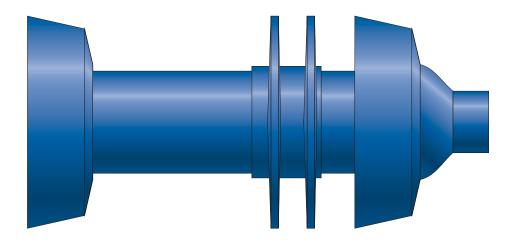
NVAPP

ULTRA-CAST

PIPELINE CLEANING PIG

SEALS LIKE A CUP PIG!



SCRAPES LIKE A DISC PIG!

ALSO AVAIABLE WITH
HIGH-STRENGTH
CIRCULAR STEEL BRUSHES
FOR EXTRA SCRAPING



AVAILABLE IN VARIOUS
FORMULATIONS OF
ULTRATHANE[™], KNAPP'S
ULTRA PERFORMANCE URETHANE



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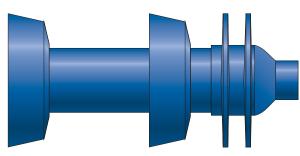
MIVAPP

ULTRA-CAST

SUPERIOR CLEANING AND SCRAPING

THE CLEANING DISCS ON THE KNAPP ULTRACAST PIG ARE THICKER AT THE POINT WHERE THEY MEET THE MANDREL TO ASSURE A STRONG BASE WHICH KEEPS THE EDGE OF THE DISC FROM "CONING".

CONING OCCURS WHEN A DISC IS TOO THIN AND WEAK TO STAND UP TO THE STRONG FORCES IT MEETS IN MODERN OIL AND GAS PIPELINES. WHENEVER A DISC "CONES" IT LOSES ITS ABILITY TO SCRAPE MATERIALS SUCH AS PARAFFIN FROM PIPE WALLS; THE PARAFFIN IS SMEARED AGAINST THE PIPE RATHER THAN REMOVED.



SEALS LIKE A CUP PIG SCRAPES LIKE A DISC PIG

THE IDEAL COMBINATION OF SCRAPING AND SEALING CAPABILITIES IN ONE TOUGH, LONG-LASTING PIPELINE CLEANER. THE KNAPP ULTRACAST PIG IS A ONE-PIECE DESIGN WITH A SEALING CUP AT THE REAR OF THE PIG AND A SECOND CUP WHOSE POSITION IS INTERCHANGEABLE WITH TWO SCRAPING DISCS. THE CUP SHAPE IS THE MOST EFFECTIVE DESIGN TO ALLOW A PIG TO RUN LONG DISTANCES YET MAINTAIN A GOOD DRIVE SEAL, EVEN THROUGH PARTS OF THE PIPELINE THAT ARE OVAL. A DISC SHAPE IS THE MOST EFFECTIVE DESIGN TO SCRAPE FOREIGN MATERIALS OFF PIPE WALLS. BROUGHT TOGETHER ON THE KNAPP ULTRACAST, THE CUP AND DISC DESIGN PROVIDE THE BEST POSSIBLE COMBINATION FOR THE CLEANING DOLLAR.

FOR THOSE TOUGH JOBS THAT REQUIRE EXTRA SCRAPING CAPABILITY, THE KNAPP ULTRACAST PIG IS AVAILABLE WITH CIRCULAR STEEL SCRAPING BRUSHES. MADE OF TEMPERED STEEL, THESE HIGH-QUALITY BRUSHES REMOVE HARDENED DEPOSITS WITH EASE.

THE BEST URETHANE MONEY CAN BUY!

THE KNAPP ULTRACAST PIG IS ALSO AVAILABLE IN ULTRATHANE™, THE ULTRA

PERFORMANCE URETHANE. AT THE LEADING EDGE OF PLASTIC TECHNOLOGY, KNAPP'S

ULTRATHANE IS A PREMIUM-GRADE POLYURETHANE ELASTOMER WHICH CAN BE

FORMULATED TO SPECIFIC JOB REQUIREMENTS. CRITICAL OPERATIONS LIKE INTERNAL

PIPELINE MAINTENANCE FOR OFFSHORE OIL AND GAS FLOWLINES CALL FOR A PIG THAT

IS DURABLE ENOUGH TO STAND UP TO THE EXTREME WEAR CONDITIONS ENCOUNTERED

IN THAT TOUGH ENVIRONMENT. KNAPP'S PROPRIETARY SERIES OF WEAR ADDITIVES

CAN BE INCORPORATED INTO THE VARIOUS FORMULATIONS TO ASSURE EXTENDED

LIFE IN EXTREMELY LONG PIPELINES. CONTACT A KNAPP POLLY PIG TECHNICIAN FOR

ASSISTANCE IN CHOOSING THE FORMULATION THAT IS RIGHT FOR YOUR LINE.

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