

North American Hydraulics, (NAHI, LLC), partnering with Hydro Control, world leaders in the production of hydraulic valves for mobile machinery.

Features and Benefits:

- Ideal for mini-excavators between 1 ton and 2.5 tons. Can be equipped with:
 - A 2 or 3 pumps circuit
 - Flow addition on PTO function
 - Second travel speed
 - Flow addition on the boom
 - Flow addition on the bucket
 - Flow addition on the arm
 - Straight travel
 - Built in boom anti-drift

Proven Solutions for:

- Mini-backhoe loaders
- Mini-excavators
- Skid-steer loaders
- Mini skid loaders
- Mini-dumpers
- Forestry machine



Please contact NAHI for additional information

The above information should be used as a guide and is subject to change without notice.

Please contact NAHI for proper selection.

Sectional Valves Solution Providers



D9



Sections Number: 1 – 12
Flow: 10 GPM
Pressure: 5000 PSI
Spool Pitch: 31 mm

D3M



Sections Number: 1 – 12
Flow: 15 GPM
Pressure: 5000 PSI
Spool Pitch: 38 mm

DVS10



Sections Number: 1 – 12
Flow: 12 GPM
Pressure: 5000 PSI
Spool Pitch: 35 mm

D4



Sections Number: 1 – 12
Flow: 22 GPM
Pressure: 5000 PSI
Spool Pitch: 40 mm

D6



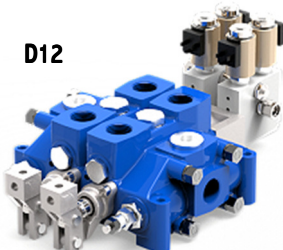
Sections Number: 1 – 12
Flow: 27 GPM
Pressure: 5000 PSI
Spool Pitch: 46 mm

D16



Sections Number: 1 – 12
Flow: 40 GPM
Pressure: 5000 PSI
Spool Pitch: 46 mm

D12



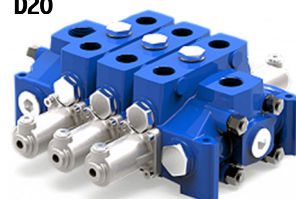
Sections Number: 1 – 12
Flow: 48 GPM
Pressure: 5000 PSI
Spool Pitch: 56 mm

DVS20



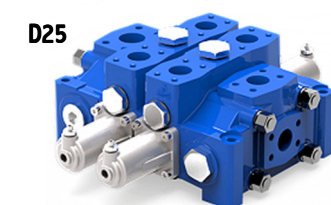
Sections Number: 1 – 12
Flow: 67 GPM
Pressure: 5000 PSI
Spool Pitch: 56 mm

D20



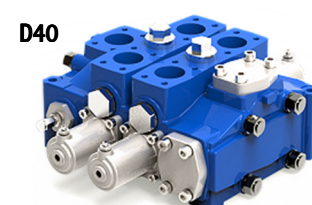
Sections Number: 1 – 12
Flow: 67 GPM
Pressure: 5000 PSI
Spool Pitch: 64 mm

D25



Sections Number: 1 – 12
Flow: 100 GPM
Pressure: 5000 PSI
Spool Pitch: 74 mm

D40



Sections Number: 1 – 10
Flow: 185 GPM
Pressure: 3600 PSI
Spool Pitch: 91 mm



Sectional Valves											
GENERAL SPECIFICATIONS	D9	D3M	DVS10	D4	D6	D16	D12	DVS20	D20	D25	D40
Working section number	1-12	1-12	1-12	1-12	1-12	1-12	1-12	1-12	1-12	1-12	1-10
CIRCUIT											
Parallel	•	•	•	•	•	•	•	•	•	•	•
Series	•	•	•	•	•	•	•		•	•	
Tandem	•	•	•	•	•	•		•	•		
Parallel circuit stroke (mm)	6	5	6	6	7	7	9.5	9.5	9.5	12	15
Series circuit stroke (mm)	6	5	6	6	5	7	6.5		6.5	8.5	
Float spool extra stroke (mm)	5	5	5	5.5	6	7	7	7	7	9.5	10
Spools pitch (mm)	31	38	35	40	46	46	56	56	64	75	91
RATED FLOW											
Max recommended flow rate (l/min)	35	55	45	80	100	150	180	250	250	380	700
Max recommended flow rate (GPM)	10	15	12	22	27	40	48	67	67	100	185
RATED PRESSURE											
Max working pressure (bar)	350	350	350	350	350	350	350	250	350	350	350
Max working pressure (PSI)	5000	5000	5000	5000	5000	5000	5000	4000	5000	5000	5000
OPTION CHART	D9	D3M	DVS10	D4	D6	D16	D12	DVS20	D20	D25	D40
Direct acting pressure relief valve	•	•	•	•	•	•	•	•	•	•	•
Pilot operated pressure relief valve		•		•	•	•	•	•	•	•	•
2 stage pilot operated relief valve		•		•	•	•	•		•	•	•
Externally piloted valve	•	•	•	•	•	•	•		•	•	•
Solenoid dump valve (12 Vdc)	•	•	•	•	•	•	•				
Solenoid dump valve (24 Vdc)	•	•	•	•	•	•	•				
Main anticavitation check valve		•		•	•	•	•	•	•	•	•
Clamping valve		•	•	•							
SPOOL ACTUATION											
Manual control	•	•	•	•	•	•	•	•	•	•	•
Without lever	•	•	•	•	•	•	•	•	•	•	•
90° joystick control		•	•	•	•	•					
Hydraulic control	•	•	•	•	•	•	•	•	•	•	•
Direct electric control (12-24 Vdc)		•		•							
SPOOL RETURN ACTION											
Spring return	•	•	•	•	•	•	•	•	•	•	•
Detent in A - in B - in A/B	•	•	•	•	•	•	•	•	•	•	•
Detent in 4 th position	•	•	•	•	•	•	•	•	•	•	•
Arrangement for dual control	•	•		•	•	•	•		•		
Hydraulic load limit	•	•		•	•	•					
Pneumatic control ON - OFF		•	•	•	•	•	•	•	•		
Proportional pneumatic control		•	•	•	•	•	•	•	•		
Electrical load limit	•			•	•	•					
Electrohydraulic control ON-OFF (12-24 Vdc)		•	•	•	•	•	•	•	•		
Electrohydraulic control PROP. (12-24 Vdc)		•	•	•	•	•	•	•	•		
Electropneumatic control (12-24 Vdc)		•	•	•	•	•	•		•		
AUXILIARY VALVES											
Antishock valve	•	•	•	•	•	•	•	•	•	•	•
Anticavitation valve	•	•	•	•	•	•	•	•	•	•	•
Combined valve	•	•	•		•	•	•		•	•	•
Pilot combined valve						•		•	•	•	•