TRANSFER PISTON PUMPS

WORKING PRINCIPLE

The pneumatic transfer pumps work with a compressed air motor that moves the piston vertically from top to bottom and viceversa. The product is suctioned by the lower pump and carried to the exit.

The structure of the “pumping unit” (suction valve, pump piston, material seal gaskets) permits the supply of material when the piston is in the ascending or descending phase.

The flow rate of a pneumatic piston pump depends on the quantity of material that it releases during each cycle and on the number of cycles that it completes (the cycle is the full stroke of the piston in both directions).

Pneumatic piston pumps are divided into two types:

IN-LINE: the pneumatic motor and the pump constitute one single body

DIVORCED: the pneumatic motor is separated from the pump and the fluid is not in contact with the motor.

ADVANTAGES OF PNEUMATIC TRANSFER PISTON PUMPS

- Powered by air
- Excellent resistance against abrasion and corrosion
- Ability to manage applications that go from the passage of corrosive fluids to that of cleaning fluids.
- The constant balance in a wide range of viscosity reduces the drop in pressure during the stroke
- Larius pistone pumps are ATEX certified
- The stainless steel or carbon steel models are suitable for the majority of applications.

APPLICATIONS OF THE TYPICAL FLUIDS HANDLED

Sealants - Silicone - Ink - Mastics - Glue - Lubricants - Adhesives - Paints - Resin - Solvents Gear oils - Motor oils - Wood fillers - Tanning materials - Waterproof components Dyes- Antinoise paints - Additives - Enamels - Acrylics - Fats - Epoxy materials - Soudproofing - Insulation.

TRANSFER PISTON PUMPS

MODEL	Version	Sizes	Ratio	Ø motor	Piston stroke	Max. flow rate	Supply pressure	Air consumption	Air inlet	Material inlet	Material outlet	Max/min cycles	C.C. / cycle
P33 1:1 ATEX: II 2G c IIB T4 **Divorced**	STD and STAINLESS STEEL	long stub-by	**1:1**	35 mm (1" 3/8)	100 mm (4")	20 l /min	3 ÷ 12 bar	3 bar 70 l /m 5 bar 110 l /m 7 bar 150 l /m	¼ " GAS	**Divorced long** ball valve **Divorced stubby** M36X2	¾" GAS	100	200
P31 2:1 ATEX: II 2G c IIB T4 **Divorced**	STD and STAINLESS STEEL	long stub-by	**2:1**	35 mm (1" 3/8)	100 mm (4")	10 l /min	3 ÷ 12 bar	3 bar 70 l /m 5 bar 110 l /m 7 bar 150 l /m	¼ " GAS	**Divorced long** ball valve **Divorced stubby** M36X2	¾" GAS	100	100
VEGA 5:1 **Divorced** **In-line**	STD and STAINLESS STEEL	long medium stubby	**5:1**	76 mm (3")	76 mm (3")	10 l /min	3 ÷ 8 bar	3 bar 150 l /m 5 bar 250 l /m 7 bar 380 l /m	3/8 " GAS	**long - medium** ball valve **stubby** M36X2	**In-line** ½"GC **Divorced** ¾" GAS	66	170
VEGA 15:1 **In-line**	STD and STAINLESS STEEL	long medium stubby	**15:1**	76 mm (3")	76 mm (3")	3.8 l /min	3 ÷ 8 bar	3 bar 150 l /m 5 bar 220 l /m 8 bar 350 l /m	3/8 " GAS	¾" GAS C (M)	3/8" GC (F)	60	57
VEGA 23:1 **Divorced**	STD and STAINLESS STEEL		**23:1**	76 mm (3")	76 mm (3")	2 l /min	3 ÷ 8 bar	3 bar 180 l /m 5 bar 260 l /m 8 bar 450 l /m	3/8 " GAS	¾" GAS C (M)	3/8" GC (F)	75	28
GHIBLI 3:1 **Divorced**	STD and STAINLESS STEEL	long medium stubby	**3:1**	108 mm (4" ¼)	102 mm (4")	45 l /min	3 ÷ 7 bar	3 bar 380 l /m 5 bar 630 l /m 7 bar 890 l /m	½" GAS	1 ½" GAS	1" GAS	66	680
GHIBLI 10:1 **Divorced**	STD and STAINLESS STEEL	long medium stubby	**10:1**	108 mm (4" ¼)	102 mm (4")	12 l /min	3 ÷ 7 bar	3 bar 350 l /m 5 bar 600 l /m 7 bar 800 l /m	½" GAS	**long - medium** ball valve **stubby** M36X2	¾"GC	60	250
GHIBLI 30:1 **Divorced**	STD and STAINLESS STEEL		**30:1**	108 mm (4" ¼)	102 mm (4")	4.5 l /min	3 ÷ 7 bar	3 bar 350 l /m 5 bar 600 l /m 7 bar 800 l /m	½" GAS (F)	¾" GAS C (M)	3/8" GC (F)	60	60
GHIBLI 40:1 **Divorced**	STD and STAINLESS STEEL		**40:1**	108 mm (44" ¼)	102 mm (4")	3.3 l /min	3 ÷ 7 bar	3 bar 350 l /m 5 bar 600 l /m 7 bar 800 l /m	½" GAS (F)	¾" GAS C (M)	3/8" GC (F)	60	45
OMEGA 10:1 **STAINLESS STEEL Divorced**	STAINLESS STEEL		**10:1**	178 mm (7")	120 mm (4" ¾)	32 l /min	3 ÷ 8 bar	3 bar 1,200 l /m 5 bar 1800 l /m 7 bar 2900 l /m	¾" GAS C	ball valve	1 ½" GAS C	60	530
OMEGA 23:1 **Divorced**	STD and STAINLESS STEEL		**23:1**	178 mm (7")	120 mm (4" ¾)	14 l /min	3 ÷ 8 bar	3 bar 1,200 l /m 5 bar 1800 l /m 7 bar 2900 l /m	¾" GAS C (F)	1 ½" GAS C (F)	1" GAS C (F)	60	230
OMEGA 30:1 **Divorced**	STD and STAINLESS STEEL		**30:1**	178 mm (7")	120 mm (4" ¾)	12 l /min	3 ÷ 8 bar	3 bar 1,200 l /m 5 bar 1800 l /m 7 bar 2900 l /m	¾" GAS C (F)	1 ½" GAS C (F)	1" GAS C (F)	60	200
NOVA 20:1 **STAINLESS STEEL Divorced**	STAINLESS STEEL		**20:1**	254 mm (10")	120 mm (4" ¾)	32 l /min	3 ÷ 6 bar	3 bar 2,200 l /m 5 bar 3800 l /m 6 bar 4400 l /m	¾" GAS C	ball valve	1 ½" GAS C	60	530
NOVA 45:1 **Divorced**	STD and STAINLESS STEEL		**45:1**	254 mm (10")	120 mm (4" ¾)	14 l /min	3 ÷ 6 bar	3 bar 2,200 l /m 5 bar 3800 l /m 6 bar 4400 l /m	¾" GAS C (F)	1 ½" GAS C (F)	1" GAS C (F)	60	230
NOVA 60:1 **Divorced**	STD and STAINLESS STEEL		**60:1**	254 mm (10")	120 mm (4" ¾)	12 l /min	3 ÷ 6 bar	3 bar 2,200 l /m 5 bar 3800 l /m 6 bar 4400 l /m	¾" GAS C (F)	1 ½" GAS C (F)	1" GAS C (F)	60	200
NOVA 68:1 **STAINLESS STEEL Divorced**	STAINLESS STEEL		**68:1**	254 mm (10")	120 mm (4" ¾)	11 l /min	3 ÷ 6 bar	3 bar 2,200 l /m 5 bar 3800 l /m 6 bar 4400 l /m	¾" GAS C (F)	1 ½" GAS C (F)	1" GAS C (F)	60	180