

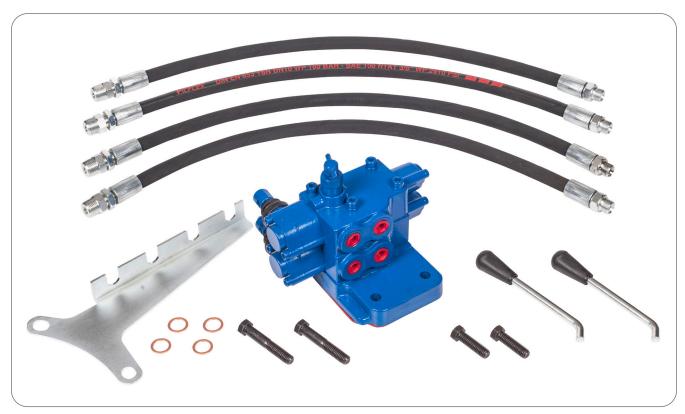


SPECIAL TRACTOR VALVES

ORV-FRD3000







CONTENTS	
Working Conditions	417
Dimensional Data	418
Hydraulic Circuit	419
Performance Data And Curve	420
Ports And Mounting Face	421
Ordering Codes And Installation	422

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) . ORVAL, oriented to a continuous improvement, reserves the right to discontinue, modify or revise the specifications, without notice.

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

ORV-FRD3000



WORKING CONDITIONS

Nominal Flow Rating / Displacement	45 I/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	-20 to 100 C°	-4 to 212 F °	
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		
internal 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.

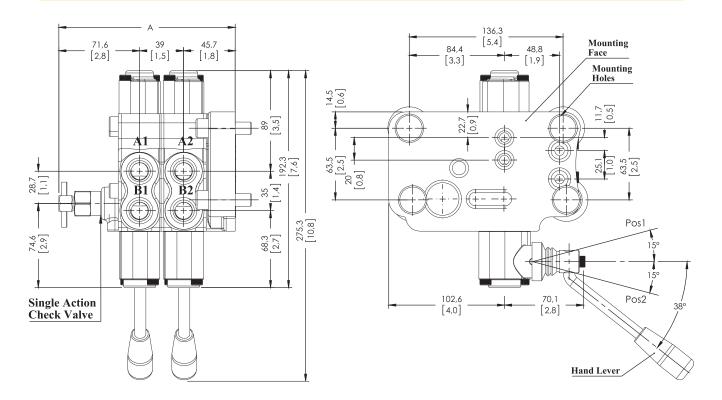
Features

- 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.





DIMENSIONAL DATA



TYPE	Α		WEIGHT	
TIPE	mm	in	Kg	lb
ORV-FRD3000-2	117,0	4,61	6,90	15,21
ORV-FRD3000-4	156,0	6,14	10,61	23,39
ORV-FRD3000-6	195,0	7,68	14,32	31,57

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		

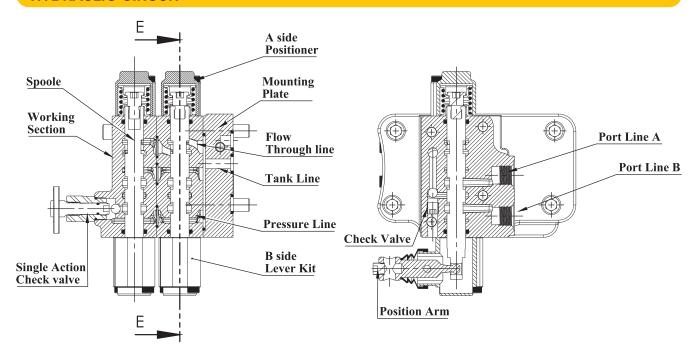
Compatible Models

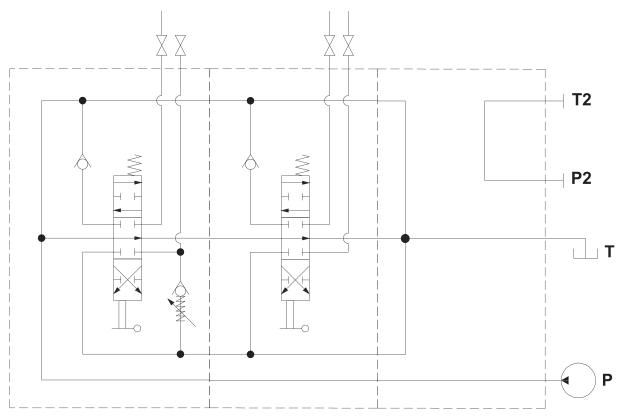
Ford All Old Models 3000 Series – 2000, 2600, 3000, 3600, 4000, 4600

ORV-FRD3000



HYDRAULIC CIRCUIT



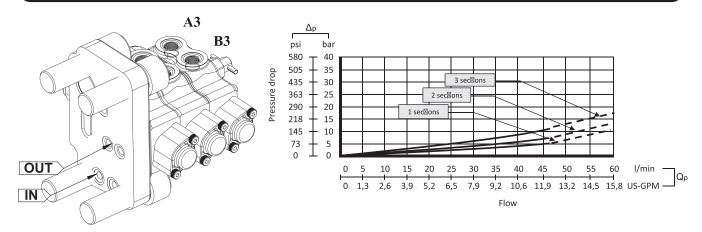


Order Code ORV - FRD3000 - 4

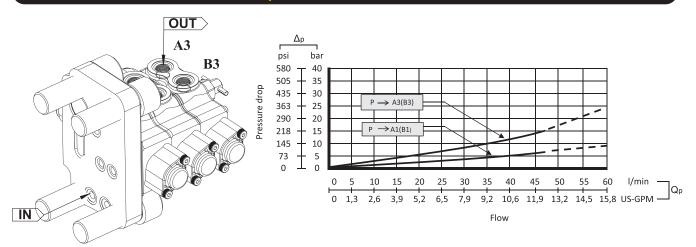


PERFORMANCE DATA AND CURVE

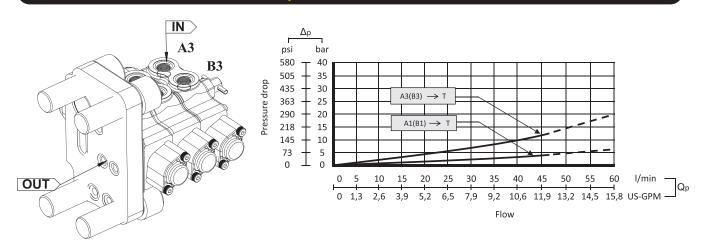
Open Center - Pressure Drop (P-T)



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



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



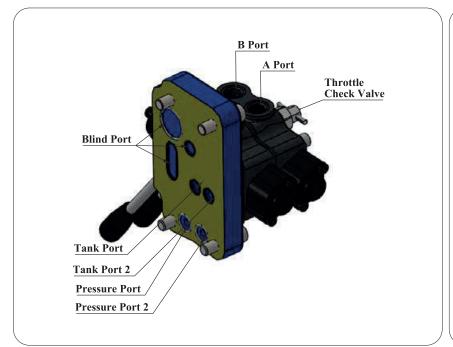
ORV-FRD3000



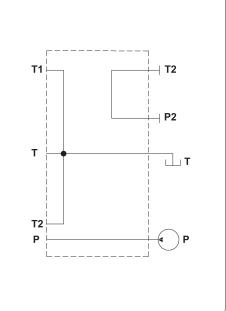
PORTS AND MOUNTING FACE

Port Directional And Type

Port Appearance



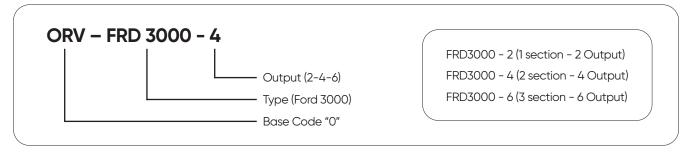
Diagram





ORDERING CODES AND INSTALLATION

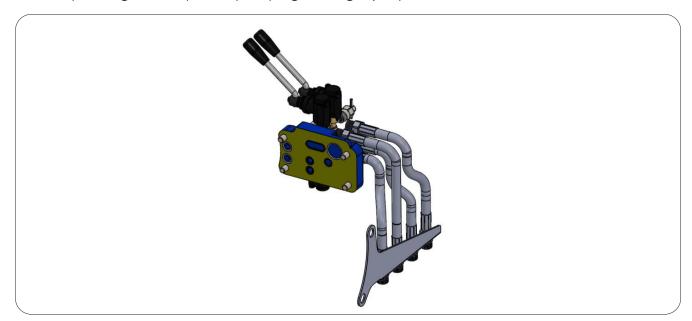
Order Code



Installation

The ORV FRD3000 valve 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 3/8"	SHEET CONNECTION	CONNECTION BOLT	LEVER COUNT
ORV - FRD3000-2	63 cm - 2 Pcs	2 pcs		UNC-7/16-1 1/2"-2 Pcs UNC 7/16-2 1/2"-2 Pcs	1 pcs
ORV - FRD3000-4	63 cm - 4 Pcs	4 pcs	min	UNC-7/16-1 1/2"-2 Pcs UNC 7/16-2 1/2"-2 Pcs	2 pcs
ORV - FRD3000-6	63 cm - 6 Pcs	6 pcs	Trrrr	UNC-7/16-1 1/2"-2 Pcs UNC 7/16-2 1/2"-2 Pcs	3 pcs

ORIGINAL VALVE

YA L HYDRAULIC

- Büsan Org. San. Fevzi Çakmak Mah. Kosgeb Cad. 10641. Sk. No: 37 Karatay/KONYA/TÜRKİYE
- satis@orval.com.tr
- bilgi@orval.com.tr

