

Coretrax

ADVANCE

DAV MX™ - Multi-Cycle Circulation Sub

Features and benefits

- Fast activation - drop dart and pump into place
- Clear opening confirmation - at surface a clear pressure drop confirms bypass activation
- Application stability - unique lock open and latch & seal features ensure valve position and complete fluid isolation integrity at any angle for the whole of the bypass cycle
- Faster, safer tripping - lock-open also provides the additional option of tripping out dry or to self-fill when tripping in
- Rapid and efficient closing - the Universal Closing Dart rapidly shears the selected activating dart into the catcher in order to close the tool. This is confirmed by a pressure increase shown at surface. Darts are stored in a highly efficient catcher sub with negligible pressure loss
- Unique back-up closing - not only does the DAV MX™ push the envelope further, it also provides a totally unique back-up closing system. Should the valve become damaged by any unexpected events users can deploy the Emergency Shut- Off Dart and save a trip

Standard Diverter Dart

100% bypass. Latch & Seal, Nose-lock open features. Best for LCM spotting and dry tripping

Split Flow Dart

Provides flow to bit (10-15%). Nose-lock open feature. Use for Self-Filling & Hole Cleaning

Alternative Diverter Dart

100% bypass. Pump to keep open. Best for nonreturn & non-u-tube

Ultra Series Dart

High speed activation (400gpm) & low shear closing pressure. Best for ERD & fragile formations.



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Specifications												
Connection (Box-Pin)	NC38 (3 1/2" IF)			NC50 (4 1/2" IF)			6 5/8" REG			7 5/8" REG		
Make-Up Torque (kft-lbs)	13.2			34			57.2			95.2		
Body Specs												
Material	AISI 4145-H Modified – 120 ksi											
Max Diff. Pressure (psi) (in-out & out-in)	10,000											
Valve:	Dimensional & TFA Specs											
Length (ft)	7.6			7.6			7.6			7.6		
Weight (lbs)	370			740			985			1360		
Sub Max OD (in)	5"			7"			8.25"			9.38"		
Valve min. TFA (sq-in) (landing seat)	2.99			3.8			5.52			5.52		
Valve Pin ID (in)	2.19"			2.81"			2.81"			3"		
No of Ports	2			2,3,4			4,5			4,6		
Ports Diameter (in) (Standard = 0.75")	0.50"	0.75"	0.81"	0.50"	0.75"	1.00"	0.50"	0.75"	1.00"	0.50"	0.75"	1.00"
Ports TFA (sq-in) for 1 port	0.20	0.44	0.52	0.20	0.44	0.79	0.20	0.44	0.79	0.20	0.44	0.79
2 ports	0.39	0.88	1.04	0.39	0.88	1.57	N/A			N/A		
3 ports	N/A			0.59	1.32	2.36	N/A			N/A		
4 ports	N/A			0.79	1.77	3.14	0.79	1.77	3.14	0.79	1.77	3.14
5 ports	N/A			N/A			0.98	2.21	3.93	N/A		
6 ports	N/A			N/A			N/A			1.18	2.65	4.71
Deflected jet nozzle ID (alternative application)	0.40"			0.50"			0.50"			0.50"		
Catcher:												
Cycles	4	5	9	4	5	9	4	5	9	4	5	9
Length (ft)	12.3	14	20.25	12.3	14	20.25	12.3	14	20.25	12.3	14	20.25
Weight (lbs)	580			1,050			1,735			1,834		
Sub Max OD (in)	5"			7"			8.25"			9.38"		
Sub ID (in) (catcher no-go)	1.9			2.15			2.65			2.65		
Drift Diameter (in)	1.89"			2.14"			2.64"			2.64"		
Catcher min. TFA (sq-in) (catcher pin)	3.77			6.2			6.2			7.07		
Inner Annulus TFA (sq-in)	4.83			9.35			12			17.3		
Catcher Pin ID (in)	2.19"			2.81"			2.81"			3"		
Smart Darts:												
Smart Dart OD (in)	2"			2.25"			2.7"			2.7"		
Recommended Drift for darts to pass (in)	2.063"			2.313"			2.750"			2.750"		
Other Info:												
Temp (°C/°F) Standard (most applications)	200/392											
Temp (°C/°F) Additional environmental resistance	160/320											
Temp (°C/°F) Optional for high temp wells	250/482											