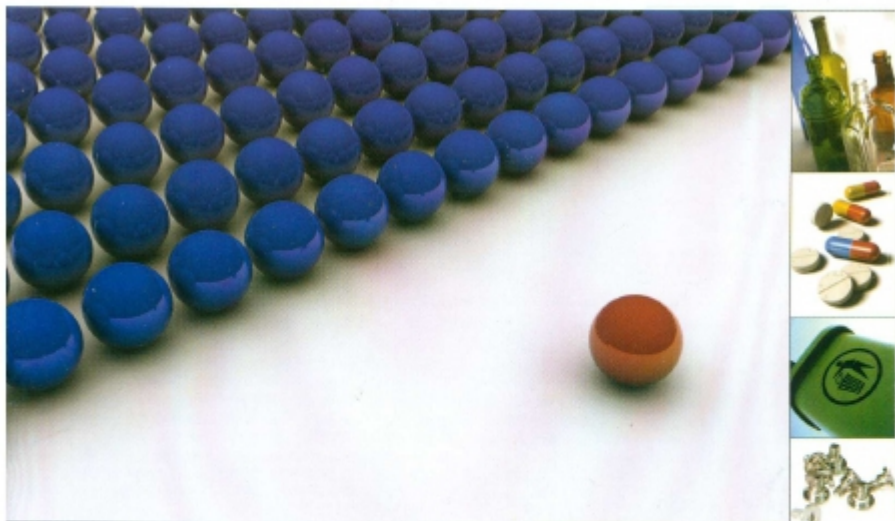


**High-performance solutions**  
for **sorting** and **recycling** applications



Sorting systems technology is commonly used in the industrial processing of:

- food products (fresh, dehydrated or frozen) such as nuts, grains, seafood, coffee, vegetables, rice, corn, seeds, tomatoes, spices, tea, etc. so that all contaminants or defective products can be removed in order to meet the customer quality demands.
- plastic products processing (PET, PVC, etc.) to grant purity and to protect manufacturing machinery by preventing breakdowns.
- chemical products. Being that the chemical industry is part of the supply chain of other industries (food, pharmaceutical, plastics, etc.) is subject to strict quality standards and sorting systems play a vital role in ensuring products purity.
- pharmaceutical products like tablets and pills. They must meet strict quality standard regulations and are subject to rigorous quality assurance procedures at various stages throughout the production process.
- domestic refuse and industrial/commercial waste recycling (glass, paper, ceramics, plastic, cardboard, metals, etc.) where the sorting systems play a key-role in ensuring that recycled materials can be reprocessed in the respective production cycles.



In particular, the diffusion of sorting systems suitable for recycling applications is rapidly growing because of several factors, among which there are the increased waste production per capita due to the economic and well-being raise, several new and more restrictive environmental regulations, the raw materials price increase (metals, plastics, etc.) and the manual recycling labour cost increase.

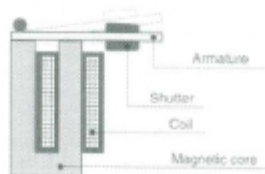


In any industrial sorting application for the classification of bulk materials by colour, shape or size, both in case of production lines processing or recycling, the key-features of an high performance system are the speed and precision of the sorting process, other than its reliability. For the end-user, the benefits of such features translate in an increased and maintenance-free productivity. In order to match the top-notch requirements of these applications, developed a new generation of innovative technical solutions capable to satisfy even the highest demands in terms of performance and quality standards.

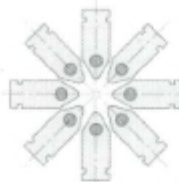
These new products combine extremely short response times and very long maintenance-free operating life in compact designs. Available in a multitude of configurations ranging from single and multiple small-footprint valves up to complete manifold assemblies and customer-specific solutions, these products are suitable for any sorting or recycling system for the ejection of contaminants, impurities, out-of-specification parts and mixed parts separation in different industrial environments (food, chemicals, plastics, mining, waste management, glass and plastic recycling, etc.).

## Innovative and reliable technology for impressive performances

Functional scheme

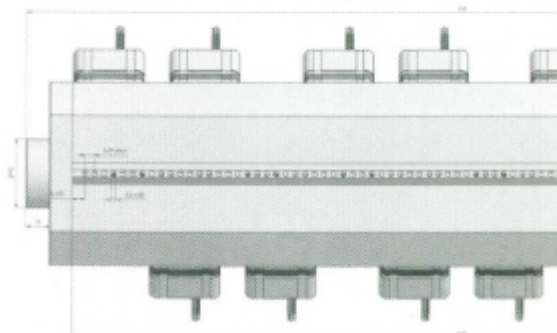
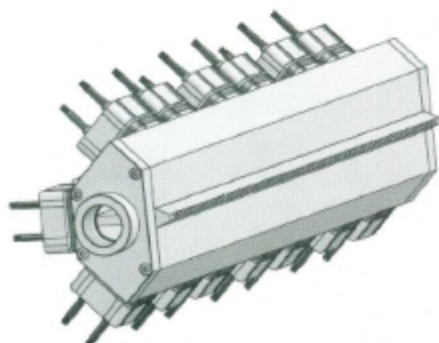
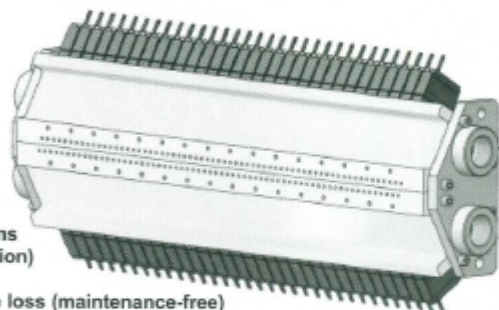


Modular Architecture



A wide range of ready-to-use products, the highest skills and technical knowledge focused on the development of reliable customer specific solutions for air ejection systems, all characterized by:

- Compact dimensions and light weight
- Low power consumption values
- Reduced installation times
- Individual or multiplex configurations
- Opening / closing response times down to 1 ms (100% flow rate for precise and powerful ejection)
- Up to 500.000.000 cycles without performance loss (maintenance-free)
- Variable flow rates and configurations for improved flexibility
- Preassembled and 100% tested manifold units for air ejection with up to 300 outlets
- Distance between the outlets of the manifold starting from 6mm
- Twin manifold versions (GMT) with adjustable vertical off-sets and minimum pitch of 3 mm





## Product highlights – High performance individual valves

### 820 SERIES 2/2 NC

Flow rate: up to 220 l/min  
Response time: down to 1 ms  
Pressure range: 2-8 bar  
Electrical connection: IP62 moulded-in cables, integrated M8 connector  
Footprint: 12x37 mm  
Weight: 25 gr.  
Individual versions for direct mounting and sub-base versions for manifold



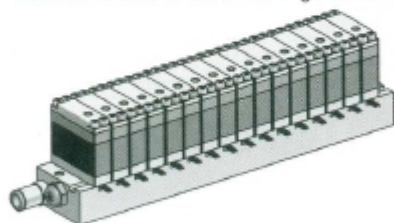
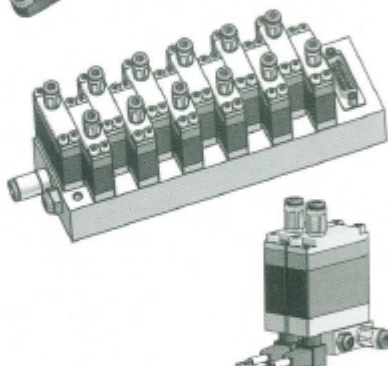
### 840 SERIES 2/2 NC MULTIFLOW

Flow rate: up to 300 l/min (150 l/min + 150 l/min modular architecture)  
Response time: down to 2 ms  
Pressure range: 2-8 bar  
Electrical connection: IP62 moulded-in cables, integrated M8  
Footprint: 12x75 mm  
Weight: 35 gr.  
Individual versions for direct mounting and sub-base versions for manifold  
Integrated speed-up driver versions available for easy installation



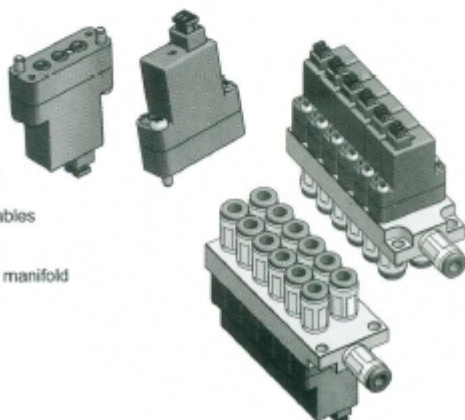
### 720 SERIES 2/2 NC and 3/2 NC or NO

Flow rate: up to 100 l/min  
Response time: down to 2 ms [max operating freq. up to 200 Hz]  
Pressure range: 0-8 bar  
Electrical connection: IP62 moulded-in cables, integrated M8 connector  
Footprint: 12x41 mm  
Weight: 35 gr.  
Individual versions for direct mounting and sub-base versions for manifold



### 320<sup>(new)</sup> SERIES 2/2 and 3/2 NC or NO

Flow rate: 30 l/min  
Response time: down to 2 ms [max operating freq. up to 200 Hz]  
Pressure range: 0-8 bar  
Electrical connection: IP62 integrated connector or moulded-in cables  
Footprint: 8x23 mm  
Weight: 15 gr.  
Individual versions for direct mounting and sub-base versions for manifold



### **850 & 890<sup>(new)</sup> SERIES**

2/2 NC

Modular architecture: 1, 3 or 9 outlets

Flow rate: from 100 l/min up to 1600 l/min

Response time: down to 1 ms

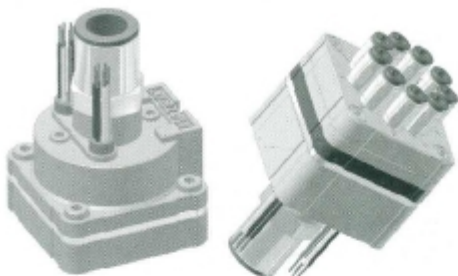
Pressure range: 2-8 bar

Electrical connection: IP62 moulded-in cables

Footprint: 46x46 mm

Weight: 160 - 260 gr (depending on models)

Variable flow rate versions for improved flexibility



### **580 SERIES**

2/2 NC

Modular architecture: 8 outlets

Flow rate: 180 l/min each outlet

Response time: down to 2 ms

Pressure range: 0-5 bar

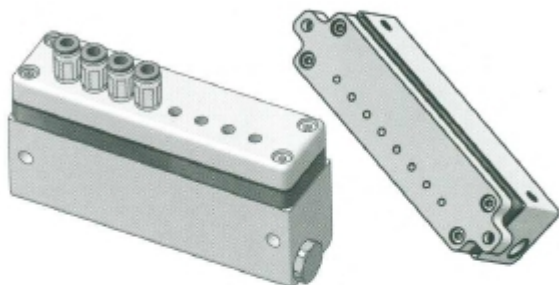
Electrical connection: IP62 moulded-in cables

Footprint: 118x28 mm

Weight: 400 gr (depending on models)

Sub-base versions for manifold installation available

Variable flow rate versions for improved flexibility



### **750 SERIES**

2/2 NC and 3/2 NC or NO

Modular architecture: 8 outlets

Flow rate: from 50 l/min up to 700 l/min depending on outlets configuration

Response time: down to 2 ms [max freq. up to 200 Hz]

Pressure range: 0-8 bar

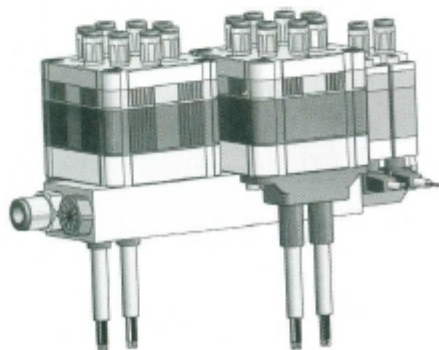
Electrical connection: IP62 moulded-in cables, Easy Connection System

Footprint: 55x55 mm

Weight: 350 gr (depending on models)

Variable flow rate versions for improved flexibility

Custom configurations (3/3 and 5/2) available



## GM820 SERIES

Nozzles / 820 Series valves: form 50 up to 300

Flow rate: 100 l/min, 140 l/min, 180 l/min, 220 l/min

Available Pitches: from 6 mm up to 25 mm (6,15 | 6,35 | 6,4 | etc.)

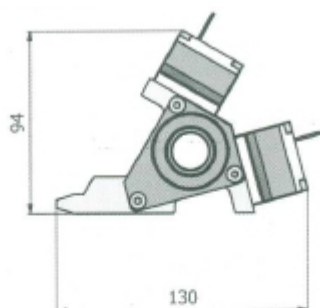
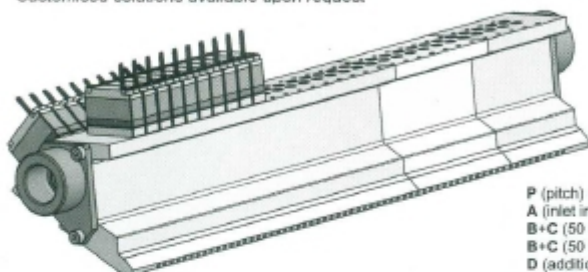
Response time: down to 1 ms

Pressure range: 2-8 bar

Inlet ports: n.2 G3/4" or G1"

Electrical connection: IP62 moulded-in cables, integrated M8 connector

Customised solutions available upon request



P (pitch) = from 6 mm onward

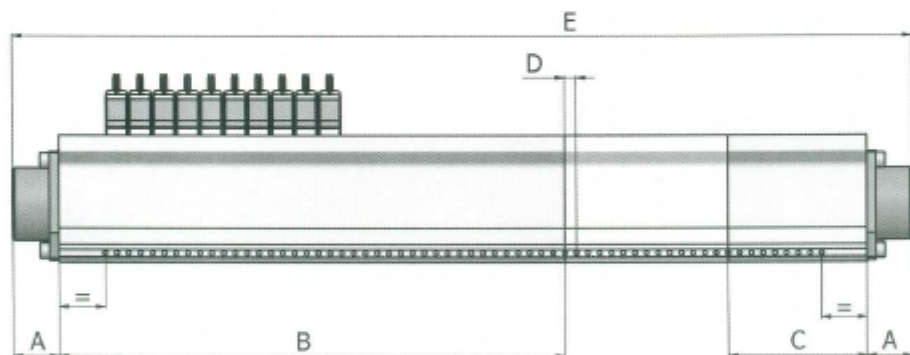
A (inlet interfaces) = 25 mm

B+C (50 nozzles manifold size, pitch 6 mm) = 344 mm

B+C (50 nozzles manifold size, pitch 6,4 mm) = 363 mm

D (additional outlets) = P x additional outlets

E (total manifold length) = B+C+2xA+D



## GMT820 SERIES TWIN

Nozzles / 820 Series valves: form 100 up to 600

Flow rate: 100 l/min, 140 l/min, 180 l/min, 220 l/min

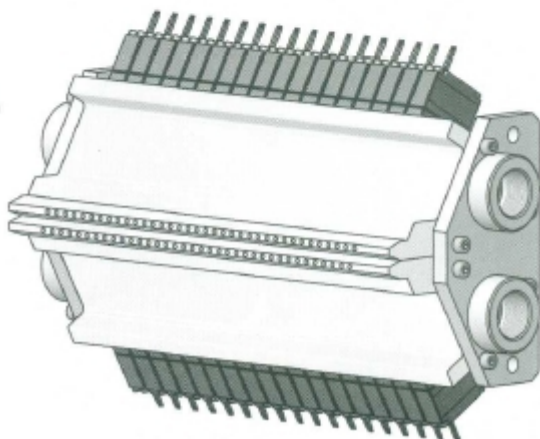
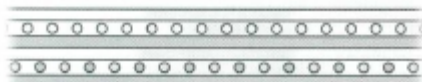
Available Pitches: from 3 mm on, vertical offset 10 mm

Response time: down to 1 ms

Pressure range: 2-8 bar

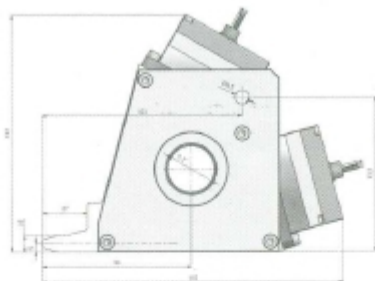
Inlet ports: n.4 G3/4"

Twin configuration with 10 mm vertical offset between upper and lower rows of nozzles

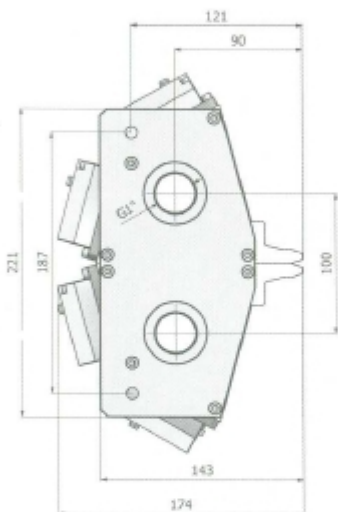


## GM840 SERIES

Nozzles / 840 Series valves: form 50 up to 300  
 Flow rate: 300 l/min (150 l/min + 150 l/min Multiflow architecture)  
 Available Pitches: from 6 mm up to 25 mm (6,15 | 6,35 | 6,4 | etc.)  
 Response time: down to 2 ms  
 Pressure range: 2-8 bar  
 Inlet ports: n.2 G1"  
 Electrical connection: IP62 moulded-in cables, M8 connector  
 Custom surface treatments available  
 Custom stainless steel replaceable outlet nozzles modules available  
 Integrated speed-up driver versions available for easy installation

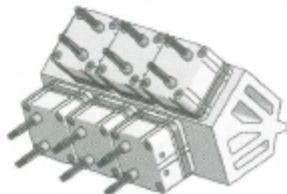
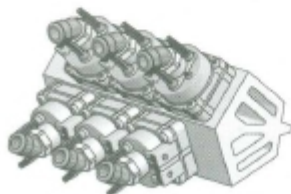
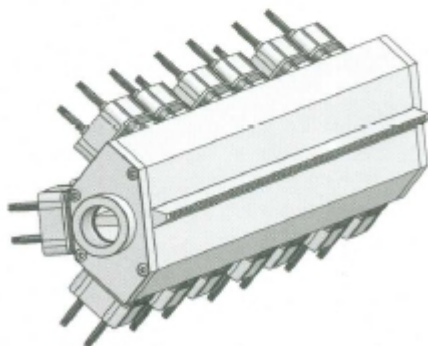


Available also in TWIN configuration as **GMT840 SERIES**  
 with 10 mm vertical offset between upper and lower rows of nozzles



## GM850<sup>(new)</sup> and GM890<sup>(new)</sup> SERIES

Nozzles / 850 and 890 Series valves: form 50 up to 300  
 Flow rate: 180 l/min (or variable with modular architecture)  
 Available Pitches: 6,25 mm | 8 mm  
 Response time: down to 1 ms  
 Pressure range: 2-8 bar  
 Inlet ports: n.2 G1" (890) or inlet push-in fittings  
 Electrical connection: IP62 moulded-in cables  
 Custom surface treatments available





**GM580<sup>(new)</sup> SERIES**

Nozzles / 580 Series valves: from 50 up to 300

Flow rate: 180 l/min

Available Pitches: 9 mm

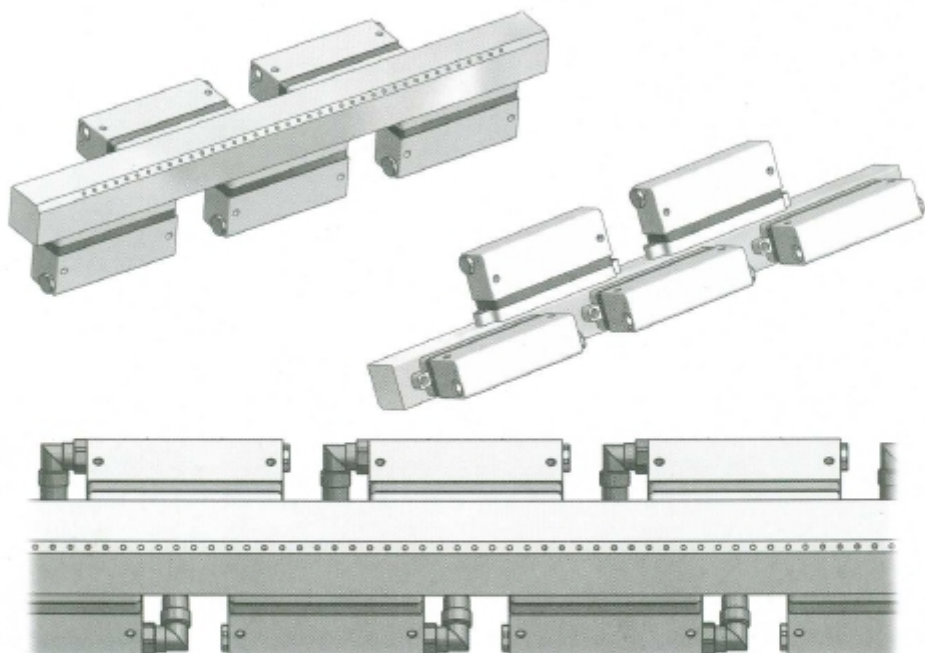
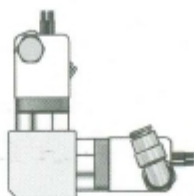
Response time: down to 1,5 ms

Pressure range: 0-5 bar

Inlet ports: n.x inlet push-in fittings

Electrical connection: IP62 moulded-in cables

*Customised solutions available upon request*



**Kompaut S.r.l.**  
Via Sesia, 27 21050 Marnate VA  
ITALY  
[info@kompaut.com](mailto:info@kompaut.com)

