

Wired MOCS G2

Our Wired MOCS G2 has all the advantages of single drop ball activation and on-demand cycling while fully integrated into the IntelliServ broadband network telemetry. The efficient performance and function of the MOCS G2 is now also available in our wired version.

With the Wired MOCS G2 in your drillstring, you quickly and effectively tackle multiple mud/fluid-loss and hole cleaning situations in the same interval while high speed data is transmitted uphole and downhole through the tool. Because the tool does not require any dedicated trips to empty an internal ball catcher, it can reduce NPT and improve the efficiency and safety of your operation. The tool includes state of the art and latest generation V2 induction coils on connections, and armored coaxial cable throughout the tool to transmit high-speed data from downhole tools to surface in real-time.

Technical data

Tool OD	5 in.	6¾ in.	8 in.
Tool ID	1¼ in.	1⅞ in.	2⅝ in.
Tool length	9.5 ft	10.2 ft	11.8 ft
Weight	475 lbs	950 lbs	1,700 lbs
Tensile yield	550,000 lbs	1,300,000 lbs	2,000,000 lbs
Torsional yield	20,000 ft-lbs	55,000 ft-lbs	100,000 ft-lbs
Max allowable flow rate¹	700 gpm	900 gpm	1,400 gpm
Activation flow rate²	250 gpm	460 gpm	590 gpm
Max recommended operating torque	12,000 ft-lbs	30,000 ft-lbs	60,000 ft-lbs
TFA in bypass position	0.88 in ²	1.49 in ²	3.00 in ²
TFA in non-bypass position	0.78 in ²	1.45 in ²	2.01 in ²
Max hydrostatic pressure	30,000 psi	30,000 psi	30,000 psi
Std drop ball diameter	1.63 in.	2.25 in.	2.50 in.
Connection type	wXT39	wDS50	wDS58

TFA and drop ball sizes can be changed upon request.

¹Only applies when circulating to the annulus in bypass mode

²When drilling fluid density equals 8.3 lb/gal (water)

4.75 in. Base series/assembly #507960/005 and wired series/assembly #508040/005

6.5 in. Base series/assembly #507961/005 and wired series/assembly #508030/005

8 in. Base series/assembly #507962/005 and wired series/assembly #50805/005

4.75 in. Wire kit PN# KTF,0162 6.5 in. wire kit PN# KTF0148, and 8 in. wire kit PN#0149

All Wired MOCS G2 connections have last generation V2 coils



Features and benefits

- 100% integrated into the IntelliServ broadband network with an average of 97% reliability and network up time.
- Connectivity and real time data transmission through the MOCS G2 – high speed, bi-directional downhole data transmission to surface with up to 57,600 bits/sec
- State of the art and last generation V2 coils & armored coaxial cable for high speed data transmission
- Easy to use - simple operation requires only one ball
- On-demand performance - shifts in as little as 10 seconds with ball on seat
- Unlimited cycling - flow rate actuation alleviates need for multiple balls
- Versatile - can be loaded on surface and placed anywhere in the string
- Safe - eliminates the need to break string at every cycle
- ID Compatibility - variable ball size allows for flexibility with various string IDs
- Reduced invisible-lost time - no wasted trips for an exhausted ball catcher
- Designed to trip dry pipe - ports shift closed when pumps are off, automatically draining to the lower BHA
- Maintains well control safety - automatically closes ports when incoming flow drops