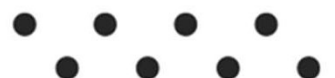


# Company Profile



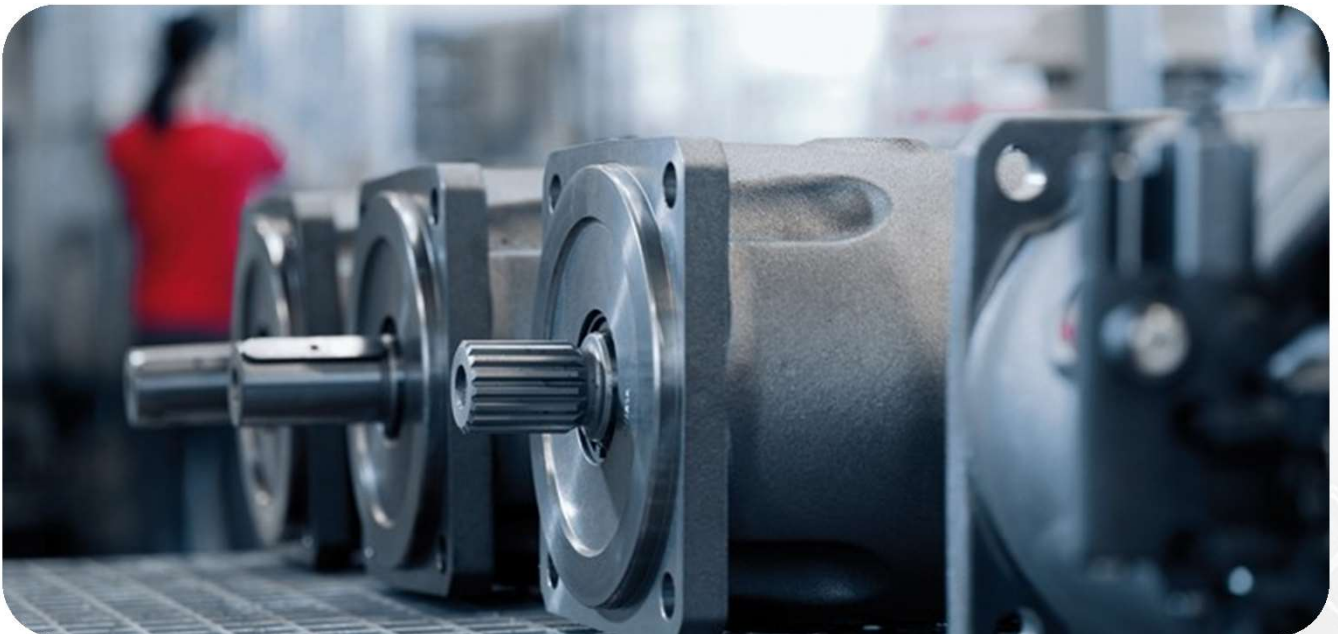
HYDRONINE  
FLUID SYSTEM INDIA LLP



## COMPANY PROFILE

**Hydronine Fluid System India LLP** is a Limited Liability Partnership firm incorporated on 01 March 2017 located in Belgaum, Karnataka and is one of the leading sellers of various Hydraulic Accessories. It is registered at the Registrar of Companies, Bangalore. It is a pioneer in designing & manufacturing hydraulic Manifolds, Pumps and various components which are highly efficient, accurate and cost effective in the industry. We believe in "Make in India" projects. Having a deep expertise in all kinds of next generation hydraulic pumps and valves manufacturing, our R&D hydraulic pumps & components are one of the most efficient & precise products in the market. We also specialize in compact solutions for pressure gauge isolators, an in-house development. Presently we are operating with 12 employees.

Our company mantra is to ensure delivery of high-quality products in agreed time to ensure customer satisfaction. We strive to evolve continuously. We also ensure our products pass through stringent quality control tests in order to maintain zero errors.



## PARTNERS



**MR. SANJAY BAGI**

Being a Partner with 36 years of experience in hydraulic engineering manages the technical & precise manufacturing of all hydraulic components and their accessories. He has completed his Mechanical Engineering from Walchand College, Sangli, Maharashtra. Sanjay was vastly associated with Bemco Hydraulic for 34 years as they are manufacturing highly precise hydraulic components for Indian defense, Indian Railways and Hindustan Aeronautical Limited Bangalore. He is also skilled with project designing & drawings for all hydraulic manifolds, pumps, valves & components. For the past two years, Mr. Bagi is keenly working for the development and designing of the unique piston pumps. The hydraulic pumps are built and supplied to customers for quality testing and approval which are then sent for Patent registration process. His contribution is a major asset to the organization.



**MR. VIPUL DANIGOND**

In addition to his responsibilities at Hydronine, runs a group of business entities. He is renowned as Director at Manorama Infosolutions Pvt. Ltd. which provides software solutions w.r.t healthcare and smart city developments. Apart from that he works in the field of construction, real estate, and technology and infrastructure development for telecom & gas sectors. He is our biggest strength guiding Hydronine Fluid System India LLP in its activities while chartering our journey in ever changing business environment. At a young age, he is currently heading over 6 organizations with dynamism and flair to succeed, setting up a benchmark in the Telecom, Gas & Healthcare Software Solutions domain by offering widespread networks all over India.

# GROWTH CHART

## 2020 – 2021

- With Patented designs
- Customers are approaching with bulk orders
- Machine capacity falling short
- Planned for new Infrastructure

## 2018 – 2019

- W3G Part Experience in R&D
- Started Own industry
- Reengineered critical Parts like Valve AP Pump, Radial Pump
- Our design applicable for Patents for new inventions

## 1996 – 2009

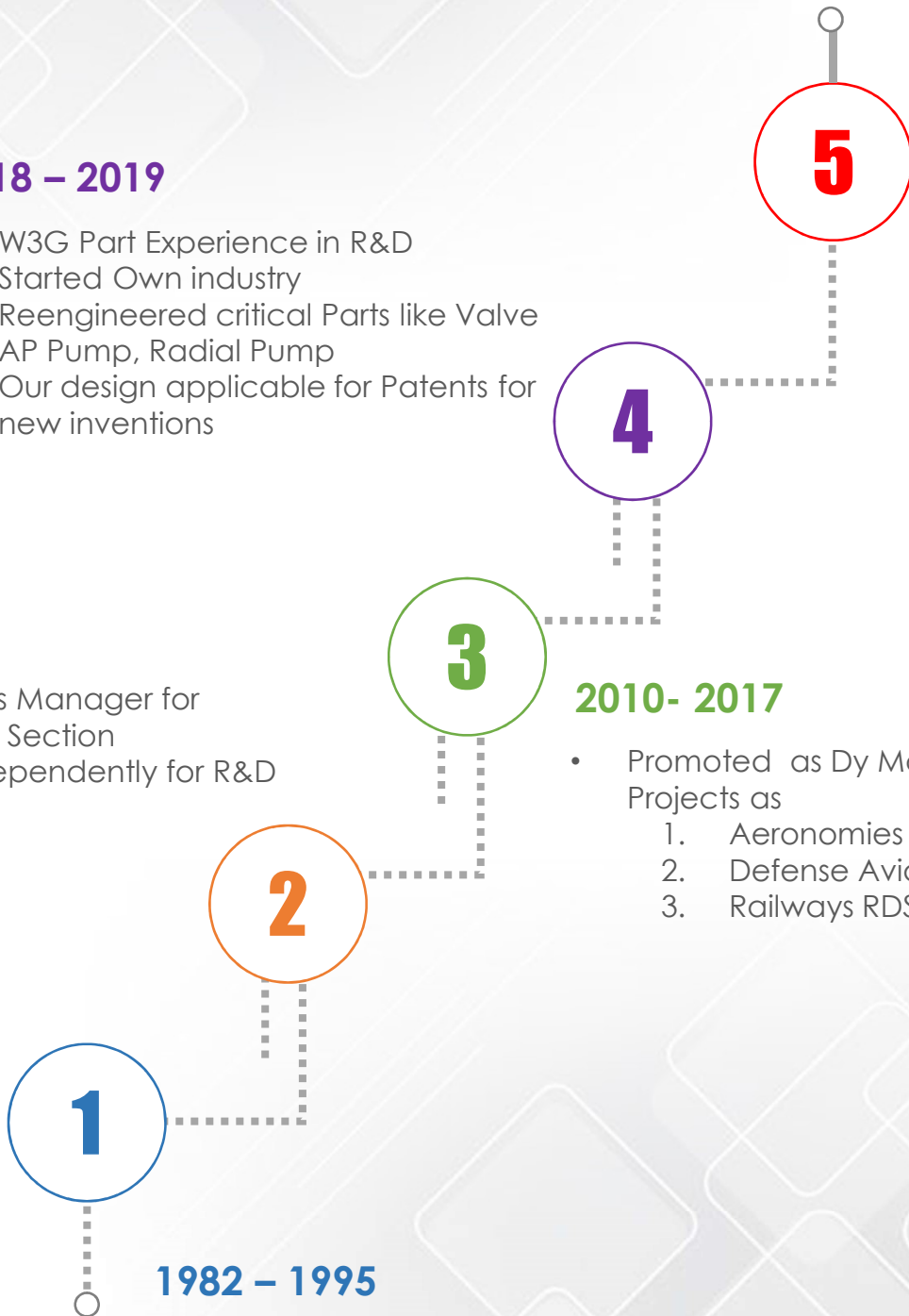
- Promoted as Manager for Pump Valve Section
- Worked independently for R&D Work

## 2010- 2017

- Promoted as Dy Manager. R&D for Projects as
  1. Aeronomies HAL Bangalore
  2. Defense Avid Chennai
  3. Railways RDSO Lucknow

## 1982 – 1995

- Working as Junior Engineer in Pump & valve Section



## SPECIALTY

Hydronine is specialized in developing non-standard valves as per customer's requirement or repairing any imported valves. Hydraulic has one principal parameter i.e., Oil Pressure and Flow rate.

**1. PUMP-** Pump is the main element in any hydraulic system to build pressure and Flow.

Pump has three main vertices:

- i. **Piston pump**
- ii. **Valve pump**
- iii. **Gear pump**

**2. VALVES-** Valve is another main element in hydraulics to carry out the function of pressurized oil namely direction, safety , exhaust, break flow etc. Main types of Valves:

- i. **Direction Control**
- ii. **Flow control**
- iii. **Pressure limiting**
- iv. **Sequence**
- v. **Exhaust**
- vi. **Non return**

▪ Hydronine has developed all above listed valves with typical change in construction resulted in valve function as more reliable efficient than available in market.

**3. PATENT DESIGN-** Hydronine has developed unique valve with our own design

- i. **Exhaust valve**
- ii. **Pressure gauge isolator**
- iii. **Direction Control Valve**
- iv. **Radial Pump**
- v. **Axial Pump**
- vi. **Counter-balance valve**

## 1. PUMPS

- i. **Radial Piston Pumps-** Rugged low-cost pumps with all parts renewable by replacement. Oil immersed type, open execution, face mounting, valve controlled, fixed delivery, bi-directional rotation of shaft. For coupling the pumps to the electric motors standard bell housing assemblies are available. available with two pumping elements.
- ii. **Pumping Elements-** Pumping Element Assembly for 1R / 2R. Oil immersed type, open execution, face mounting, valve controlled, fixed delivery.
- iii. **Booster Pumps**
- iv. **Axial Piston Pump**

## 2. PRESSURE CONTROLS

- i. Direct Operated Pressure Relief Valve.
- ii. **Direct Operated Pressure Control Valve-** Hydraulically cushioned valves, used to control sequencing, relieving, unloading or counter-balancing operations.
- iii. Direct Operated Pressure Reducing Valve.
- iv. Pilot Operated Pressure Relief Valves (Cartridge Type).
- v. Pilot Operated Pressure Reducing Valves (Cartridge Type).
- vi. **Pressure Control Modules-** Designed to control double pumps of a Hi-Low system. Unloads low pressure pump when system pressure rises above the pressure set on unloader valve. Relieves high pressure pump when system pressure reaches the value.
- vii. **Counter-balance Valve-** Counter balance valves are seat type valves. They offer free-flow from their port B to A and give leak free closure in opposite direction upto a predetermined pressure. This predetermined cracking pressure can be adjusted within its maximum specified range.
- viii. Pressure Gauge Isolators.

## HYDRAULIC PRODUCTS

### 3. CHECK VALVES

- i. **Shuttle Valves-** Seat type construction. Automatically connects its P port to either A or B depending upon whichever of the two ports is at higher pressure level. Isolates port A and B from each other. Port P gets connected to tank, only if, port A and port B are connected to tank. Available both in Threaded and Subplate type.
- ii. **Check Valve-** These seat type valves allow free flow from port A to port B and give leak-proof closure in opposite direction. Available as inline mounting or Subplate mounting as per factory & ISO standards.
- iii. **Prefill Valve-** Intended for prefilling and exhausting of large hydraulic cylinders. Can be used as anticavitation check valves. Decompression feature is optional up to size 80.
- iv. **Check Valve, SCREW-IN CARTRIDGE.**

### 4. LOGIC CARTRIDGES

- i. **Cartridge Valves-** These modular valves are available with the pilot operated check valve facility on either A or B or both A and B ports. The hydraulic opening operation for free flow in reverse direction is achieved by means of internal pilot pressure available from the other working port.
- ii. **Two Port Slip-In Cartridges ISO 7368-** Seat type construction. Automatically connects its P port to either A or B depending upon whichever of the two ports is at higher pressure level. Isolates port A and B from each other. Port P gets connected to tank, only if, port A and port B are connected to tank. Available both in Threaded and Subplate type.
- iii. **Cartridge covers-** Cover with built in shuttle valve for fitting Directional spool valve.

**5. MANIFOLD'S TAILOR MADE-** Designed specially for multistation directional control valves, CETOP- 4.2 - A - 05(P). Number of stations vary from minimum 2 to maximum 7.

### 6. OTHER ACCESSORIES

- i. Pressure Switch
- ii. Customized products
- iii. Non-Standard cartridge valves

## EXISTING SETUP OF MACHINERIES

1. Doosan DNM 5700 with heidenhain scales on all 3 axis, Nikken 4<sup>th</sup> and 5<sup>th</sup> axis rotary table and Blum Novotest tool and work probing systems



2. Jig Borers Machine



3. HMT Radial Drilling Machine



4. HMT H22 Gearhead Lathe





## EXISTING SETUP OF MACHINERIES

5. ELB Surface Grinding Machine



6. Sunnen Honning Machine



7. Batliboi BVR3 Radial Drill Machine



8. Semi Automatic Cylindrical Grinding Machine



# PROCESS FLOW CHART



## ORGANIZATIONAL SCOPE

<b>Market Trend</b>	<p>All heavy machine manufacturers are now Switching over to Hydraulics from mechanical or Pneumatic. Reason behind this is Hydraulics is more compact, more precise, more efficient and most reliable.</p> <p>Basically, Hydraulics is applied for Heavy forging, Metal forming (Automobile) Navy, Defense (Ammunition) Automobile (Assy.) Space Science, Aeronautics Automatic power industry etc.</p>
<b>Demand for Product</b>	<p>All the above-mentioned industries require Hydraulic Pump, Valve, and accessories to build hyd. System further used to build machines. Thus, hydraulics has a huge Demand.</p>
<b>End use</b>	<p>We are Manufacturer of Pump, Valve, and Hydraulic accessories which are must for any hydraulic industry,</p>
<b>Competitors</b>	<p>Polyhydron, Prism Hydraulic, Poly flow industries are main competitors who supplies All over India.</p>
<b>Arrangement for Orders</b>	<p>We are Co-associated with major Hydraulic Machine builders viz. Bemco Hydraulic, Chimaho Automations, VMD System, SPM Hydraulics Span Hydraulics Hydro motion Controls for part 3 Years.</p> <p>Our Aim is to Produce more reliable and most efficient product than Our Competitors.</p> <p>All Industries named above are keener to procure from Hydrone Fluid Systems India LLP.</p>

## CLIENTS



**Hydramotion Controls**



**BEMCO Hydraulics  
Limited**



**VMDS**

**VMD Systems**

**SPAN ENGINEERS**

**SPAN Engineers**

***CHIMAHO***

**CHIMAHO Automation  
Systems**



**Askra Technosys (India)  
Pvt. Ltd.**



Thank You

Contact us



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