OZ pneumatica

MADE IN ITALY

Pneumatic Equipment

ModernGulfco.com

MODERN GULF SERVICES

The Story of MGS

Our engineering team began its activities in 2011, backed by technical knowledge and an unparalleled passion for industry and innovation.
With our expertise in hydraulic and pneumatic systems as well as electricity, we started our first activity by setting up a custom hydraulic and pneumatic systems design unit for customers, most of whom were manufacturing and industrial units in the Middle East such as Iran and Iraq, as well as China. The entire goal of the group was to provide constructive advice in accordance with the real needs of customers, develop their business, maintain safety and protect their capital.
Based on the credibility and satisfaction we had gained from these customers, after four years, with the help of our experienced team and up-to-date technology, we decided to set up a manufacturing unit to manufacture custom machinery, equipment, and hydraulic-pneumatic systems.
And this process of progress and development continued, until finally, in 2025, relying on more than 14 years of experience and with the aim of providing services directly in the GCC market, we registered Modern Golf Services (MGS) Company in Oman to expand our circle of real capital, which are our valuable customers.

Why MGS

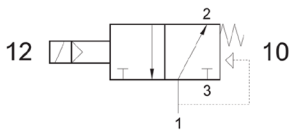
Our sense of responsibility to our customers over the years, and as a result, recognizing their real needs and providing them with the best advice and services in the shortest possible time, has led customers to consider us a part of their collection and to cooperate with us without any concerns about the capital, time, or safety of their collections. We are proud and happy to be with you in the safest and fastest way possible to develop your business, improve the efficiency of your industrial unit and machinery, and reduce your costs.

Quality and safety, along with understanding the importance of time, will be our distinguishing feature for you

Single and Double Solenoid Spool Valves

Solenoid-operated spool valves (commonly known as "book-type" solenoid valves) are among the most widely used directional control valves in pneumatic systems.
They are available in two models: single-solenoid and double-solenoid.

The operating mechanism of these valves works as follows:
When the solenoid is energized (by applying an electric current), the valve's spool shifts forward. This movement opens the path for compressed air to flow toward one of the ports connected to an actuator, such as a pneumatic cylinder or motor, causing it to move.



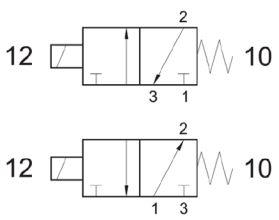
321 ME – 322 ME – 521 ME – 522 ME – 524 ME – 5213C EE – 5223C EE

	1/8"	1/4"	1/4" 1/8"
mono-stable	**TRA(14): 15 ms** **TRA(12): 35 ms**	**TRA(14): 19 ms** **TRA(12): 45 ms**	**2.5 ... 10 bar** **0.25 ... 1 MPa**
bi-stable	**TRA(14): 20 ms** **TRA(12): 20 ms**	**TRA(14): 22 ms** **TRA(12): 22 ms**	**1 ... 10 bar** **0.1 ... 1 MPa**

Matchbox–Type Valve (Mini Valve)

Matchbox-type solenoid valves (Mini valves) are another type of pneumatic valve, designed to be more compact in size compared to spool (book-type) valves.
These valves feature two air inlets and one outlet, and are symbolized as 3/2 in pneumatic diagrams.
They are available in two configurations: normally open and normally closed.

When the solenoid is energized, compressed air is directed to the pressure port of a single-acting cylinder, causing it to move.



00.088.3 – 00.071.3 – 01.066.3 – 01.068.3

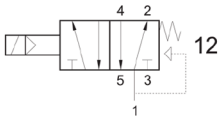
Temperature range	**max + 60 °C**
Working pressure	**-0.7 ... 10 bar** **-0.07 ... 1 MPa**
Nominal orifice 1-2	**1.1 mm**
Nominal flow rate 1-2	**30 Nl/min**
Fluid	**50µ filtered , lubricated or non lubricated air**

NAMUR Valves

NAMUR valves are directional control valves designed specifically for actuators. These valves feature two ports located on the flat side of the valve body.

Unlike spool and mini (matchbox-type) valves, which use threaded ports, NAMUR valves are sealed using O-rings positioned around ports A and B.

These valves are mounted directly onto actuators using bolts inserted through pre-drilled holes in the valve body.



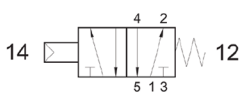
522 MC – 322 MC – 5223 MC – 524 MC – 324 MC – 5243 MC

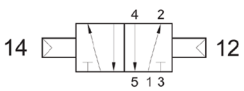
Nominal orifice	**7.5 mm**			
Ports	**G1/4”**			
Temperature range	**max + 60 ˚C**			
Working pressure	electr . monost	electr . bi-stable	pneum . monost	pneum . bist
	2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa	0 ... 10 bar 0 ... 1 MPa	0 ... 10 bar 0 ... 1 MPa
Actuating pressure			pneum . monost	pneum . bist
			2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa
Fluid	**50µ filtered , lubricated or non lubricated air**			

Signal Valve

Pneumatic signal valves are used in various industries to control the flow of air or other gases.
Since these valves do not rely on electrical solenoids, they are ideal for use in high-risk environments where flammable or explosive conditions may be present.

Signal valves operate by receiving pneumatic signals, which trigger the redirection of air or gas to different parts of the system.



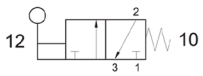


582 ME

Nominal orifice	**13 mm**	
Nominal flow rate at 6 bar , Δp 1 bar	**4600 Nl/min**	
Temperature range	**max + 60 ˚C**	
working pressure	mono - stable	bi-stable
	2.5 ... 10 bar 0.25 ... 1 MPa	-0.9 ... 10 bar -0.09 ... 1 MPa
Actuating Pressure	mono - stable	bi-stable
	2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa
Fluid	**50µ filtered , lubricated or non lubricated air**	

Manual Lever Valve

Manual pneumatic valves, like solenoid valves, come in a variety of types and configurations.
In these valves, instead of an electrical solenoid, a lever is used to manually actuate the valve.

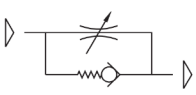


321ML90 – 322ML90 –324ML90 –522LL90 –524LL90 – 521ML90–5213C ML90 – 52MC ML90 – 5243C ML90

Nominal orifice	**1/8" : 5mm 1/4" : 7.5 mm**			
Temperature range	**max + 60 ˚C**			
Working pressure	direct actuation -0.09 ... 1 MPa	servo-piloted actuation 0.25 ... 1 MPa		
Actuating force	1/8" monost .	1/4" monost .	1/8" bi-stable	1/4" bi-stable
	15 N	20 N	10 N	15 N
Fluid	**50μ filtered , lubricated or non lubricated**			

Flow Control Valve

Flow control valves regulate the flow rate of air in pneumatic systems, allowing for precise control of the speed of cylinders or air motors.



RFU 1/8.2 – RFU 1/4 – RFU 1/2

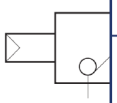
Model		RFU M5	RFU 1/8.1	RFM 1/8	RFU 1/8.2 RFU 1/8.3	RFUM 1/4	RFU 1/4 RFU 3/8	RFU 1/2	RFU 1/8.2
Parts		M5	G1/8"	G1/8"	G1/8"	G1/4"	G3/4"	G1/2"	G1/8"
Nominal orifice	**1-2**	1.2 mm	1.2 mm	2 mm	3.2 mm	3.5 mm	7 mm	7 mm	2mm
	2-1	2.2 mm	4.2 mm	4.2 mm	4.2 mm	6.5 mm	10 mm	11mm	4.2mm
Nominal flow rate	**1-2**	60 Nl/min	60 Nl/min	120 Nl/min	210 Nl/min	300 Nl/min	600 Nl/min	600 Nl/min	120 Nl/min
	2-1	130 Nl/min	450 Nl/min	450 Nl/min	450 Nl/min	600 Nl/min	1100 Nl/min	1400 Nl/min	450 Nl/min
Temperature range		**max + 60 ˚C**							
Working pressure		**2 ... 10 bar**							0.5 ... 10 bar
		0.2 ... 1 MPa							0.05 ... 1MPa
Fluid		**50 μ filtered , lubricated or non lubricated air**							

Pressure Switch

A pressure switch is a type of pressure sensor used in pneumatic systems.
It serves as a safety device in industrial applications by monitoring the fluid pressure.

When the pressure reaches a preset threshold, the pressure switch opens or closes an electrical contact to turn devices such as solenoid valves or compressors on or off.

17.090.0 – 17.005.0 – 17.004.0



Temperature range	**max + 60 °C**
setting range	**1 ... 10 bar** **0.1 ... 1 MPa**
tolerance at 20 °C	**0.5 bar** **0.05 MPa**
Max . tension	**250V AC**
Standard hysteresis	**20%**
Fluid	**50µ filtered , lubricated or non lubricated air**

Check Valve (VNR)

Check valves are used as flow rectifiers in pneumatic circuits, allowing fluid to flow in only one direction — from port 1 to port 2.

They prevent reverse flow and ensure unidirectional movement of air or gas within the system.

VNR 1/8 FF – VNR 1/4 FF – VNR 1/2 FF

Model	VNR 1/8 FF VNR 1/8 MF	VNR 1/4 FF VNR 1/4 MF	VNR M5 FF	VNR 1/8 MFR	VNR 3/8 FF	VNR 1/2 FF
Parts	G1/8"	G1/4"	M5	G1/8"	G3/8"	G1/2"
Nominal orifice	5.2 mm	7mm	2.2 mm	4 mm	8.5 mm	10 mm
Nominal flow rate at 6 bar	500 Nl/min	900 Nl/min	100 Nl/min	350 Nl/min	2000 Nl/min	3500 Nl/min
Temperature range	**max + 60 °C** **VITION : max + 110 °C**					
Working pressure	**2 ... 10 bar** **0.2 ... 1 MPa**					
Fluid	**50µ filtered , lubricated or non lubricated air**					

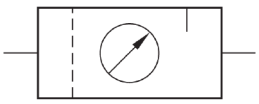
Air Preparation Unit (FRL Unit)

The pneumatic air preparation unit is a vital component in pneumatic systems, consisting of three main parts:

Filter – removes solid particles and moisture from the compressed air,

Regulator – adjusts and maintains the desired air pressure,

Lubricator – adds a fine mist of oil to the airflow to lubricate pneumatic components.

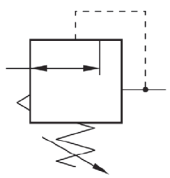


ORDER CODE			FR + L 4-08-30-S	FR + L 2-08-25-S
parts			G1/2"	G1/4"
Temperature range			max + 50 °C	max + 50 °C
Weight			1.5 kg	0.32 kg
Inlet pressure range		p_1 min p_1 max	0 bar ; 0 MPa 16 bar ; 1.6 MPa	0 bar ; 0 MPa 10 bar ; 1 MPa
Outlet pressure range (Δp)		p_2 min p_2 max	0.5 bar ; 0.05 MPa 8 bar ; 0.8 MPa	0.5 bar ; 0.05 MPa 8 bar ; 0.8 MPa
Minimum pressure difference		$p_1 - p_2$	0.2 bar ; 0.02 MPa	0.2 bar ; 0.02 MPa
Hysteresis		p_1= 10 bar / p_2 = 0 bar p_1= 10 bar / p_2 = 8 bar	0.9 0.7	1.6 0.6
Recommended flow rate	p_2= 6.3 bar a 25 m/s p_2= 6.3 bar at 25 m/s	Q_n	1900 Nl/min	550 Nl/min (max 580 Nl/min)
filter element			30 µ m	25 µ m

Regulator

A regulator is a component in pneumatic systems that controls and stabilizes air pressure.

It allows you to adjust the air pressure to the desired level required for the proper operation of pneumatic tools and equipment.



ORDER CODE			REG 2-08	REG 4-08
parts			G1/4"	G1/2"
Temperature range			max + 50 °C	max + 60 °C
Weight			0.11 kg	0.55 kg
Inlet pressure range		p_1 min p_1 max	0 bar ; 0 MPa 10 bar ; 1 MPa	0 bar ; 0 MPa 10 bar ; 1.6 MPa
Outlet pressure range (Δp)		p_2 min p_2 max	0.5 bar ; 0.05 MPa 8 bar ; 0.8 MPa	0.5 bar ; 0.05 MPa 8 bar ; 0.8 MPa
Minimum pressure difference		$p_1 - p_2$	0.2 bar ; 0.02 MPa	0.2 bar ; 0.02 MPa
Hysteresis		p_1= 10 bar / p_2 = 0 bar p_1= 10 bar / p_2 = 8 bar	1.6 0.6	0.9 0.7
Recommended flow rate	p_2= 6 bar a 25 m/s p_2= 6 bar at 25 m/s	Q_n	550 Nl/min	1900 Nl/min
maximum flow rate	p_1 = 10 bar ; p_2 =6.3 bar ; Δp = 1 bar	Q_{max}		5700 Nl/min

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