

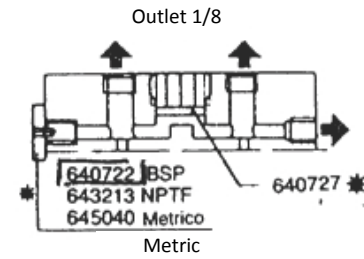
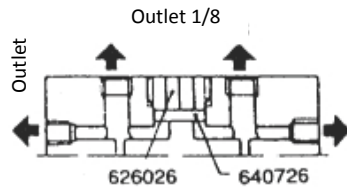
Characteristics

- **Working pressure:**
max. 400 bar
min. 20 bar;
- **Working pressure without check valves for recirculating systems:**
min. 12 bar(170 psi);
- **N.° cycles per minute:**
max. 120;
- **Driving torque for tie rods:**
max. 3kgm.

Serial "SA" Metering Elements

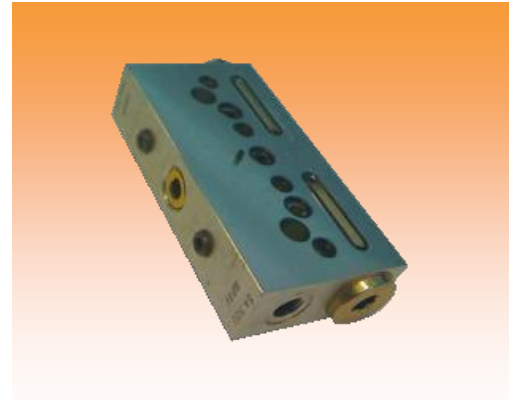
Progressive metering elements with steel body, hardened piston, high pressure sealing ring, device for connecting or separating the outlets.

TO CONNECT OUTLETS

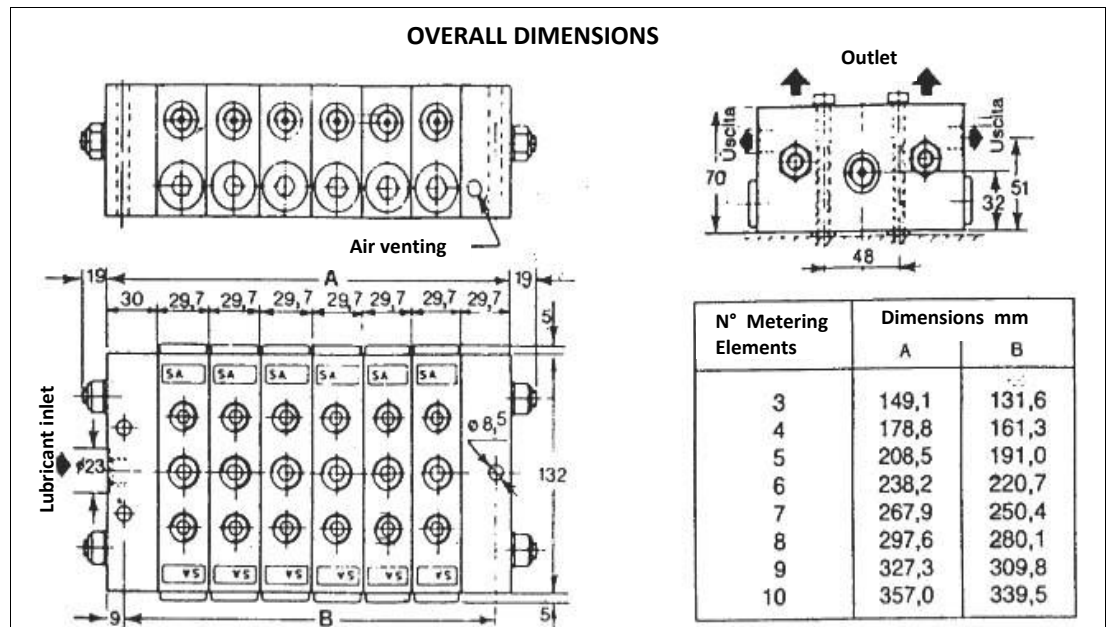


* Order separately

In order to get a perfect working, ensure that the group has been correctly ported. You can double the delivery by converting from single outlet. Remove gasket **640727** and replace screw **640726** as shown in the side drawing. The top outlets are always 1/8" BSP, also for manufacture metric type.



Dimensions



Applications

- Used in recirculating systems
e.g.: applications on large size press.

Serial "SA" Metering Elements

Connections for elements

| CHARACTERISTICS | | | | | | | | BRIDGE CONNECTIONS | | | | | | | | | |
|---------------------|-----|-----|-----|-----|----|------------------|--------|--------------------|----|------|------|--------|-----|----|----|------|--------|
| Fitting (R) | | | | | | | | Hex | | | | | | | | | |
| Thread | A | B | C | Hex | L | Pipe seat ϕ | P.Nr. | Hex | L | H | I | P.Nr. | Hex | L | H | I | P.Nr. |
| BSP Silver color | 1/4 | 1/8 | 1/4 | 17 | 46 | 8 | 640479 | 19 | 60 | 22,5 | 29,7 | 640039 | 19 | 60 | 34 | 29,7 | 640057 |
| Silver Color | | | | | | | | | | | | | | | | | |
| NPTF Black color | 1/4 | 1/8 | 1/4 | 19 | 45 | - | 640131 | 19 | 60 | 24,5 | 29,7 | 643155 | 19 | 60 | 32 | 29,7 | 643160 |
| Black color | | | | | | | | | | | | | | | | | |



Accessories for "SA" Metering Elements

PRESSURE INDICATORS

| CHARACTERISTICS | | | NORMAL (N) | | | | WITH MEMORY (M) | | | | WITH MEMBRANE (P) | | |
|-----------------|-------------------|--------------------------|------------|------|---------|---------|-----------------|----|---------|---------|-------------------|------|---------|
| Thread | Max. Pressure bar | Color of rod or membrane | Hex | L | C. Max. | P.Nr. | Hex | L | C. Max. | P.Nr. | Hex | L | P.Nr. |
| BSP 1/8 | 20 | Blue | 12 | 31,5 | 5 | 3290019 | 12 | 44 | 5 | - | 14 | 28,5 | - |
| | 30 | Silver | | | | 3290006 | | | | 3290012 | | | |
| | 50 | Red | | | | 3290007 | | | | - | | | |
| Silver Color | 50 | Bronze | | | | - | | | | 3290022 | | | 3290013 |
| | 75 | White | | | | - | | | | 3290002 | | | - |
| | 100 | Yellow | | | | 3290008 | | | | 3290002 | | | 3290014 |
| | 150 | Black | | | | 3290009 | | | | 3290003 | | | 3290015 |
| | 200 | Green | | | | 3290010 | | | | 3290004 | | | 3290016 |
| 250 | Light blue | 3290011 | | | | 3290005 | | | | 3290017 | | | |



Serial "SA" Metering Elements

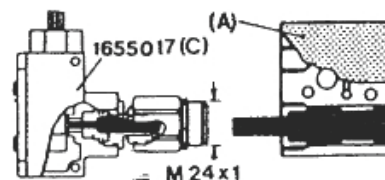
Accessories for "SA" Metering Elements

Cycle control Elements

MOVEMENT MONITORING OF METERING ELEMENT PISTON BY MEANS OF A MICROSWITCH

A microswitch with a change over contact is controlled by an extended rod, integral with the metering element piston. This device is suitable for the control of the lubrication cycle at preselected intervals.

Characteristic of the contact: Max. 220 V, 50-60 Hz -5A.

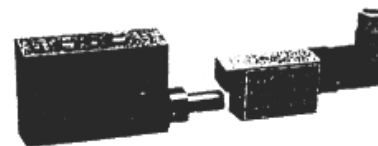
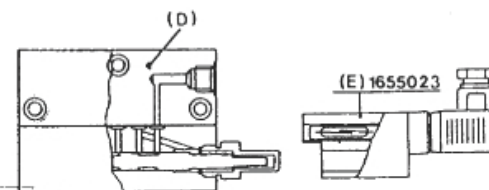


| Outlets | Part Number | | | | | |
|---------|-----------------------|---------------------|-----------------------|-----------------------|---------------------|-----------------------|
| | A | | | A+C | | |
| | 1.5 cc. .09 cu.in. | 3 cc. .18 cu.in. | 4.5 cc. .27 cu.in. | 1.5 cc. .09 cu.in. | 3 cc. .18 cu.in. | 4.5 cc. .27 cu.in. |
| BSP | 644164 | 644165 | 644166 | 644182 | 644183 | 644184 |
| NPTF | 643359 | 643360 | 643361 | 643377 | 643378 | 643379 |

MOVEMENT MONITORING OF METERING ELEMENT PISTON BY MEANS OF A MAGNETIC CONTACT

A permanent magnet applied to the piston acts on a "reed" contact, which if connected to an electronic counter, can visualize up to 500 movements per minute. The Reed contact is inserted in a water tight container and can be easily substituted. The metering element with such a device, if fixed to a metal part, must have a gap of at least 10 mm (.39 in.). The best mounting is with the device upwards and the outlets downwards.

Characteristics of the contact: Max. 220 V 50-60 Hz – 0.8A.

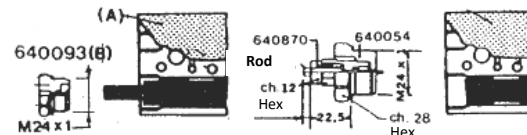
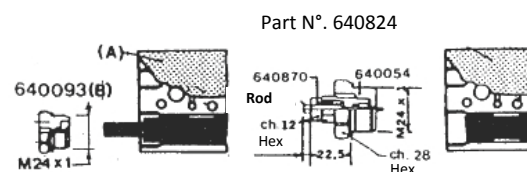


| Outlets | Part Number | | | | | |
|---------|-----------------------|---------------------|-----------------------|-----------------------|---------------------|-----------------------|
| | D | | | D+E | | |
| | 1.5 cc. .09 cu.in. | 3 cc. .18 cu.in. | 4.5 cc. .27 cu.in. | 1.5 cc. .09 cu.in. | 3 cc. .18 cu.in. | 4.5 cc. .27 cu.in. |
| BSP | 644191 | 644192 | 644193 | 644200 | 644201 | 644202 |
| NPTF | 643386 | 643387 | 643388 | 643395 | 643396 | 643397 |

VISUAL MONITORING OF THE METERING ELEMENT PISTON'S MOVEMENT STANCH FITTING

It can be installed for visual indication or using the movement of the piston pin.

| Outlets | Part Number | | | | | |
|---------|-----------------------|---------------------|-----------------------|-----------------------|---------------------|-----------------------|
| | A | | | A+B | | |
| | 1.5 cc. .09 cu.in. | 3 cc. .18 cu.in. | 4.5 cc. .27 cu.in. | 1.5 cc. .09 cu.in. | 3 cc. .18 cu.in. | 4.5 cc. .27 cu.in. |
| BSP | 644164 | 644165 | 644166 | 644173 | 644174 | 644175 |
| NPTF | 643359 | 643360 | 643361 | 643368 | 643369 | 643370 |

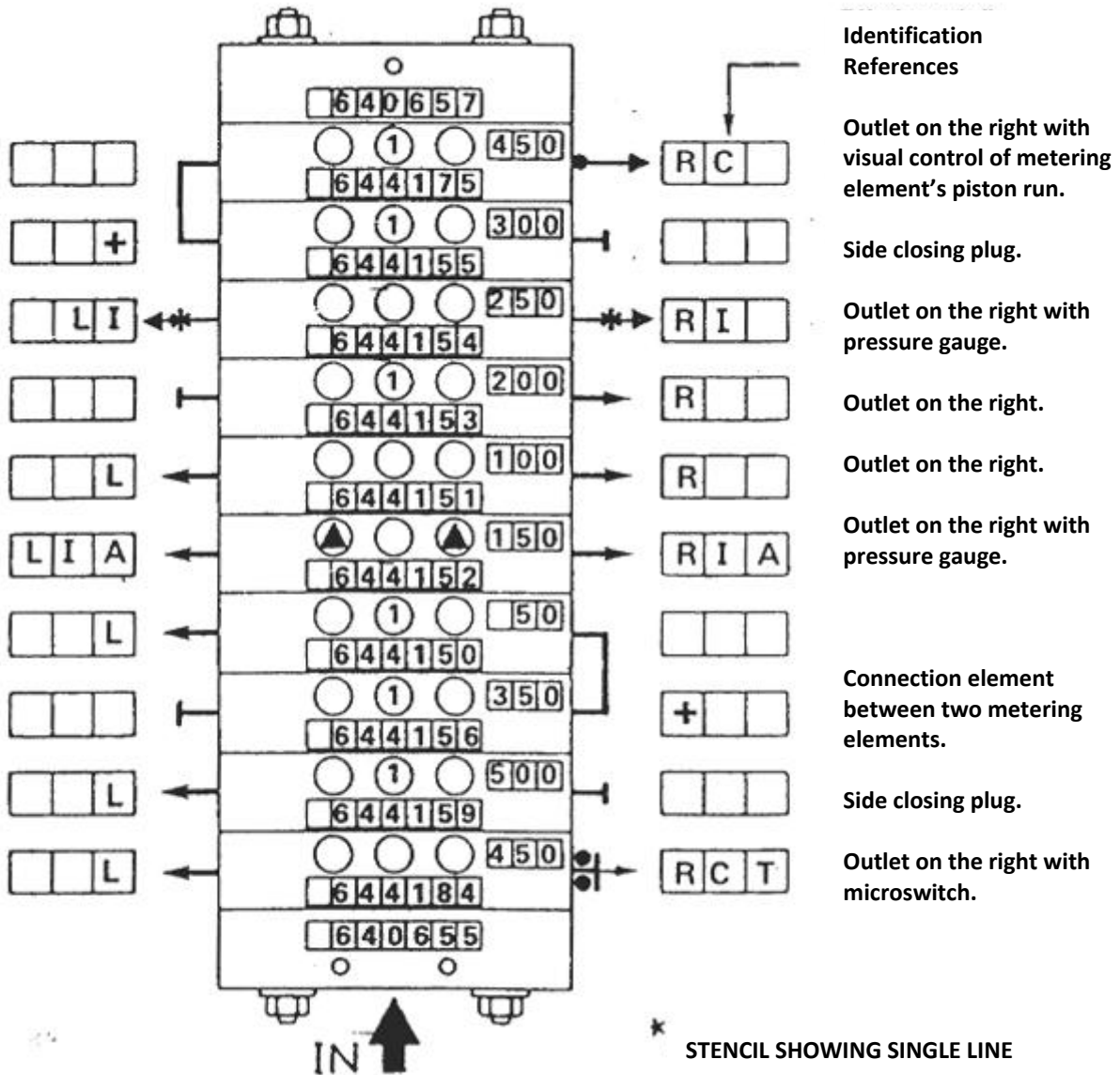


Serial "SA" Metering Elements

Composition of Serial "SA" Metering Elements Blocks

IDENTIFICATION DIAGRAM FOR ALL DEVICES, WHICH CAN BE USED IN A BLOCK OF 10 METERING ELEMENTS

For description of the legend, see the following page.



Note: Letter "R" indicates assembly on the right.
Letter "L" indicates assembly on the left.

The block may be ordered without living the single code numbers, but just using the identification references. In this case the block will be identified as follows:

□450LRCT □500L □350+50L □150LIARIA □100LR □200R □250LIRI □300+450RC

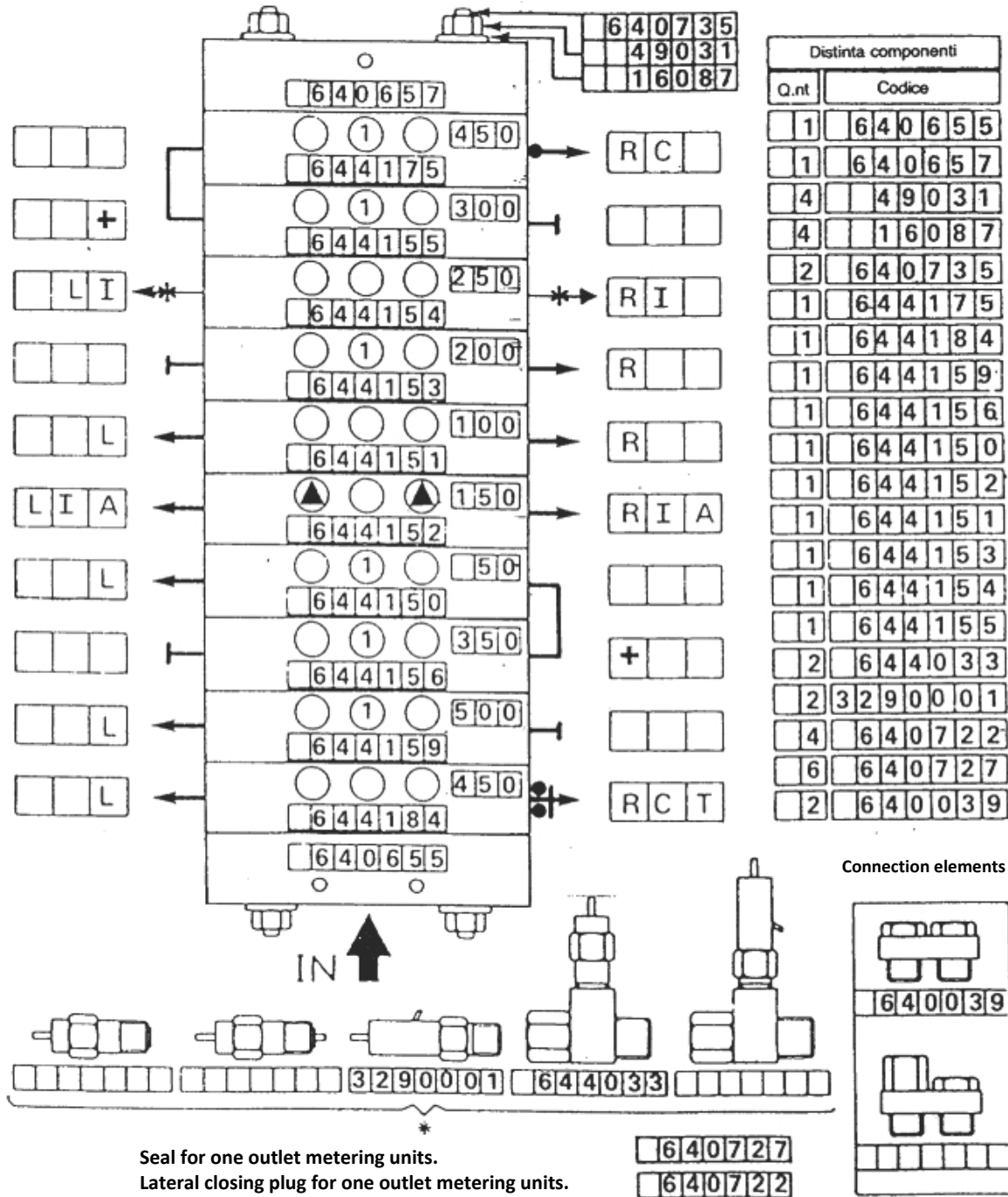
Symbol + shows that the two components are connected by means of a bridge connection. Identification number of the component refers to the number of the metering element given on the catalogue: with the Q value multiplied by 100.

e.g. 150 corresponds to a component with a 1,5 cc metering element.

Serial "SA" Metering Elements

Composition of Serial "SA" Metering Elements Blocks

LISTING DIAGRAM FOR ORDERING A BLOCK MADE OF DIFFERENT PARTS



Seal for one outlet metering units. 640727
 Lateral closing plug for one outlet metering units. 640722

LEGEND

| | | | | | | | |
|--|----|-------------|--|---|--------------------|---|---------------------|
| | CF | Microswitch | | + | Bridge connections | R | Outlet on the right |
| | CC | Reed | | * | Pressure gauge | L | Outlet on the left |
| | C | Rod | | ▲ | Pressure gauge | F | Side closing |

Contacts

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f. +61 (0)2-9938-6611







BRAZIL

Dropsa Remonlub
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f. +55 (0)11-563-19408

Serial "SA" Metering Elements

Order Informations

Use this schedule for prices of assembly units in price list. The assembly unit comprises: inlet element, metering elements, end element, tie rods with nuts and washers.

| CODES TABLE | | | | | | | | | | | |
|---|---|---|--------|--|-------------|---|-------------|---|--------|--------|--------|
| Nut | Washer | Tie rod | | Inlet element | | Metering element | | End element | | | |
|  |  |  | |  | |  | |  | | | |
| QUANTITY FOR GROUP | | | | | | | | | | | |
| 4 | 4 | 2 | | 1 | | Max. 10 | | 1 | | | |
| P. Nr. | P. Nr. | N** eleme nts | P. Nr. | Part Number | | Q cc. | Part Number | | P. Nr. | | |
| | | | | BSP 3/8 | NPTF 3/8 | | BSP 3/8 | NPTF 3/8 | | | |
| 49031 | 16087 | 3 | 640728 | 640655 | 643096 | 0.5 | 644150 | 643450 | 640657 | | |
| | | 4 | 640729 | | | 1 | 644151 | 643451 | | | |
| | | 5 | 640730 | | | 1.5 | 644152 | 643452 | | | |
| | | 6 | 640731 | | | 2 | 644153 | 643453 | | | |
| | | 7 | 640732 | | | 2.5 | 644154 | 643454 | | | |
| | | 8 | 640733 | | | 3 | 644155 | 643455 | | | |
| | | 9 | 640734 | | | 3.5 | 644156 | 643456 | | | |
| | | 10 | 640735 | | | 4 | 644157 | 643457 | | | |
| | | | | | | | | 4.5 | | 644158 | 643458 |
| | | | | | | | | 5 | | 644159 | 643459 |

* N°. metering elements in assembled unit.

SPARE PARTS

Complete set of "O-rings" for:

Inlet element, **Part Number 640813.**

Metering element, **Part Number 640812.**

End element, no sealing rings

Inlet element (Viton), **Part Number 640918.**

Metering element (Viton), **Part Number 640919.**