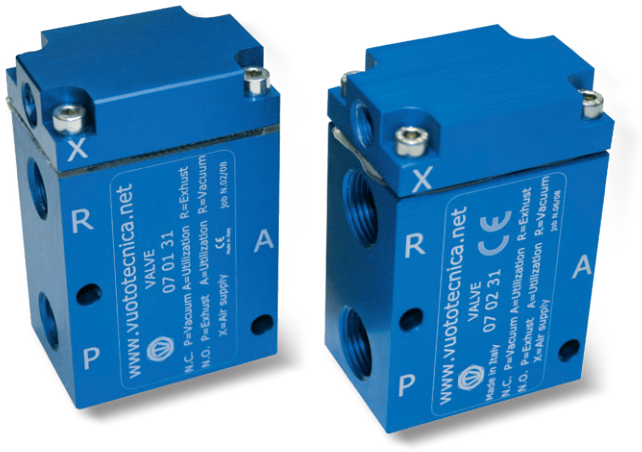
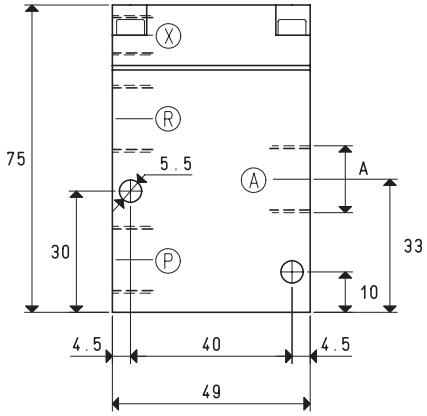
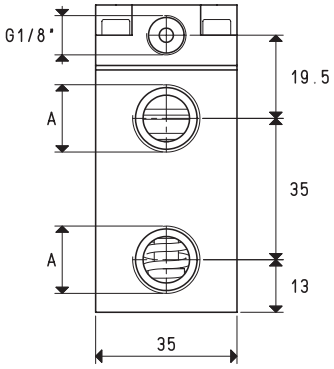
These two-position, three-way valves feature pneumatically activated conical shutters.
They can be used normally either closed or open.
They are recommended in all the cases that require a quick exchange between the vacuum pump suction and the air inlet into the circuit for a quick restoration of the atmospheric pressure.
They are composed of an anodised aluminium body, two Vulkollan® shutters assembled onto a stainless steel stem, a membrane for servo-control made with special compounds and a thrust spring for the shutter return.
These valves allow reducing frictions and internal dynamic stresses to the minimum. The result being a high response speed and a guarantee of long lasting duration.

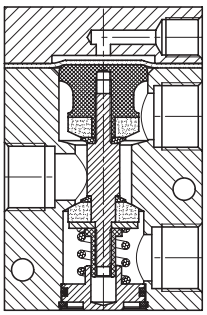
Technical features

Operating pressure: from 0.5 to 3000 absolute mbar
Servo-control pressure: see table
Temperature of suctioned fluid: from -5 to +60°C









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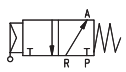
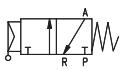


X = Compressed air supply
P = Pump
A = Use
R = Discharge

NO



X = Compressed air supply
P = Discharge
A = Use
R = Pump

Item	A	Max flow rate	Level of vacuum abs. mbar		Reaction time msec		Mouth	Cross-section of passage	Pressure at servo-controlled	Weight
	Ø	m³/h	min	max	energ.	de-energ.	Ø	mm²	bar	Kg
07 01 31	G1/4"	6	1000	0.5	5	10	8.5	56.8	4 ÷ 7	0,32
07 02 31	G3/8"	10	1000	0.5	5	10	11.5	103.8	4 ÷ 7	0,31

Note: Valve servo-controlled power must be supplied with non-lubricated compressed air, 5 micron filtration, according to standard **ISO 8573-1 class 4**.

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

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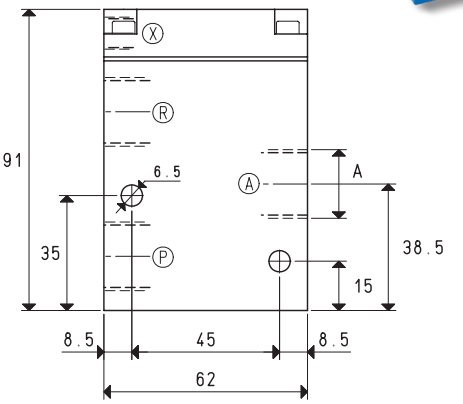

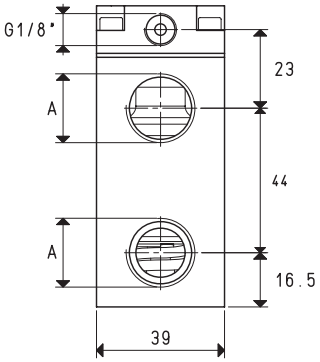

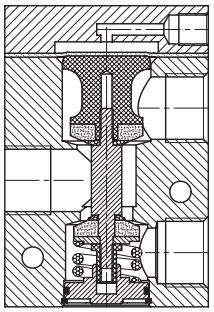

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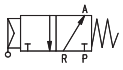
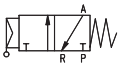


X = Compressed air supply
P = Pump
A = Use
R = Discharge

NO

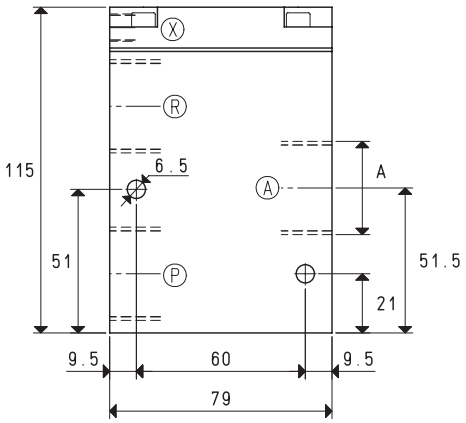


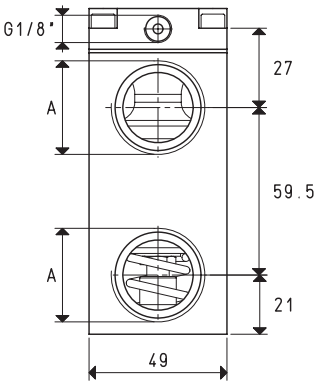
X = Compressed air supply
P = Discharge
A = Use
R = Pump

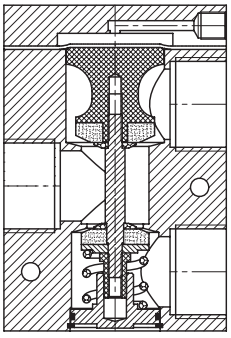
Item	A	Max flow rate	Level of vacuum abs. mbar		Reaction time msec		Mouth	Cross-section of passage	Pressure at servo-controlled	Weight
	Ø	m³/h	min	max	energ.	de-en.	Ø	mm²	*bar	Kg
07 03 31	G1/2"	20	1000	0.5	6	15	15.0	176	6 ÷ 8	0.490

* Add the letters LP to the item for servo-controlled pressures 4 - 6 bar.

Note: Valve servo-controlled power must be supplied with non-lubricated compressed air, 5 micron filtration, according to standard **ISO 8573-1 class 4**.







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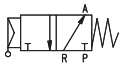
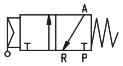


X = Compressed air supply
P = Pump
A = Use
R = Discharge

NO



X = Compressed air supply
P = Discharge
A = Use
R = Pump

Item	A	Max flow rate	Level of vacuum abs. mbar		Reaction time msec		Mouth	Cross-section of passage	Pressure at servo-controlled	Weight
	Ø	m³/h	min	max	energ.	de-energ.	Ø	mm²	*bar	Kg
07 04 31	G3/4"	40	1000	0.5	7	16	20	314	6 ÷ 8	1.060
07 05 31	G1"	90	1000	0.5	7	16	25	490	6 ÷ 8	0.964

* Add the letters LP to the item for servo-controlled pressures 4 - 6 bar.

Note: Valve servo-controlled power must be supplied with non-lubricated compressed air, 5 micron filtration, according to standard **ISO 8573-1 class 4**.

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

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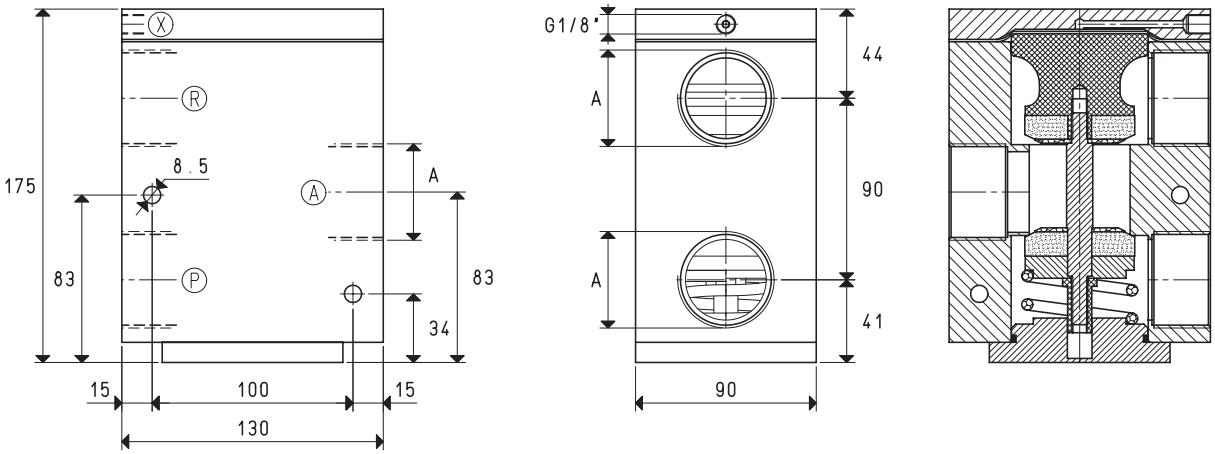

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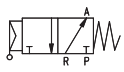
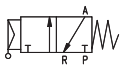


X = Compressed air supply
P = Pump
A = Use
R = Discharge

NO



X = Compressed air supply
P = Discharge
A = Use
R = Pump

Item	A	Max flow rate	Level of vacuum abs. mbar		Reaction time msec		Mouth	Cross-section of passage	Pressure at servo-controlled	Weight
	Ø	m^3/h	min	max	energ.	de-energ.	Ø	mm^2	*bar	Kg
07 06 31	G1" 1/2	230	1000	0.5	65	30	40	1256	6 ÷ 8	4.456

* Add the letters LP to the item for servo-controlled pressures 4 - 6 bar.

Note: Valve servo-controlled power must be supplied with non-lubricated compressed air, 5 micron filtration, according to standard **ISO 8573-1 class 4**.

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

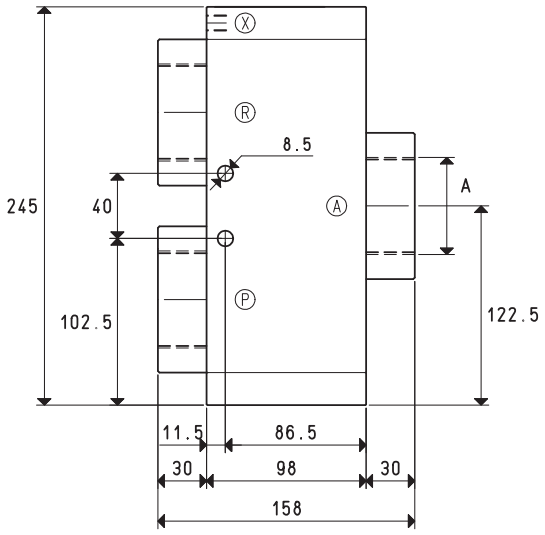
Adapters for GAS - NPT threading available on page 1.130

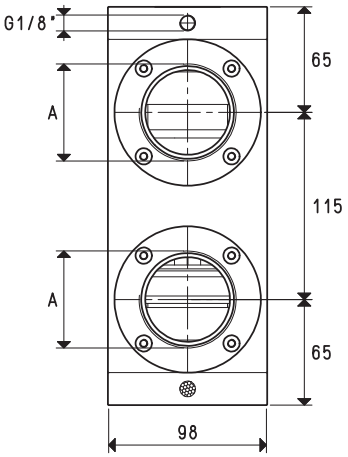
SERVO-CONTROLLED 3-WAY VACUUM SOLENOID VALVES, FOR LARGE FLOW RATES

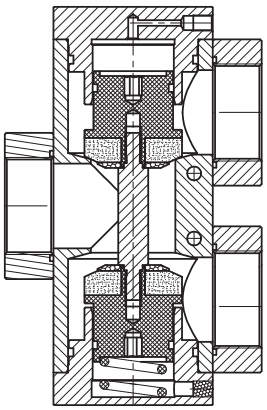
Strengthened by our constant desire for research and innovation and our experience, acquired over more than forty years of operations in the vacuum sector, we have made these new valves using absolutely innovative technologies, to guarantee exceptionally low intervention times, almost negligible pressure drops, and minimal dimensions compared to the large connections with which they are equipped. Furthermore, we have obtained them from aluminium block to eliminate even the slightest chance of loss due to transpiration, as perhaps could occur with a fusion.
This new series of solenoid valves for vacuums are three-way, two-position and are composed of:
- An anodised aluminium body set with attachment connections
- Two conical Vulkollan® shutters fitted on the aluminium pistons, pneumatically powered with spring return

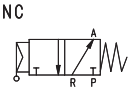
The composition of these valves, especially the original Teflon® slide system that the pistons have been equipped with, help minimise friction and internal dynamic stress, deriving high response speed and ensuring enduring operation.
They can be used normally either closed or open.
The three-way valves are used for vacuum interception on power supply units and suction palletisers, vacuum thermoformers, vacuum packaging units, robots, feeders, bag opening units and in all those cases where rapid exchange between pump suction for vacuums and air supply into the circuit is necessary for quick restoration of atmospheric pressure.

Technical features
Operating pressure: from 0.5 to 1000 absolute mbar
Servo-control pressure: from 4 to 8 bar
Temperature of suctioned fluid: from – 5 to + 60°C

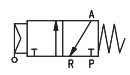








X = Compressed air supply
P = Pump
A = Use
R = Discharge



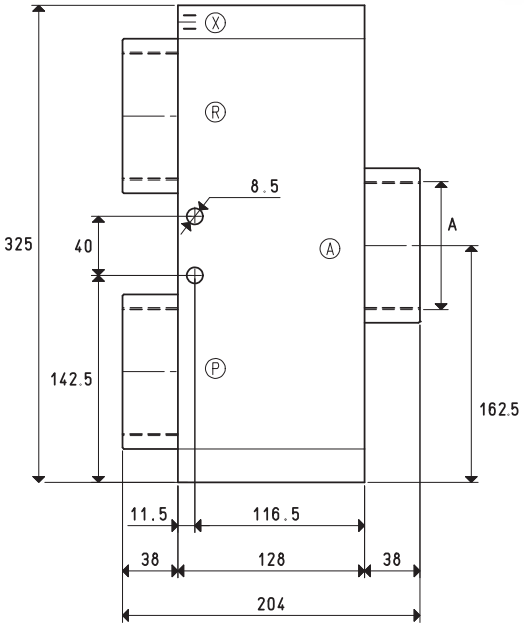
X = Compressed air supply
P = Discharge
A = Use
R = Pump

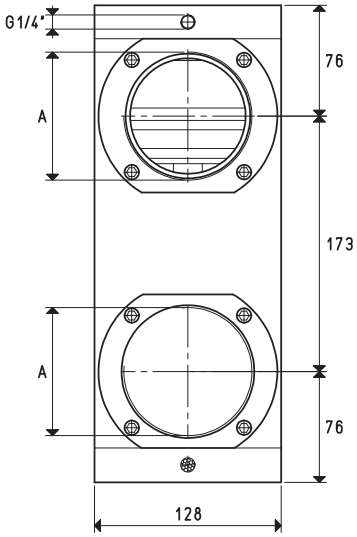
Item	A	Max flow rate	Level of vacuum abs. mbar		Reaction time msec		Mouth	Cross-section of passage	Pressure at servo-controlled	Weight
	Ø	m³/h	min	max	energ.	de-energ.	Ø	mm²	bar	Kg
07 08 31	G2"	390	1000	0.5	110	70	52	2123	4 ÷ 8	5.5

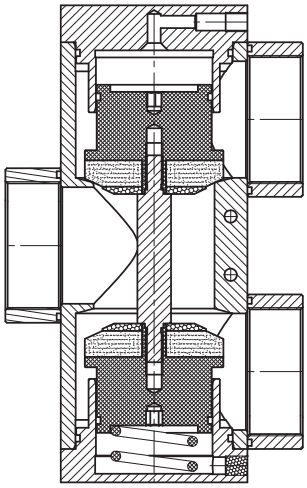
Note: Valve servo-controlled power must be supplied with non-lubricated compressed air, 5 micron filtration, according to standard **ISO 8573-1 class 4**.

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

Adapters for GAS - NPT threading available on page 1.130







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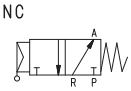
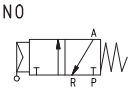


X = Compressed air supply
P = Pump
A = Use
R = Discharge

NO



X = Compressed air supply
P = Discharge
A = Use
R = Pump

Item	A	Max flow rate	Level of vacuum abs. mbar		Reaction time msec		Mouth	Cross-section of passage	Pressure at servo-controlled	Weight
	Ø	m^3/h	min	max	energ.	de-energ.	Ø	mm^2	bar	Kg
07 09 31	G3"	750	1000	0.5	132	84	80	5024	4 ÷ 8	11.4

Note: Valve servo-controlled power must be supplied with non-lubricated compressed air, 5 micron filtration, according to standard **ISO 8573-1 class 4**.

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

Adapters for GAS - NPT threading available on page 1.130