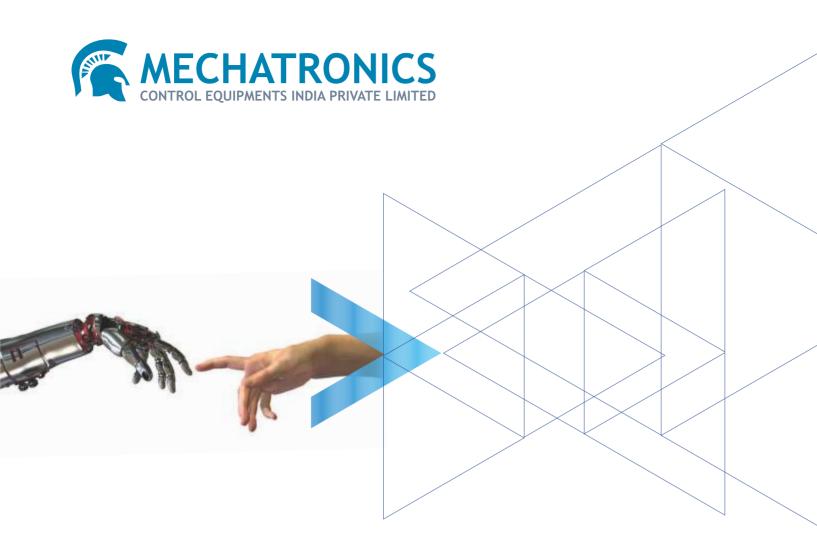




INDUSTRIAL AUTOMATION IN MANUFACTURING TECHNOLOGY



A company established to provide one stop TOTAL SOLUTION for Industrial and Process Automation.

Over the years, Mechatronics has strengthened its operation by providing critical turnkey solutions in **PNEUMATICS**, **HYDRAULICS**, **ELECTRICAL VACUUM AND ELECTRONICS** APPLICATIONS. We have always been customer oriented by way of exhaustive and comprehensive spare parts inventory and knowledge sharing by way of training customer representatives. Mechatronics has been practiced to provide solutions at customer doorstep and effective after sales service backed by state-of-the-art sales, service and Training centre.

At the helms of affairs at Mechatronics are qualified well trained and customer oriented engineers serving various locations in India at DELHI, AHMEDABAD, MUMBAI, PUNE, KOLKATA, BANGALORE, HYDERABAD and COIMBATORE with its head quarters based in CHENNAI covering other parts of Tamil Nadu and Pondicherry and the Middle East such as entire UAE and Saudi, Qatar with its head quarters at Dubai and independent showrooms at Abu Dhabi, Al ain and Doha. Bahrain.

Our application engineers will study your work methodology to offer you an optimum solutions, which improves the efficiency and quality of your products produced.

Our speciality is technology upgradation and to provide complete custom built panels with PLC programming.

Mechatronics has joined hands with pioneers of technology to bring you world class products. Thanks to the reliability and quality of our products and services, which enhances the productivity of our customer in sectors such as FOOD, STEEL, PHARMA-CEUTICAL, ALUMINIUM, PLASTIC, METAL, WATER TREATMENT AUTOMATIVE OIL & GAS ENERGY & POWER PACKAGING, RUBBER, FURNITURE TEXTILE etc..



PUMPS



Internal & External Gear Pumps



Fixed Displacement Vane Pumps



Variable Displacement Vane Pumps



Variable Displacement Axial Piston Pumps

PRESSURE CONTROL VALVE



Pilot Operated And Direct Operated Pressure Control Valve (Cartridge Type)



Pressure Relief Valve



Solenoid Operated PRV with unloading & Pressure Selection



Balancing valve(CETOP 05, 07, 08 & NG10, 16, 25)

FLOW CONTROL VALVE



Single and Double Acting Throttle Flow Control Valve (Threaded Ports, Cartridge Type)



Pressure and Temperature Compensated Flow Control Valve

LOGIC ELEMENTS & FILLING VALVE



Logic Elements



Filling Valves

DIRECTIONAL CONTROL VALVE



Solenoid Operated Directional Control Valve

Duplomatic is the leading point of reference within Italy for design and production of devices, components and units for industrial automation and hydraulic engineering.

Duplomatic started to develop and manufacture its own line of hydraulic components, thus

branching out from its early

aims and acquiring new

innovative technical solutions both in the components and

plant sectors.



Pilot Operated Distributor Solenoid or Hydraulic Controlled



Solenoid Operated Directional Valve Explosion Proof



Directional Valves with Spool Position Monitoring



Lever Operated Directional Control Valve



Pneumatically or Hydraulically Operated Directional Control Valve



Poppet type solenoid operated directional control valve



Bankable directional control valve

MODULAR TYPE



Direct operated pressure relief valve



Direct operated 3 way PRV valve with Fixed / Variable adjustment



Flow restrictor valve



Pilot operated check valve

PROPORTIONAL PRESSURE CONTROL VALVE



ITALY

Pressure control valve with proportional control & integrated Electronics



Pressure control valve in closed loop with direct proportional control and integrated Electronics



Pilot operated Pressure relief valves With proportional control



Pilot operated pressure valves in closed loop with proportional control and inegrated electronics

PROPORTIONAL FLOW CONTROL VALVE



Direct operated flow control valve with electric proportional control



Pilot operated flow control valve with electric proportional control



Direct operated flow control valve with electric proportional control and position feedback



Direct operated flow control valve with proportional control and compensation

PROPORTIONAL DIRECTIONAL CONTROL VALVE



Directional valve with Proportional control and integrated electronics



Directional valve with Proportional control and Electrical feedback



Directional valve with Proportional control and Integrated electronics with Monitored spool position



Pilot operated directional valve with Proportional control and Integrated electronics

SERVO VALVE

Product Range
• Pumps

Check valves
Subplates & manifolds
Modular valves
Cylinders
Proportional valves
Electronic control units
Pressure gauges, Filters

Pressure Control valves Flow control valves Hydraulic power pack Directional control valves

and Accessories



Electro- Hydraulic servo valve with integrated electronics



Electro-Hydraulic servo valve with integrated electronics



Electro-Hydraulic servo valve with integrated Electronics

EXPLOSION PROOF PROPORTIONAL VALVE



Explosion-proof Proportional directional Control valve



Explosion-proof Balancing valve with Proportional control



Explosion-proof Pressure relief valve with Proportional control, Pilot operated



Explosion-proof Pressure Reducing Valve With Proportional Control

ELECTRONICS & SOFTWARE KITS



Digital amplifier for open loop proportional valves



Analogue positioning card for stroke control in closed loop systems with digital feedback



Digital electronic control unit for open-loop single solenoid proportional valves



Software kit



HYDRAULIC CYLINDERS



Hydraulic Cylinder with clevis mounting



Heavy duty Hydraulic Cylinder



Electric Cylinder

MOBILE HYDRAULICS



Bankable load sensing Proportional control valve



Bankable directional Control valve



Six ways bankable Flow diverter



Self reversing valve



HYDRAULIC MOTORS



Axial - Piston Motor



Orbital Hydraulic Motor



HIGH TORQUE APPLICATION

Torque Range : 15 – 2110 Nm

Speed Range : 150 – 2440 Rpm

Flow Rate : 16 – 240 l/min

www.oleodinamicageco.com

CUSTOMIZED HYDRAULIC POWER PACK OF REPUTED MAKES



Compact Power Packs with Aluminum Tank



Power Packs with Fabricated Tank



Modular Power Pack for Machine Tool Application



Power Pack for Energy Sectors

CUSTOMIZED MINI / MICRO HYDRAULIC POWER PACK OF REPUTED MAKES



AC Power Pack With Cylindrical Tank



DC Power Pack With Cylindrical Tank



DC Power Pack With Plastic Tank



DC Power Pack With Remote option



2/2 way ball valve with threaded connection Pmax: 250-500 Bar Size: DN4-50



2/2 way ball valves with welding Ends Pmax: 160 Bar Size: DN10-50/65



2/2 way ball valves with SAE connection. Pmax: 210-420 Bar. Size:DN13-125 Metric Thread, UNC Thread



2/2 way ball valve with SAE/ ISO/CETOP connection Pmax:210-420 Bar Size DN13-200



3/2 way ball valve with threaded / SAE connection Pmax:315-500 Bar Size:DN4-50



3/4 way ball valvecombinations with threaded connections Pmax:250-500 Bar Size: DN4-25/40



3/2 way ball valve combinations with threaded connection (Actuation with one handle) Pmax:250-500 Bar/ Size: DN 4-50



2/2 way ball valve with manifold mounting / Cartridge -Pmax:315-500 Bar Size DN6-50



3/4 way ball valve for manifold mounting Pmax: 250-400 Bar Size:DN 6-40



2/2 way highest pressure ball 2/2 way ball valve for Gas 2/2 way ball valve for valve with threaded connection with Threaded connection Isocynate with Threaded Pmax: 800 Bar, Size DN 6-25



Pmax: 250-500 Bar Size: DN 4-50



connection / Pmax 250-500 Bar/ Size: DN 4-50 Size: DN 13-125



2/2 way ball valve with Fire safe approval Pmax: 160 - 420 Bar



Needle Valves for Piping Systems assembly with threaded connections for manifold mounting / for Cartridge assembly Pmax:350 Bar, Size DN6-40



Flow control valve for piping systems assembly with threaded connections / Manifold mounting Pmax:350 Bar; Size DN6-40



Check valve for piping systems assembly / manifold mounting / SAE connection Pmax:210-500 Bar. Size:DN6-50



2/2 way ball valve with limit switches Pmax:500 Bar, Size:DN4-25 / 40



2/2 way ball valve with locking device safety against unintendant actuation / different types / tamper proof. Pmax:500 Bar, Size: DN4-25/40



2/2 way ball valve with detends - safety against unintendant actuation. Pmax:500 Bar, Size: DN4-25/40



2/2 way ball valve with actuator / pneumatic / electric / hydraulic Pmax:500 Bar, Size: DN4-25 / 40



Levers / Accumulator Block



HYDRAULIC POWER PACK ACCESSORIES

www.omtgroup.com



Level indicator / Fixing Flanges



Suction strainer/ Suction or Return filter



Spin-on filter / Return filter



High / Medium Pressure Filter



Heat Exchangers



Foot Flanges



Aluminium and Cast iron coupling / bell housing



Aluminium Tank 3,6,10,16,25,55,75 ltr



Visual level gauge / Oil filler with air breather cap



Cleaning covers



Accumulators

LUEN HYDRAULIC VALVES



Counterbalance Valves Cartridge and Block type Flow Rate 1 to 180 lpm Max: Pressure 350 bar



Relief Valves Cartridge and Block type Flow Rate 1 to 180 lpm Max: Pressure 350 bar



Flow Control Valves Cartridge and Block type Flow Rate 1 to 180 lpm Max: Pressure 350 bar



Check Valves Cartridge and Block type Flow Rate 1 to 180 lpm Max: Pressure 350 bar



Solenoid Valves and integrated Blocks Flow Rate 1 to 25 lpm Max: Pressure 250 bar

SAFEPLAST OY



HOSE PROTECTORS



www.safeplast.fi

Safeplast specializes in producing high quality plastic spirals for many type of hose & people protection.



HIGH PRESSURE GEAR PUMPS & MOTORS

Marzocchi is one of the largest Gear Pump & Gear Motor manufacturing in the world. Marzocchi specializes in High Pressure aluminium body Gear Pump & Gear Motor. Displacement range: 0.16cc to 200 cc/rev. Pressure up to 310 bar depending upon the size and type. Within the same group, different flanges, shafts, inlet and pressure ports are available.

0.25 - 0.5 SERIES MICRO GEAR PUMPS



Group	Displacement (cc/rev)	Pressure (bar)
0.2	0.19 to 0.64	190
0.5	0.5 to 1.50	190

Extensive range and very high performance of these pumps integrated in to micro power packs make them ideal for many applications from aerospace to marine, medical to automotive

ALP /GHP SERIES GEAR PUMPS



Group	Displacement (cc/rev)	Pressure (bar)
ALP1/GHP1	1.4 to 13.8	250
ALP2/GHP2	4.5 to 35.2	250
ALP3/GHP3	20 to 87	230
ALP4	87 to 200	240

This product range includes pumps of different displacements (up to 200cc/rev) in full aluminium con guration (ALP) Cast iron front anges and rear cover(GHP), able to withstand medium, to high pressures and using different versions of angers (European, German and SAE), porting and shafts, used in industrial and mobile sectors

HIGH / LOW PUMPS



Group	Displacement (cc/rev)	Pressure (bar)
1st Stage	1.1 to 8.3	250
2nd Stage	e 3.7 to 35.2	Pressure set by unloading value

Ideal pump for applications which require a fast approach and /or return of the actuator at low loads and slow motion of the actuator at high loads. E.g. log splitters, compactors and presses. Volumetric and mechanical ef ciencies as well low noise levels are further bene its of this range

ALM / GHM SERIES GEAR MOTORS



	(cc/rev)	(cc/rev)	
ALM1/GHM1	2.8 to 13.8	2.8 to 11	250
ALM2/GHM2	4.5 to 35.2	4.5 to 28.2	250
ALM3 / GHM3	20 to 87	22 to 87	230

For medium to high pressure rates the ALM series is ideal for mobile and Industrial sectors. Mono-directional and bi-directional with internal and external drain available. The GHM series offers identical con gurations to the ALM series but more robust thanks to the cast iron front ange and rear cover

1P SERIES MINI GEAR PUMP



Displacement (cc/r	ev) Pressure (bar)
1.1 to 8	230
0.9 to 5.8	230
	1.1 to 8

High production rates, performance consistency and absolute reliability ensure this a benchmark product for the hydraulic power pack market.

ALP/GHP SERIES MULTIPLE MODULAR GEAR PUMPS



Group	Displacement (cc/rev)	Pressure (bar)
ALP/GHP	1.9 to 200	250

Modularity and exibility are the characteristics of these pumps. They allow the assembly of pump modules of the ALP and GHP (from 0.25 to 4) enabling solutions to wide range of application requirements.

LOW PRESSURE GEAR PUMP



Group	Displacement (cc/	rev) Pressure (bar)
FTP	7 to 87.1	50

Marzocchi FTP pumps are based on ELIKA Gear Technology which reduces the noise level by an average of 15 dBA compared with a conventional External gear pump.

These pumps are typically used in Lubrication Applications.

KIP/EK1P SERIES MINI GEAR PUMPS



Group	Displacement (cc/	rev) Pressure (bar)
EK1P	1.1 to 4.8	210

such as hydraulic mini power packs.



Low noise, Low Pulsation Gear Pump Elika Series

ELIKA is a solution for all applications requiring low levels of noise and high levels of ef ciency, particularly at low speeds. ELIKA in fact reduces noise emissions by as much as 15 dBA when compared to traditional external gear

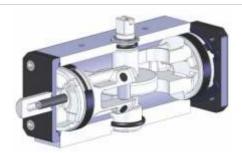
ELIKA series pumps with displacement from 7 to 198cc /rev





OMAL ACTUATORS

SCOTCH YOKE MECHANISM



Due to ovalatery cam design the torque produced by the actuator follows the curve path of valve torque

FEATURES AND BENEFITS

- Smaller volume/size than Rack & Pinion actuators (with the same torque) therefore less space required for installation.
- Less weight than the Back and Pinion (-30% kg / Nm), with consequent savings on the construction sizing of the plant/equip
- Lower air consumption compared to the Rack & Pinion actuators (-40% air cm3/Nm for double acting and -20% air cm3/Nm for spring return) therefore less load on the compressor or the possibility of using a smaller compressor's size.
- Greater Reliability Long working life more than one million







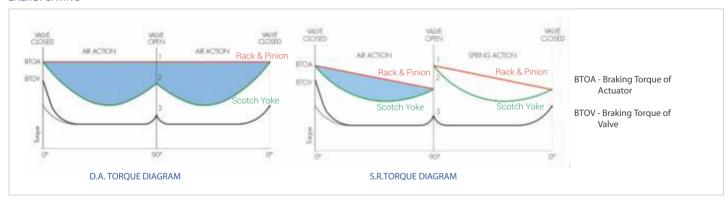
48 - 55 HRC)

Scotch Yoke Mechanism (Hardened Steel



Rack & Pinion Mechanism (Typical failure -Teeth damage)

ENERGY SAVING





SR Pneumatic Actua tor (Torque - 15Nm -4000Nm)



DA Pneumatic Actua tor (Torque - 8Nm - 8000Nm)



DA & SR Pneumatic Actuator with Hand Wheel (Torque - 60Nm -960Nm)



Two Stage Pneumatic Actuator (Torque - 30Nm -480Nm)



DA Pneumatic Actua tor with Precision **Casting Body** (Torque -15Nm - 480Nm)



SR Pneumatic Actua tor with Precision Casting Body 15Nm - 240Nm)



SR / DA Carbon Steel Solid Bar (Torque - 720Nm Actuator - 1920Nm)



SR / DA Rack & Pinion (Torque - 10Nm 474 Nm)



Heavy Duty Actuator (Torque - 2000Nm - 30000Nm) (Torque - 10Nm - 1960Nm)



Electrical Actuator

PNEUMATIC ACTUATOR ACCESSORIES

(Torque -



Namur Solenoid Valve



Namur Solenoid Valve with ATEX Coil



Micro Solenoid Valve



Proximity Limit Switch



Pneumatic Limit Switch



Electro mechanical Limit Switch



Limit Switch Box



Explosion Proof Limit Switch



Proximity Limit Switch with Switch Protection



Electro Pneumatic Positioner



Pneumatic Positioner



Aluminium Manual Hand Wheel Gear Box







ITALY

VIP /Coaxial Valve Inbuilt actuated valve Size Range: 3/8" -2" Pressure Range: PN10



Angle Seat Valve Material: Bronze & SS Size Range: 3/8"-2" Pressure Range: PN16/25



VIP EVO Inbuilt Actuated Valve Material: Aluminium Size Range: 3/8"-2" Pressure Range: PN40



2 & 3 Way PVC Ball Valve Size Range: 3/8"-4" Working Temp: 0°C to +60°C Pressure Range: PN10

MAGNUM SERIES WAFER BALL VALVE



Flat Body Valve with Hand Lever Material: Carbon steel Size Range:1/2"-4" Pressure Range: PN16-40 ANSI 150-300



Flat Body Valve with DA Actuator Material : Stainless Steel Size Range:1/2"-4" Pressure Range: PN16- 40 ANSI 150-300



Split Body Valve with Electrical Actuator Material : Carbon steel Size Range:1/2"-8" Pressure Range: PN16-40/63-100 ANSI 150-300/600



Split Body Valve with SR Actuator Material: Stainless Steel Size Range:1/2"-8" Pressure Range: PN16- 40/63-100 ANSI 150-300/600

THOR SPLIT BODY FLANGED BALL VALVE



Split Body Valve with DA Actuator Material: SS / Size Range:1/2"-8" Pressure Range: PN16-40/63-100 ANSI 150-300



Split Body Valve with SR Actuator Material: Carbon steel / Size Range:1/2"-8" /Pressure Range: PN16- 40 / ANSI 150-300



Split Body Valve with Electrical Actuator Material: SS / Size Range:1/2"-4" Pressure Range: PN63-100 ANSI 600/900- 1500



Split Body Valve with Lever Operated Material: Carbon steel / Size Range: 1/2"-4" / Pressure Range: PN63- 100 ANSI 600/900- 1500

SPECIAL EXECUTIONS ON REQUEST FOR MAGNUM & THOR



Lever and Limit Switch Box



Locking Device



Tank Execution



Manual Gear Box



Manual Gear Box with Limit Switch

BALL VALVE FOR CHEMICAL INDUSTRY



PROCHEMIE 60 SPLIT BODY with SR Actuator



PROCHEMIE 60 SPLIT BODY with Welded Steam Extension with Lever



PROCHEMIE 60 SPLIT BODY with Steam Extension for Actuators



Lever and Limit Switch Box



Manual Gear Box



Locking Device with Stem Extension

STARK & SPARTON

3 WAY BALL VALVE

Casted Ball Valve Manual Version Material: CS & SS Size Range:1/2"-4" Pressure Range: PN 16-40 / ANSI 150

SUPREME

ITALY



Trunnion Ball Valve Material: CS & SS Size Range:2"-24" Pressure Range :PN 20-420



3 WAY BALL VALVE

Magnum Split Wafer 3 Way Material :CS & SS Size Range: 1/2"-4" / Ports:'L' & 'T' ANSI 150-300 Pressure Range: PN16-40



Thor Split Body 3 Way Material :CS & SS / Size Range:1/2"-4" Ports:'L' & 'T' ANSI 150 - 300 Pressure Range: PN16 - 40



Ball Valve with DA Actuator Material: Brass Ports: 'L' & 'T' / Size Range: 3/8"-2" Pressure Range: PN 16



Ball Valve with SR Actuator Material :SS (Flanged Type) (Temp-20to160°c) Ports: 'L' / Size Range: 3/8"-4" Pressure Range: PN16,25,40



Ball Valve with Free Shafts Material :CS&SS (Temp 10 to 150°C) Ports:'L' Size Range: 1/2"-4" Pressure Range: PN16,40



Ball Valve Male Threaded End with DA Acuator Material :SS Ports:'L' & 'T' Size Range: 3/8"-4" (M&F) Pressure Range: PN16,25,40



Butterfly valve with Hand Lever Material: Brass Size Range: 3/8"-3" Pressure Range: PN16,25,40,50,64



Three Piece Ball Valve with SR Actuator Material :Stainless Steel Size Range: 1/4"-4" Pressure Range: PN63



Threaded End Ball Valve with DA Actuator Material: SS Size Range: 3/8"-4" (M&F) Pressure Range: PN25,40,63,100



Flat Body Flanged Ball Valve Material: Brass Size Range: 1/2"-2" Pressure Range: PN16



High Pressure Ball Valve with Hand Lever Material: CS & SS Size Range: 1/8"-2" Presuure Range: PN 500



Flanged Full Bore Ball Valve with SR Actuator Material: SS Size Range: 3/8"-4"



Butterfly Valve with Lever (Wafer type) Material :Cast Iron Size Range: 1-1/2" - 24" Pressure Range: PN10/16



Butterfly Valve with Gear Box (Lug Type) Material: Cast Iron Size Range:1-1/2" - 12" Pressure Range: PN10/16



Butterfly Valve with DA Actuator (Lug Type) Material: Cast Iron Size Range: 1-1/2" - 12" Presuure Range: PN10/16



Butterfly Valve - Metal (Wafer Type) with SR Actuator Size Range:1-1/2" - 8" Pressure Range:PN16



SS Butterfly Valve with Different End Connection Size Range: 1"- 4" Pressure Range:PN16



PVC Butterfly Valve with SR Actuator Temp: 0 to 60°C Size Range:1-1/2" - 12" Pressure Range:PN10/16



PUSH-IN FITTINGS



50000 Series with Red Collet Push-In Fittings

Temp.:-20°C to +80°C Press.: -0.99 bar to 20 bar Fluids: Compressed Air, Vacuum



55000 Series with black Collet Push-In Fittings

Temp.:-20°C to +80°C Press.: -0.99 bar to 20 bar Fluids: Compressed Air, Vacuum



55000 Series Techno Polymeric Push-In Fittings

Temp.: -20°C to +80°C Press.: -0.99 bar to 20 bar Fluids: Compressed air, Vacuum, Water



57000 Series Metallic Push-In Fittings

Press : -0.99 bar to 20 bar Temp.:-20°C to +80°C Fluids: Compressed air, Vacuum, Water, Steam (EPDM seal)



40000V Series Metallic Push-In Fittings with FKM Seal Specially for Steam Applications

Temp.:-15°C to +130°C Press.:-0.99 bar to 20 bar



Food & Drink Series Materials: CW510L Brass Body Temp.:-15°C to +190°C

Press.: -0.99 bar to 20 bar Specially For Drinking Water & Coffee Machines.



70000 Series Certified Food Grade Push-In **Fittings**

Materials: Nickel Plated Brass Temp.: -15°C to +200°C Press.: -0.99 bar to 20 bar



INOX 60000 Series Stainless Steel Push-In Fittings Specially for Food , Chemical Industry Materials : AISI 316L

Press.: -0.99 bar to 20 bar Temp.:-15°C to +200°C



89000 Series Inch Tube Push-In Fittings

Materials : Nickel Plated Brass Temp. : -15°C to +200°C Press.: -0.99 bar to 20 bar



58000 Series High Pressure Push In Fittings

Materials : Nickel Plated Brass Temp.:-30°C to +150°C Press.: 0 bar to 150 bar

BLOW GUNS

PUSH- ON FITTINGS



1000 SERIES Materials : Nickel Plated Brass Press.: -0.99 bar to 15 bar

INOX 61000 SERIES Materials: AISI 316L Grade

Temp. : NBR -20°C to +80°C/FKM -20°C to +200°C/EPDM -40°C to +160°C Fluids: COMPRESSED AIR, VACUUM, WATER, INK, LOW PRESS FLUIDS

FUNCTION SERIES



Materials: Nickel Plated Brass, Al Material: AISI 316L
Flow Control Valve | Flow Regulator | Quick Exhaust Valves | Slide Valves | Plastic Plastic

Temp.: NBR -20°C to +80°C | FKM - 20°C to +200°C EPDM - 40°C to +160°C





Temp.: -20°C to +80°C Press.: 10 bar Fluids: Compressed Air

ADAPTOR FITTINGS



Materials: Nickel Plated Brass Max Press.: 150 bar Max Temp.: +300°C Fluids: compressed air , water , oil Avail. Sizes : 1/8" to 1"



Materials: AISI 316L Max Temp.: -110°C to +300°C Fluids: compressed air, water, oil Max Press.: -0.99 to 140 bar Avail. Sizes: 1/8" to 1'



9000 Series (Compression Fittings) Materials: Nickel Plated Brass

Max. Press.: 128.6 bar Temp.:-60°C to +300°C



10000 Series (Universal Double Cone Fittings)

Materials: Nickel Plated Brass Max. Press.: 128.6 bar Temp.: -60°C to +300°C



13000 Series (Universal Fittings) Materials: Brass

Max. Press.: 148.4 bar Temp. : -60°C to +300°C Avail. Tube Size: 4 - 22 mm



AUTOMATIC QUICK COUPLINGS







MULTI SOCKET Profile UNI ISO 6150 B-12 5,5 mm

Serie 260 7,5 mm

UNI ISO 6150 B-12



Swedish Standard

MIGNON

Japanese Standard

Italian Standard

Quick Coupling for Mold Cooling

Inox (AISI 3161)

Multi Socket

European Standard

SAFETY QUICK COUPLINGS









Serie 250 5,5 mm

European Standard

Swedish Standard

UNI ISO 6150 B-12

Italian Standard











Press. Range: -0.99 bar to 20 bar Temp.: NBR -20°C to +80 °C FKM -20°C to +200 °C EPDM -40°C to +160 °C HNBR -40° to +80° C FLUIDS: Compressed Air, Water, Oil, Inert Gases

GHILUX SERIES BALL VALVES



Materials: Nickel Plated Brass





Materials : AISI 316L

Temp.: NBR -20°C to +80 °C FKM -20°C to +200 °C EPDM -40°C to +160 °C HNBR -40° to +80° C

Fluids: Compressed Air, Water, Oil, Inert Gases, Refrigerant Gases Connection Types: Threaded, Push-In, Compression & Bayonet



VALVES



Solenoid Valves with Namur Option Way: 3/2, 5/2, 5/3 Connection Thread: 1/8",1/4",1/2"



Solenoid Assisted Valves Way: 3/2, 5/2, 5/3 Connection Thread: 1/8",1/4"



Pneumatic Valves with Namur Option Way: 3/2, 5/2, 5/3. Connection Thread: 1/8",1/4",1/2"



Manual & Mechanical Valves Way: 3/2, 5/2, 5/3 Connection Thread: 1/8",1/4"



Micro Valves



Manifold with Valves



Pedal Valves, Panel Valves, Push Buttons & Selectors Rotary Hand Lever Valve



Modular Solenoid Valves

CYLINDERS (PNEUMATIC ACTUATORS)



Cartridge Cylinders Bore Size: 6 to 16 mm Stroke: 5 to 15 mm



Mini Cylinders Bore Size: 8 to 25 mm Stroke: 10 to 320 mm



Compact Cylinder Bore Size: 12 to 100mm Stroke: 5 to 200mm



Short Stroke Cylinder Bore Size: 12 to 100mm Stroke: 5 to 100 mm



ISO 15552 Cylinder Bore Size: 32 to 125mm Stroke: 5 to 100mm Demand Up to 2700mm



ISO 6431 Cylinder Bore Size: 32 to 320mm Stroke: 25 to 1000mm



Rotary Cylinders Bore Size: 32 to 100mm Angle of Rotation: 90,180,270 360 Deg



Rodless Cylinder with V Edge Slide System Bore Size: 25 to 50mm Stroke: 100 to 5700mm



Guide Units



Pneumatic Angular Gripper

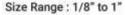


Wide Type Pneumatic Gripper



Pneumatic 3 Fingers Gripper







Mini Series



Standard Series





Compressed Air Piping

High Performance Aluminium Piping Systems

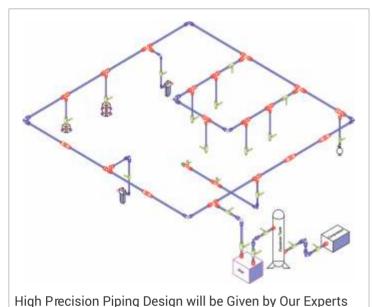








3D CAD Model



Products Highlights

Patented Technology



Eliminates the need for a conventional swan neck fitting



Block condensate from reaching equipment



One Touch Installation Leak Free

Multiple Output from

THE METAL FITTINGS

single input













Infinity Benefits

- No Need for Swan Necks
- Non Corrosive Extruded Aluminium T6 Grade
- ▶ Total Metal System
- ▶ Simple Push In type Fittings
- Consistent air quality to every outlet
- ▶ Complies with Australian and European safety standards
- ▶ Fully adjustable and ideal for future expansion
- Adapts to all existing pipe systems

AVAILABLE DIAMETERS: 20,25,32,40,50,63,80,110,168mm

Pipe Internal Coating: Fluorine - Zirconium Pipe External Coating: Epoxy polyester Powder Compatible Fluids: Compressed Air, Vacuum, Nitrogen, Argon, Azoto, Industrial Oxygen Pressure: -0.99 to 16 bar TEMP: -20° C to $+80^{\circ}$ C



VALVES, FILTERING ELEMENTS & ACCESSORIES

www.mixsrl.it



Butterfly valve



Butterfly valve with Actuator & Solenoid Valve



Butterfly Valve with lever



Pulse Jet cleaning cartridge



Fan assisted discharge cartridge filter



Level indicator



Pressure relief valve



Aeration Pad / Aeration Nozzle







www.mebraplastik.com







Material: Polyamide, Polyurethane, Multi layer, Fluoropolymer, Polyethylene.

Type: Linear Flexible, Rigid Hose, Spiral Hose(Straight end hose, with terminals), Thermowelded Polytube, Hose with Textile reinforcement & self lubricated, Fireproof, UV Resistant, Special items etc.



SUCTION CUPS

VACUUM AUTOMATION



Value Line Cups

Good perfromace at value price

Available size: 20-75mm Application: Carton and cardboard erection, metal /wood sheet loading and unloading, parts removal from injection molding machine.



piGRIP

The piGRIP is a modular suction cup that allows to choose the ideal combination of lip, bellow & fittings. Available Size: 15 - 150mm Application: Cardboard, sheet metal, glass and porous materials DURAFLEX-High friction suction cup FDA - Food grade silicon material Mark Free - TPU material



Flat Family (F)

Available Size: 15-150mm Application: Cardboard, sheet metal, glass and porous materials



Bellows Family (B)

Available Size: 5-150mm Application: Bellows cups in one lifting device can handle objects with different heights and varying shapes.

VACUUM PUMPS



COAX®Technology Multi Stage Ejectors upto Three Stages



pilNLINE Family

Features

Low weight inline design with push-in fittings. Quick and easy installation directly on the hose.

Application

Injection molding automation equipments sheet metal handling such as laser cutting, bending and punching machines pick and place such as labelling machines.



Value Line Ejectors

Features

Value line is Piab's line of cost - effective automation components offers good performance at cost effective pricing. Inline design and T-design with push-in fittings

Application

Sheet metal loading and unloading, case and carton erecting, parts and removalinjection molding automation



VGS Family

Features

It makes installation of a vacuum system easier and it can assemble with different suction cups.

Application

Sheet metal handling such as laser cutting, bending and punching machines.



Compact / Stackable

Features

Slim, compact, configurable and modular design

Application

Mainly for automated vacuum handling applications with robot or dedicated machines.



Standard

Features

It provides powerful, whisper- quiet and non-heat generating suction at extremely low feed pressures and modular design makes easy cleaning of ejectors.

Application

Robot handling equipment in plastic, consumer, furniture and automative industries & packaging machines.



EXTRA SAFETY piSECURE

Features

It combines high security and the most energy-efficient. It suitable to use as decentralized for maximum safety feed pressures modular design makes for easy cleaning of ejector cartridges and gives opportunity to upgrade the performance design.

Application

Fragile material handling such as glass and heavy weight sheet metals.



Round Pump

Features

It is designed for high vacuum flow with 6x COAX Si MIDI cartridge. Still it is small, compact and light weight(1.6kg)

Application

Used to transfer waste fluids in vacuum toilets.



VACUUM LIFTER

Vacuum Lifter Benefits

- ▶ Reduce load on the body upto 80%
- ▶ Increase Productivity
- ► Faster and Safer loading/unloading
- ▶ Lifts objects in all Sizes and Shapes
- ▶ Reduce injuries
- ▶ User-friendly grip and lift in one move
- ▶ Able to handle upto 270kg
- ► Application specific solutions
- ▶ Available in several ATEX certified versions







Application Images







Sack Bag Lift



Drum Lift/Tilt/Rotate



Rubber bale Lift



Tray Lift



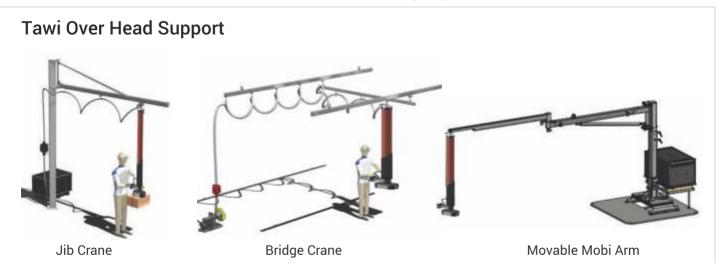
Fabric Roll Lift



Sheet Metal & Glass Sheets Lift / Tilt / Rotate



Plywood Lift/Tilt/Rotate





ENERGY AND COMPRESSED AIR SAVING BLOW OFF PRODUCTS



Blow Gun with High Thrust Nozzle

||Air amplification upto 3 times

Lower noise level

|| Rugged stainless steel construction ||Thrust: 1500gms

Thrust: 340 gms @300mm, 99db



Blow Gun with Silent Nozzle

||Significant reduction in noise levels without sacrificing thrust

Improves operator comfort and reduces

fatigue || Air consumption 12SCFM - Thrust: 340gms @300mm, 84db



Blow Gun with Die Cleaning Nozzle

||Developed for cleaning of investment casting dies

|| Air consumption 16 CFM

|| Thrust 455gms @300mm db86



Coolant Gun

||High flow design

Independent control of flow rate

Adjustable flow pattern

I Inlet coupler available as optional



Vac Blow Gun

||Unique deep hole cleaning system || Capable to clean blind holes from Ø6mm to Ø30mm & up to 300mm depth || Washable dust / chip collection bag

|| Light weight || Air consumption 20SCFM



Vac in Line

| High volume air blow, low noise || Can be used for conveying plastics pallets, small parts, food grain, husk, sugar, etc. || Available in aluminum and stainless steel construction



Moisture Seperator With Prefilter

||Point of use water and mist seperator with 1 micron prefilet with 80% efficiency

|| Provides excellent quality clean air to devices

|| It does not reduce dew point temperature || Very low maintenance, long filter element



Barrel Emptying System

||Compressed air operated barrel emptying system

Suitable for plastic barrel and steel barrel

Very low compressed air consumption
Built in safety valve for over pressure protection

No motor, no spark or motor burn out



Coolant Spray Nozzle

||Low air consumption || Coolant mist for effective cooling and reduced coolant consumption
|| Adjustable air to coolant ration



Suction Unit

||Compressed air operated, built in spill prevention || Fits on 280mm diameter standard drum/pail

|| Supplied with steel pail of 20 litres



Barrel Filling & Emptying System

||Compressed air operated, fast, efficient, maintenance free

Compatible with standard 200 litre metal barrel

No motor, sparks or motor burn out
Auto over fill prevention



Lift-O-Mat Gas Spring



Inoxline Gas Spring



Stab-O-Shoc Gas Spring



Gas spring assembly programme



GROUP COMPANIES

Lift-O -Mat PTL Gas Spring



Bloc-O-Lift Gas Spring



Stab-O-Mat Gas Spring



Stabilus Gas Springs, Gas Struts & Dampers



Bloc-O-Lift Gas Spring with Soft Touch Button



Lift-O-Mat Gas Spring with Locking Tube









Electric linear actuator solutions

Electric linear actuators are the perfect solution when you need simple, safe and clean movement with accurate and smooth motion control. You may choose actuator systems for adjustments, tilting, pushing, pulling and lifting with thrusts up to 15,000 N.



LA12

- Compact design
- Robust
- Thrust : 750N
- Speed : 5-40 mm/s
- Stroke: 90 130 mm



- Heavy-duty aluminium housingThrust: Max, 750N
- · Speed: Max. 8-45mm/s • Stroke: 90 - 130 mm



LA20

- Compact and slim
 Thrust: Max. 2500N
- · Speed: 8.9mm/s
- Stroke : 20 300mm



LA23

- Compact designStrongThrust: Max.2,500N
- Speed:3-12 mm/s
- Stroke: 20 300 mm



LA25

- Compact design Strong
- Thrust: Max.2500N In push & Pull
- Speed: Max. 2.5-25mm/s
- Stroke : 20 300 mm



LA33

- · Comapct design high power
- Thrust: 5000N
- · Speed: 35mm/s
- · Stroke 100 to 600mm



I A34

- Compact design Thrust: Max. 10,000N in push and 6,000 N in pull
- Speed: 5-18 mm/s
- Stroke: 100 600 mm



I A35

- · Powerful and low noise
- Thrust: Max.6000N
- · Speed 16mm/sec





LA36

Powerful

Electric actuator system

: Integrated positioning : Maintenance-free : Low energy consumption

- · Outstanding performance
- Thrust : 6,800N
- · Speed: up to 7-160 mm/s
- Stroke: 100-1200 mm

: Easy installation due to few components

: Simple system of actuator, control and power connection



LA37

- Powerful
- · Heavy Duty
- Thrust: 10,000N 15,000 N
- Speed: 3 10 mm/s
- Stroke : 100 1000 mm



Columns

LC1

- Max thrust-4000N
- Max speed 30 mm/sStroke 650 mm.

Advantages

Long life time

Quiet & Clean

No maintenance

Very low operating cost

Non-toxic & energy efficient





Columns

BL1

- Max. Thrust: 2,000 NMax.Speed: 12-46 mm/sStroke: 248 400 mm



Columns

LC3

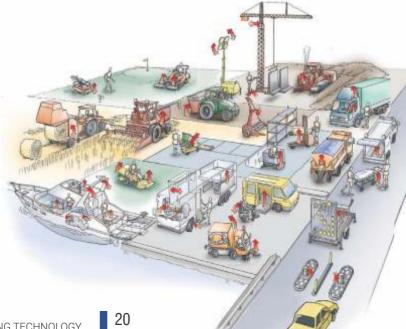
- Max thrust
- 2 stage- 6000N 3 stage- 6000N
- Stroke

2 stage- 200 to 700 mm 3 stage- 400 to 700 mm

Testing:

Climatic test Weather Protection Salt Spray test Chemical test Electrical tests Mechanical tests (Vibration, Shock, Bump)







Textile Industry

Vacuum Dust Collector System

- Recovery of Cotton fluff and lint in textile production area
- Avoid dusty environments and optimize waste disposal
- Continuous recovery of textile trims from the production/cutting line
- Three phase blower allows vacuum to run virtually Maintenance Free for (24 x 7)





Machine Tools, Cleaning and Maintenance

- The solid and liquid components are separated via "macro-filtration", allowing the emulsion to be reused.
- Nilfisk industrial vacuum cleaner is the most appropriate tool for removing metal shavings from machine tools after each work cycle.





Glass Industry & Foundries

- In Glass production and foundries a silica-based raw material are used
- This is a very dusty material, and its preparation and use in manufacturing produces a large quantity of waste sand
- This waste material can be recovered and recycled into the production process using Nilfisk high-power vacuums.





Food Industry

- Nilfisk solutions are used in food companies to improve production efficiency, increase safety and maintain high level of hygiene.
- All of our solutions are ATEX certified and in complaince with GMP Standards.





Centralized Vacuum Systems

OCVS- The centralized Vacuum System allows to collect materials from many inlets simultaneously. Therefore, wide areas can be efficiently cleaned. Vacuumed materials are collected in one single container, placed either inside or outside the factory, making it easier for the operators to provide for their disposal or recycling.





AIR CONDITIONING VALVES **PRODUCT RANGE**









SOLENOID VALVES

Solenoid valve 30000 series are designed for installation on commercial refrigeration system on civil and industrial air conditioning plants



Solenoid Valve - Brazing Type

Sizes = 1/4, 3/8, 1/2, 5/8, 7/8, 3/4, 1 1/8, 1 3/8". Max Pressure = 52 bar

Type= NC/NO Power = 12/24/210/220/230Vac

O-ring = HNBR OPD = 0 - 21 bar



Solenoid Valve - Flare Type

Sizes = 1/4, 3/8, 1/2, 5/8, 3/4" Max Pressure = 52 bar Type= NC/NO

Power = 12/24/210/220/230Vac

O-ring = HNBR OPD = 0 - 21 bar Solenoid Valve - Fast Lock Type

Sizes = 1/4, 3/8, 1/2" Max Pressure = 52 bar Type= NC/NO Power = 12/24/210/220/230Vac

O-ring = HNBR OPD = 0 - 21bar



Electrical Expansion Valve Brazing Type

Sizes = 3/8, 1/2, 5/8". Max Pressure = 52 bar Power = 12/24/210/220/230Vac

O-ring = HNBR OPD = 0 - 21 bar

Refrigerant Fluids - Compatiblity: R404A, R407C, R410A, R507, R32, R134A, R1234ze, R448A, R449A, R450A, R1234yf, R1233zd

CHECK VALVES



Check Valve - Brazing Type

Sizes = 1/4, 3/8, 1/2, 5/8, 3/4, 7/8"

Max Pressure = 52 bar

O-ring = HNBR



Check Valve - Flare Type

Sizes = 1/4, 3/8, 1/2, 5/8, 3/4"

Max Pressure = 52 bar

O-ring = HNBR



Check Valve - Brazing Type

Sizes = 7/8",11/8,13/8,15/8,21/8"

Max Pressure = 52 bar

O-ring = HNBR



Check Valve - w/o Pipe

Sizes = 7/8",1 1/8,1 3/8,1 5/8,2 1/8"

Max Pressure = 52 bar

O-ring = HNBR

LIQUID & MOISTURE INDICATORS



Liquid & Moisture Brazing Type

Sizes = 1/4, 3/8, 1/2, 5/8, 3/4, 7/8 ,1 1/8" Max Pressure = 52 bar



Liquid & Moisture Flare Type Sizes = 1/4, 3/8, 1/2"

Max Pressure = 52 bar

Liquid & Moisture Removable Type Sizes = 1/4", 3/8, 1/2" Max Pressure = 52 bar



Liquid & Moisture - M/F Connections Sizes = 1/4, 3/8, 1/2" Max Pressure = 52 bar



Type Sizes = 7/8.1 1/8.1 3/8. 1 5/8. 2 1/8' Max Pressure = 52 bar

BALL VALVES



Ball Valve - Brazing Type

Sizes = 1/4, 3/8, 1/2, 5/8, 7/8, 3/4, 1_{1/8}, 1_{3/8}, 1_{5/8}, 2_{5/8}"

Max Pressure = 52 bar





NO BRAZING REFRIGERATION COMPONENTS





EASY TO USE

Components can easily assembled and disassembled



SAFE

No more tedious welding. The tube is inserted directly in the OLAB FAST LOCK connection



FULL SEALING CAPACITY

Which is ensured by a special gasket made of a compound expressly developed for these system.



RELIABLE

The ogives deformation with the AST patent on the reinforcement bush, allow the safe retention of the tube in the fitting's body





Coffee Machines



Liquid Measurement



Machines for Foodstuff



Vending Distribution

APPLICATIONS

Food and beverages, steam irons, carpet washers, medical and dental application, drink dispensers, water gasifiers, smoke machines & air conditioners.

DIAPHRAGM & DIRECT ACTING SOLENOID VALVES





3/2 Solenoid Valve Available with TM1 & TM4 Surface Treatments for Food Contact - NSF approved

3/2 Flanged Solenoid Valve with TM1 & TM4 Surface Treatments for Food Contact - NSF Approved

2/2 Solenoid Valve Available with TM1 & TM4 Surface Treatments for Food Contact - NSF approved



Electrical Section





We undertake design ,manufacture & installation of Electrical, Pneumatic, Electro pneumatic control systems for industrial automation. Trouble-shooting , Programming, commissioning of PLC will be done according to the customer requirements

Service Section





We undertake servicing of hydraulic and pneumatic equipments (Hydraulic Power pack, Proportional valve testings , Pneumatic actuators, Process valves etc.,)

Project Section







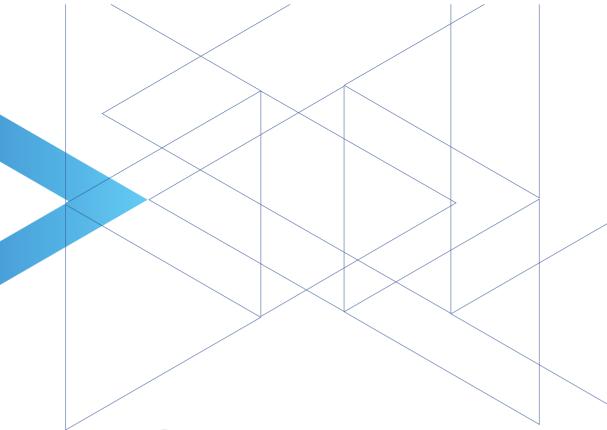
Process Automation in Food, Pharmaceutical, Petrochemical, Steel, Water treatment, Automotive, Power Generation, Oil& Gas, Textile Industries





Customized Electric Scissor lift

Customized Electric Automated Furniture





Registered & Corporate Office

No.1, Gulam Murthaza Street Wallajah Road, Chennai - 600 002 INDIA

VP@mechatronicscontrol.com gmsales@mechatronicscontrol.com salesmanager@mechatronicscontrol.com sales1@mechatronicscontrol.com

Factory

No.S14, SIPCOT Industrial Park Pillaipakkam, Kancheepuram District Sriperumpudur - 602 602 Tamil Nadu INDIA

Tel: 91-44-2855 8484|2855 8485|95660 06666|90428 91354 | 80569 94111|98409 96592|87544 06730

Branches: Delhi | Ahmedabad | Mumbai | Pune | Kolkata | Jamshedpur | Bangalore | Hyderabad | Coimbatore | Pondicherry

Our Group Companies



Mechatronics Industrial Equipment FZ LLC

Plot # 6855715 Dubai Production City,

Dubai, U.A.E. PO Box 19104 Tel No.: +971 4 267 4311

Email: mechtron@mechatronics.ae Website: www.mechatronics.ae



Danika Automation Technology LLC

Abu Dhabi, U.A.E. P.O. Box: 91183

Tel No.: +971 2 555 1255 Email : danika@mechatronics.ae Website : www.mechatronics.ae



Mechatronics Industrial Equipment LLC (RAK) Branch

Shop #2, Al Rifah North Ras Al Khaimah, U.A.E.

P.O. Box: 19104

Tel No.: +971 7 2280 717 Email: mechrak@mechatronics.ae Website: www.mechatronics.ae



Flowlines Technology LLC

Plot # 6855715 Dubai Production City, Dubai, U.A.E. PO Box 19104

Tel No.: +971 4 2676 286

Email: info@flowlinestechnology.com Website: www.flowlinestechnology.com





Mechatronics Industrial Equipment LLC

Logistics Park GWC Al Wukair, Doha, Qatar

P.O. Box: 39233

Tel No.: +974 4458 1155

Email: contact@mechatronicsqatar.com Website: www.mechatronicsqatar.com



Mechatronics Industrial Equipment

Sitra, Kingdom of Bahrain P.O. Box: 70454

Tel No.: +973 1728 0059

Email: contact@mechatronicsbh.com Website: www.mechatronicsbh.com



Awtad Equipment Company

P.O Box: 4485, Abdulatif Almulla, Al NahdhahBlock 17, Factory -5 Dammam 32234 - 6563 Saudi Arabia Tel No.: +966 53 592 8341

Email: info@awtadautomation.com Website: www.awtadautomation.com