

ASCO
NUMATICS

Leadership
through
Innovation
and **Excellence**



Solid in Solenoids

Contents

Introduction	1
Manufacturing Capabilities	2
ASCO Solenoid Valves	3
Fluid Power Product Range	4
Combustion Products (GENCON)	5
ASCO Scientific	5
Process Automation	6
SIRAI Valves	8
Selection & Specification Sheet	9



ASCO (INDIA) LTD, 57, Kundrathur Main Road, Gerugambakkam, CHENNAI - 602 101

Tel : 044 23821552 / 39197300 Fax : 044 23821553 Web : www.ascovalve.com

Email : ascosales.india@emerson.com

CHENNAI | MUMBAI | DELHI | KOLKATA | PUNE | BARODA

Introduction



ASCO (INDIA) LIMITED is a part of the Industrial Automation Division of Emerson Electric Co (A Fortune 500 Company). Asco is a market leader in the field of Fluid Control Solutions having it's world class manufacturing facility in Chennai. ASCO NUMATICS Product Range covers the following :-

- ASCO Solenoid Valves
- Numatics / Joucomatic Range of Fluid Power Products
- General Control Combustion Range of Products.
- SIRAI/ ASCO Scientific range of products for Medical and General purpose applications.

ASCO NUMATICS products from Indian facility are identical to the ones manufactured at ASCO International facilities located worldwide in terms of Design, Engineering, Manufacturing, Quality Assurance, Performance and absolute Reliability.

ASCO NUMATICS products cater essentially to critical applications in the Power, Process Controls, Hydrocarbon Distribution, Pollution Control Segments and Pneumatics for low cost automation, meeting the stringent quality standards established by ASCO Worldwide.

We are an ISO 9001 (2000) certified unit with all special explosion proof products complying with ATEX certification and CE marking. ASCO (India) Ltd. has been certified by TUV for manufacturing SIL-4 Valves.

Manufacturing Capabilities



- General purpose machine shop with CNC Turning centre
- Automated Assembly shop
- Automated Assembly and Testing cell for Dust collector and Fuel dispensing valves
- Computerised Valve Test Rigs
- Standards and Gauge Room
- Coil manufacturing line with “Lauffer” Transfer Moulding Machine

- Computerised Nameplate Engraving Machine
- Computerised Inkjet Name plate Printing Machine
- Horizontal Machining Centre
- Seperate Assembly Cells for 327 and 551 Valves Series.



ATEX CERTIFIED

SIL CERTIFIED



ASCO Solenoid Valves

Name any Flow Control Industrial Application and ASCO NUMATICS has the “Solution”. These state-of-the-art valves are available in 4 major types - 2 way, 3 way, 4 way & 5 way - in an extensive range from midget size valves to high - pressure valves. International standards are strictly adhered to in the Production, Quality Assurance and Total Quality Management.

Product Range

- 2/3/4/5 way General purpose valves
- Valves for Hot water and Steam applications
- Low pressure service
- Flame proof and Explosion proof solenoid valves
- Low power/ Intrinsically safe solenoid valves
- Valve complying with ATEX (CE marking) and SIL-4 certification
- Dust Collector Valves
- Fuel Dispensing Valves
- Timer drain valve for utility applications
- Pilot valves for process industries
- Direct acting valves (Namur and Non Namur) for Spring return/ Double acting actuators
- Size: 1/8”-4” (NPT or BSP)
- Pressure Range: Vacuum to 100 Bar
- Material of Construction: Brass, Aluminium and Stainless Steel



344 series



551 series



327 series

Fluid Power Product Range

ASCO NUMATICS / JOUCOMATIC manufacture a complete range of standard and special pneumatic components with products to suit all fluid power applications.

Product Range

- Lapped-Spool and Sleeve Valves - High Frequency Application
- 3/2, 5/2,5/3 way Solenoid Air operated Spool Valves
- Piston actuated/Air operated Valves
- Air Preparation Unit (Filter Regulator and Lubricator)
- Pneumatic Cylinders
- Proportional Solenoid Valves for pressure and flow control application
- Mega Valve Islands and Valve manifolds with Field Bus Interface like Actuator Sensor Interface (ASI) and Profibus DP
- Coaxial valves for high pressure/ aggressive environments
- Two way online actuated valves for heavy duty applications with compact positioner
- Electropneumatic panels
- Pneumatic accessories including non return valve, shuttle valve and quick exhaust valve
- Directional Control Valves
- Line Mounted Valves



LAPPED SPOOL AND SLEEVE VALVES



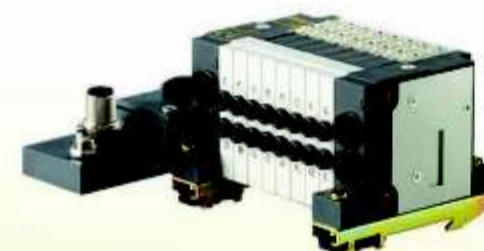
VALVE ISLANDS



PNEUMATIC COMPONENTS



CYLINDERS



Combustion Products

(GENCON)

The General Controls product spectrum comprises components for gas and oil fired systems.

Product Range

- Hydramotor gas shut off valves for fuel gas lines and control for boilers, furnaces and oven
- Solenoid oil shut off valves for controlling fuel oil to domestic high pressure atomising oil burners
- Gas vent valves
- Fail-safe electro hydraulic linear actuators



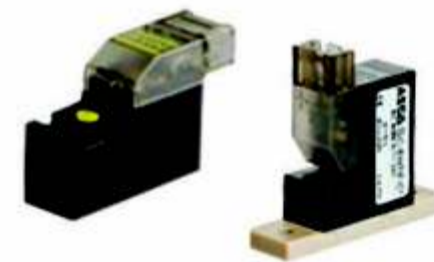
ASCO Scientific

ASCO Scientific, formally known as ANGAR Scientific, is a division of ASCO having over 4 decades of experience in the design and manufacture of high quality micro miniature solenoid valves for the control of fluids in medical and analytical instrumentation as well as many other applications.

ASCO Scientific product spectrum ranges from Gas Chromatograph to Haematology analysers to Oxygen concentrators. In addition to our comprehensive standard product offering, we have the ability to create Customised Products that provide the precise solution to meet your fluid control needs.

ASCO Scientific Product Range

- 2 way and 3 way miniature General Service Solenoid Valves having long life, small size and low power, ideal for control of non corrosive liquids and gases in medical, analytical and portable instruments
- Inert Isolation Valves (shielded core valves) for applications involving corrosive / high purity fluids
- Pinch valves for Medical Industry
- Corrosion resistant manifolds
- Size: 1/8"-2" (BSP)
- Pressure Range: 0-30 Bar
- Material of Construction: Brass and Thermoplastic



VAVES FOR MEDICAL EQUIPMENTS

Process Automation

Products to Offer :

- Pilot Valves for Pneumatic Actuators
- Redundant Control System
- Actuator Control System
- Air Filter Regulators



Pilot Solenoid Valves

Pilot Valves: To give the best solution for your pneumatic actuators, ASCO provides unique pilot valves solutions including:

- Explosion Proof and Intrinsic Safety
- Redundant Type
- Low Power
- Direct Namur Mounted
- Functional Safety-SIL



Redundant Control System (RCS)

ASCO Redundant Control Systems offers complete functional safety with enhanced reliability for Emergency Shut Down Process Valves. Options include :-

- 1001 or 2002 method
- Explosion Proof and Intrinsic safety version
- Inbuilt onboard diagnostic Module
- On line testing of SOV
- Partial Stroke Testing of Actuators
- Lapped Spool and Sleeve Valves
- SIL - 3 Certified



Actuator Control System (ACS)

ASCO Actuator Control Systems offers a reliable pneumatic actuator system in full 316L stainless steel lighter, stronger and more compact than conventional panel mounting units.

- Modular Systems
- Valves and filter/regulators are mounted on a vibration resistant stainless steel base plate
- NACE Compliance



SIRAI Solenoid Valves

SIRAI, Italy, is a division of ASCO worldwide. Their products have been employed in a variety of hi-tech industrial sectors since 1946. SIRAI offers valves for both General and Special purpose applications. Some of the Industrial applications include Blood Analyzers / Water Analyzers / Food stuff Analysers, Dairy Units, Medical Laboratories, Washing machines, Faucet applications, Espresso coffee machines, Steam cookers/boilers, Textile industries, Injection moulding machines, Dental Chairs etc.

Product Range

- Solenoid valves for neutral liquid and gaseous medium
- Solenoid valves for steam and hot water service
- Gang mounted valves
- Micro solenoid valves and solenoid valves with latching coils
- Special valves for refrigeration service
- Pinch solenoid valves for medical industry
- Total separation solenoid valves (DRY)
- Size: 1/8"-2" (BSP)
- Pressure Range: 0-30 Bar
- Material of Construction: Brass and Thermoplastic



GENERAL PURPOSE VAVES



DRY SOLENOID VAVES

Selection and Specification Sheets

Help us do the right selection for your service application by providing the following :-

- Do you have an ASCO product already in place? Do you require spare kits / spare coils for existing ASCO valves? If so, please inform the complete catalogue number as mentioned in the nameplate.

- In case you want to convert the existing make to ASCO, please inform the existing valve catalogue/ model number.

- In the absence of any valve model number, we request you to provide ASCO's TOMSPAIVE details (as indicated below) : -
TOMSPAIVE

T - Type (2/2 or 3/2 or 4/2 or 5/2 or 5/3)

O - Operation (Normally Open (NO) or Normally Close (NC) or Universal (U), further, whether Single Coil or Dual Coil)

M - Medium (Air, Water, Steam, Oil and Gas with composition details)

S - Size (Pipe size) – NPT or BSP etc

P - Pressure (max. working pressure) – in Kg/cm²

A - Ambient Temperature in degree C

V - Voltage (AC or DC with rating)

E - Enclosure options available with Weather proof, Flame / Explosion proof to Gas Group IIA/IIB or IIC, ATEX and SIL certified

- For sizing Cylinders, we request you to provide us information on the following parameters :- Bore size, MOC, Stroke length, Suitability for mounting reed switch, Mounting arrangements, if any.

- For selection of FRL (Filter/ Regulator/ Lubricator), please provide us the following information Process connection/ Thread form, Filtration range (in Microns), Flow rate (if available)



Regional Network

BARODA

16/A, Dutt Vihar Society, 2nd Floor
B/h Giriraj Apt., Race Course Circle,
Vadodara – 390 007, India GUJARAT
Tel : 0265 - 2359740
Fax : 0265 - 2338044

CHENNAI

57, Kundrathur Main Road,
Gerugambakkam, CHENNAI - 602 101
Tel : 044 23821552 / 39197381
Fax : 044 23821553

KOLKATA

Room No 3B,
3rd Floor, Landmark Building,
228 AJC Bose Road, KOLKATA - 700 020
Tel : 033 - 40036627
Fax : 033 - 40036629

MUMBAI

Office No. 404
4th Floor, Coral Classic, Road No. 20
CHEMBUR, MUMBAI - 400 071
Tel : 022 - 67419073
Fax : 022 - 67419076

DELHI

617-618, 6th floor,
Krishna Apra Business Square,
Netaji Subhash Place, Pitampura
New Delhi-110 034
Tel : 011 - 4706 5959
Fax : 011 - 47065958

PUNE

105, 1st Floor, Sohrab Hall,
21, Sasoon Road, Opp. Jehangir Hospital
PUNE - 411 001
Tel : 020 - 66213216/17
Fax : 020 - 66213218

Contact Us

ASCO (INDIA) LIMITED

Factory & Head Office
57, Kundrathur Main Road,
Gerugambakkam, Porur, Chennai - 602 101
Tel : 044 23821552 / 39197300
Fax : 044 23821553
Web : www.ascovalve.com
Email: ascosales.india@emerson.com



EMERSONTM
Industrial Automation