



## SHUT-OFF VALVES

These are special one-way valves that, when properly calibrated, allow a certain quantity of fluid to go through; afterwards, if the fluid continues to go through, they automatically close.

These shut-off valves have been specially designed to be applied on the cups and, in case of lack of objects to be gripped, of defective grips or leaks, they automatically deactivate suction, thus preventing any reduction of the level of vacuum on the other gripping cups.

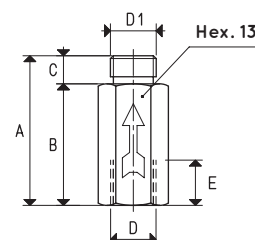
They are provided calibrated and commissioned, ready to be installed. They are made with anodised aluminium and can be supplied in different shapes and sizes upon request and for a minimum quantity to be defined in the order.



Item	A	B	C	D Ø	D1 Ø	E	Weight g
<b>14 01 05</b>	32	26	6	G1/8"	G1/8"	8	8

Minimum trigger flow = 1.5 m³/h

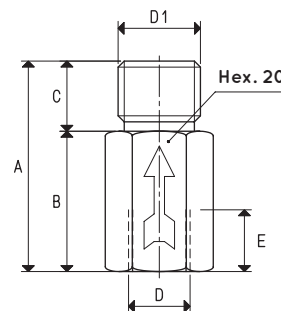
Minimum level of vacuum = -250 mbar



Item	A	B	C	D Ø	D1 Ø	E	Weight g
<b>14 01 10</b>	45	30	15	G1/4"	G3/8"	14	28

Minimum trigger flow = 4 m³/h

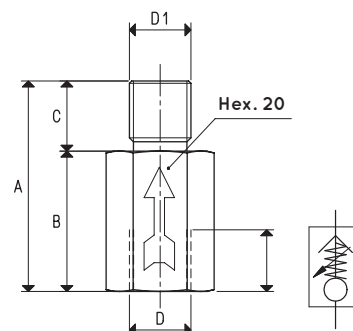
Minimum level of vacuum = -250 mbar



Item	A	B	C	D Ø	D1 Ø	E	Weight g
<b>14 01 15</b>	45	30	15	G1/4"	G1/4"	14	29

Minimum trigger flow = 4 m³/h

Minimum level of vacuum = -250 mbar



## SHUT-OFF VALVES



Item	A	D Ø	D1 Ø	E	Weight g
14 02 10	59	G1/4"	G1/4"	14	42

Minimum trigger flow = 4 m³/h

Minimum level of vacuum = -250 mbar

Item	A	B	C	D Ø	D1 Ø	E	Weight g
14 03 10	59	47	12	G3/8"	G1/4"	14	36

Minimum trigger flow = 4 m³/h

Minimum level of vacuum = -250 mbar

Item	A	B	C	D Ø	D1 Ø	E	Weight g
14 05 10	59	47	12	G3/8"	G1/4"	14	34

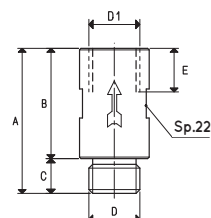
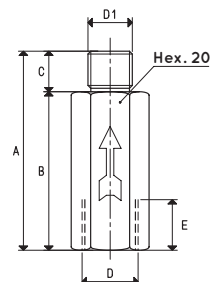
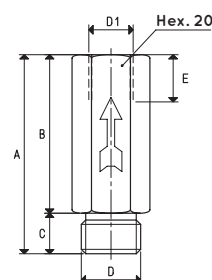
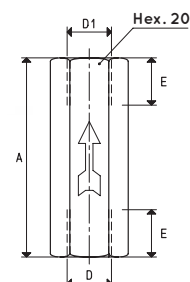
Minimum trigger flow = 4 m³/h

Minimum level of vacuum = -250 mbar

Item	A	B	C	D Ø	D1 Ø	E	Weight g
14 06 10	50	38	12	G3/8"	G3/8"	14	38

Minimum trigger flow = 4 m³/h

Minimum level of vacuum = -250 mbar



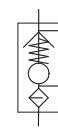
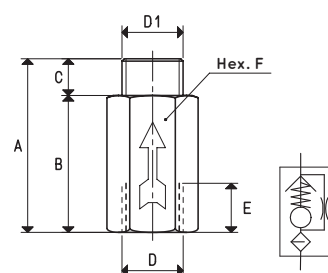
## SHUT-OFF VALVES WITH CONTROLLED LOSS

These are based on the same operating principle as the previously described shut-off valves. They differ only in the sealing shutter which, even when completely closed, allows the vacuum source a minimum of suction. This feature helps pick up the vacuum cup that has not gripped the object, for example, due to early activation of the suction, to recreate the vacuum inside it and then to grip without having to repeat the work cycle. If, on the other hand, the vacuum cup does not grip because there is no object to be gripped, the valve does not prevent the lowering of the level of vacuum on the remaining vacuum cups, but the small size of the loss is easily controllable and therefore, recoverable. Fully made with anodised aluminium.



Item	Loss max Nl/min	Minimum trigger flow m³/h	A	B	C	D Ø	D1 Ø	E	F	Weight g
14 01 11	7.5	1	36.0	29.5	6.5	G1/8"	G1/8"	10	13	8
14 02 11	7.5	1	37.5	29.5	8.0	G1/4"	G1/4"	15	17	16
14 03 11	24.0	3	42.0	32.5	9.5	G3/8"	G3/8"	17	22	28

Minimum level of vacuum = -250 mbar



Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)

inch =  $\frac{\text{mm}}{25.4}$ ; pounds =  $\frac{\text{g}}{453.6} = \frac{\text{Kg}}{0.4536}$

Adapters for GAS - NPT threading available on page 1.130