

# Shaffer® Series NS™ Multi-Ram

## CONVENIENCE OF WIDER MULTI-RAM RANGE PLUS PIPE RAM SERVICE LIFE

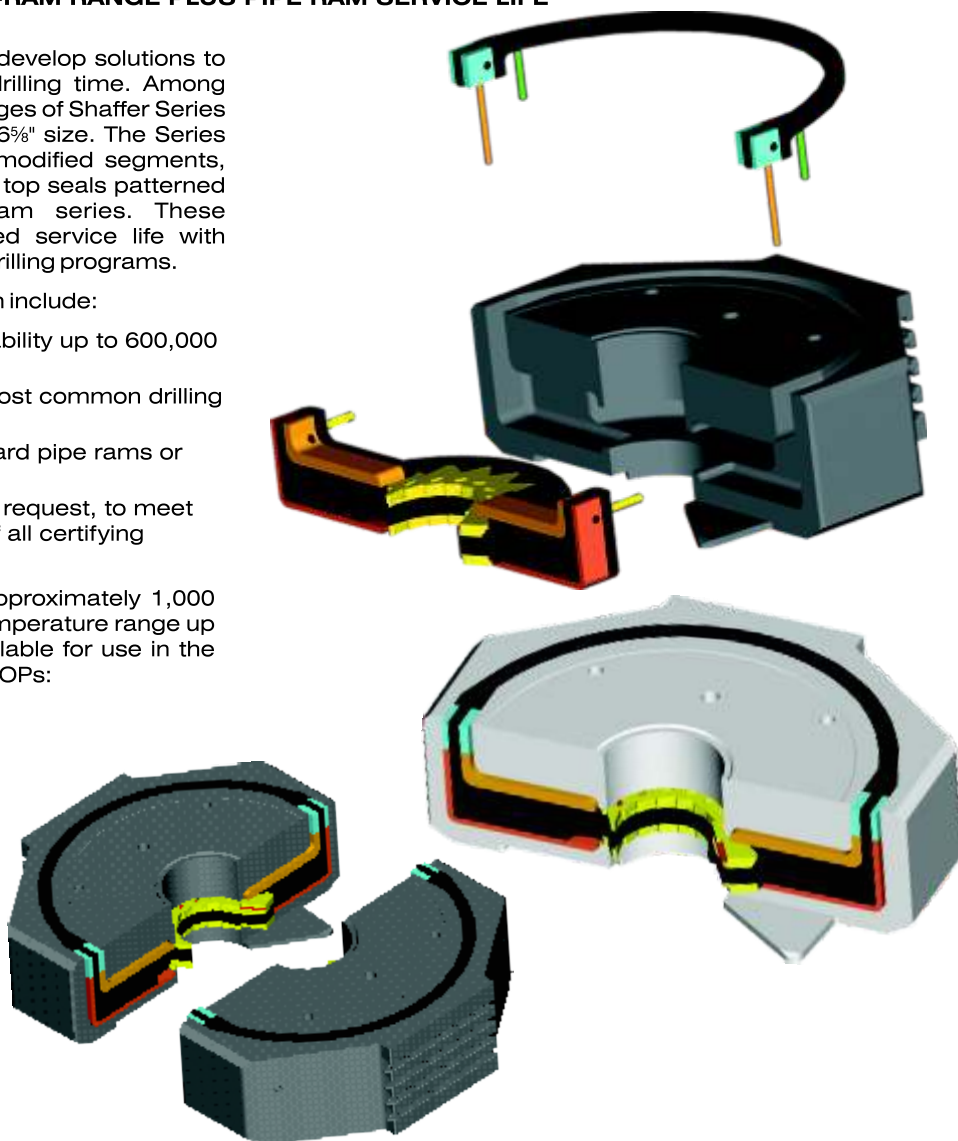
National Oilwell Varco® continues to develop solutions to enhance and increase productive drilling time. Among these products are the increased ranges of Shaffer Series NS Multi-Ram, including the 3½" to 6¾" size. The Series NS Multi-Ram incorporates use of modified segments, minimized extrusion gap design and top seals patterned after the Shaffer Ultra Temp ram series. These improvements translate to improved service life with wider seal ranges matching today's drilling programs.

Other features of Series NS Multi-Ram include:

- Drill pipe and tubing hang-off capability up to 600,000 lbs (272,155.4 kg)
- Sizes and ranges available to fit most common drilling and casing programs
- Easy interchangeability with standard pipe rams or blind/shear rams
- Product certifications, available on request, to meet the critical service requirements of all certifying authorities

The Series NS Multi-Ram weighs approximately 1,000 lbs (454.5 kg) per cavity and has a temperature range up to 180°F (82°C). These units are available for use in the following sizes of NOV® Shaffer Ram BOPs:

- 18¾" 5/10/15M NXT®
- 18¾" 15M SLX
- 13½" 10M LXT™
- 11-5M LXT
- Additional sizes are also available.



### Series NS Multi-Rams – Available Sizes

Size	Drill Pipe Range	Working Pressure	Assembly	Block	RRA*	Face Seal	Top Seal	Holder	Retaining Screw
11-5M LXT	2¾" - 5"	5000 psi	126161	121058	126215	126216	121062	NA	NA
13-5M LXT	2¾" - 5½"	5000 psi	125134	125197	125135	125137	121055	NA	NA
13-5M LXT	4½" - 7"	5000 psi	124195	124196	122598	20122601	123192	NA	NA
13-10M LXT	3½" - 5¾"	10,000 psi	20038037	20034334	20075286	20017849	20017848	NA	20075284
13-10M LXT	4½" - 7¾"	10,000 psi	20070567	20070566	20070564	20023006	20017848	NA	011289
18-5/10/15M NXT	3½" - 6¾"	15,000 psi	20024125	20024105	20092575	20091879	20023274	NA	NA
18-5/10/15M NXT	5" - 7¾"	15,000 psi	20091051	20091049	20017694	20017695	125994	NA	NA
18-5/10/15M NXT	9¾" - 10¾"	15,000 psi	20021744	20021601	20027204	20026845	20026843	NA	NA
18-5/15M SLX	3½" - 5¾"	15,000 psi	20018905	20018836	20028655	20026342	20032697	NA	NA
18-5/15M SLX	5" - 7"	15,000 psi	125989	125991	125992	125993	125994	126522	121213

\* Ram Rubber Assembly (RRA)

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