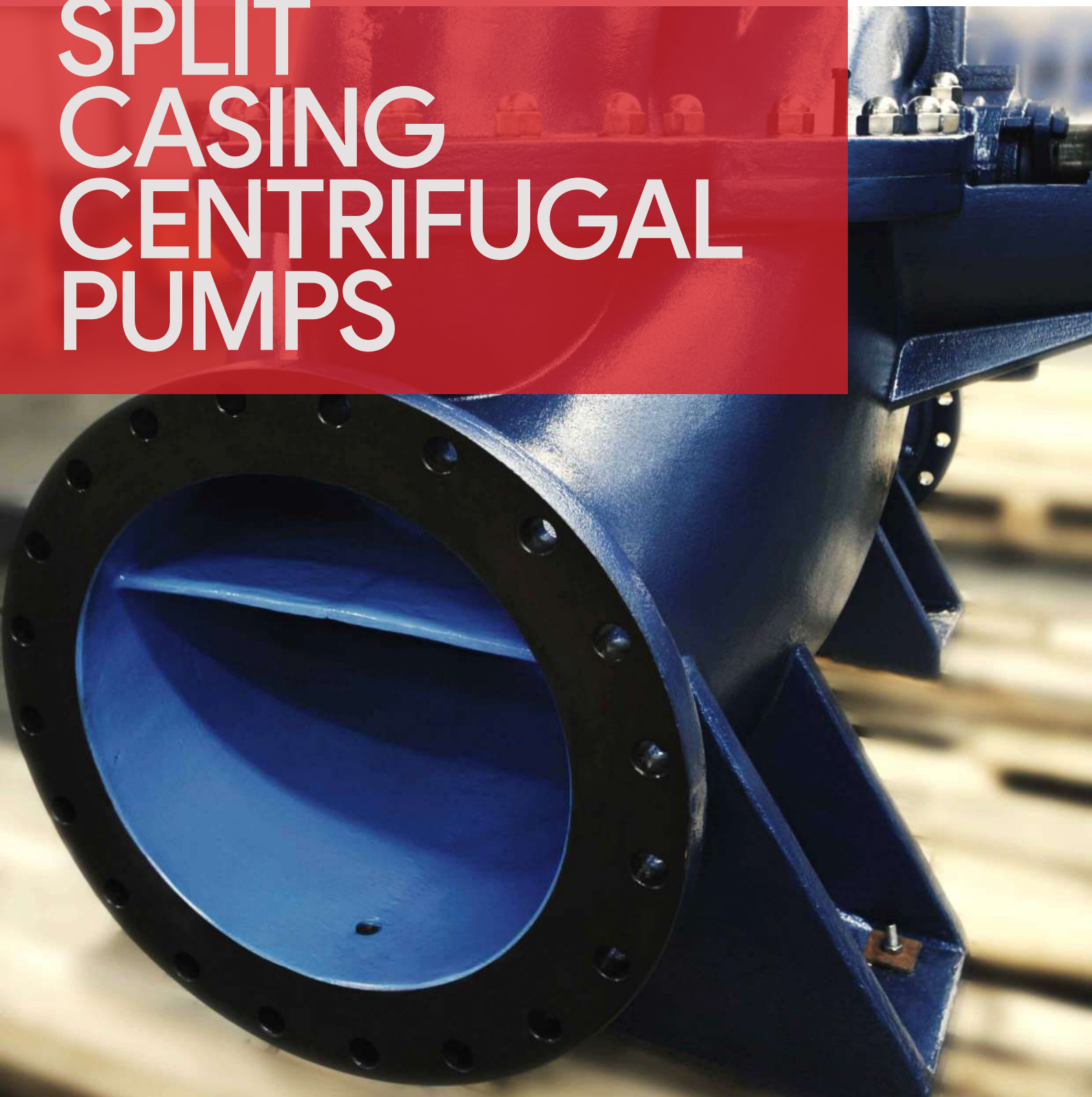



SPLIT CASING CENTRIFUGAL PUMPS



TURE SERIES

PRODUCT CATALOGUE

THIS IS GENERAL PRODUCT PRESENTATION. ALL INFORMATION HERE IN IS SUBJECTED CHANGE WITHOUT PRIOR NOTICE.



SHINDO HAS
CONSTANTLY
DEVELOP
THE CREDIBILITY
TO SERVE THE
INDUSTRY
EFFICIENTLY.

SHINDO IS COMMITTED TO PROVIDE HIGH VALUE-ADDED PRODUCTS IN MINIMUM LEAD-TIME AND AT COST EFFECTIVE PRICING, TO HELP CUSTOMERS ACHIEVE ZERO DOWNTIME, PRODUCTION TARGET AND HELP ENHANCE A SAFER ENVIRONMENT.



SPLIT CASING CENTRIFUGAL PUMPS

PAGE CONTENTS

01	APPLICATION OPERATING DATA
02	MODEL CODE
03	CONSTRUCTION DESIGN
04	MATERIALS OF CONSTRUCTION
05	SELECTION CHART (2900RPM & 1450RPM)
06	SELECTION CHART (980RPM & 740RPM)

APPLICATION

& BRIEF INTRODUCTION

SHINDO TURE SERIES ARE SINGLE STAGE, DOUBLE SUCTION, SPLIT CASING CENTRIFUGAL PUMPS. COMPARED WITH OTHER TYPES OF PUMPS, IT FEATURE LONG SERVICE LIFE, HIGH EFFICIENCY, ADVANCED CONSTRUCTION, LOW COST OF OPERATION, FRIENDLY MAINTENANCE AND SERVICE. WITH ITS ROBUST DESIGN, RELIABILITY IS A GUARANTEE AT ANY TIME AND ANY WHERE, EVEN UNDER EXTREME LOADS. WITH THAT BEING SAID, TURE SERIES IS SUITABLE IN WIDE RANGE OF APPLICATIONS.

■ GENERAL

RIVER WATER, BRINE, SEA WATER, FIRE-FIGHTING SYSTEM, SEWAGE AND WASTE WATER WORKS.

■ PROCESS

QUENCH WATER, STRIPPER BOTTOMS, WATER CIRCULATION, COOLING TOWER.

■ PULP & PAPER

PRIMARY AND SECONDARY CLEANER, FILTRATE, MILL WATER SUPPLY, FAN PUMP, SHOWER.

■ PRIMARY METALS

COOLING TOWER, QUENCH AND LEACHING.

■ MUNICIPAL

HIGH LIFT, LOW LIFT, WASH WATER, WASTE WATER, RAW WATER.

■ POWER GENERATION

COOLING TOWER, COMPONENT COOLING, SERVICE WATER.

■ MARINE

BILGE AND BALLAST, CARGO, COOLING WATER, FIRE PUMP.



OPERATING DATA

■ PUMP SUCTION/DISCHARGE SIZE

MAXIMUM SIZE OF TURE SERIES IS UP TO 1400MM (DN1400).

■ FLOWRATE (Q)

MAXIMUM FLOWRATE OF TURE SERIES IS UP TO 1700M³/HR.

■ HEAD (H)

MAXIMUM HEAD OF TURE SERIES IS UP TO 230M.

■ LIQUID TEMPERATURE

MAXIMUM LIQUID TEMPERATURE THAT BE HANDLED BY TURE SERIES IS UP TO +105°C.

■ OPERATING PRESSURE

MAXIMUM OPERATING PRESSURE OF TURE SERIES IS UP TO 30BAR.

MODEL CODE

TURE - 200 - 125 - 290 V

PUMP SERIES

SPLIT CASING CENTRIFUGAL PUMPS

SUCTION SIZE
IN MM

DISCHARGE SIZE
IN MM

IMPELLER SIZE
IN MM

INSTALLATION TYPE

NONE - HORIZONTAL TYPE

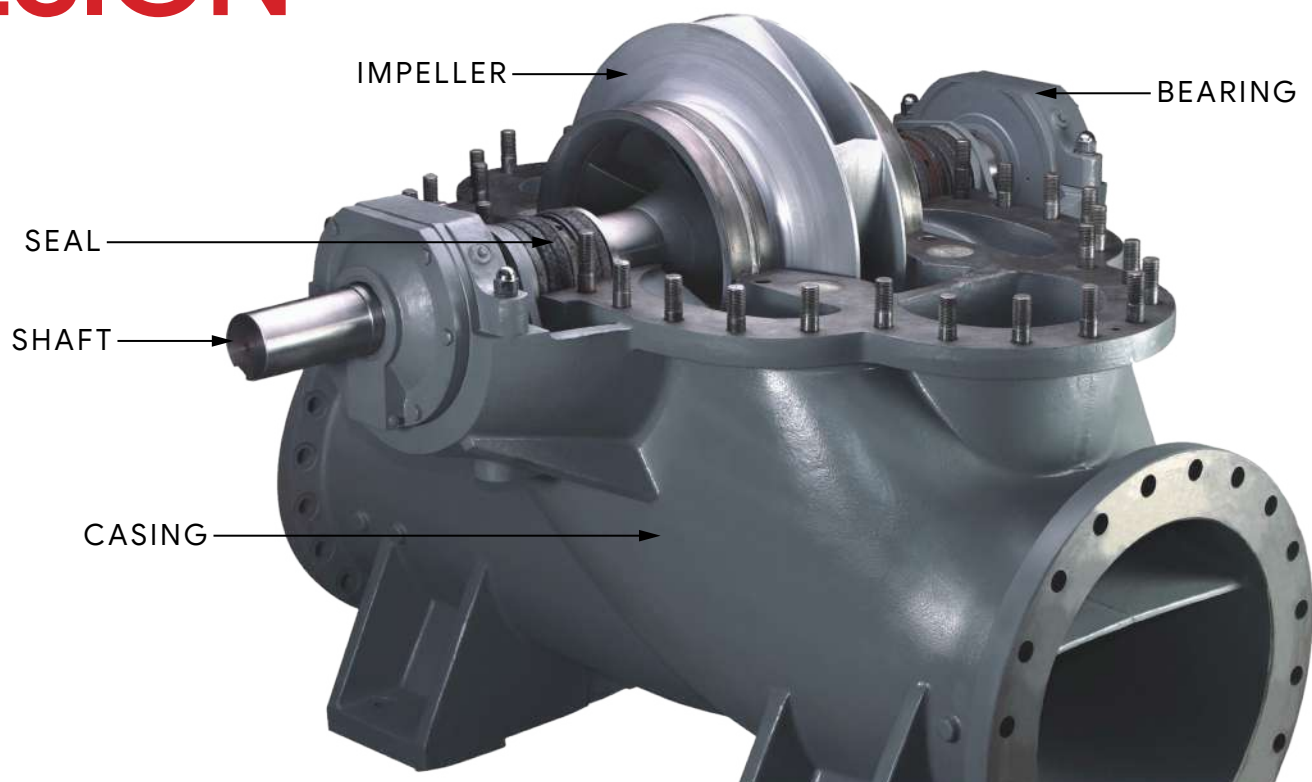
V - VERTICAL TYPE



TURE SERIES

02

CONSTRUCTION DESIGN



CASING.

COME WITH IN-LINE AXIALLY SPLIT DESIGN WHICH PERMITS THE REMOVAL OF COMPLETE ROTOR WITHOUT HAVING TO MOVE THE PIPE AND MOTOR. THE DISTANCE BETWEEN BEARINGS IS SHORT. HAS A LEAK-TIGHT ADVANTAGE DUE TO COMPACT JOINT FLANGE WITH LONG, PRESTRESSED BOLTS. COUNTER-ROTATION IS POSSIBLE WITH SIMILAR PARTS. ITS DOUBLE VOLUTE DESIGN REDUCES RADIAL FORCES ON THE IMPELLER AND CONSEQUENTLY HELPS REDUCING THE LOADS OF THE BEARING. THE UPPER PART COME WITH SELF-ALIGNING FEATURE WHICH HELPS THE INSTALLATION PROCESS BECOME EASIER AND FOR THE FLANGE STANDARD, THE AVAILABLE OPTIONS ARE ISO, DIN, BS AND ANSI. DESIGNED FOR HEAVY DUTY AND HIGH WORKING PRESSURE.

SHAFT.

IT IS SHORT AND RIGID WITH NEGLIGIBLE VIBRATIONS DURING OPERATION. DESIGNED AS AN HEAVY-DUTY SHAFT WHICH COMPLETELY SEALED AND DRY TO ELIMINATE THE THREAT OF EXPOSED TO PUMPING LIQUID WHICH AS THE RESULT ENSURING A CONDITON OF ZERO-CORROSION AND HELPS TO PROLONG THE SERVICE LIFE OF THE PUMP. AS AN ADDITIONAL ADVANTAGE, DUE TO THE ELASTICALLY PRESTRESSED MOUNTINGS, THE PROCESS OF ASSEMBLING AND DISMANTLING OF THE ROTOR COMPONENTS HAS BECOME QUICK, EASY AND ADJUSTMENT-FREE.

SEAL.

FOR GLAND PACKING SEAL, IT IS ASBESTOS-FREE, SOFT-PACKED STUFFING BOXES WITH POTABLE WATER QUALITY. FOR MECHANICAL SEAL, IT IS AN UNBALANCED MECHANICAL SEAL WITH ACCORDANCE TO DIN24960 STANDARD. BALANCE MECHANICAL SEAL FOR OPERATING PRESSURE MORE THAN 16 BAR IS AVAILABLE ON REQUEST. CARTRIDGE-TYPE MECHANICAL SEAL IS ALSO AVAILABLE ON REQUEST.

IMPELLER.

COMPUTER-OPTIMIZED DOUBLE-ENTRY IMPELLER WHICH LEADS TO A MINIMAL AXIAL THRUST. STATICALLY AND DYNAMICALLY BALANCED WITH ACCORDANCE TO ISO1940 STANDARD. IMPELLER WEAR RINGS ARE OPTIONAL. IT HAS AN EXCELLENT HYDRAULIC CHARACTERISTICS AS A RESULT OF NEW VANE PASSAGE DESIGN PROMISING A HIGH PERFORMANCE.

BEARING.

MANUFACTURED BY SKF, THE BEARINGS ARE ANTIFRICTION GREASE-LUBRICATED FOR A LONG SERVICE LIFE. OPEN GLAND, ENOUGH SPACE FOR SERVICE ACTIVITIES.

MATERIALS OF CONSTRUCTION



THE STANDARD MATERIAL OF CONSTRUCTION OF TURE SERIES FOR CASING/IMPELLER/SHAFT ARE CAST IRON/STAINLESS STEEL/STAINLESS STEEL. FOR WEAR RING, THE STANDARD MATERIAL OF CONSTRUCTION IS CAST IRON. BUT BESIDES THE MENTIONED MATERIAL, THESE PARTS ARE ACTUALLY AVAILABLE WITH OTHER MATERIAL OPTIONS AS WELL. BELOW ARE THE LIST OF MATERIAL AVAILABLE FOR THESE PARTS:

■ VOLUTE CASING

- ✓ CAST IRON
- ✓ NI-RESIST CAST IRON
- ✓ DUCTILE CAST IRON
- ✓ CARBON STEEL
- ✓ STAINLESS STEEL
- ✓ DUPLEX STAINLESS STEEL

■ IMPELLER

- ✓ CAST IRON
- ✓ NI-RESIST CAST IRON
- ✓ DUCTILE CAST IRON
- ✓ BRONZE
- ✓ STAINLESS STEEL
- ✓ DUPLEX STAINLESS STEEL

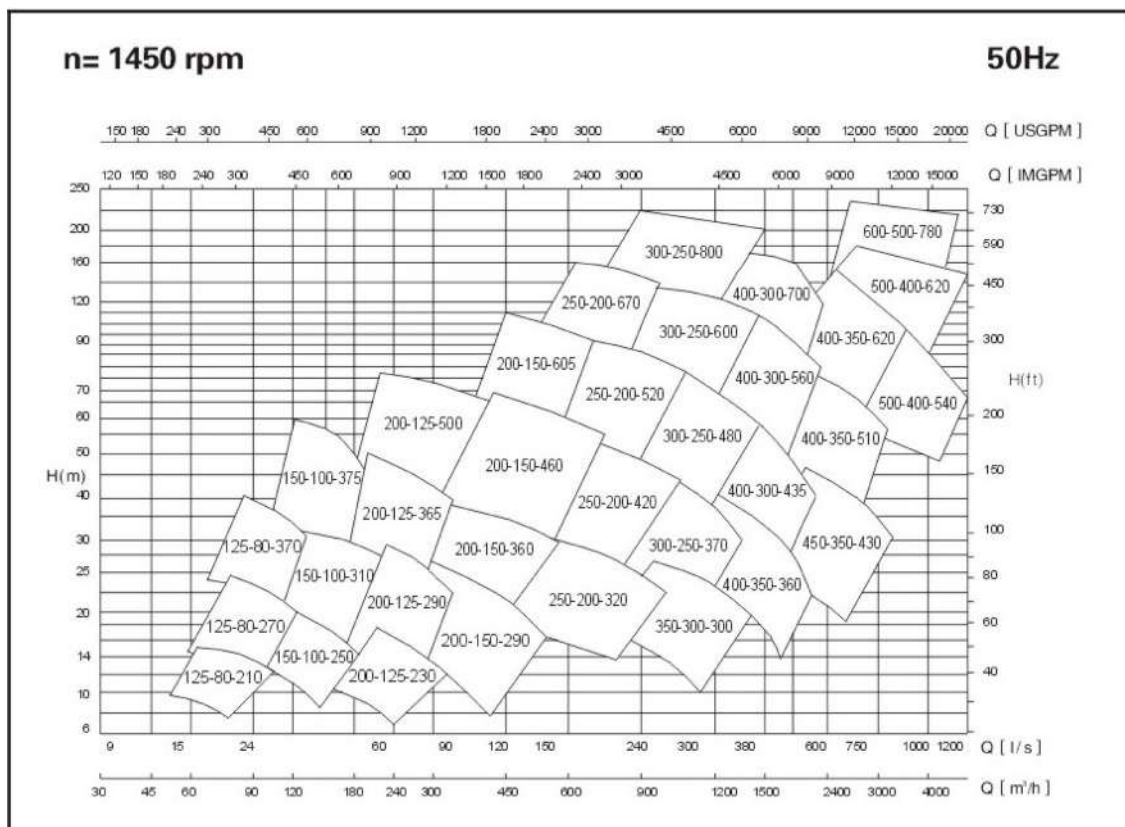
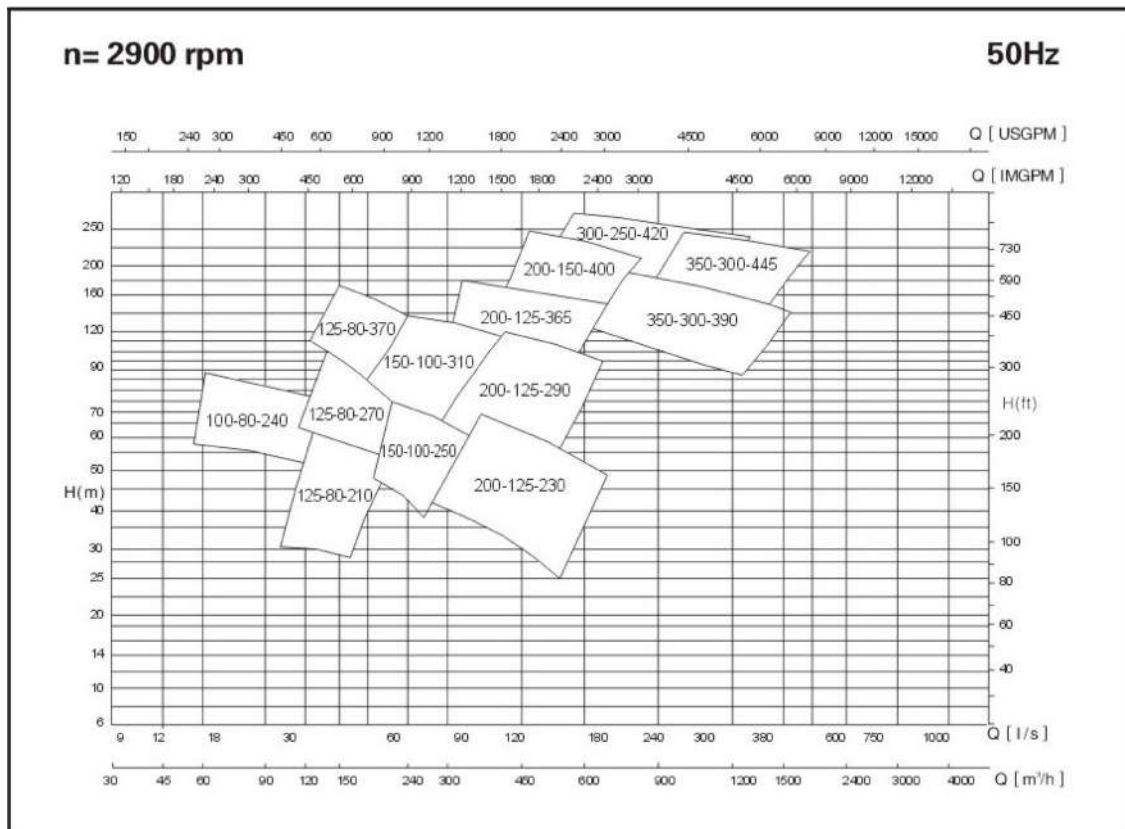
■ SHAFT

- ✓ CR-STEEL
- ✓ STAINLESS STEEL

■ WEAR RING

- ✓ CAST IRON
- ✓ NI-RESIST CAST IRON
- ✓ DUCTILE CAST IRON
- ✓ BRONZE
- ✓ STAINLESS STEEL

SELECTION CHART



SELECTION CHART

