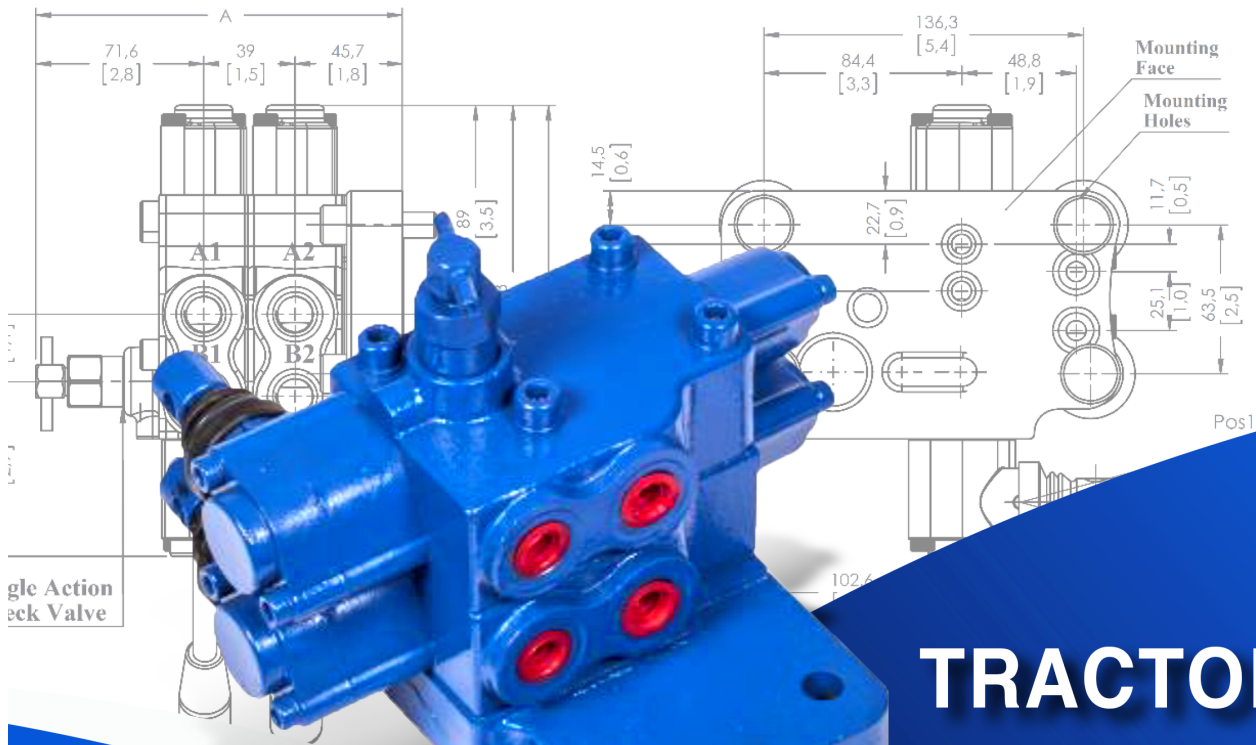




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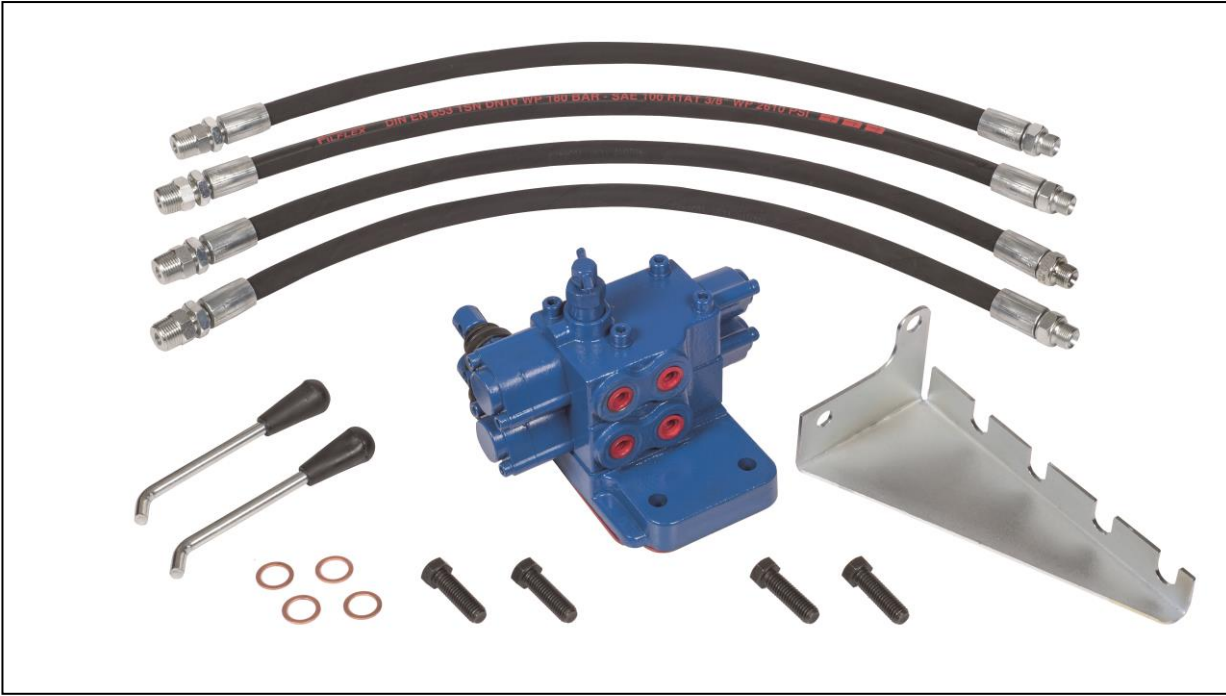


TRACTOR ORV FORD5000

ORIGINALVALVE

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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 Dept.

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.

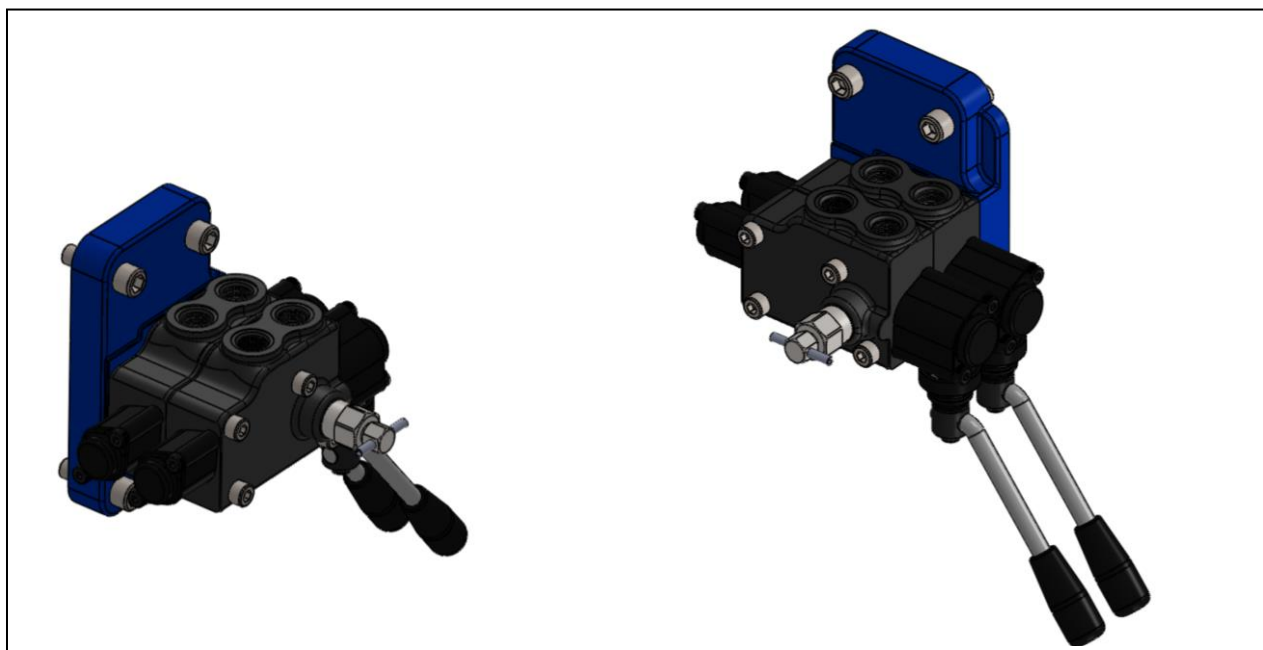
Working Conditions

Nominal Flow Rating / Displacement	45 l/min	12 U.S.G.P.M
Maximum Working Pressure (Series Circuit)	315 Bar	4600 PSI
Maximum Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Oil Viskosity – 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 Temperature 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.

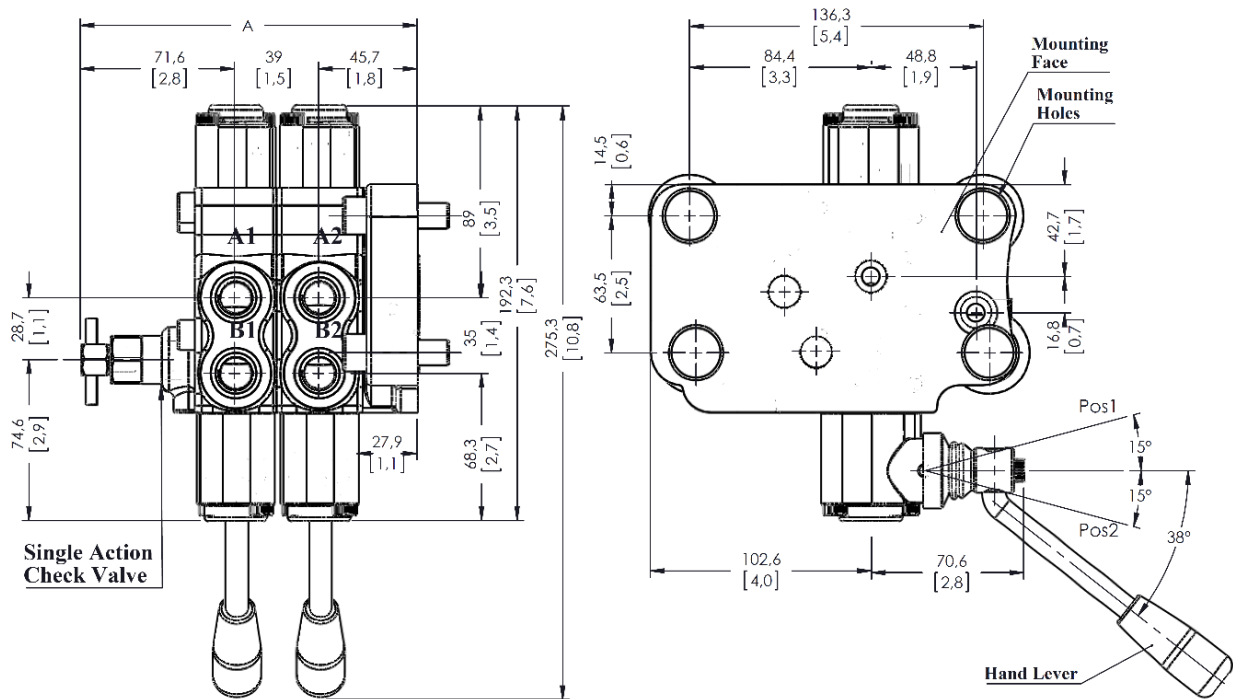
Features

- 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

Dimensional Data



TYPE	A		Weight	
	mm	in	Kg	lb
ORV- FRD 5 - 2	117,0	4,61	7,18	15,83
ORV- FRD 5 - 4	156,0	6,14	10,74	23,68
ORV- FRD 5 - 6	195,0	7,68	14,45	31,83

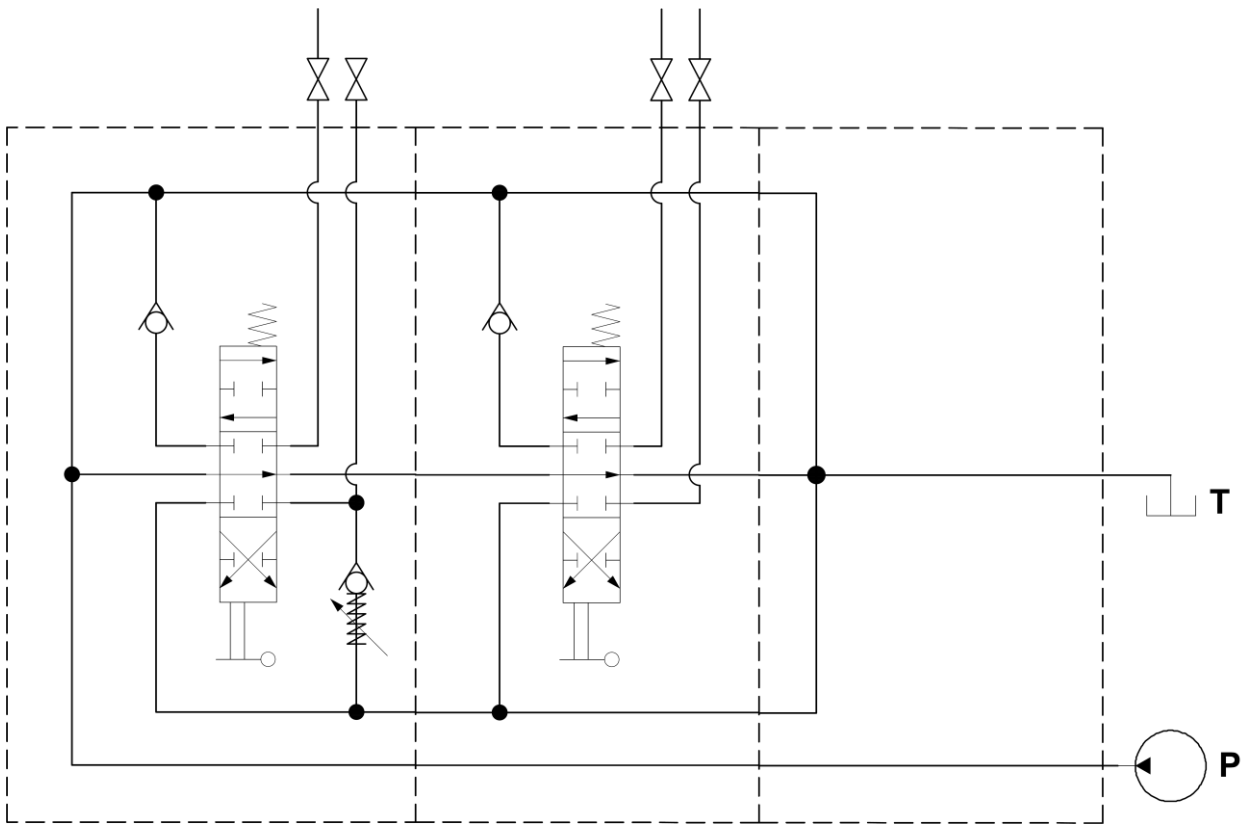
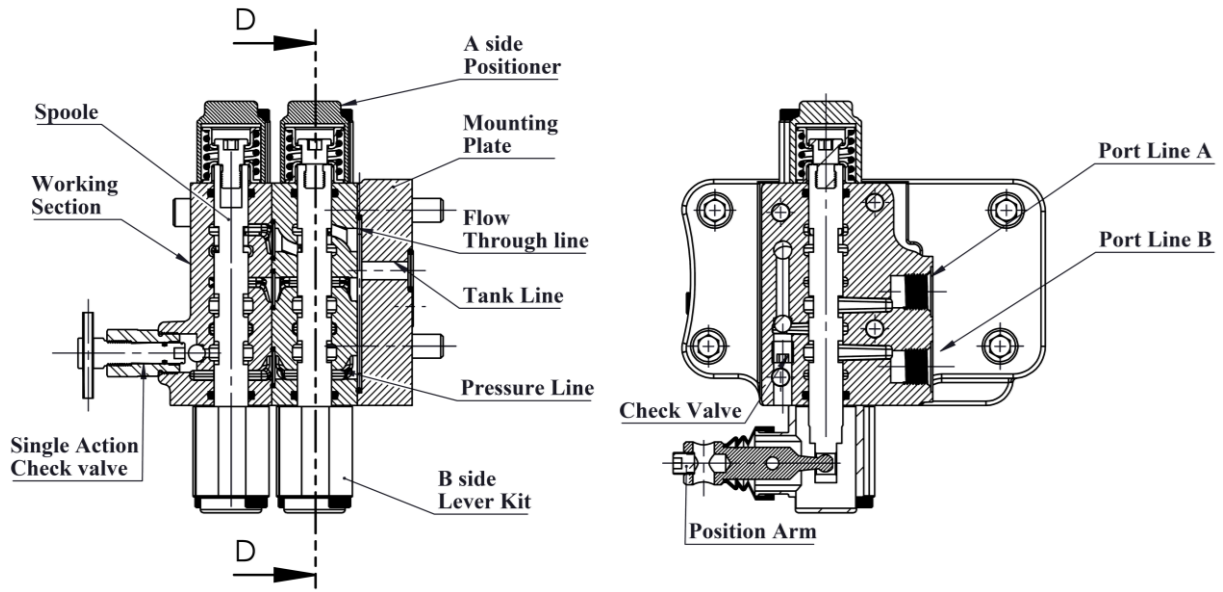
Standard Threads

PORT	BSP (Iso 228)		UN-UNF (Iso 11926-1)	Metric (Iso 262)
	3/8" Series	1/2" Series		
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

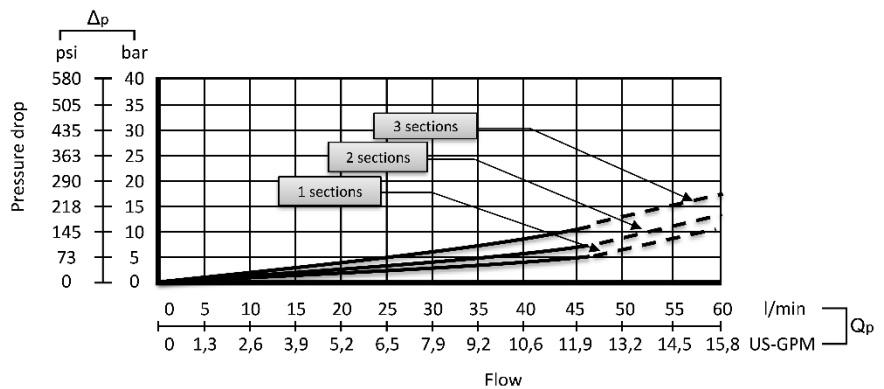
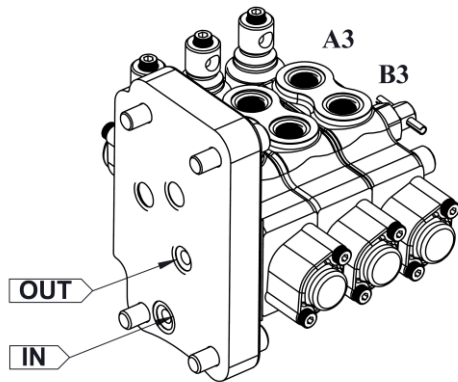
Hydraulic Circuit



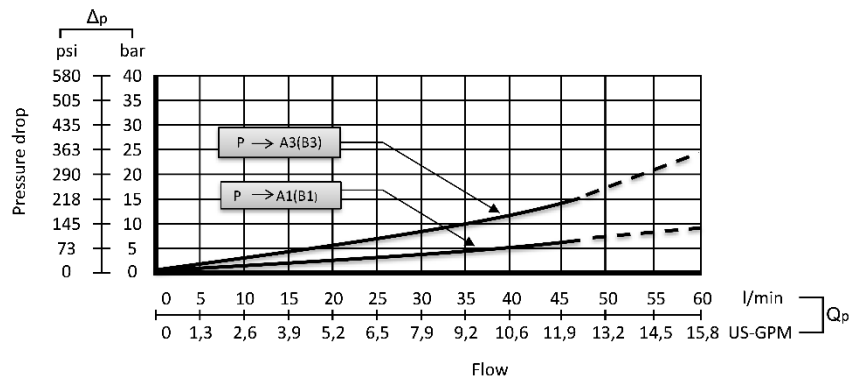
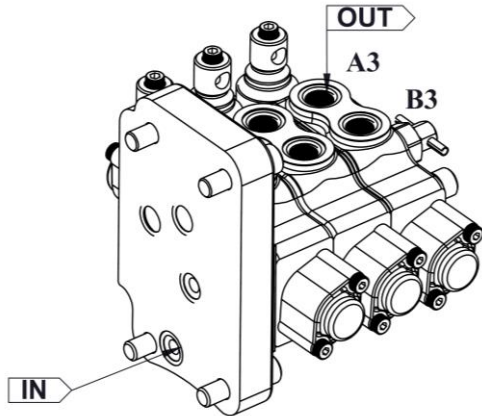
Order Code ORV – FRD 5 – 4

Performance Data And Curve

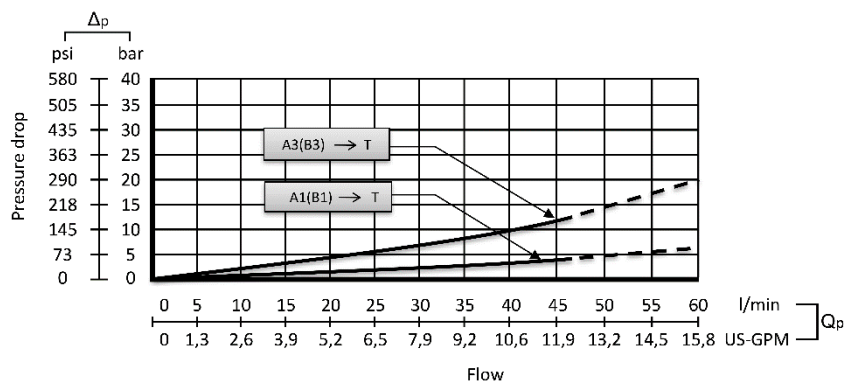
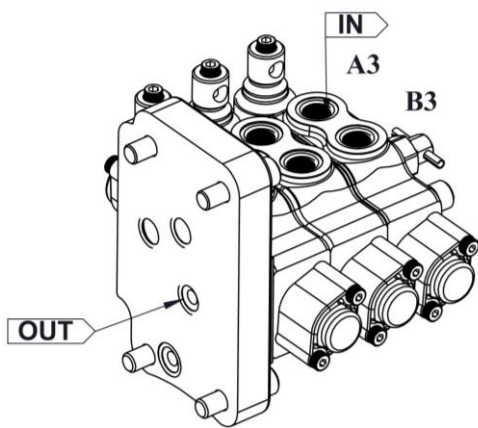
Open Center - Pressure Drop (P-T)



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

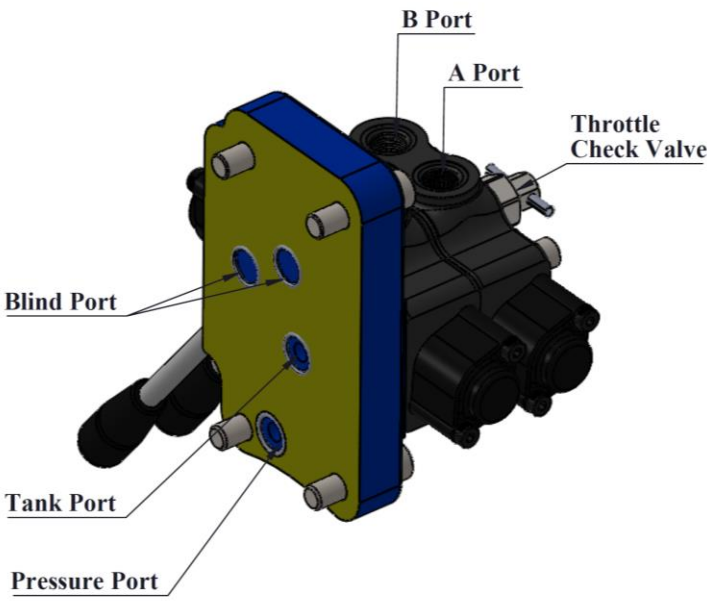
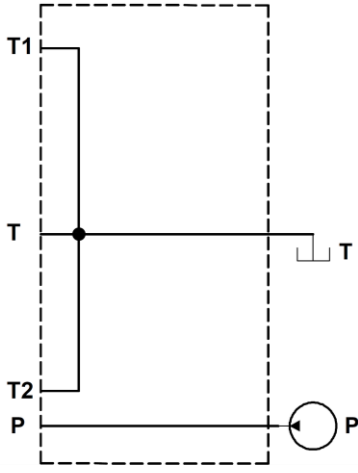


Work Port to Outlet - Pressure Drop (A/B-T)



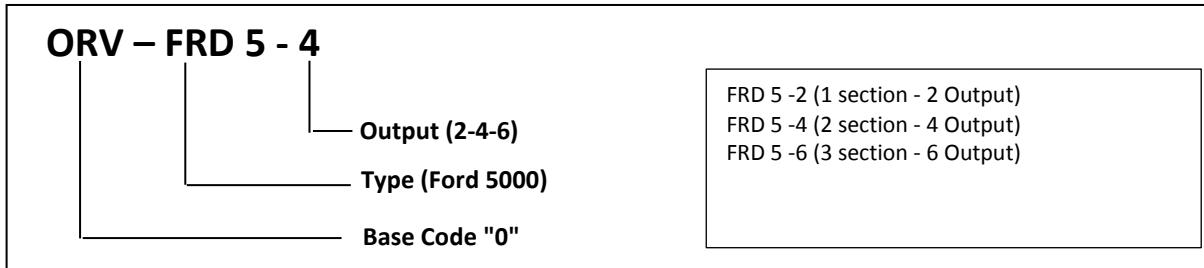
Ports And Mounting Face

Port Directional And Type

Port Appearance	Diagram
 <p>A 3D perspective view of the ORV-FRD 5 hydraulic valve. The valve body is primarily green and blue. Labels point to various components: 'B Port' at the top right, 'A Port' below it, 'Throttle Check Valve' on the right side, 'Blind Port' on the front face, 'Tank Port' at the bottom left, and 'Pressure Port' at the bottom right.</p>	 <p>A hydraulic schematic diagram enclosed in a dashed rectangular box. It shows a valve symbol with a central dot. Port 'T1' is connected to the top of the valve. Port 'T2' is connected to the bottom of the valve. Port 'P' is connected to the left side of the valve. Port 'T' is connected to the right side of the valve. A check valve symbol is shown on the line between the valve and port 'T'.</p>

Ordering Codes And Installation

Order Code

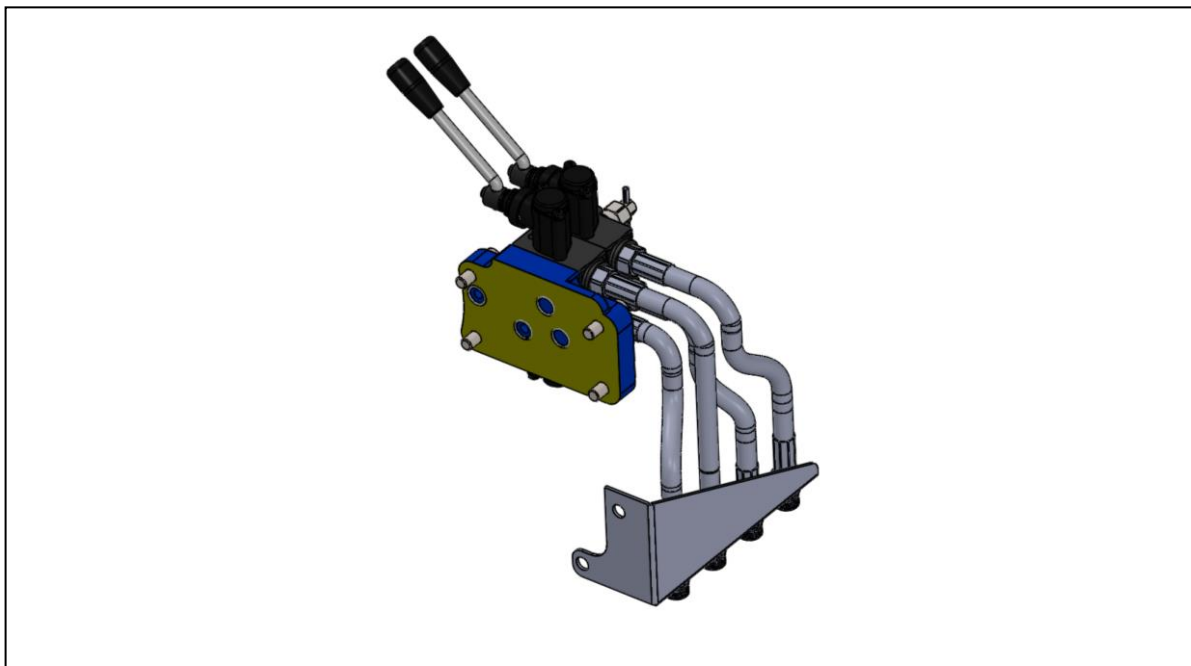


Installation

The ORV FRD 5 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;
- Prior to painting, ensure plastic port plugs are tightly in place.



Model	Hose	Copper Washer	Sheet Connection	Connection Bolt	Lever Count
ORV - FRD 5-2	 63 cm - 2 Pcs	2 Pcs		UNC -7/16-1 1/2" - 4 Pcs	1 Pcs
ORV - FRD 5-4	 63 cm - 4 cs	4 Pcs		UNC -7/16-1 1/2" - 4 Pcs	2 Pcs
ORV - FRD 5-6	 63 cm - 6 Pcs	6 Pcs		UNC -7/16-1 1/2" - 4 Pcs	3 Pcs

ORIGINAL VALVE



ORVAL

HYDRAULIC



CE

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