

# MINI SPOOL VALVES

air operated

ØM5 - G 1/8 - G 1/4 tapped body  
adjustable on joinable subbases

**3/2-5/2-5/3**  
Series  
**519-520-521**

### GENERAL

FLUID : Air or neutral gas, filtered, lubricated or not  
 PORTS : M 5 - G 1/8 - G 1/4  
 ORIFICE Ø : 2,5 - 4 - 6 mm  
 PRESSURE : 0 to 8 bar (1,5 to 8 bar with differential return)  
 PILOT PRESSURE : 1,5 to 8 bar  
 TEMPERATURE : +5 °C, +50 °C  
 FLOW (Qv at 6 bar) : see table below  
 FUNCTIONS : 3/2 - 5/2 - 5/3  
 MOUNTING : individual or on joinable subbases



### CONSTRUCTION

Body in polyamide or light alloy, cover in acetal resin (POM)  
 Internal parts in stainless steel, light alloy and acetal resin (POM)  
 Sealings in nitrile (NBR)

1 = Pressure                      12 = Return  
 2,4 = Outlets                    14 = Pilot  
 3,5 = Exhausts

### SPECIFICATIONS

| Functions  | Symbols | Operators                                      |              | Pipe size | Orifice size (mm) | Flow                 |          | catalogue number |
|------------|---------|--|--------------|-----------|-------------------|----------------------|----------|------------------|
|            |         | Pilot (14)                                     | Return (12)  |           |                   | at 6 bar (l/min) ANR | coef. KV |                  |
| <b>3/2</b> |         | Air  | Differential | G 1/8     | 4                 | 400                  | 5,7      | <b>52000376</b>  |
|            |         | Air  | Spring       | G 1/8     | 4                 | 400                  | 5,7      | <b>52000330</b>  |
| <b>5/2</b> |         | Air  | Differential | M5        | 2,5               | 175                  | 2,5      | <b>51900077</b>  |
|            |         | Air  | Differential | G 1/8     | 4                 | 600                  | 8,5      | <b>52000077</b>  |
|            |         | Air  | Differential | G 1/4     | 6                 | 1050                 | 15       | <b>52100077</b>  |
|            |         | Air  | Air          | M5        | 2,5               | 175                  | 2,5      | <b>51900078</b>  |
| Air        | Air     | G 1/8  | 4            | 600       | 8,5               | <b>52000078</b>      |          |                  |
| Air        | Air     | G 1/4  | 6            | 1050      | 15                | <b>52100078</b>      |          |                  |
| <b>5/3</b> |         | Pressure held<br><b>W 1</b><br>Air operated    |              | G 1/8     | 4                 | 600                  | 8,5      | <b>52000079</b>  |
|            |         | Pressure applied<br><b>W 2</b><br>Air operated |              | G 1/8     | 4                 | 600                  | 8,5      | <b>52000142</b>  |
|            |         | Pressure applied<br><b>W 2</b><br>Air operated |              | G 1/4     | 6                 | 1050                 | 15       | <b>52100142</b>  |
| <b>5/3</b> |         | Pressure release<br><b>W 3</b><br>Air operated |              | G 1/8     | 4                 | 600                  | 8,5      | <b>52000082</b>  |
|            |         | Pressure release<br><b>W 3</b><br>Air operated |              | G 1/4     | 6                 | 1050                 | 15       | <b>52100082</b>  |

### ACCESSORIES

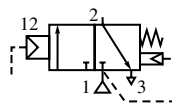
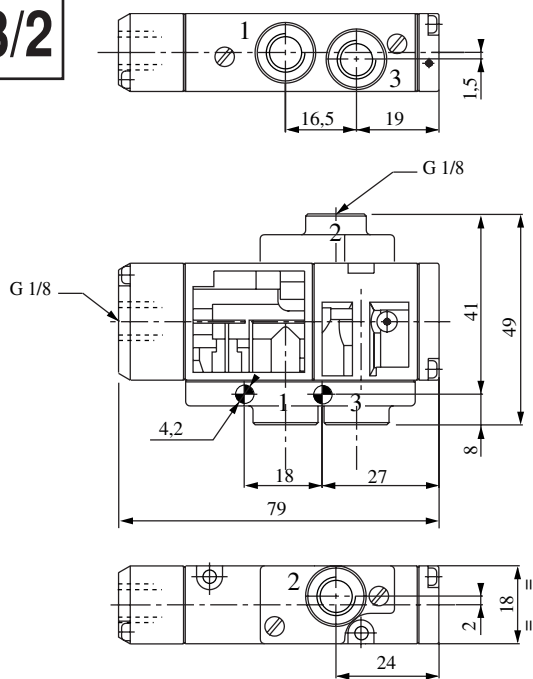
• 520 Series: Flange for ports 2 - 4 with instant fittings for flexible tube, catalogue number **88135532**

**SUBBASES** : Joinable subbases, check the online configurator on: [www.asco.com](http://www.asco.com)

All leaflets are available on: [www.asco.com](http://www.asco.com)

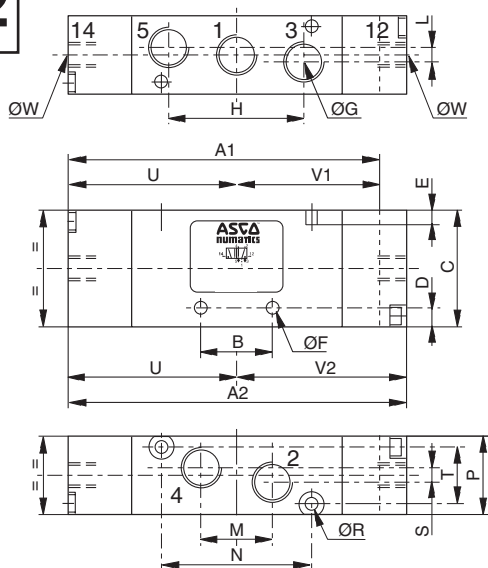
**DIMENSIONS AND WEIGHTS**

**3/2**

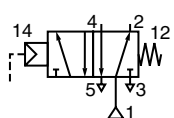


|                |
|----------------|
| <br>520 = 45 g |
|----------------|

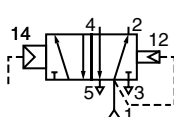
**5/2**



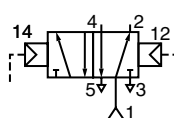
| Series | B   | C  | D  | E   | ØF | ØG  | H    | L    | M | N    | P  | ØR | S   | T | U  | ØW   |      |
|--------|-----|----|----|-----|----|-----|------|------|---|------|----|----|-----|---|----|------|------|
| 5/2    | 519 | 11 | 26 | 4   | 4  | 3,3 | M5   | 21,6 | - | 11   | 19 | 15 | 2,7 | 6 | 11 | 30,5 | M5   |
|        | 520 | 15 | 27 | 6   | 3  | 3,3 | G1/8 | 32,4 | 3 | 16,2 | 35 | 18 | 3,2 | - | 13 | 42,5 | G1/8 |
|        | 521 | 22 | 31 | 6,5 | 4  | 4,3 | G1/4 | 44   | 4 | 22   | 50 | 22 | 4,2 | 4 | 16 | 50   | G1/8 |



| Series | A1  | V1   |
|--------|-----|------|
| 5/2    | 519 | -    |
|        | 520 | 85,3 |
|        | 521 | -    |



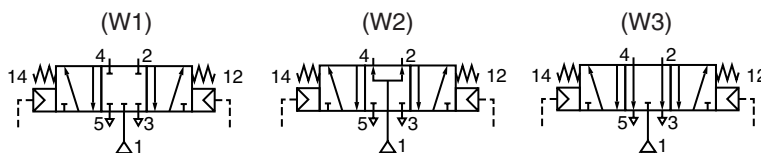
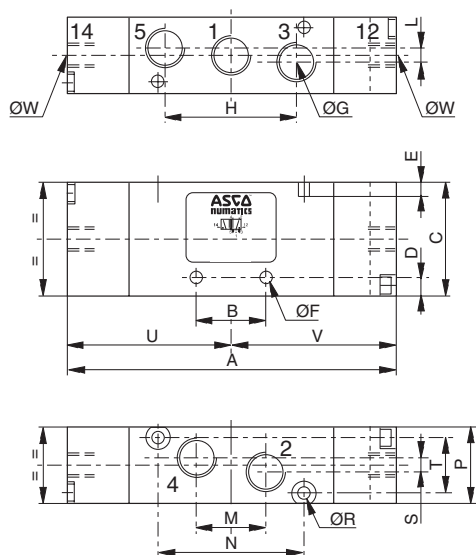
| Series | A1  | V1   |
|--------|-----|------|
| 5/2    | 519 | 55,5 |
|        | 520 | 76   |
|        | 521 | 91,5 |



| Series | A2  | V2  |
|--------|-----|-----|
| 5/2    | 519 | 61  |
|        | 520 | 85  |
|        | 521 | 100 |

|   |
|---|
| <br>519   50 g<br>520   65 g<br>521   110 g |
|---|

**5/3**



| Series | A   | B   | C  | D  | E   | ØF | ØG  | H    | L    | M | N    | P  | ØR | S   | T | U  | V    | ØW   |      |
|--------|-----|-----|----|----|-----|----|-----|------|------|---|------|----|----|-----|---|----|------|------|------|
| 5/3    | 520 | 94  | 15 | 27 | 6   | 3  | 3,3 | G1/8 | 32,4 | 3 | 16,2 | 35 | 18 | 3,2 | - | 13 | 42,5 | 51,5 | G1/8 |
|        | 521 | 109 | 22 | 31 | 6,5 | 4  | 4,3 | G1/4 | 44   | 4 | 22   | 50 | 22 | 4,2 | 4 | 16 | 50   | 59   | G1/8 |

|                               |
|-------------------------------|
| <br>520 = 75 g<br>521 = 120 g |
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