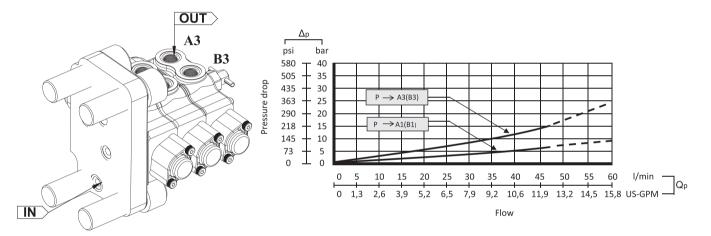


#### PERFORMANCE DATA AND CURVE

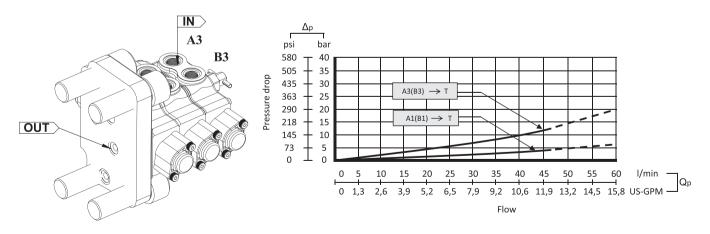
#### **Open Center - Pressure Drop (P-T)**



#### Inlet to Work Port - Pressure Drop (P-A/B)



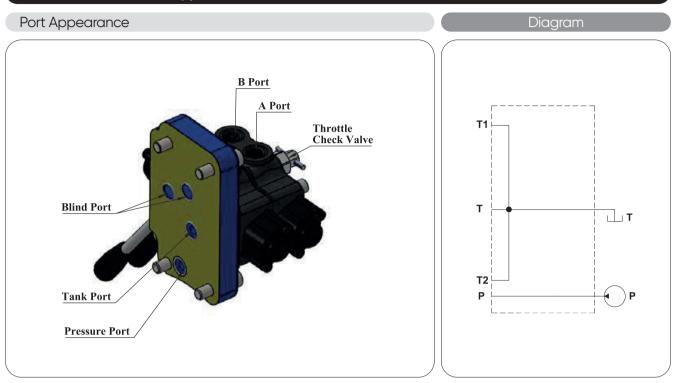
#### Work Port to Outlet - Pressure Drop (A/B-T)





#### PORTS AND MOUNTING FACE

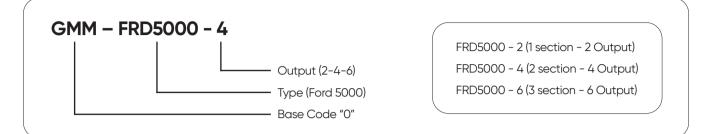
#### Port Directional And Type





#### **ORDERING CODES AND INSTALLATION**

#### **Order Code**



#### Installation

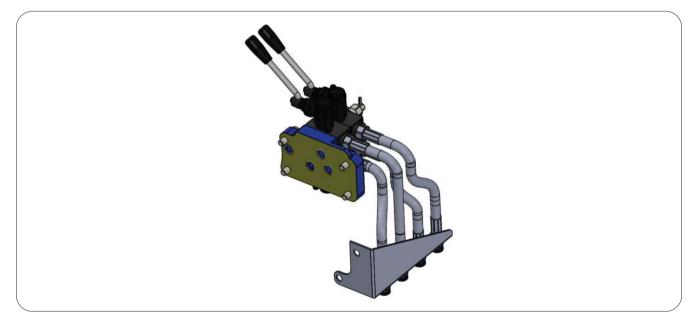
The GMM FRD5000 value is assembled and tested as per the technical specification of this catalog. Before the final installation on your equipment, follow the below recommendation:

• The valve can be assembled in any position, in order to prevent body deformation and spool sticking mount the product on a flat surface;

• In order to prevent the possibility of water entering the lever box and spool control

kit, do not use high pressure wash down directly on the valve;

• Before painting, ensure plastic port plugs are tightly in place.



MODEL	HOSE	COPPER WASHER	SHEET CONNECTION	CONNECTION BOLT	LEVER COUNT
GMM - FRD5000-2	63 cm - 2 Pcs	2 pcs	2.33	UNC-7/16-1 1/2"-4 Pcs	1 pcs
GMM - FRD5000-4	63 cm - 4 Pcs	4 pcs		UNC-7/16-1 1/2"-4 Pcs	2 pcs
GMM - FRD5000-6	63 cm - 6 Pcs	6 pcs	Contraction of the second seco	UNC-7/16-1 1/2"-4 Pcs	3 pcs

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