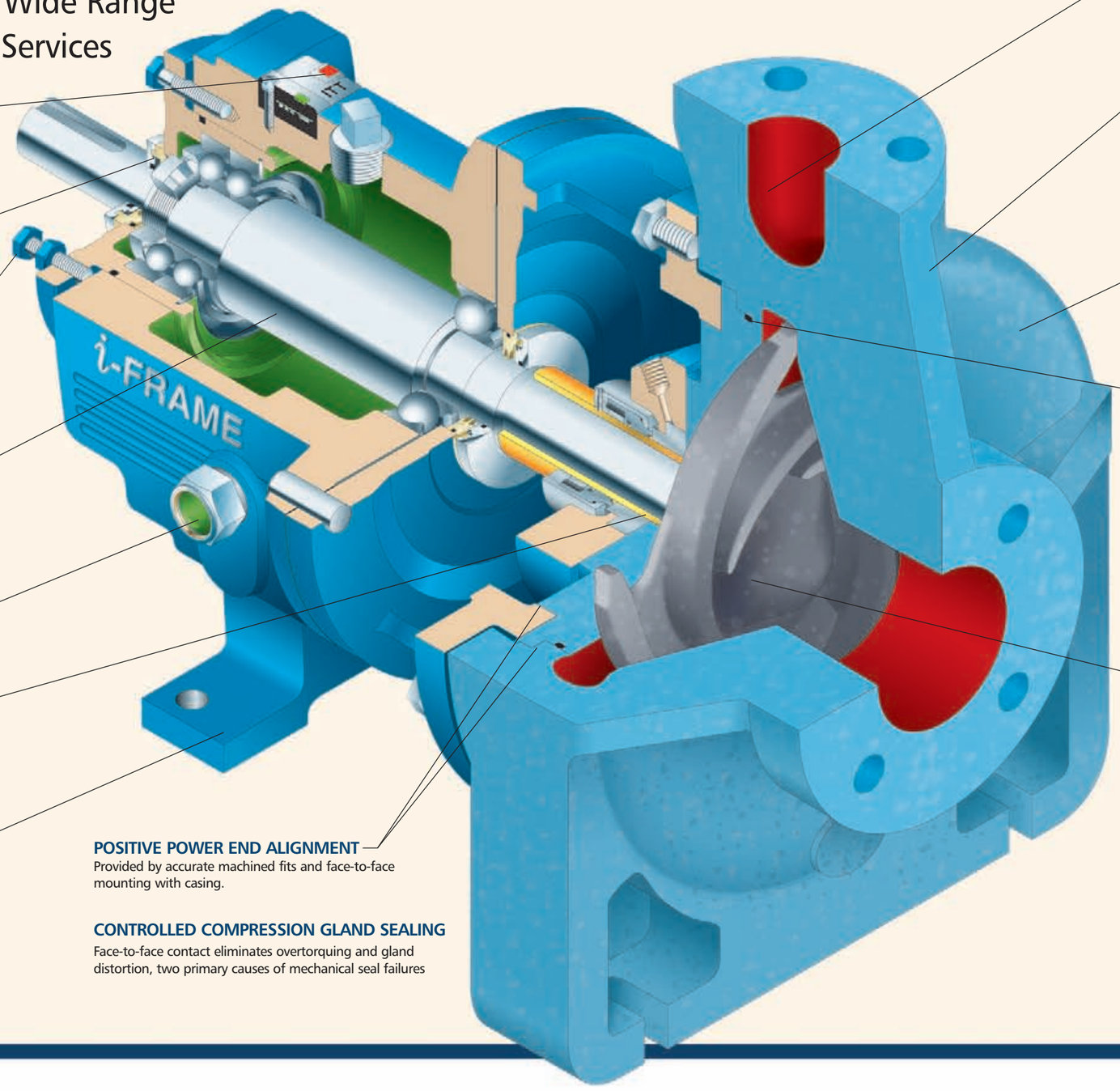
NM3196 *i-FRAME*™ FRP Process Pumps

Design Features for Wide Range of Severe Corrosive Services



CONDITION MONITOR
Constantly measures vibration and temperature at the thrust bearing. Colored LED's indicate general pump health. Provides early warning of improper operation before catastrophic failure occurs.

INPRO VBXX-D HYBRID LABYRINTH SEALS
Prevents premature bearing failure caused by lubricant contamination or loss of oil. Stainless steel rotors for optimal performance in corrosive environments

CONTINUOUS HIGH PERFORMANCE
Original high efficiency maintained by simple external adjustment resulting in long-term energy savings.

HEAVY DUTY SHAFT AND BEARINGS
Shaft designed for minimum deflection – less than .002 in. (.05 mm) – at seal faces. Bearings sized for 2-year minimum and 10-year average life under tough operating conditions.

ONE-INCH OIL SIGHT GLASS
For easy monitoring of actual oil level and condition.

SHAFT SEALING
Goulds NM3196 is available with backplate, stuffing box, TaperBore,or BigBore™ seal chamber. Accommodates conventional single inside, single outside, and double mechanical seals. TaperBore and BigBore™ seal chamber accommodates cartridge single and double seals.

RIGID FRAME (AND CASING) FEET
Reduce the effect of pipe loads on alignment.

i-FRAME POWER END
Designed for reliability and extended pump life, backed with a 5-year warranty.

POSITIVE POWER END ALIGNMENT
Provided by accurate machined fits and face-to-face mounting with casing.

CONTROLLED COMPRESSION GLAND SEALING
Face-to-face contact eliminates overtorquing and gland distortion, two primary causes of mechanical seal failures

HIGH-PERFORMANCE VOLUTE DESIGN
High-efficiency, true volute design achieved by exclusive Goulds Molding Process. Unlike other designs, efficiencies comparable to cast alloy ANSI pumps.

ONE-PIECE RIBBED CASING
Ribs provide maximum support to resist casing distortion and withstand flange loading. No need for expansion joints to reduce pipe loads as NM 3196 loading same as Model 3196.

Casing stud design eliminates need for through bolt fastening — allows complete interchangeability with 3196 casings.

REINFORCED VINYLESTER CONSTRUCTION
Unique high-strength molded material combines high-corrosion resistance and temperature capabilities with enhanced strength properties attained by Goulds Molding Process.

POSITIVE SEALING AT CASING JOINT
Provided by rugged, thick cross-section Viton O-ring. Teflon encapsulated Viton optional..

FULLY OPEN IMPELLER
Acknowledged best design for chemical services — solids handling, stringy material, corrosives, abrasives. Back pump-out vanes minimize seal chamber pressure.

Impeller insert assures maximum mechanical integrity, provides uniform low-stress torque transfer and maximum FRP material support. Assures close tolerance impeller-to-shaft alignment and fit. Metal to metal impeller drive.