



Martec Solutions

Downhole Tools & Accessories

THRU-TUBING / COILED TUBING TOOLS

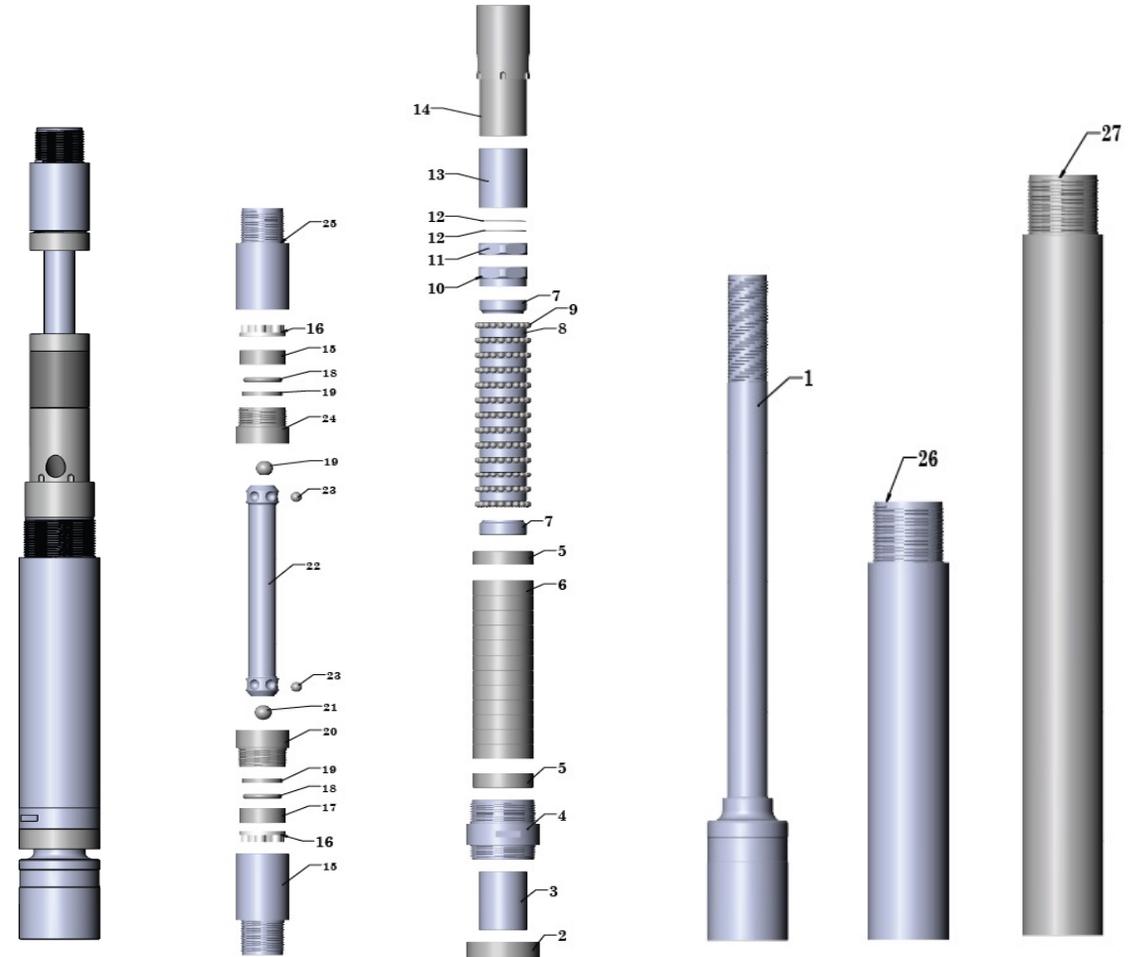
Downhole Positive Displacement Motors

Martec Solutions provides CT / TT motors with conventional and metal-metal power sections:

- 1-1/2", 1-11/16"
- 2-1/8", 2-7/8"
- 3-1/8", 3-1/2", 3-3/4"

DESIGN ADVANTAGES

- Patent design with both upper and lower catch
- 4330V, Astro alloy and Stainless Steel
- Enhanced thrust races for more WOB & RPM
- Superior durability for high torque applications
- Standard and High Temperature applications
- ABH, Stabilizers available
- Spare Parts Support
- Easy Motor Tool Maintenance



PDM - Short Motor

The short motor is available with conventional, or metal-metal power section and is capable of milling and jetting in various applications such as sand bridge, etc.

OD : 1 11/16" (1.68")

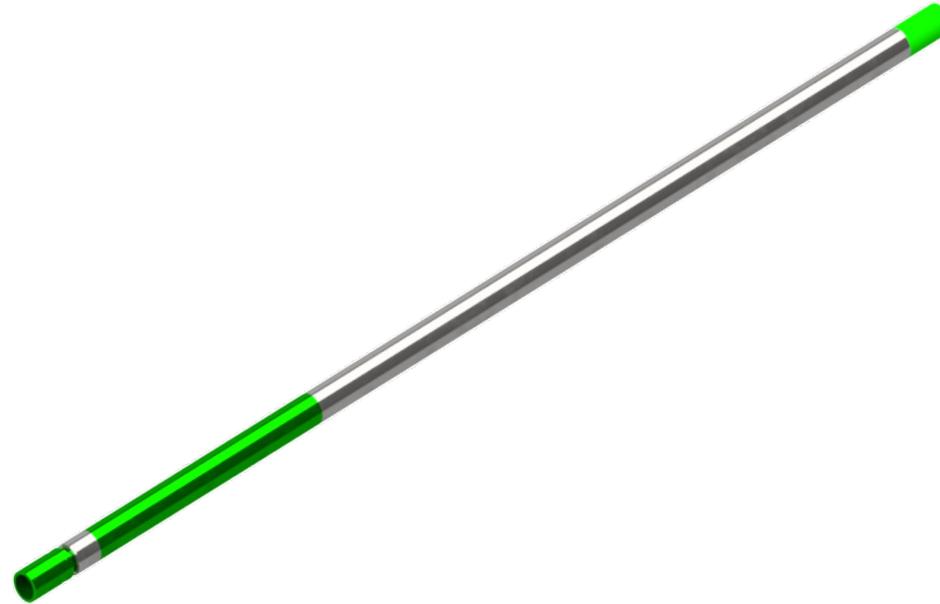
Flow Rate: 25-55 GPM

Revs Per Min: 350-770

Maximum Pressure: 500 PSI

Maximum Torque: 180 Ft.-Lbs.

Length: 55"



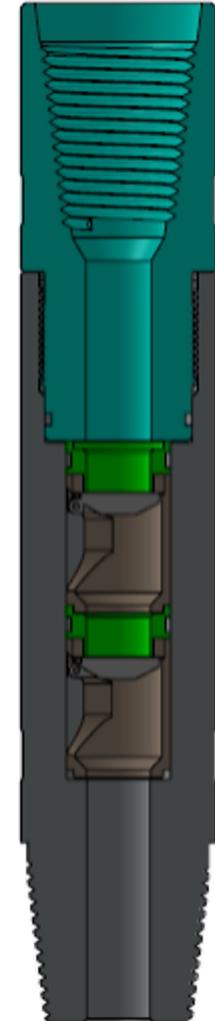
Back Pressure Valve

Dual flapper valve design with Viton seals able to handle higher pressures and withstand various chemicals and fluids.

DESIGN ADVANTAGES

- Dual seal in each flapper cartridge - low pressure & high pressure
- Plug-in sealed valve body for easy maintenance
- Tight tolerance machined Viton seals
- Cartridges made from corrosion and wear resistant material

OD	ID	WORKING PRESSURE	YIELD STRENGTH	THREADS
1.68"	0.70"	10,000 PSI	20,000 LBS	1" MT
2.125"	0.87"	10,000 PSI	60,000 LBS	1.5" MT
2.875"	1"	10,000 PSI	80,000 LBS	2-3/8" PAC
3.125"	1"	10,000 PSI	90,000 LBS	2-3/8" REG

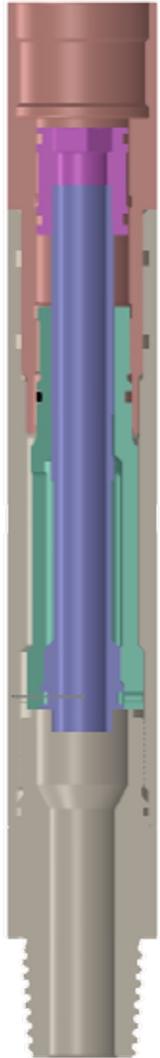


Hydraulic Disconnect

Unique locking design withstands higher torsional limits.

DESIGN ADVANTAGES

- Straight forward and simple design provides easy maintenance
- Internal locking system ensures maximum ability to transmit torque
- Pressure balanced release piston



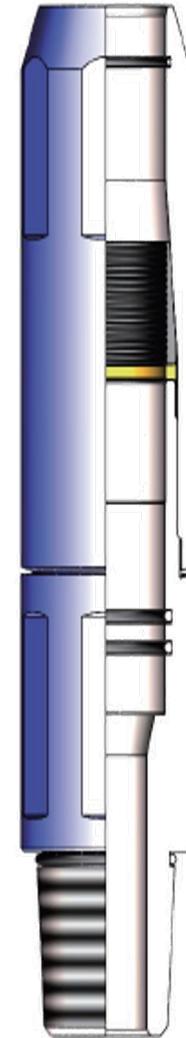
OD	ID	DROP BALL SIZE	WORKING PRESSURE	YIELD STRENGTH	THREADS
1.68"	0.47"	9/16"	10,000 PSI	20,000 LBS	1" MT
2.125"	0.69"	13/16"	10,000 PSI	60,000 LBS	1.5" MT
2.875"	0.79"	15/16"	10,000 PSI	80,000 LBS	2-3/8" PAC
3.125"	1.13"	1"	10,000 PSI	90,000 LBS	2-3/8" REG

External Slip Connector

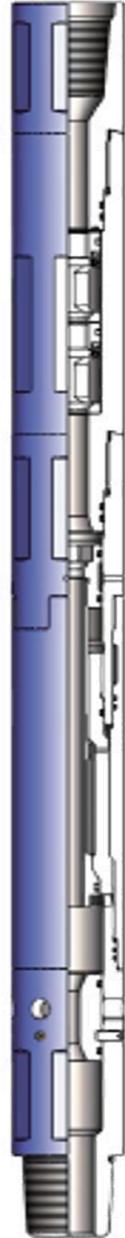
DESIGN ADVANTAGES

- Dual O-Ring seals
- Non-Rotating parts
- Simple design allows for maximum Flow Rates
- Replaceable Slips can provide maximum life depending on run conditions

OD	ID	WORKING PRESSURE	YIELD STRENGTH	THREADS
1.5"	1"	10,000 PSI	40,000 LBS	1" MT
1.68"	1"	10,000 PSI	40,000 LBS	1" MT
1.75"	1"	10,000 PSI	40,000 LBS	1" MT
2"	1.375"	10,000 PSI	60,000 LBS	1.5" MT
2.375"	1.375"	10,000 PSI	70,000 LBS	2-3/8" PAC
2.625"	1.375"	10,000 PSI	90,000 LBS	2-3/8" REG



Motorhead Assembly



DESIGN ADVANTAGES

- Versatile compact design reduces overall length for easy CT operation
- Integrated design offers compatibility with other individual running tools saving overall assemble time
- Easy assembly and disassembly with available redress tools
- Maximum torque transmitting ability

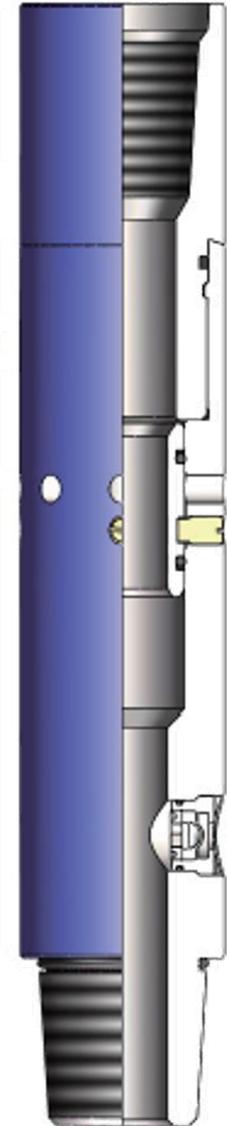
OD	ID	LENGTH	WORKING PRESSURE	THREADS
1.5"	0.40"	25"	7,250 PSI	1" MT
1.68"	0.47"	28"	10,000 PSI	1" MT
2"	0.40"	32"	10,000 PSI	1.5" MT
2.125"	0.50"	32.50"	10,000 PSI	1.5" MT
2.875"	0.60"	36"	10,000 PSI	2-3/8" PAC
3.125"	0.75"	37"	10,000 PSI	2-3/8" REG

Dual Circulating Sub

DESIGN ADVANTAGES

- Simple design with high reliability
- Works with both burst or blank disk
- Different pressure rating for burst disk

OD	ID	LENGTH	BURST PRESSURE	THREADS
1.68"	0.40"	14"	OPTIONAL	1" MT
2.125"	0.79"	14"	OPTIONAL	1.5" MT
2.875"	1.25"	16"	OPTIONAL	2-3/8" PAC
3.125"	1.25"	18"	OPTIONAL	2-3/8" REG



Spin Jet Tools

The spin jet tool jets and mills while producing 20-30 ft-lbs. of torque with adjustable rotation between 30-60 rpm or 400-500 rpm.

DESIGN ADVANTAGES

- Simple and straight forward design with easy maintenance
- Wide flush rotating nozzle area
- Adapts to and operates with various operating fluids

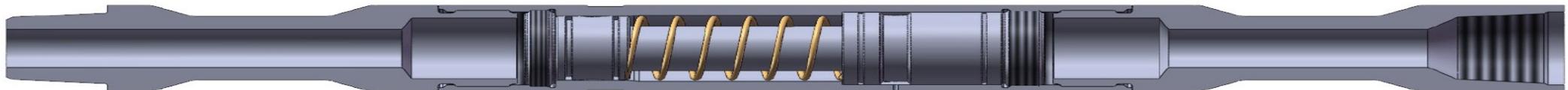


OD	JET SIZE	LENGTH	WORKING PRESSURE	THREADS
1.68"	3.5mm * 7	14"	10,000 PSI	1" MT
2.125"	4.0mm * 7	17"	10,000 PSI	1.5" MT
2.875"	5.0mm * 7	20"	10,000 PSI	2-3/8" PAC
3.125"	5.0mm * 7	22"	10,000 PSI	2-3/8" REG

Extended Reach Tools

DESIGN AND BUSINESS MODEL OPTIONS

- Standard or Made-To-Order options
- Variable frequencies, speeds, and torque
- Two ERT tools available
 - Power Section Driven ERT – PSD ERT
 - Reciprocating Piston ERT – HST ERT internal valve adjustment
- Both PSD and HST ERT compatible with Spin Jet cleaning tool
- Business Model OPTION – subject to customer requirements and tool selection



Extended Reach Tools

POWER SECTION DRIVEN – PSD ERT

- Conventional & All Metal Power Options
- Variable low or high RPM
- All Metal power compatible with gases and liquids – air, nitrogen, CO2, acids, solvents
- Single and Double Valve System options available
- Double Valve System creates superimposed frequency
- Direct Sale Business Model

OD SIZE	FLOW RATE (GPM)	RPM	DIFFERENTIAL PSI
1.68	10-60	100-150	150-250
2.13	25-70	100-150	150-250
2.88	50-210	90-120	150-270
3.13	100-210	90-120	130-260
3.38	100-250	80-110	130-260
3.5	120-250	80-110	120-250

Extended Reach Tools

RECIPROCRATING PISTON ERT – HST ERT

- Simple design
- Adjustable frequency
- Water Hammer Effect
- OD Sizes – 1 11 /16” to 3 ½”
- Business Model – subject to review



Martec Solutions

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