



## **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.

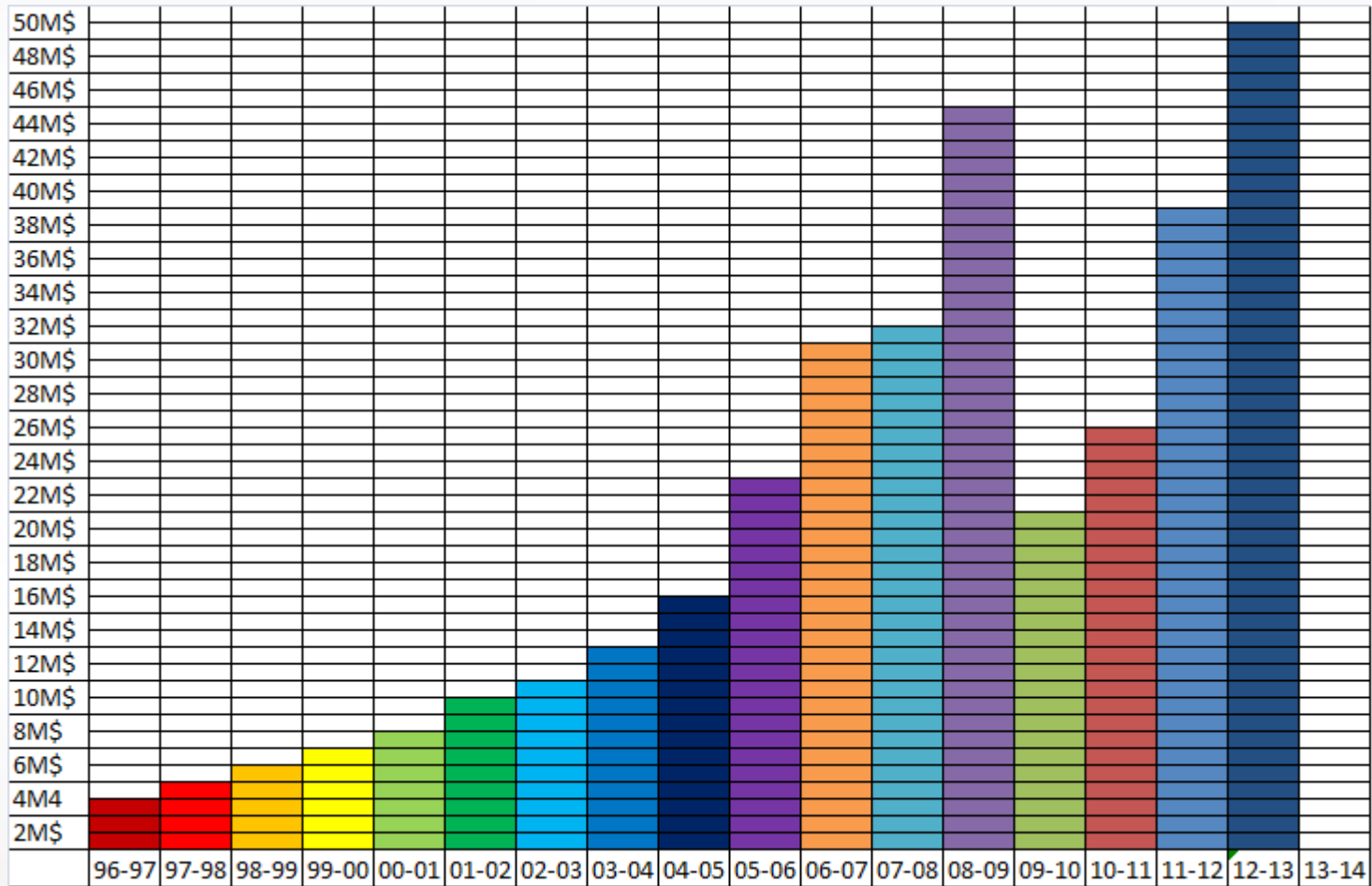


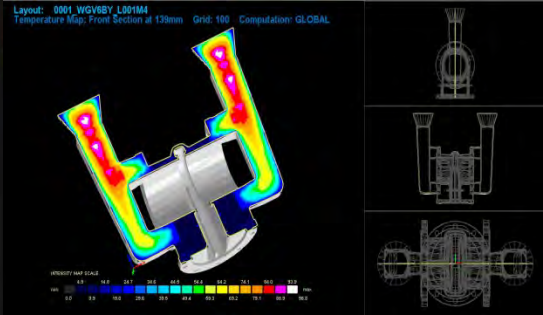
## GROWTH PATH

- 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.



# GROUP SALES TURNOVER





## PATTERN SHOP

- 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**



## INVESTMENT CASTING

### ➤ 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 : **75tons/month**

**Size Range**

We can produce components weighing from **1kg-50kgs**

# PICTURES



WAX PREPARATION



WAX MOULDING



SHELL COATING



POURING

## HEAT TREATMENT, FETTLING, ACID PICKLING & PASSIVATION



- All the three units have an individual Heat treatment, Fettleing 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 Fettleing shop to do finishing operations.
- We also have qualified & approved Sub-contractors for Fettleing process.



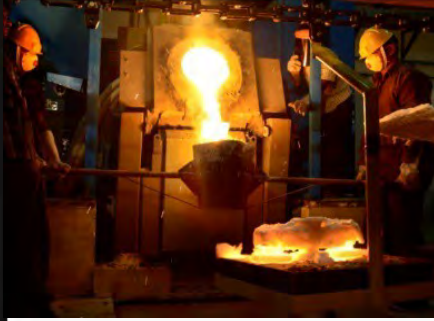


# TESTING FACILITIES

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, CD3MWCuN
- **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)

# MACHINE SHOP

➤ 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<sup>2</sup> = **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.



# PRODUCTS

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



**LESLIE**  
CONTROLS, INC.  
A subsidiary of CIRCOR International, Inc.



**DeZURIK**  
APCO | HILTON



**CAMERON**



**EMERSON**

**XOMOX**  
Process Valves & Actuators

**FORUM**  
ENERGY TECHNOLOGIES



**DeZURIK**  
APCO | HILTON

**FISHER**

**azbil**

**aap**  
INDUSTRIES

**Lightnin**

Davis  Valve

**FLOWERVE**

WW  EuroValve

**FORUM**  
ENERGY TECHNOLOGIES

**Stream Flo**  
INDUSTRIES LTD.

**BS&B**

SAFETY SYSTEMS

 **PENTAIR** VALVES & CONTROLS

# CERTIFICATIONS

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



Quality Certified to ISO 9001 : 2008

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 ROBOTICS
- **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 TEAM SRI