

SELF-ROTATING NOZZLE DOWNHOLE TOOLS FOR COIL TUBING

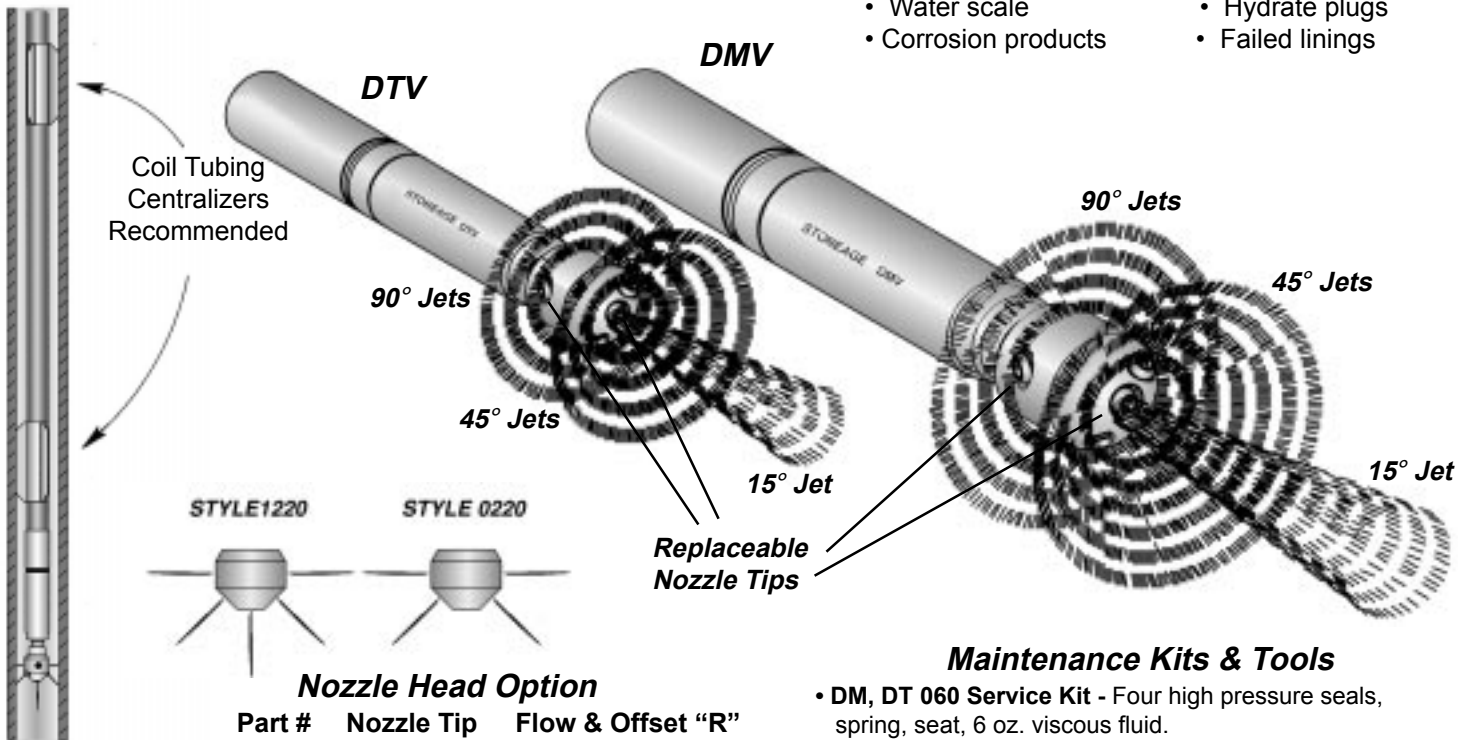
DV

For Removal of Scale, Plugs, Failed Linings and Internal Corrosion

The DV is a waterblast tool designed specifically for downhole and pipeline applications with coil tubing units. The nozzle head is rotated by waterjet reaction force. The tool includes a high pressure water swivel with viscous fluid governor that controls rotation speed. A single high pressure seal provides leak-free operation, and easy maintenance. Rotating heads are designed with replaceable nozzle tips. By using only a few rotating jets, each jet is bigger, with hard-hitting power. Jets are efficient and clean recesses and irregular surfaces without damaging the well pipe.

Removes

- Calcium carbonate scale
- Barium sulphate scale
- Water scale
- Corrosion products
- Asphaltine plugs
- Paraffin plugs
- Hydrate plugs
- Failed linings



Nozzle Head Option

	Part #	Nozzle Tip	Flow & Offset "R"
For DTV	DT 045-P2	ODP2	0.4-0.8 bbl/min R = .100 1.75" OD
For DMV	DM 045-P4	OCIH	0.65-1.0 bbl/min R = .300 2.25" OD

Maintenance Kits & Tools

- **DM, DT 060 Service Kit** - Four high pressure seals, spring, seat, 6 oz. viscous fluid.
- **DM, DT 061 Overhaul Kit** - Bearings, shaft seals, high pressure seal and seat, fill tube (DMV), 6 oz. viscous fluid.
- **HC 064 Fill Tube** - Helpful when replenishing fluid in DMV.

SPECIFICATIONS	DTV-P	DTV-M	DMV-P	DMV-M
Outside Diameter, in	1-5/8	1-5/8	2-1/8	2-1/8
, cm	4.1	4.1	5.4	5.4
Overall Length, in	6.8	8.5	8.9	11.2
, cm	17	22	23	28
Weight, lb	3.0	3.3	6.0	6.5
, kg	1.40	1.50	2.7	3.0
Inlet Port	3/4 npt	1 AMMT	3/4 npt	1-1/2 AMMT
Outlet Shaft	3/8 npt	3/8 npt	3/4 npt	3/4 npt
Max. Pressure	10 Kpsi	690 bar	10 Kpsi	690 bar
Flow Range	.4-1.5 bpm	60-240 l/min	.75-2.0 bpm	120-320 l/min
Flow Rating	3.0	3.0	4.6	4.6
Pressure Drop @ 1 bpm	200 psi	13.5 bar	83 psi	5.7 bar
Rotation Speed	100-300 rpm		100-300 rpm	

Features

- Rugged, compact design
- Simple maintenance
- Interchangeable nozzle heads
- Controlled, rotating jets
- Fluoro-elastomeric seals for temperature & chemical resistance
- Up to 10,000 psi, 2 bpm
- 316L Stainless steel construction

Buyer Must Specify

- Max. pump discharge pressure at surface
- Inlet port type
- Flow and Head Offset "R"

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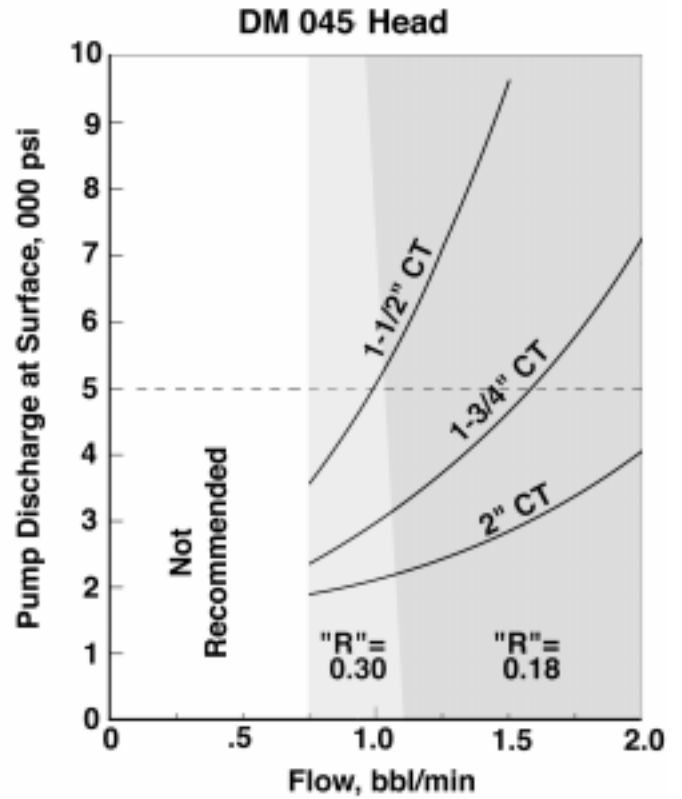
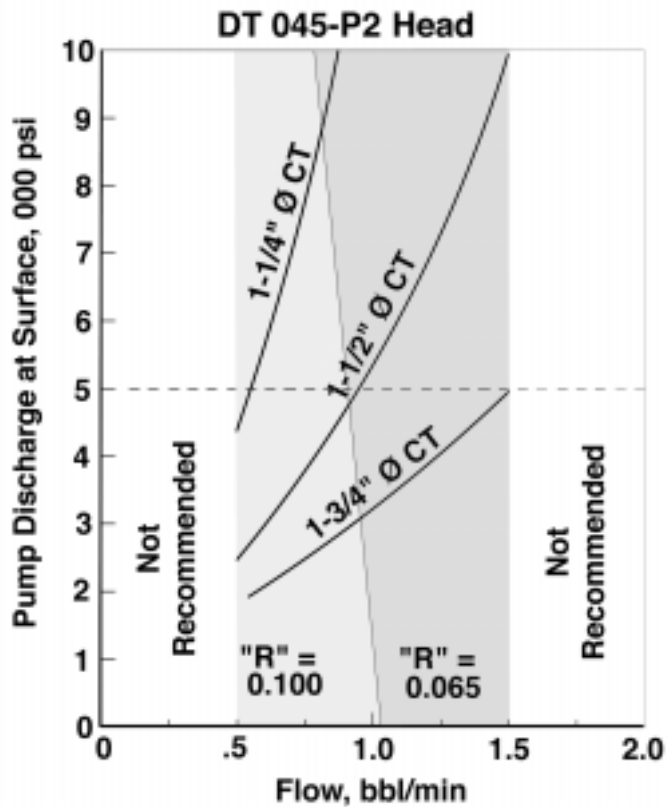
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DMV Jetting - DM 045-P4

DTV Jetting - DT 045-P2

CT Ø OD in.	Pressure psi	Flow bbl/min	ODP2 ID in.	Offset "R"	Jet Style
1-1/4"	4,380	0.50	.068	.100	1220
1-1/4"	7,750	0.75	.087	.100	1220
1-1/4"	5,200	0.50	.068	.100	0220
1-1/4"	8,420	0.75	.087	.100	0220
1-1/2"	2,470	0.50	.068	.100	1220
1-1/2"	3,470	0.75	.087	.100	1220
1-1/2"	5,500	1.00	.094	.065	1220
1-1/2"	7,500	1.25	.109	.065	1220
1-1/2"	9,950	1.50	.125	.065	1220
1-1/2"	2,120	0.40	.068	.100	0220
1-1/2"	3,140	0.65	.087	.100	0220
1-1/2"	4,500	0.90	.094	.065	0220
1-1/2"	6,370	1.15	.109	.065	0220
1-1/2"	8,080	1.35	.125	.065	0220
1-3/4"	1,930	0.50	.068	.100	1220
1-3/4"	2,220	0.75	.087	.100	1220
1-3/4"	3,300	1.00	.094	.065	1220
1-3/4"	4,050	1.25	.109	.065	1220
1-3/4"	4,970	1.50	.125	.065	1220
1-3/4"	1,780	0.40	.068	.100	0220
1-3/4"	2,200	0.65	.087	.100	0220
1-3/4"	3,400	0.90	.094	.065	0220
1-3/4"	3,740	1.10	.109	.065	0220
1-3/4"	4,550	1.35	.125	.065	0220

CT Ø OD in.	Pressure psi	Flow bbl/min	OCIH ID in.	Offset "R"	Jet Style
1-1/2"	3,550	0.75	.078	.300	1220
1-1/2"	5,050	1.00	.093	.300	1220
1-1/2"	7,100	1.25	.106	.180	1220
1-1/2"	9,620	1.50	.118	.180	1220
1-1/2"	1,950	0.50	.078	.300	0220
1-1/2"	3,270	0.75	.093	.300	0220
1-1/2"	4,980	1.00	.106	.180	0220
1-1/2"	7,120	1.25	.118	.180	0220
1-3/4"	2,340	0.75	.078	.300	1220
1-3/4"	2,850	1.00	.093	.300	1220
1-3/4"	3,630	1.25	.106	.180	1220
1-3/4"	4,630	1.50	.118	.180	1220
1-3/4"	5,985	1.75	.125	.180	1220
1-3/4"	2,340	0.65	.078	.300	0220
1-3/4"	2,570	0.85	.093	.300	0220
1-3/4"	3,320	1.10	.106	.180	0220
1-3/4"	4,250	1.35	.118	.180	0220
1-3/4"	4,575	1.45	.125	.180	0220
1-3/4"	5,010	1.60	.140	.180	0220
2"	2,050	1.00	.093	.300	1220
2"	2,380	1.25	.106	.180	1220
2"	2,830	1.50	.118	.180	1220
2"	3,520	1.75	.125	.180	1220
2"	4,040	2.00	.140	.180	1220
2"	4,670	2.25	.156	.180	1220
2"	2,080	0.87	.093	.300	0220
2"	2,560	1.15	.106	.180	0220
2"	2,770	1.35	.118	.180	0220
2"	3,080	1.50	.125	.180	0220
2"	2,950	1.60	.140	.180	0220
2"	3,120	1.75	.156	.180	0220