

## TECHNICAL SPECIFICATIONS

	4 1/2" IF	6 5/8" REG	6 5/8" REG MAX	7 5/8" REG	7 5/8" REG MAX
<b>MINIMUM COLLAR ID</b>	2 13/16"	2 13/16"	3 1/4"	2 13/16"	3 1/4"
<b>MAXIMUM BALL OD</b>	2 1/4"	2 1/4"	2 5/8"	2 1/4"	2 1/2"
<b>MAXIMUM UNSEATED FLOW RATE</b>	675 gpm (45 fps)	675 gpm (45 fps)	950 gpm (45 fps)	900 gpm (45 fps)	950 gpm (45 fps)
	1,125 gpm (75 fps)	1,125 gpm (75 fps)	1,550 gpm (75 fps)	1,500 gpm (75 fps)	1,550 gpm (75 fps)
<b>MAXIMUM SEATED FLOW RATE</b>	500 gpm (45 fps)	500 gpm (45 fps)	775 gpm (45 fps)	650 gpm (45 fps)	775 gpm (45 fps)
	825 gpm (75 fps)	825 gpm (75 fps)	1,275 gpm (75 fps)	1,100 gpm (75 fps)	1,275 gpm (75 fps)

Specifications are subject to change without notice

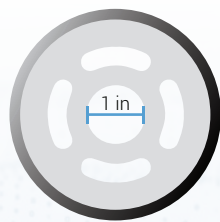
**Scientific Drilling's MaxFlow Landing Ring is an innovative system that enables Drop Keeper Gyro surveys in drilling assemblies where ball-activated reamers, PBL subs, or wireless pipe recovery systems are required.**

MaxFlow features a unique landing ring and bullnose combination, engineered to replace traditional baffle plates and maximize the flow area past the tools. This allows high circulation rates to be maintained, ensuring optimal borehole stability, well control management, and pass-through of standard drop ball sizes.

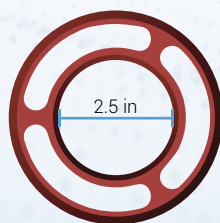
Precision gyro surveying can be achieved at all inclinations during routine BHA trips. This provides the ability to acquire high-accuracy definitive surveys with no added rig time, while helping to maintain safe and efficient operations.

For more information on improving your drilling efficiency [while staying on target] contact your Scientific Drilling Representative or visit:

<http://scientificdrilling.com/wellbore-surveying>

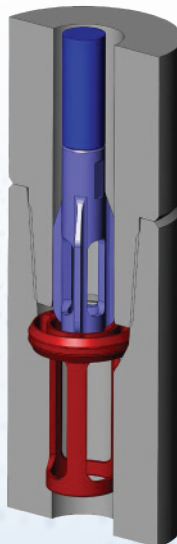


**Standard Baffle Plate**  
1 in Flow Area



**MaxFlow Landing Ring**  
2.5 in Flow Area

**US Patent:**  
10316599



## APPLICATIONS

### BHAs Utilizing

- + Ball Activated Reamer
- + Bypass Sub
- + Wireless Pipe Recovery
- + Under-reamers

## BENEFITS

- + Compatibility with PBL sub, ball-activated reamers and wireless pipe recovery system, delivering enhanced operational flexibility
- + Certified & compliant with all offshore requirements for traceability
- + Utilization allows drop gyro to be added to all BHAs, acting as a contingency in the event of a unplanned trip or MWD failure

## FEATURES

- + Heat treated materials designed to greatly extend tool life
- + Flow thru bullnose enabling circulation even while Drop Keeper is seated
- + Tandem Drop Keeper system allowing redundant surveys in critical, high-risk applications
- + Large flow area, enabling full circulation