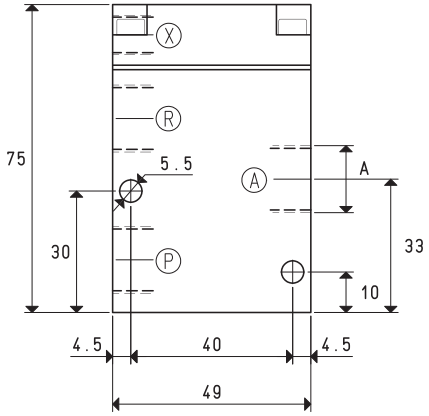
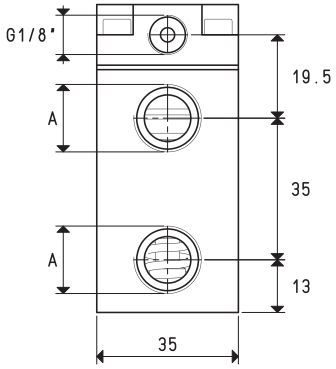
PILOT-OPERATED 3-WAY VACUUM VALVES

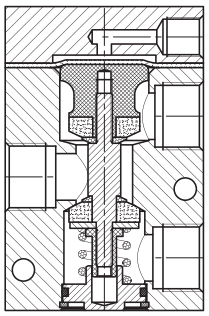
These 2-position, 3-way valves feature pneumatically activated conical sutters.
They can be normally used either open or closed.
They are recommended in all the cases that require a quick exchange between the vacuum pump suction and the air inlet into the circuit for a quick restoration of the atmospheric 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

Working pressure: from 0.5 to 3000 mbar abs.
Servo-control pressure: see table
Temperature of the sucked fluid: from -5 to +60 °C







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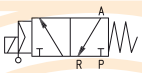
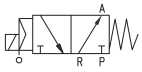


X = Compressed air supply
P = Pump
A = Service
R = Passage

NO



X = Compressed air supply
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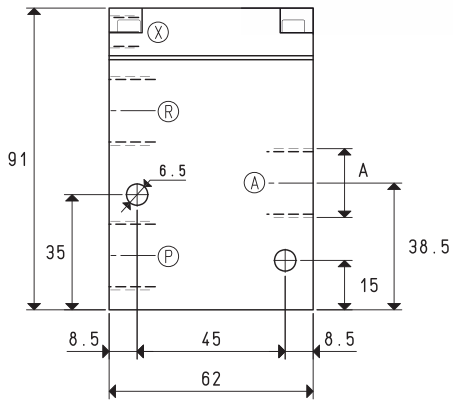
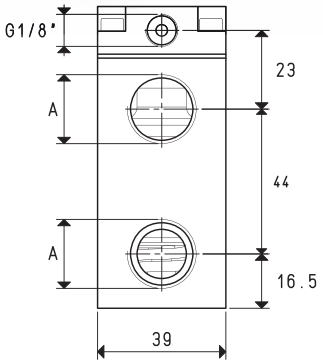
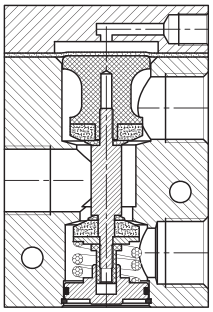
Art.	A	Max. capacity	Vacuum level		Reaction time		Ø	Passage section	Servo-control pressure	Weight
			mbar abs.		msec					
	Ø	cum/h	min	max	exc.	deexc.	orifice	mm^2	bar (g)	g
07 01 31	G1/4"	6	1000	0.5	5	10	8.5	56.8	4 ÷ 7	318
07 02 31	G3/8"	10	1000	0.5	5	10	11.5	103.8	4 ÷ 7	308

Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

GAS-NPT thread adapters available at page 1.117







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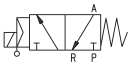

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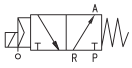
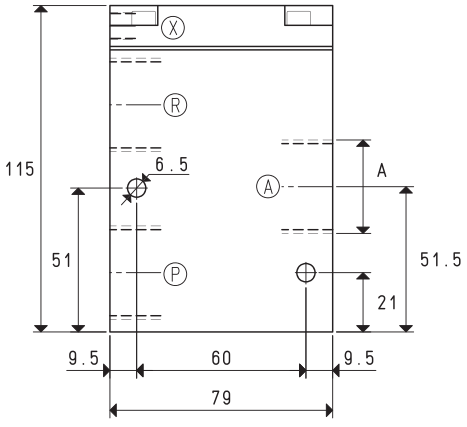
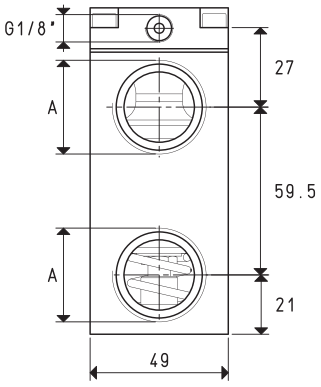


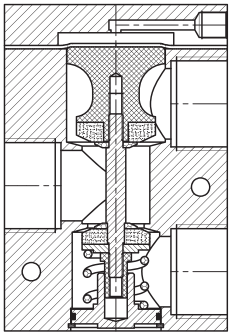
X = Compressed air supply
P = Passage
A = Service
R = Pump

Art.	A	Max. capacity	Vacuum level mbar abs.		Reaction time msec		Ø	Passage section	Servo-control pressure	Weight
	Ø	cum/h	min	max	exc.	deexc.	orifice	mm²	*bar (g)	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 article for servo-control pressure 4 ÷ 6 bar (g).







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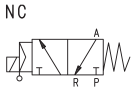

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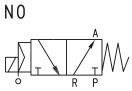


X = Compressed air supply
P = Passage
A = Service
R = Pump

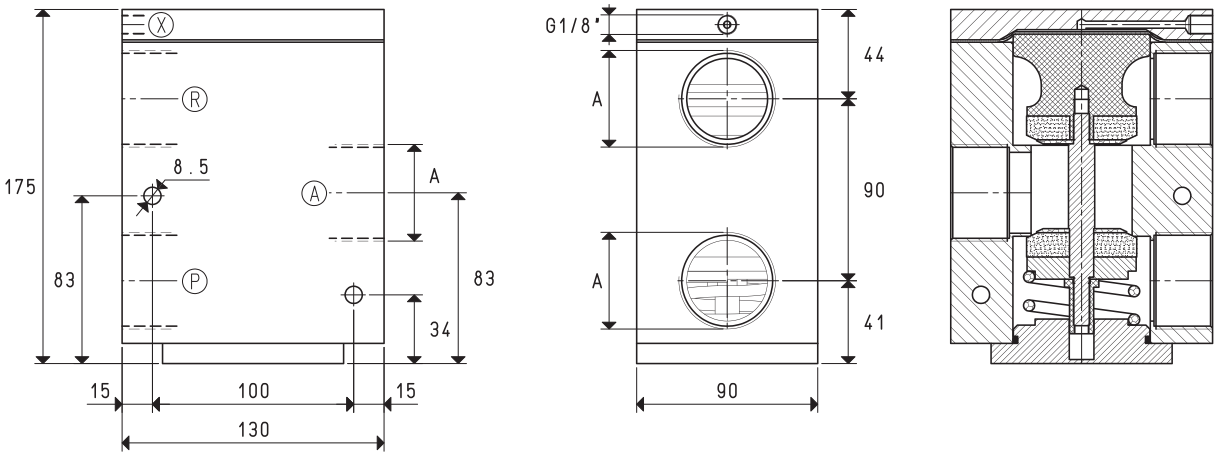
Art.	A	Max. capacity	Vacuum level mbar abs.		Reaction time msec		Ø	Passage section	Servo-control pressure	Weight
	Ø	cum/h	min	max	exc.	deexc.	orifice	mm²	*bar (g)	Kg
07 04 31	G3/4"	40	1000	0.5	7	16	20	314	6 ÷ 8	1.060
07 05 31	G1"	90	1000	0.5	7	16	25	490	6 ÷ 8	0.964

* Add the letters LP to the article for servo-control pressure 4 ÷ 6 bar (g).

Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

GAS-NPT thread adapters available at page 1.117

3-WAY VACUUM SOLENOID PILOT VALVES



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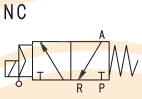
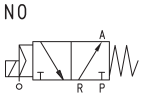


X = Compressed air supply
P = Pump
A = Service
R = Passage

NO



X = Compressed air supply
P = Pump
A = Service
R = Passage

Art.	A	Max. capacity	Vacuum level		Reaction time		Ø	Passage section	Servo-control pressure	Weight
			mbar abs.		msec					
	Ø	cum/h	min	max	exc.	deexc.	orifice	mm^2	*bar (g)	Kg
07 06 31	G1" 1/2	180	1000	0.5	65	30	40	1256	6 ÷ 8	4.456

* Add the letters LP to the article for servo-control pressure 4 ÷ 6 bar (g).

Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

GAS-NPT thread adapters available at page 1.117