SRI RANGANATHAR INDUSTRIES
SAND CASTINGS

SRI RANGANATHAR VALVES
SAND CASTINGS AND INDUSTRIAL VALVES

SRI RANGANATHAR VALVES & CONTROL PVT LIMITED
INVESTMENT CASTINGS
BRAIN BEHIND

THE FIRST GENERATION

Mr. V. Narayanasamy Chairman & Managing Director.

Has been famed “THE BEST METHODS MAN” for his tremendous

-skill in producing excellent quality steel castings.

Qualified Mechanical Engineer.
42 years of Foundry experience.
30 years being an Industrialist.
Leader from the front.
THE FIRST GENERATION..

- Mr. J. Elangovan Technical Director.
- Qualified Mechanical Engineer.
- 30 years of experience in the Valve Industry
- 17 years being an Industrialist.
- A well known man in the Valve Industry for valve Manufacturing & Engineering.
THE NEXT GENERATION

Ms. N. Vinayasree - Director.
Qualified Instrumentation Engineer & Master in International Business.
Inducted into the Business and ready to take over after the first generation.

Mr. N. Harikrishna - Director.
Qualified Production Engineer & Master in International Business.
Inducted into the Business and ready to take over after the first generation.
GROWTH PATH

- Established as a PATTERN SHOP in the year 1983.
- Expanded as a STEEL FOUNDRY in the year 1987.
- Expanded with a MACHINE SHOP in the year 1994.
- VALVE MANUFACTURING unit started in the year 1995.
- SECOND FOUNDRY (SRV) started in the year 2000.
- CRYOGENIC VALVE TESTING LAB started in the year 2012.
- INVESTMENT CASTING FOUNDRY started in the year 2013.
- HEAVY DUTY CNC MACHINE SHOP started in the year 2013.
SRI Patternshop features highly trained pattern makers from the simple to the extremely complex casting design.

Our patterns ensure accurate casting that meets customer specifications.

CNC machined patterns provide close & consistent casting tolerances.

The Patternshop is strengthened with dedicated CNC machine for full time pattern making from solid models and Simulation software **SOFT CAST 3.5 for methoding**.

Our in-house pattern shop reduces processing time from prototyping to production. We handle 5,550 active patterns.
FOUNDRY PROCESS & CAPACITY (SAND CASTING)

PROCESS

MOULDING - Sodium Silicate / CO2
CORE MAKING - Sodium Silicate / CO2
Shell Process
No-Bake

MONTHLY CAPACITY

SRI- UNIT-1 500 TONS MAX. CASTING WEIGHT RANGE: 1200KGS = 2646LBS

SRV 500 TONS MAX. CASTING WEIGHT RANGE: 4000KGS = 8800LBS
**Wax Pattern Shop**
Centralized air conditioned and well equipped Wax preparation with fully automatic wax injection presses.

**Shell Room**
Centralized air conditioned Unit & Dehumidifier for control of Temperature & Humidity in the entire Ceramic Coating & drying area.
Indigenous Ceramic coating technology for better quality of ceramic shell strength & better surface finish of castings.
Secondary and Backup coating is automatic using Robotics’

**De-Waxing**
Autoclave & Boiler unit.
Sintering Furnace Capacity: 1 Ton

**Melting**
We have one 100kg and two 250kg induction furnaces with automatic conveyer system to give sufficient cooling time for shells after melting.

**Installed Capacity:** 75 tons/month

**Size Range**
We can produce components weighing from 1kg-50kgs
HEAT TREATMENT, FETTLING, ACID PICKLING & PASSIVATION

- All the three units have an individual Heat treatment, Fettling and Acid pickling and Passivation facility.
- The Heat treatment facilities include Oil fired, Electrical & Muffle Electrical Furnaces with water quenching tanks.
- All the three units have full fledged in-house Fettling shop to do finishing operations.
- We also have qualified & approved Sub-contractors for Fettling process.
TESTING FACILITIES

In-house Chemical and Mechanical Testing facilities as follows,

- Sand Test,
- Wet analysis,
- PMI,
- SPECTRO analysis,
- Hardness Test,
- Tensile,
- Impact
- Micro Structure analysis,
- MPT, DPT and UT
- Radiographic testing using IR 192 & CB 60
STEEL GRADES WE POUR

**Exotic Steels** -- ASTM A 494 A Gr. CZ100, M35-1, N12MV, N7M, CY40, CW12MW, CW6M. CW6MC, CX2MW, CU5MCuC, CX2M

**Duplex Steel and Super Duplex** – ASTM A 995 Gr. 4A, 5A, 6A, 1B,

**Stainless Steel** – ASTM A 351 Gr. CF8M, CF3M, CF8, CF3, CG8M, CG3M, CF8C, CK3MCuN, CN7M, CD4MCu, CD4MCuN, CD3MW CuN

**Carbon Steel** – ASTM A 216 Gr. WCC, WCB,

**Low temperature Steel** – ASTM A 352 Gr. LCC, LCB,

**Low Alloy Steel** - ASTM A 217 Gr. WC6, WC9, CA15, C12, C12A, C5, A 487 CA6NM

**PH Duplex Steel** – ASTM 747 – CB7Cu-1 (17-4PH)
SRI has fully equipped in-house machine shop, Assembly & Testing facility with all the necessary machineries such as,

- CNC machines,
- Conventional Lathes,
- Drilling Machines,
- Hydro Testing Machines,
- Ultra Modern Inspection & Testing facilities

- that ensure the valve casting is completed with the high quality & custom precision.

We do **in-house calibration** using Lab Concept 500 – TRIMOS, Brown & Sharpe **CMM Gage 2000**, Tesa 2D Micro Hite 600 mm to make sure that the output is accurate.
MACHINE SHOP CAPABILITIES

MACHINING CAPACITY

MAXIMUM SWING DIAMETER = 3200 MM = 126 INCHES

MAXIMUM SWING HEIGHT = 2500 MM = 98 INCHES

MAXIMUM PCD FOR DRILLING AND TAPPING = 2800 MM = 110 INCHES

MAXIMUM WEIGHT OF THE CASTING CAN BE MACHINED = 50000 Kgs

HYDRO TESTING

MAXIMUM PRESSURE = 648 Kg/CM^2 = 9200 PSI

NO RESTRICTION ON THE SIZE OF THE CASTING.

CRYOGENIC TESTING

We also have Cryogenic testing facilities to test upto 24”600 Valve at -196° C as per BS 6364.
Sri Ranganathar Group produces

- More intricate,
- Smaller weight,
- High alloy castings that weigh from 1 Kg to 4000 Kgs.

We produce high quality **Valves & Valve Castings and Pump Castings** in

- Exotic Steels,
- Duplex & Super Duplex Steel,
- Stainless Steel, Carbon Steel,
- PH Duplex Steel,
- Low temperature Steel and Low Alloy Steel grades both in Sand casting & Investment casting process.

We design and supply Valves to customer requirement, as we have a dedicated design and Engineering facility with well qualified and highly experienced engineers in addition to software’s for modeling and analysis for FEA, Fluid Dynamics and Statics.
CLIENTELE

- GE Energy
- LEESLIE CONTROLS, INC.
- DeZURIK
- Cameron
- Emerson
- XOMOX
- PARUM
- Fisher
- azbil
- Lightnin
- Flowserve
- WW EuroValve
- Stream Flo Industries Ltd.
- BS&B
- Safety Systems
- AAP
- Davis Valve
- Pentair
- Valves & Controls
Our Quality Management System is certified to a number of national and international standard quality certificates and license are as follows:

- API 6D
- TUV Nord for
- ISO 9001-2008
- PED
- AD 2000 – MERKBLATT W0
- Fire safe certification for Ball valve

Further for our Marine applications we are certified by

- LLYOD’S,
- BV,
- DNV
- ABS.

These certifications ensure a high level of accountability, quality control, as well as constant upgrading of our systems.
QUALITY

- Providing the kind of high quality steel castings our customers have come to know and trust over the last 3 decades, SRI continually strives to provide The best Quality, Service, and Customer satisfaction in the industry.

- From the moment your order is taken to the time it leaves our shipping dock, your satisfaction is paramount. SRI is committed to satisfying our customers' needs and expectations in Quality, Delivery, and Service.

Managing Director
S R I SPECIALTIES

- MR.V.NARAYANASAMY LEADER FROM THE FRONT,
- 42 YEARS OF FOUNDRY EXPERIENCE
- ONE OF THE BEST “STEEL FOUNDRY METHODS MAN”

SHORTER LEAD TIME

ON-TIME

THE BEST QUALITY

IN HOUSE PATTERN SHOP WITH DEDICATED CNC MACHINES

**MAXIMUM SINGLE PIECE CASTING WEIGHT UPTO 4 TONS** CAN BE SUPPLIED

IN HOUSE GAUGES CALIBRATION

**IN HOUSE CMM INSPECTION**

IN HOUSE RT BOTH IR 192 AND COBALT 60

WORLD CLASS INVESTMENT CASTING FACILITY WITH ROBATICS

**CAN SUPPLY INVESTMENT CASTING, SAND CASTING AND AS A VALVE PRODUCT(ALL IN ONE PLACE FOR OUR CUSTOMERS)**

ALL FACILITIES WITH DEDICATED CNC MACHINE SHOP- CAN MACHINE UPTO 50 TON SINGLE PIECE WEIGHT

**THE BEST SERVICE AWARD FROM CUSTOMERS**
Thank You