

HIDURO

HYDRAULIC

CONTROL VALVES





High Durability

MONOBLOCK VALVE

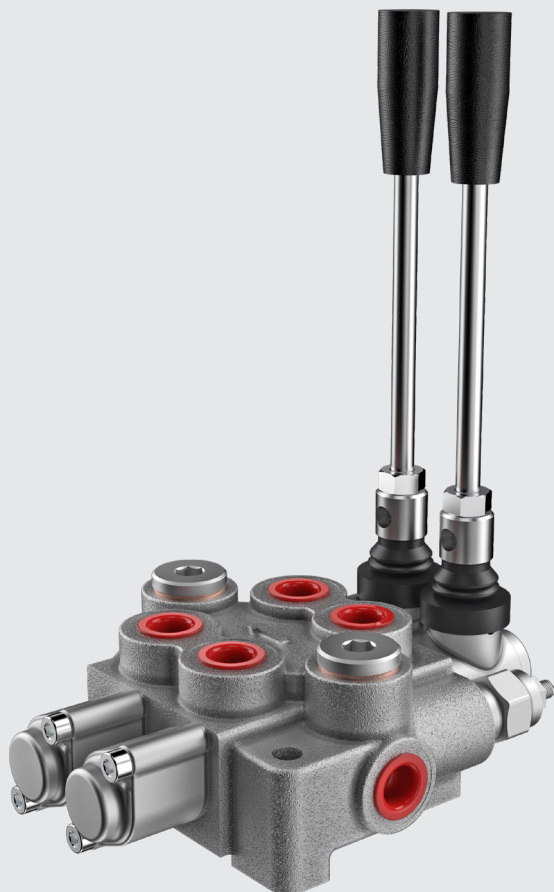
HDR-M40

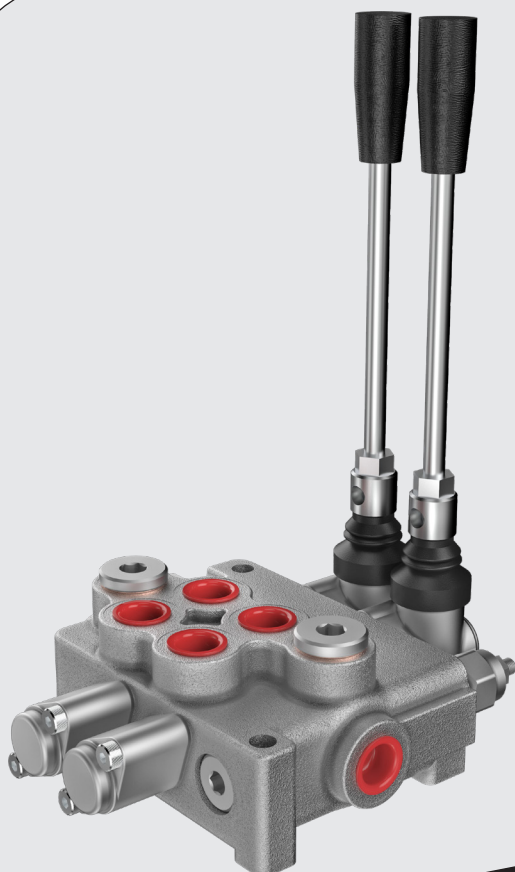
Nominal Flow Rating Displacement	40 l/min	11 U.S.G.P.M.
Maximum Working Pressure	250 Bar	3600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 180 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 200 F°
Number of Spools	1	



HDR-M45

Nominal Flow Rating Displacement	45 l/min	12 U.S.G.P.M.
Maximum Working Pressure (Series Circuit)	315 Bar	4600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Number of Spools	1 to 6	



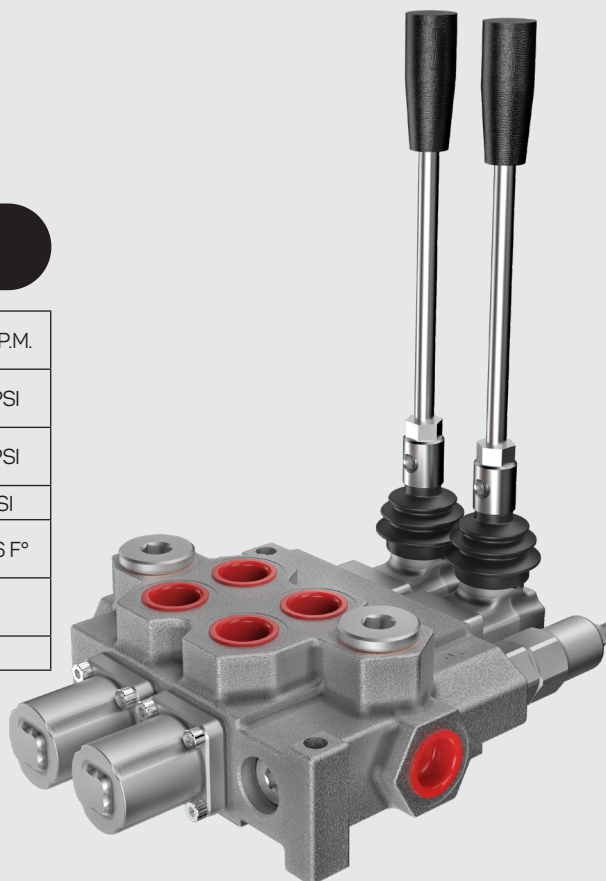


HDR-MS45

Nominal Flow Rating Displacement	45 l/min	12 U.S.G.P.M.
Maximum Working Pressure (Parallel Circuit)	315 Bar	4600 PSI
Maximum Working Pressure (Series Circuit)	250 Bar	3600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Number of Spools	1 to 7	

HDR-M70

Nominal Flow Rating Displacement	70 l/min	18 U.S.G.P.M.
Maximum Working Pressure (Parallel Circuit)	315 Bar	4600 PSI
Maximum Working Pressure (Series Circuit)	250 Bar	3600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	
Number of Spools	1 to 6	



MONOBLOCK VALVE

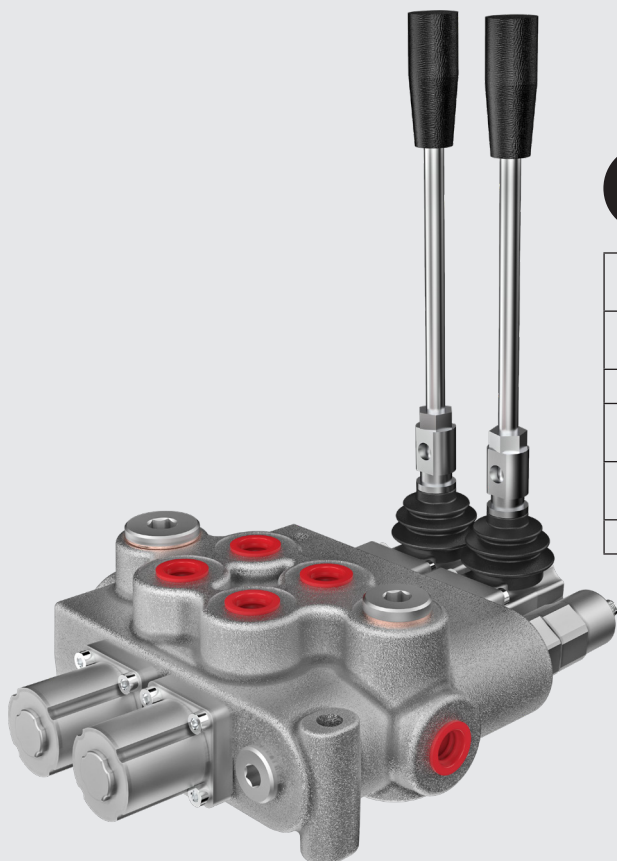
HDR-M80

Nominal Flow Rating Displacement	80 l/min	21 U.S.G.P.M.
Maximum Working Pressure (Series Circuit)	315 Bar	4600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Number of Spools	1 to 6	

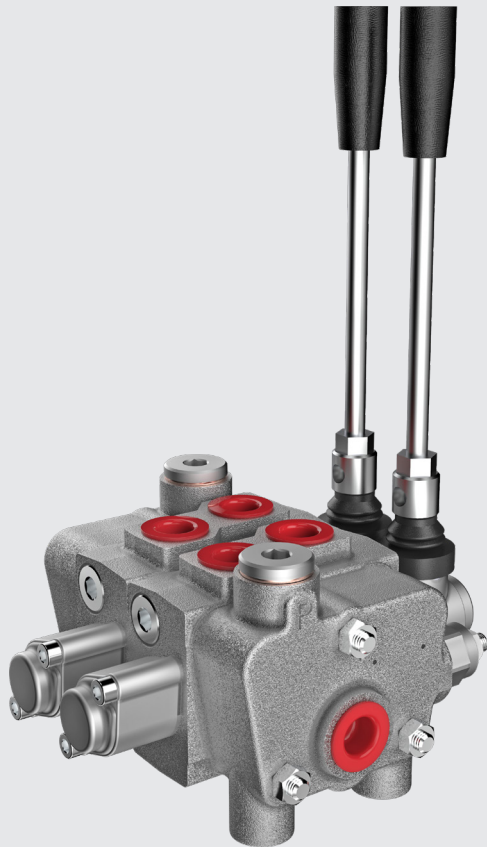


HDR-M100

Nominal Flow Rating Displacement	100 l/min	26 U.S.G.P.M.
Maximum Working Pressure (Series Circuit)	315 Bar	4600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Number of Spools	1 to 6	



SECTIONAL VALVE

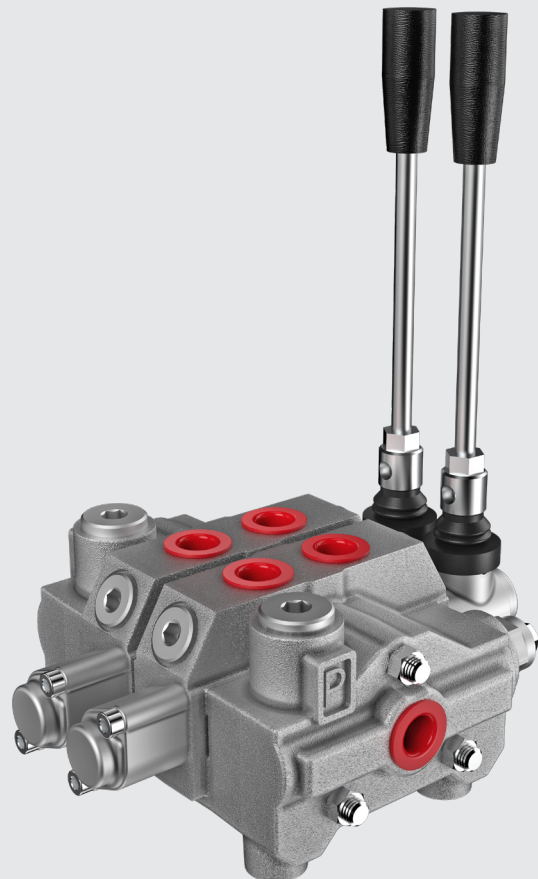


HDR-PD45

Nominal Flow Rating Displacement	45 l/min	12 U.S.G.P.M.
Maximum Working Pressure (Series Circuit)	210 Bar	3050 PSI
Maximum Working Pressure (Parallel Circuit)	315 Bar	4600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Number of Spools	1 to 12	
Tie Rod Tightening Torque	30 Nm	22 lbft

HDR-PD60

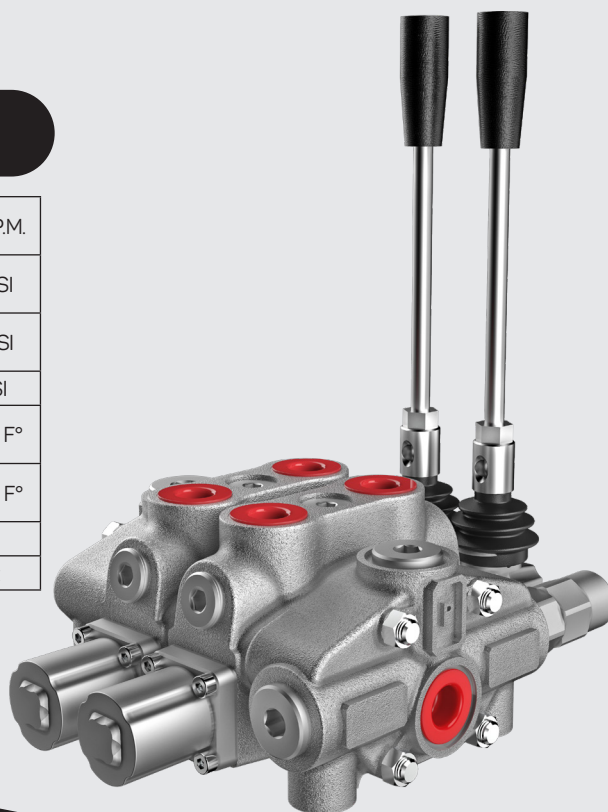
Nominal Flow Rating Displacement	60 l/min	16 U.S.G.P.M.
Maximum Working Pressure (Series Circuit)	210 Bar	3050 PSI
Maximum Working Pressure (Parallel Circuit)	315 Bar	4600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Number of Spools	1 to 12	
Tie Rod Tightening Torque	30 Nm	22 lbft



SECTIONAL VALVE

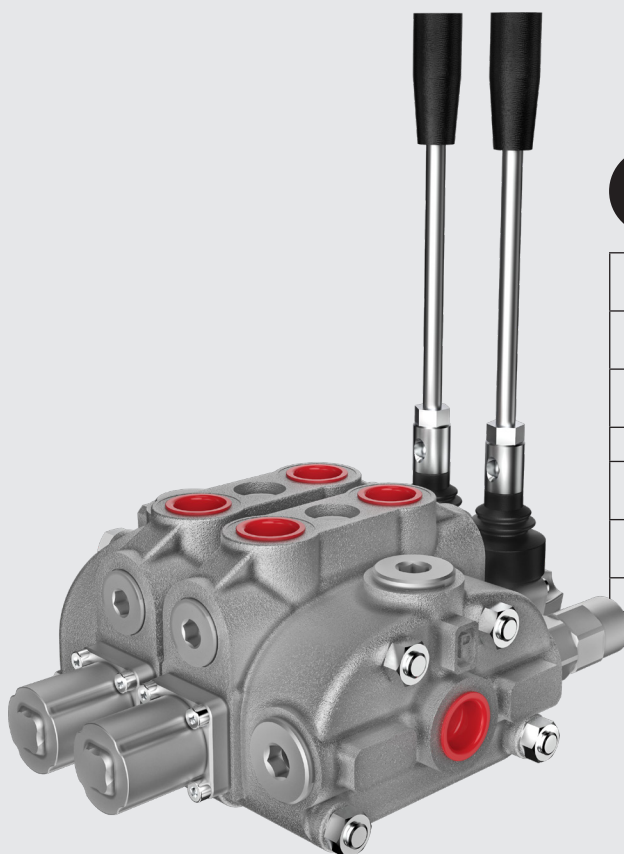
HDR-PD80

Nominal Flow Rating Displacement	80 l/min	21 U.S.G.P.M.
Maximum Working Pressure (Series Circuit)	210 Bar	3050 PSI
Maximum Working Pressure (Parallel Circuit)	315 Bar	4600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Number of Spools	1 to 12	
Tie Rod Tightening Torque	30 Nm	22 lbft



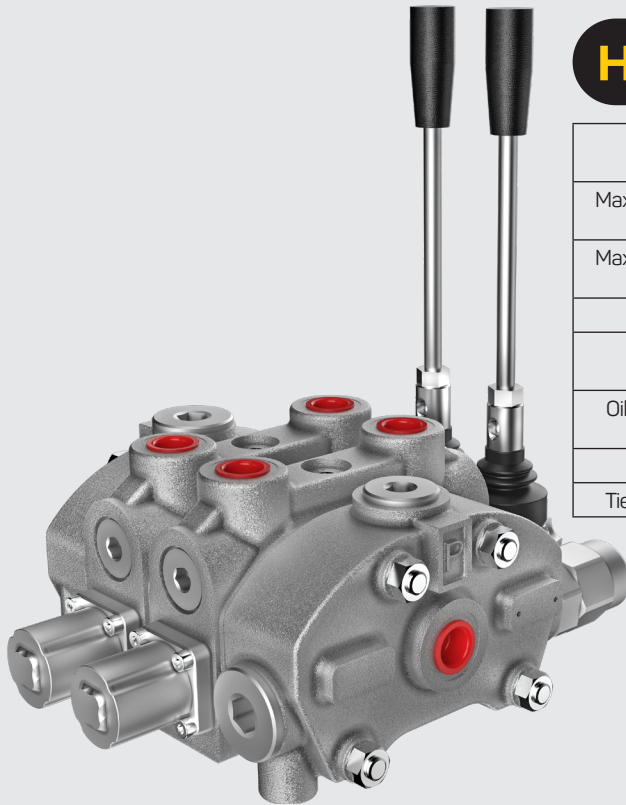
HDR-PD100

Nominal Flow Rating Displacement	100 l/min	26 U.S.G.P.M.
Maximum Working Pressure (Series Circuit)	210 Bar	3050 PSI
Maximum Working Pressure (Parallel Circuit)	315 Bar	4600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Number of Spools	1 to 12	
Tie Rod Tightening Torque	40 Nm	30 lbft



SECTIONAL VALVE

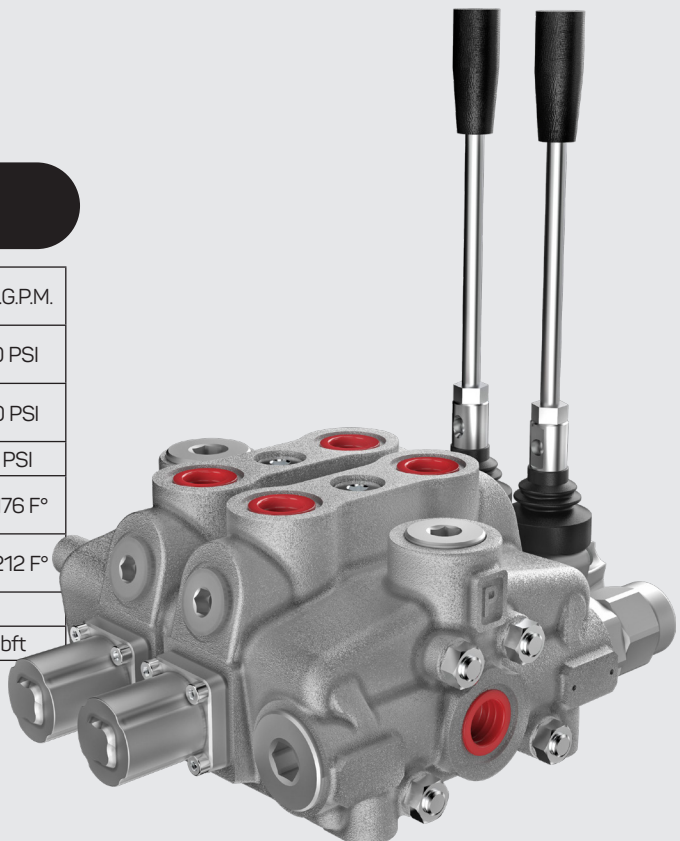
HDR-PD120



Nominal Flow Rating Displacement	120 l/min	31 U.S.G.P.M.
Maximum Working Pressure (Series Circuit)	210 Bar	3050 PSI
Maximum Working Pressure (Parallel Circuit)	315 Bar	4600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Number of Spools	1 to 12	
Tie Rod Tightening Torque	40 Nm	30 lbft

HDR-PD150

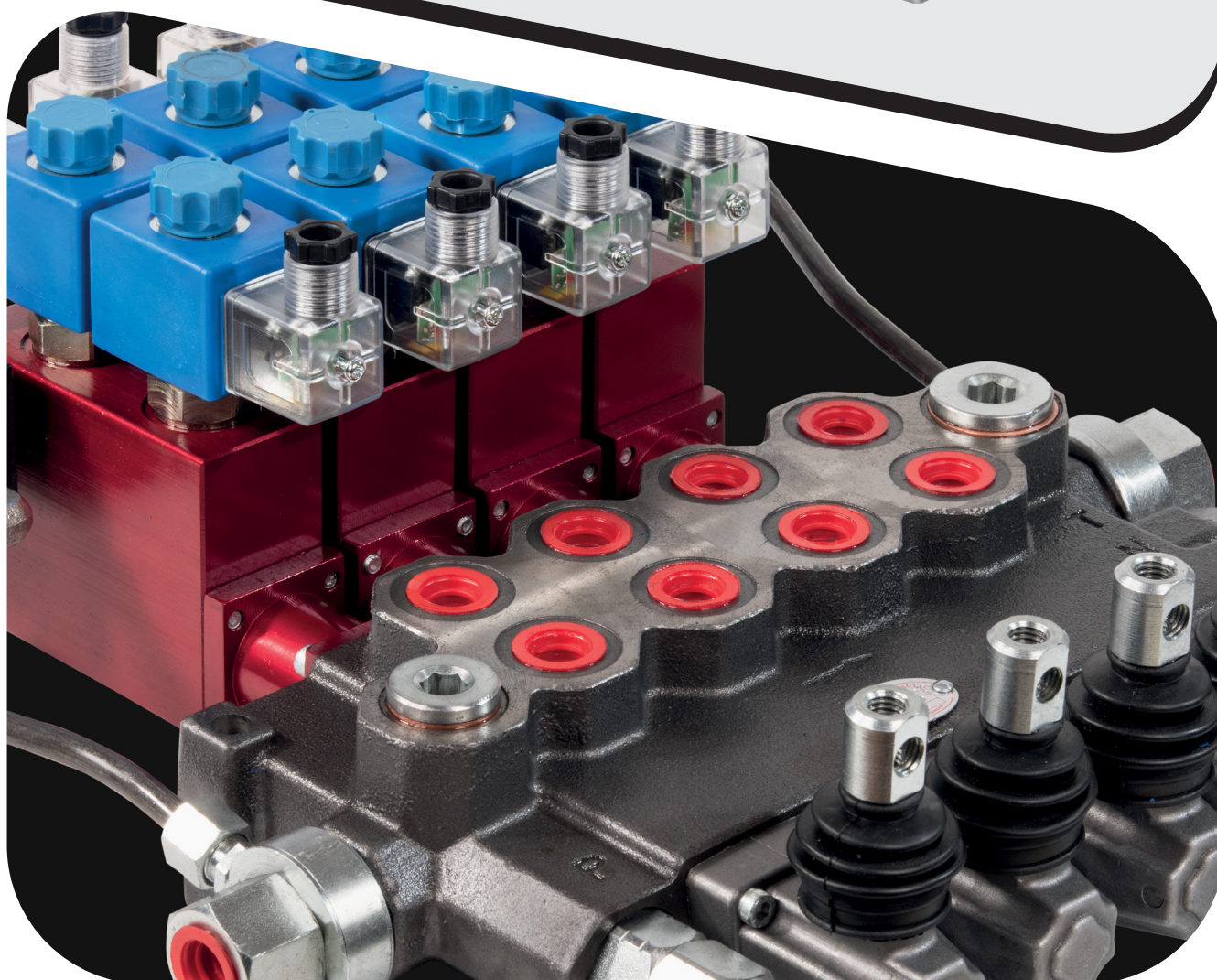
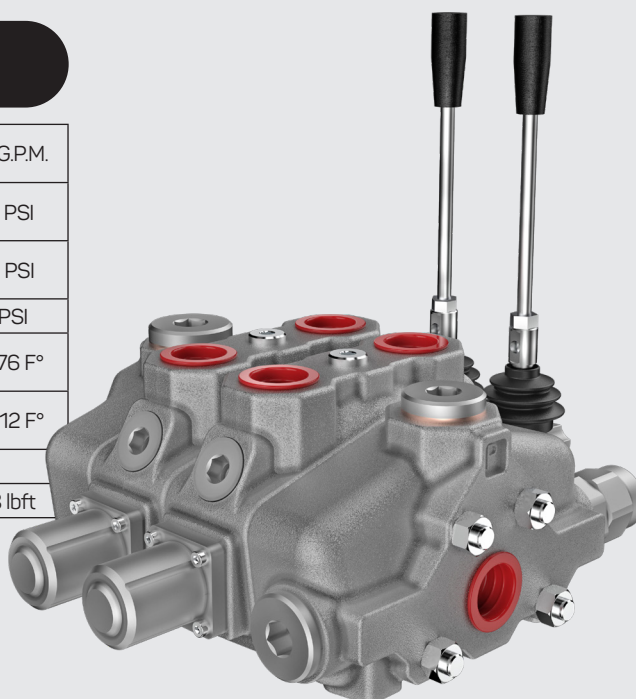
Nominal Flow Rating Displacement	150 l/min	38 U.S.G.P.M.
Maximum Working Pressure (Series Circuit)	210 Bar	3050 PSI
Maximum Working Pressure (Parallel Circuit)	315 Bar	4600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Number of Spools	1 to 12	
Tie Rod Tightening Torque	40 Nm	30 lbft



SECTIONAL VALVE

HDR-PD250

Nominal Flow Rating Displacement	250 l/min	65 U.S.G.P.M.
Maximum Working Pressure (Series Circuit)	210 Bar	3050 PSI
Maximum Working Pressure (Parallel Circuit)	315 Bar	4600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Number of Spools	1 to 12	
Tie Rod Tightening Torque	50 Nm	36,88 lbft





HDR-TV50

Nominal Flow Rating Displacement	50 l/min	13,5 U.S.G.P.M.
Maximum Working Pressure (Parallel Circuit)	315 Bar	4600 PSI
Maximum Working Pressure (Series Circuit)	250 Bar	3600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Number of Spools	1 to 3	



HDR-DMF

Nominal Flow Rating Displacement	80 l/min	21 U.S.G.P.M.
Maximum Working Pressure (Parallel Circuit)	315 Bar	4600 PSI
Maximum Working Pressure (Series Circuit)	210 Bar	3050 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Number of Spools	1 to 3	

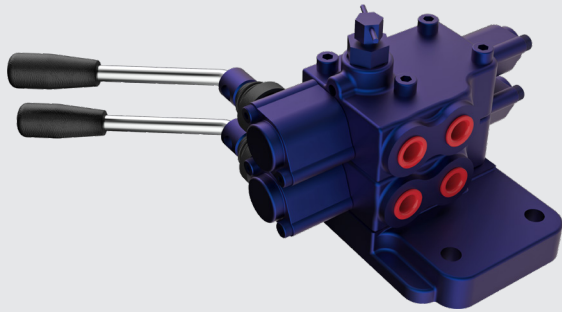
HDR-MF

Nominal Flow Rating Displacement	45 l/min	12 U.S.G.P.M.
Maximum Working Pressure (Series Circuit)	315 Bar	4600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Tie Rod Tightening Torque	30 Nm	22 lbft
ORV-MF Outlet With 2 Port		
ORV-MF Outlet With 2 Port+Hydraulic		
ORV-MF Outlet With 4 Port		
ORV-MF Outlet With 4 Port+Hydraulic		
ORV-MF Outlet With 6 Port		



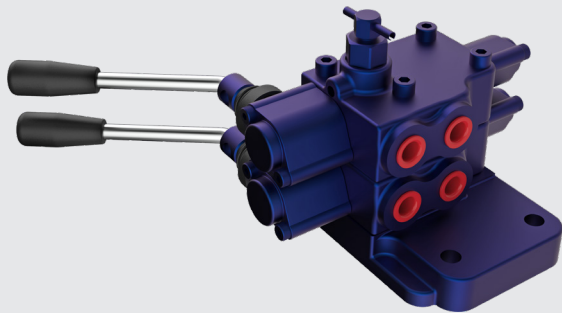
HDR-STEYR

Nominal Flow Rating Displacement	45 l/min	12 U.S.G.P.M.
Maximum Working Pressure (Series Circuit)	315 Bar	4600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Tie Rod Tightening Torque	30 Nm	22 lbft
ORV-STY Outlet With 2 Port		
ORV-STY Outlet With 4 Port		
ORV-STY Outlet With 6 Port		



HDR-FORD3000

Nominal Flow Rating Displacement	45 l/min	12 U.S.G.P.M.
Maximum Working Pressure (Series Circuit)	315 Bar	4600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Tie Rod Tightening Torque	30 Nm	22 lbft
ORV-Ford3000 Outlet With 2 Port		
ORV-Ford3000 Outlet With 4 Port		
ORV-Ford3000 Outlet With 6 Port		



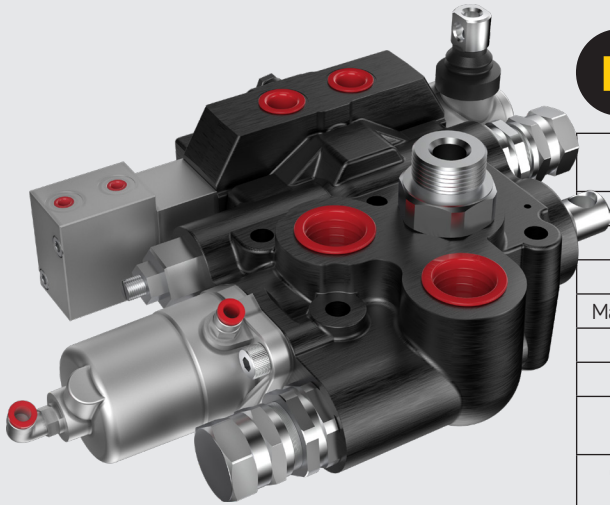
HDR-FORD5000

Nominal Flow Rating Displacement	45 l/min	12 U.S.G.P.M.
Maximum Working Pressure (Series Circuit)	315 Bar	4600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Tie Rod Tightening Torque	30 Nm	22 lbft
ORV-Ford5000 Outlet With 2 Port		
ORV-Ford5000 Outlet With 4 Port		
ORV-Ford5000 Outlet With 6 Port		



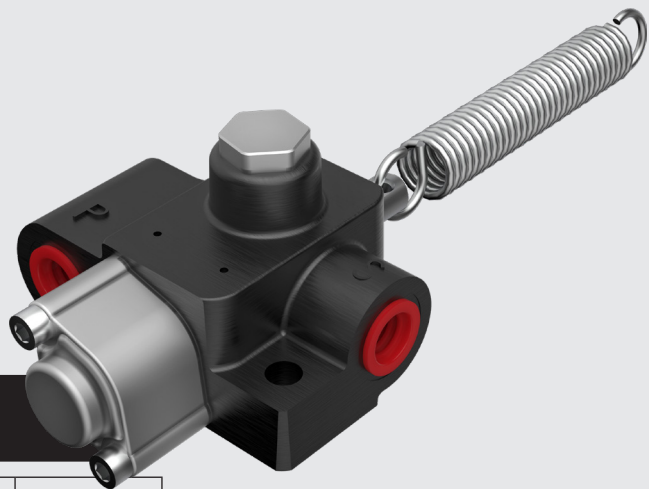
HDR-FIAT

Nominal Flow Rating Displacement	45 l/min	12 U.S.G.P.M.
Maximum Working Pressure (Series Circuit)	315 Bar	4600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Tie Rod Tightening Torque	30 Nm	22 lbft
ORV-FIAT Outlet With 2 Port		
ORV-FIAT Outlet With 4 Port		
ORV-FIAT Outlet With 6 Port		



HDR-KMV

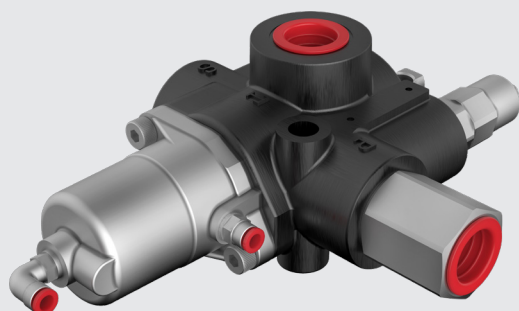
Nominal Flow Rating Displacement	150 l/min	38 U.S.G.P.M.
Auxiliary Section	60 l/min	15 U.S.G.P.M.
- Pilot Pressure	6-12 Bar	90-180 PSI
- Tank Pressure	30 Bar	450 PSI
Maximum Operating Pressure	250 Bar	4400 PSI
Maximum Peak Pressure	300 Bar	4600 PSI
Maximum Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals		
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°
Tie Rod Tightening Torque		



HDR-RSV

Nominal Flow Rating Displacement	45 l/min	12 U.S.G.P.M.
Maximum Working Pressure	250 Bar	3600 PSI
Max Back Pressure	25 Bar	360 PSI
Oil Temperature with NBR Seals	-20 to 80°	4 to 180 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100°	4 to 200 F°
Number of Spools	1	

TIPPER VALVE



HDR-2B

Nominal Flow Rating Displacement	110 l/min	29 U.S.G.P.M.
- Pilot Pressure	6-12 Bar	90-180 PSI
- Tank Pressure	30 Bar	450 PSI
Maximum Operating Pressure	190 Bar	2800 PSI
Maximum Peak Pressure	250 Bar	3600 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°



HDR-3B

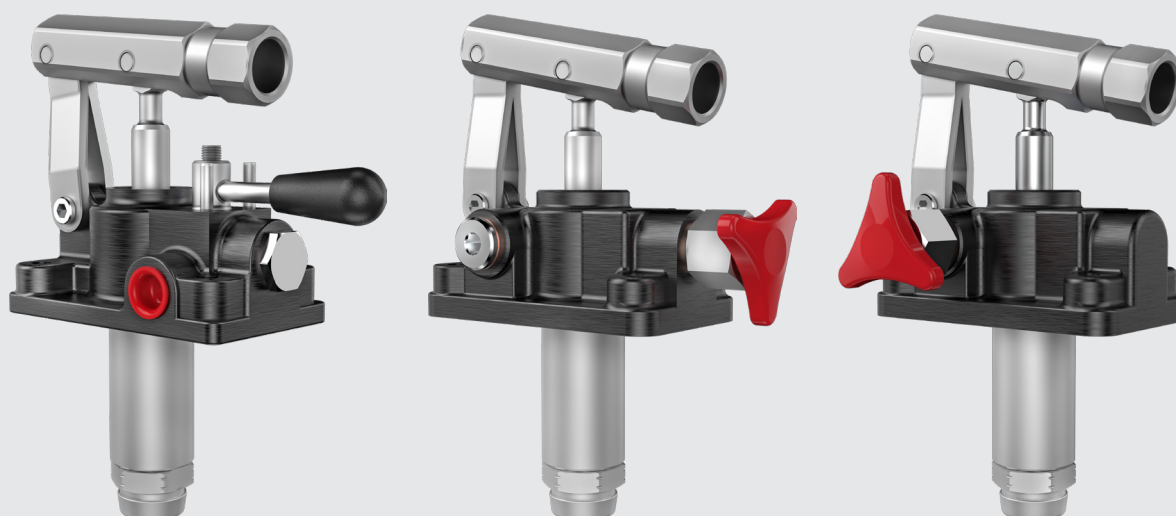
Nominal Flow Rating Displacement	110 l/min	29 U.S.G.P.M.
- Pilot Pressure	6-12 Bar	90-180 PSI
- Tank Pressure	30 Bar	450 PSI
Maximum Operating Pressure	190 Bar	2800 PSI
Maximum Peak Pressure	250 Bar	3600 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°



HDR-4B

Nominal Flow Rating Displacement	110 l/min	29 U.S.G.P.M.
- Pilot Pressure	6-12 Bar	90-180 PSI
- Tank Pressure	30 Bar	450 PSI
Maximum Operating Pressure	190 Bar	2800 PSI
Maximum Peak Pressure	250 Bar	3600 PSI
Oil Temperature with NBR Seals	-20 to 80 C°	-4 to 176 F°
Oil Temperature with FPM (Viton) Seals	-20 to 100 C°	-4 to 212 F°

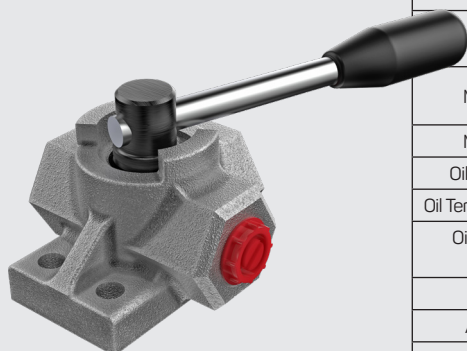
HAND PUMP



MODEL	TE CT-25 CE CT-25 TE TT-25
Nominal Flow Displacement - Totally	25 cc/cycle - 0,007 U.S.G/cycle
Nominal Flow Displacement - Pull Direction	14,5 cc/cycle - 0,004 U.S.G/cycle
Nominal Flow Displacement - Push Direction	10,5 cc/cycle - 0,003 U.S.G/cycle
Maximum Operating Pressure	300 Bar - 4400 PSI
Oil Temperature with NBR Seals	-20 to 80 C° [-4 to 176 F°]
Oil Temperature with FPM (Viton) Seals	-20 to 100 C° [-4 to 212 F°]
Max. Level of Contamination	19/16 - ISO 4406

THREE WAY VALVES

HDR-3YV



MODEL	V60	V90	V140	V200
Nominal Flow Rating Displacement	60 l/min 15 U.S.G.P.M.	90 l/min 23 U.S.G.P.M.	140 l/min 36 U.S.G.P.M.	200 l/min 52 U.S.G.P.M.
Maximum Working Pressure	315 Bar 4600 PSI	315 Bar 4600 PSI	315 Bar 4600 PSI	250 Bar 3600 PSI
Maximum Working Pressure	3	3	3	3
Oil Temperature with NBR Seals	-20 to 80 C° [-4 to 176 F°]			
Oil Temperature with FPM (Viton) Seals	-20 to 100 C° [-4 to 212 F°]			
Oil Viscosity - Operating Range Minimum - Maximum	From 10 to 75 mm ² /s - 10/400 mm ² /s From 10 to 75 cSt- 10/400 cSt			
Oil Filtration	≤30 μ			
Ambiant Temperture Range	-35 to 60 C° - (-31 to 140 F°)			
Internal Leakage (at 100 Bar (1450 PSI), 40 C° - (110 F°), 46 cSt - A(B)-T)	3 cm ³ /min 0,18 in3/min			
Max. Level of Contamination	19/16 - ISO 4406			



HiDURO

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