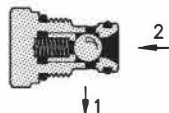
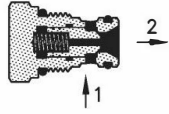


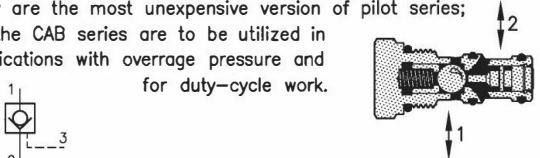
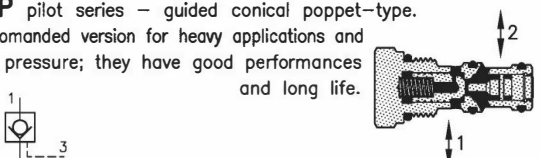
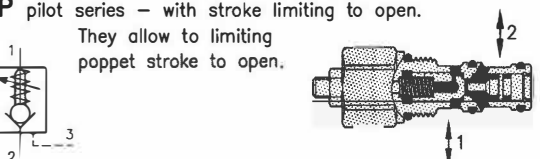
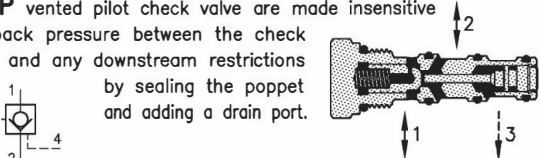
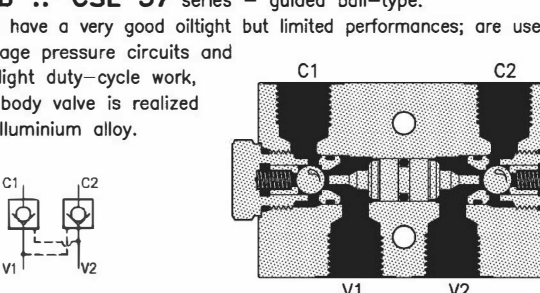
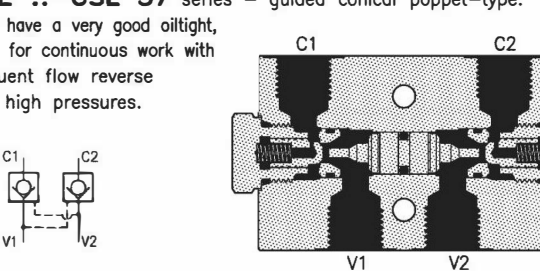
### Check valves.

The check valves are available into two different executions: ball-type and poppet-type.  
The first one is an unexpensive version suitable for light uses, while the second one version with pilot piston offers larger lasting and good oiltight guarantee.

| Main features                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Type             | Q max.<br>(l/min.) | P max.<br>(bar) | Technical<br>schedule |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------|-----------------|-----------------------|
| <b>CB series – ball-type.</b><br>They are little check valves, suitable for easy execution of cavity setting.<br>They have a very good oiltight and are mainly used in pilot systems and hydraulic installations with narrow flows. <div style="display: flex; justify-content: space-around; align-items: center;">   </div> | <b>CB 20/D05</b> | 20                 | 350             | 05.005                |
| <b>CAB series – guided ball-type.</b><br>They have a very good oiltight, are used as by-pass, anti-cavitation valves, on pump's turn or as check valves in circuits with average pressure and for duty-cycle work. <div style="display: flex; justify-content: space-around; align-items: center;">   </div>              | <b>CAB 10</b>    | 2                  | 210             | 05.008                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>CAB 20</b>    | 25                 | 210             | 05.010                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>CAB 30</b>    | 40                 | 210             | 05.020                |
| <b>CAE series – guided conical poppet-type.</b><br>They have a very good oiltight, ideal solution for a continuous service with frequent flows reverse, high pressures and low pressure drop. <div style="display: flex; justify-content: space-around; align-items: center;">   </div>                                   | <b>CAE 20</b>    | 35                 | 420             | 05.050                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>CAE 30</b>    | 60                 | 420             | 05.060                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>CAE 50</b>    | 135                | 420             | 05.070                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>CAE 70</b>    | 300                | 420             | 05.080                |
| <b>EAC series – guided conical poppet-type.</b><br>They have a very good oiltight, ideal solution for a continuous service with frequent flows reverse, high pressures and low pressure drop. <div style="display: flex; justify-content: space-around; align-items: center;">   </div>                                   | <b>EAC 30</b>    | 60                 | 420             | 05.065                |

## Pilot check valves.

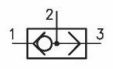
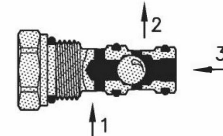
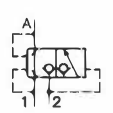
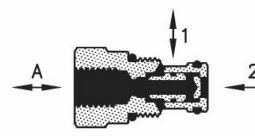
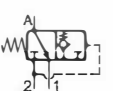
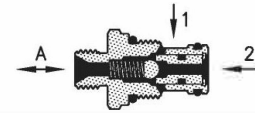
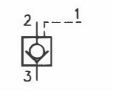
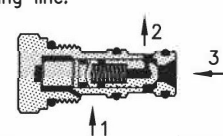
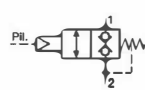
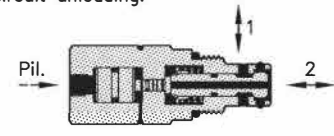
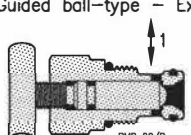
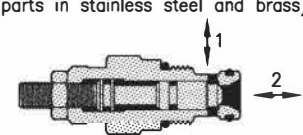
The directional pilot poppet-type valves are available into two executions: poppet-type and ball-type.  
On piloting piston of every valves there is a seal which can be removed by request.  
For pilot ratios and pressure drop see technical detailed schedules.

| Main features                                                                                                                                                                                                                                                                                                                    | Type                 | Q max.<br>(l/min.) | P max.<br>(bar) | Technical<br>schedule |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|-----------------|-----------------------|
| <b>CAT</b> pilot series – guided ball-type.<br>They are the most unexpensive version of pilot series;<br>as the CAB series are to be utilized in<br>applications with overrange pressure and<br>for duty-cycle work.                            | <b>CAT 20</b>        | 20                 | 210             | 05.090                |
|                                                                                                                                                                                                                                                                                                                                  | <b>CAT 30</b>        | 35                 | 210             | 05.091                |
| <b>CAP</b> pilot series – guided conical poppet-type.<br>Recommended version for heavy applications and<br>higt pressure; they have good performances<br>and long life.                                                                         | <b>CAP 20</b>        | 30                 | 350             | 05.100                |
|                                                                                                                                                                                                                                                                                                                                  | <b>CAP 30</b>        | 50                 | 350             | 05.110<br>05.111      |
|                                                                                                                                                                                                                                                                                                                                  | <b>CAP 50</b>        | 100                | 350             | 05.120                |
| <b>CAP</b> pilot series – with stroke limiting to open.<br>They allow to limiting<br>poppet stroke to open.                                                                                                                                   | <b>CAP 20/L</b>      | 30                 | 350             | 05.140                |
| <b>CDP</b> vented pilot check valve are made insensitive<br>at back pressure between the check<br>port and any downstream restrictions<br>by sealing the poppet<br>and adding a drain port.                                                   | <b>CDP 30</b>        | 50                 | 350             | 05.150                |
| <b>CAB ..-CSL 57</b> series – guided ball-type.<br>They have a very good oiltight but limited performances; are used in<br>average pressure circuits and<br>for light duty-cycle work,<br>the body valve is realized<br>in alluminium alloy.  | <b>CAB 20/CSL 57</b> | 20                 | 210             | 05.200                |
|                                                                                                                                                                                                                                                                                                                                  | <b>CAB 30/CSL 57</b> | 35                 | 210             | 05.210                |
| <b>CAE ..-CSL 57</b> series – guided conical poppet-type.<br>They have a very good oiltight,<br>ideal for continuous work with<br>frequent flow reverse<br>and high pressures.                                                                | <b>CAE 20/CSL 57</b> | 30                 | 350             | 05.220                |
|                                                                                                                                                                                                                                                                                                                                  | <b>CAE 30/CSL 57</b> | 50                 | 350             | 05.230                |
|                                                                                                                                                                                                                                                                                                                                  | <b>CAE 50/CSL 57</b> | 100                | 350             | 05.240                |

05\_001

### Shuttle valves.

The shuttle valves are available in different executions and accomplish many circual functions. The guided ball or poppet type guarantees a perfect oiltight; these valves are used in piloting distributors and valves' systems, in hydraulic brakes automatic release system and in unit power.

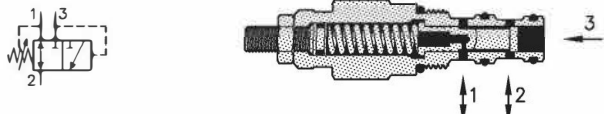
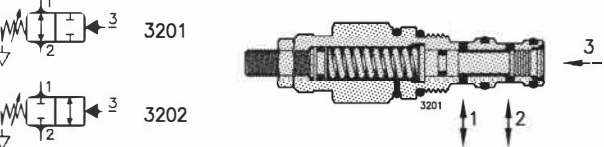
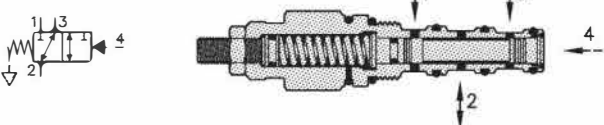
| Main features                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Type                   | Q max.<br>(l/min.) | P max.<br>(bar) | Technical<br>schedule |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|-----------------|-----------------------|
| <b>CCI series – guided ball-type.</b><br>They are shuttle valves with two way-in and one way-out. The high pressure way-in is always automatically connected with the way-out, while the second way-in keeps tight closed. <div>   </div>                                                                                                                                                                 | <b>CCI 20</b>          | 25                 | 350             | 05.300                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>CCI 30</b>          | 50                 | 350             | 05.310                |
| <b>CCE series – guided conical poppet-type.</b><br>They have a very good oiltight, ideal for hydraulic brakes control. The return line of port A always happens through line 1. <div>   </div>                                                                                                                                                                                                          | <b>CCE 20</b>          | 16                 | 210             | 05.320                |
| <b>CDE series – guided poppet-type.</b><br>The shuttle valves and the unloading valves are a very simplify version of directional automatic valve.<br>The inlet flow happens through chamber 2 and flow is automatically sent to port A; when the flow from chamber 2 stops there is the commutation and the retourn line of port A happens through line 1. <div>   </div>                            | <b>CDE 20</b>          | 16                 | 210             | 05.330                |
| <b>CPA series – pilot to closed, guided conical poppet-type.</b><br>They are pilot to closed check valves normally open in one direction; they close when enough pressure is apply on piloting line. <div>   </div>                                                                                                                                                                                   | <b>CPA 30</b>          | 50                 | 350             | 05.350                |
| <b>OCD 32/2202 pneumatic pilot – spring return.</b><br>Directional valves poppet-type for circuit unloading. <div>   </div>                                                                                                                                                                                                                                                                           | <b>OCD 20/2202-PN</b>  | 25                 | 315             | 05.380                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>OCD 20/2202-PN7</b> | 25                 | 315             | 05.385                |
| <b>RMB series.</b> They are manual valves total shut off with conical seat. Also available with handknob control, can be used as choker when a fine regulation is non required. The flow direction is indifferent.<br>(RMB 20/B – Guided ball-type – External parts in stainless steel and brass). <div>    </div> | <b>RMB 20/B</b>        | 50                 | 315             | 05.515                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>RMB 20</b>          | 50                 | 315             | 05.520                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>RMB 30</b>          | 100                | 315             | 05.530                |



**Directional spool-type valves.**

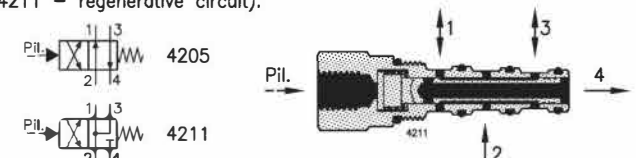
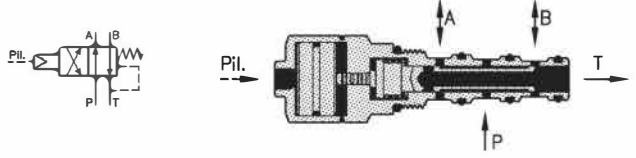
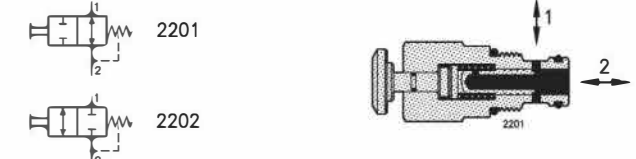
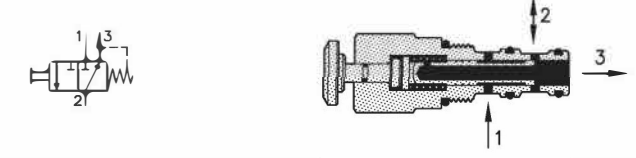
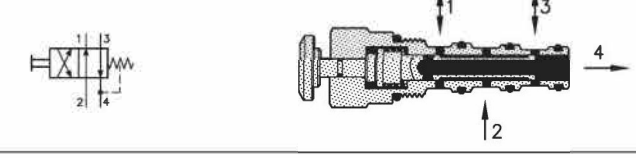
They are spool-type valves thought of to change over automatically the flow direction in relation to piloting.  
Available in two different executions they satisfy many needs simplifying the hydraulic circuits realization.

**05**

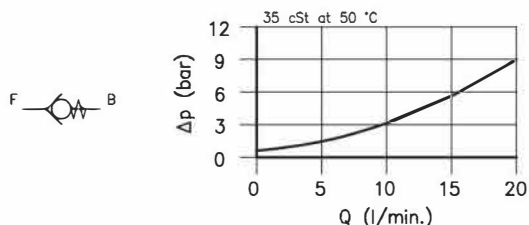
| Main features                                                                                                                                                                                                                                                                                                          | Type               | Q max.<br>(l/min.) | P max.<br>(bar) | Technical<br>schedule |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|-----------------|-----------------------|
| <b>VDT ../3203 series.</b><br>They are a fixed setting version typically used for regenerative circuits realization or as automatic selector valve combined with solenoid poppet-type valves for single acting cylinders control.<br> | <b>VDT 20/3203</b> | 25                 | 350             | 05.600                |
|                                                                                                                                                                                                                                                                                                                        | <b>VDT 30/3203</b> | 50                 | 350             | 05.610                |
|                                                                                                                                                                                                                                                                                                                        | <b>VDT 50/3203</b> | 100                | 350             | 05.620                |
| <b>VDT 20/3203-IB series.</b><br>They are a version which contemplates the regulation for pressure setting.<br>                                                                                                                     | <b>VDT 20/3203</b> | 25                 | 350             | 05.601<br>05.605      |
| <b>VDT ../3306 series.</b><br>Shuttle valves for hydrostatic transmissions in closed circuits.<br>                                                                                                                                  | <b>VDT 30/3306</b> | 40                 | 420             | 05.650                |
| <b>VDT ../32.. series – normally open or closed.</b><br>Hydraulic pilot directional valves adjusting through a connected atmospherical pressure spring, indifferent to circuit's pressure.<br>                                      | <b>VDT 20/3201</b> | 25                 | 350             | 05.670                |
|                                                                                                                                                                                                                                                                                                                        | <b>VDT 30/3201</b> | 50                 | 350             | 05.690                |
|                                                                                                                                                                                                                                                                                                                        | <b>VDT 20/3202</b> | 25                 | 350             | 05.670                |
|                                                                                                                                                                                                                                                                                                                        | <b>VDT 30/3202</b> | 50                 | 350             | 05.690                |
| <b>VDT ../4203 series – shuttle valves.</b><br>Hydraulic pilot directional valves adjusting through a connected atmospherical pressure spring, indifferent to circuit's pressure.<br>                                               | <b>VDT 20/4203</b> | 25                 | 350             | 05.740                |
|                                                                                                                                                                                                                                                                                                                        | <b>VDT 30/4203</b> | 50                 | 350             | 05.750                |

05\_003



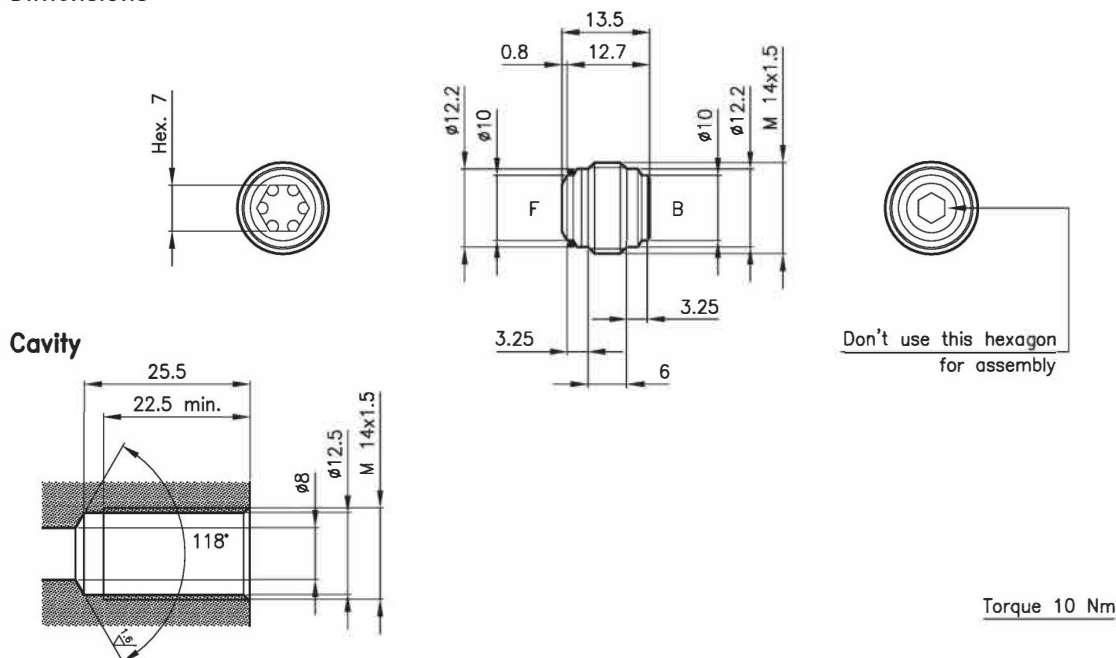
| Main features                                                                                                                                                                                                  | Type                       | Q max.<br>(l/min.) | P max.<br>(bar) | Technical<br>schedule |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------|-----------------|-----------------------|
| <b>VDT ../42.. series.</b><br>Directional shuttle valves with external hydraulic pilot.<br>(4211 – regenerative circuit).<br> | <b>VDT 20/4205</b>         | 20                 | 350             | 05.780                |
|                                                                                                                                                                                                                | <b>VDT 30/4205</b>         | 40                 | 350             | 05.790                |
|                                                                                                                                                                                                                | <b>VDT 20/4211</b>         | 20                 | 350             | 05.780                |
|                                                                                                                                                                                                                | <b>VDT 30/4211</b>         | 40                 | 350             | 05.790                |
| <b>VDT 50/4205 series.</b><br>Directional shuttle valves with external pneumatic pilot.<br>                                   | <b>VDT 50/<br/>4205-PN</b> | 80                 | 315             | 05.798                |
| <b>VDT ../22..-PS series.</b><br>Manual directional control valves.<br>                                                     | <b>VDT 20/<br/>2201-PS</b> | 20                 | 350             | 05.800                |
|                                                                                                                                                                                                                | <b>VDT 30/<br/>2201-PS</b> | 40                 | 350             | 05.802                |
|                                                                                                                                                                                                                | <b>VDT 20/<br/>2202-PS</b> | 20                 | 350             | 05.800                |
|                                                                                                                                                                                                                | <b>VDT 30/<br/>2202-PS</b> | 40                 | 350             | 05.802                |
| <b>VDT ../3204-PS series.</b><br>Manual directional control valves for pressure gauge.<br>                                  | <b>VDT 20/<br/>3204-PS</b> | 20                 | 350             | 05.810                |
| <b>VDT ../4205-PS series.</b><br>Manual directional control valves.<br>                                                     | <b>VDT 30/<br/>4205-PS</b> | 30                 | 350             | 05.830                |
| <b>MTV series.</b><br>Directional shuttle valves with external hydraulic pilots.<br>                                        | <b>MTV 30</b>              | 50                 | 350             | 05.900                |
| Many other circuits are available on request.                                                                                                                                                                  |                            |                    |                 |                       |

### Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see underlying space) | M 14x1.5  |
| Nominal flow                                            | (l/min.)                              | 18        |
| Max. pressure                                           | (bar)                                 | 350       |
| Cracking pressure                                       | (bar)                                 | 1         |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.010     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Buna N                                |                                       |           |

### Dimensions



### Ordering informations

## CB 20/D05-P

**CB 20** = Valve type



**D05** = M 14x1.5

Standard spring

**P** = 1 bar

Codes:

CB 20/D05-P 27 011 100

External O-Ring 90 607 107

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ITALY

**DIRECTIONAL CONTROL TWO WAY CHECK VALVES**

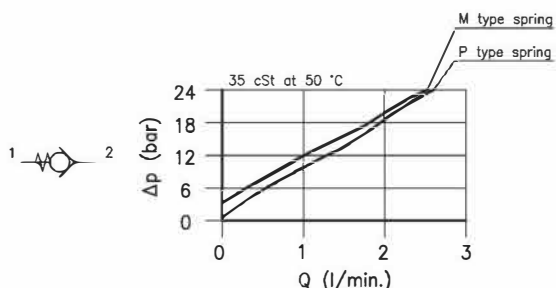
GUIDED BALL-TYPE

**CAB 10/..**

**05.008**

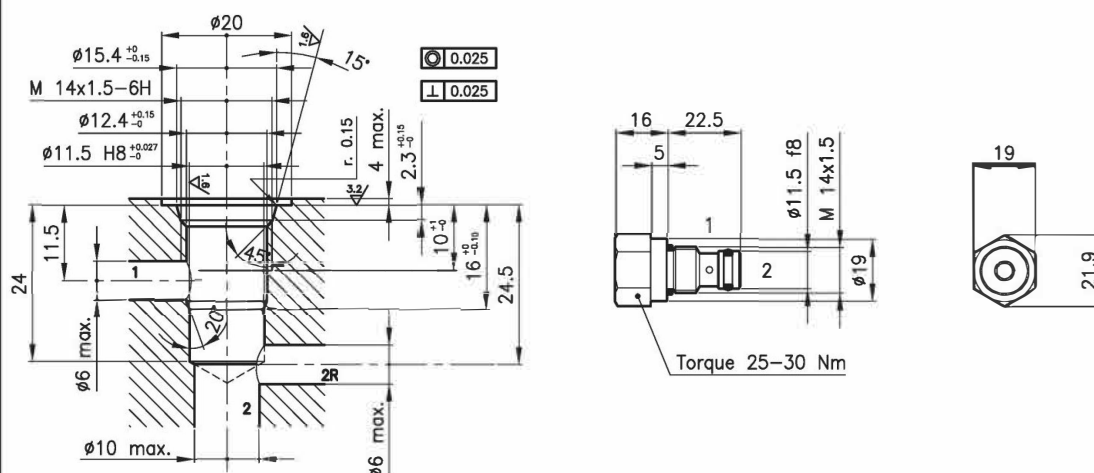
**01.10**

### Technical features



|                                                         |          |           |
|---------------------------------------------------------|----------|-----------|
| Nominal flow                                            | (l/min.) | 2         |
| Max. pressure                                           | (bar)    | 210       |
| Cracking pressure                                       | (bar)    | 0.3-3     |
| Fluid viscosity range                                   | (cSt)    | 2.8 - 380 |
| Fluid temperature range                                 | (°C)     | -20 +80   |
| Mass                                                    | (kg)     | 0.045     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |          |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |          |           |
| Standard seals in Polyurethane and Buna N               |          |           |

### Dimensions



### Ordering informations

**CAB 10/P-1**

**CAB 10** = Valve type



Standard springs

**P** = 0.3 bar

**M** = 3 bar

**1** = Hole Ø1 mm

Codes:

CAB 10/P-1 12 011 100

CAB 10/M-1 12 011 101

External seals kit 90 620 121

CAB 10 valves can be assembled on standard bodies 10-LO series; for dimensions see catalogue 16.010



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ITALY

**DIRECTIONAL CONTROL TWO WAY CHECK VALVES**

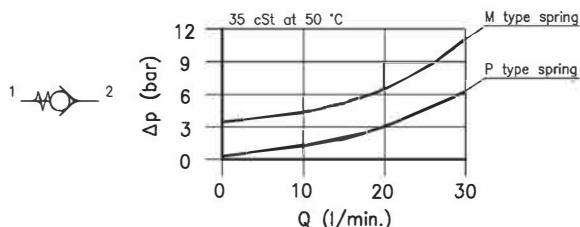
GUIDED BALL-TYPE

**CAB 20/..**

**05.010**

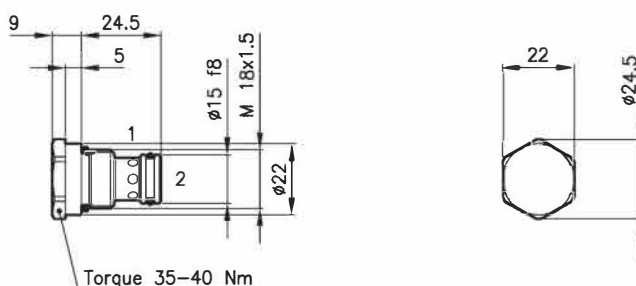
**01.96**

### Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/2    |
| Nominal flow                                            | (l/min.)                              | 25        |
| Max. pressure                                           | (bar)                                 | 210       |
| Cracking pressure                                       | (bar)                                 | 0.35–3.5  |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                 | (°C)                                  | –20 +80   |
| Mass                                                    | (kg)                                  | 0.050     |
| Hydraulic fluid; mineral oil HM and HV                  |                                       | ISO 6074  |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

### Dimensions



### Ordering informations

**CAB 20/M**

**CAB 20** = Valve type



Standard springs

**P** = 0.35 bar

**M** = 3.5 bar

Codes:

CAB 20/P 22 011 100

CAB 20/M 22 011 101

External seals kit 90 620 100

CAB 20 valves can be assembled on standard bodies 20–LO series; for dimensions see catalogue 16.010

**FLUCOM**  
ITALY

**DIRECTIONAL CONTROL TWO WAY CHECK VALVES**

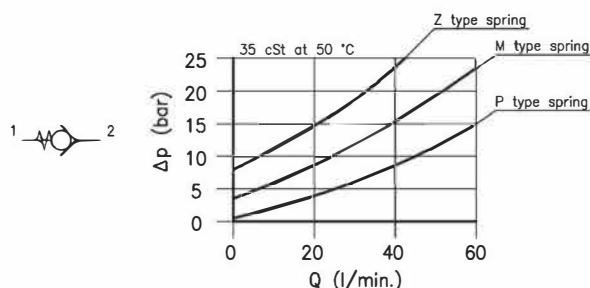
GUIDED BALL-TYPE

**CAB 30/..**

**05.020**

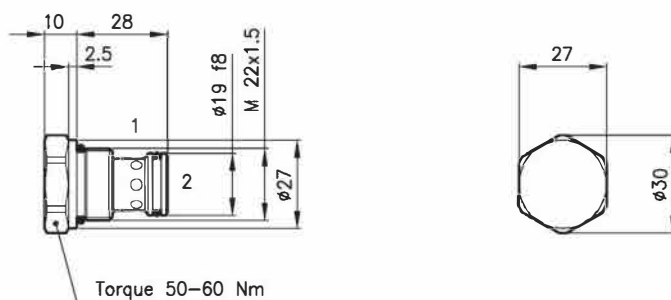
**01.96**

### Technical features



|                                                         |                                       |            |
|---------------------------------------------------------|---------------------------------------|------------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 30/2     |
| Nominal flow                                            | (l/min.)                              | 40         |
| Max. pressure                                           | (bar)                                 | 210        |
| Cracking pressure                                       | (bar)                                 | 0.35–3.5–8 |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380  |
| Fluid temperature range                                 | (°C)                                  | –20 +80    |
| Mass                                                    | (kg)                                  | 0.090      |
| Hydraulic fluid; mineral oil HM and HV                  | ISO 6074                              |            |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |            |
| Standard seals in Polyurethane and Buna N               |                                       |            |

### Dimensions



### Ordering informations

**CAB 30/M**

**CAB 30** = Valve type



Standard springs

**P** = 0.35 bar

**M** = 3.5 bar

**Z** = 8 bar

Codes:

CAB 30/P 32 011 100

CAB 30/M 32 011 101

CAB 30/Z 32 011 123

External seals kit 90 620 103

CAB 30 valves can be assembled on standard bodies 30–LO series; for dimensions see catalogue 16.010

**FLUcom**  
ITALY

**DIRECTIONAL CONTROL TWO WAY CHECK VALVES**

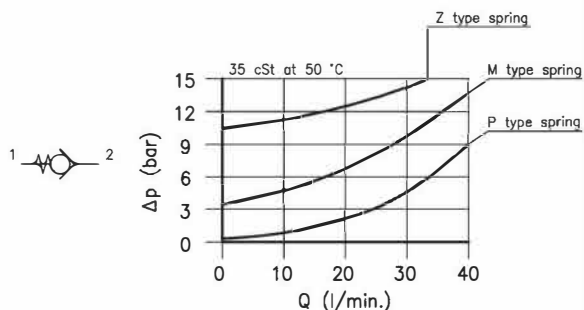
GUIDED POPPET-TYPE

**CAE 20/..**

**05.050**

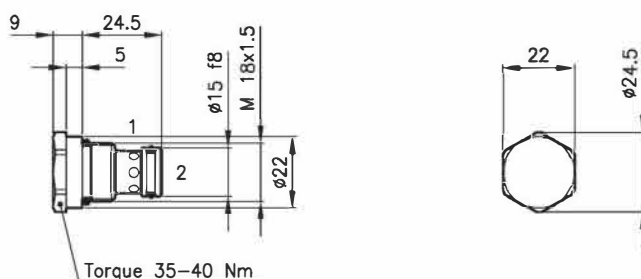
**01.02**

### Technical features



|                                                         |                                       |             |
|---------------------------------------------------------|---------------------------------------|-------------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/2      |
| Nominal flow                                            | (l/min.)                              | 35          |
| Max. pressure                                           | (bar)                                 | 420         |
| Cracking pressure                                       | (bar)                                 | 0.35–3.5–11 |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380   |
| Fluid temperature range                                 | (°C)                                  | –20 +80     |
| Mass                                                    | (kg)                                  | 0.055       |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |             |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |             |
| Standard seals in Polyurethane and Buna N               |                                       |             |

### Dimensions



### Ordering informations

**CAE 20/P**

**CAE 20** = Valve type



Standard springs

**P** = 0.35 bar

**M** = 3.5 bar

**Z** = 11 bar

Codes:

CAE 20/P 22 011 106

CAE 20/M 22 011 107

CAE 20/Z 22 011 164

External seals kit 90 620 100

CAE 20 valves can be assembled  
on standard bodies 20–L0 series;  
for dimensions see catalogue 16.010

**FLUCOM**  
ITALY

**DIRECTIONAL CONTROL TWO WAY CHECK VALVES**

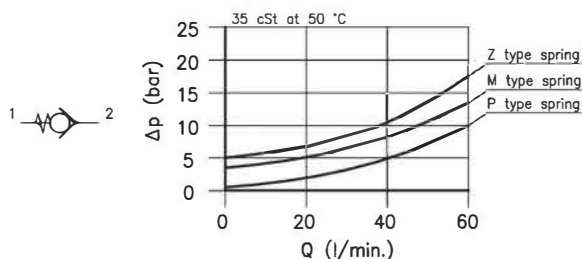
GUIDED POPPET-TYPE

**CAE 30/..**

**05.060**

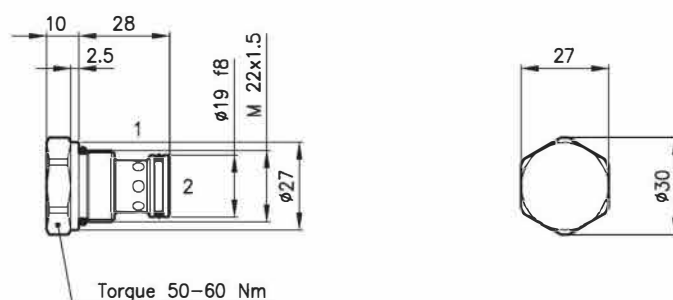
**01.02**

### Technical features



|                                                         |                                       |            |
|---------------------------------------------------------|---------------------------------------|------------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 30/2     |
| Nominal flow                                            | (l/min.)                              | 60         |
| Max. pressure                                           | (bar)                                 | 420        |
| Cracking pressure                                       | (bar)                                 | 0.35–3.5–5 |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380  |
| Fluid temperature range                                 | (°C)                                  | –20 +80    |
| Mass                                                    | (kg)                                  | 0.100      |
| Hydraulic fluid; mineral oil HM and HV                  | ISO 6074                              |            |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |            |
| Standard seals in Polyurethane and Buna N               |                                       |            |

### Dimensions



### Ordering informations

**CAE 30/P**

**CAE 30** = Valve type



Standard springs

**P** = 0.35 bar

**M** = 3.5 bar

**Z** = 5 bar

Codes:

CAE 30/P 32 011 102

CAE 30/M 32 011 103

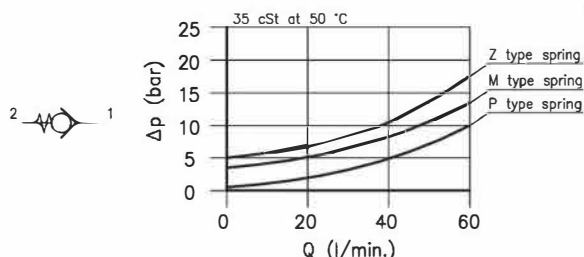
CAE 30/Z 32 011 158

External seals kit 90 620 103

CAE 30 valves can be assembled on standard bodies 30–LO series; for dimensions see catalogue 16.010

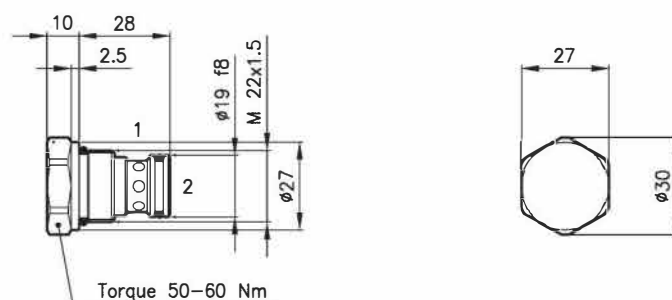


### Technical features



|                                                         |                                       |            |
|---------------------------------------------------------|---------------------------------------|------------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 30/2     |
| Nominal flow                                            | (l/min.)                              | 60         |
| Max. pressure                                           | (bar)                                 | 420        |
| Cracking pressure                                       | (bar)                                 | 0.35–3.5–5 |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380  |
| Fluid temperature range                                 | (°C)                                  | –20 +80    |
| Mass                                                    | (kg)                                  | 0.100      |
| Hydraulic fluid; mineral oil HM and HV                  | ISO 6074                              |            |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |            |
| Standard seals in Polyurethane and Buna N               |                                       |            |

### Dimensions



### Ordering informations

## EAC 30/P

**EAC 30** = Valve type



Standard springs

**P** = 0.35 bar

**M** = 3.5 bar

**Z** = 5 bar

Codes:

EAC 30/P 32 011 176

EAC 30/M 32 011 177

EAC 30/Z 32 011 178

External seals kit 90 620 103

EAC 30 valves can be assembled on standard bodies 30–L0 series; for dimensions see catalogue 16.010

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**DIRECTIONAL CONTROL TWO WAY CHECK VALVES**

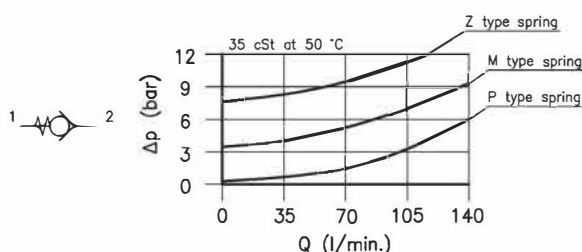
GUIDED POPPET-TYPE

**CAE 50/..**

**05.070**

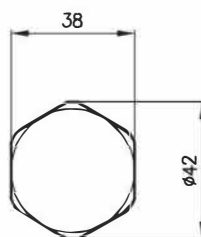
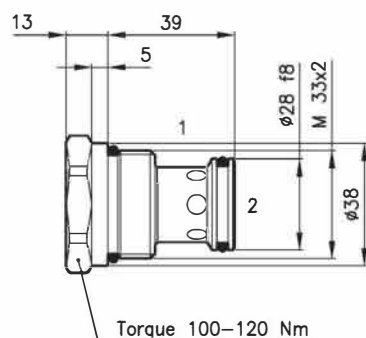
**01.07**

### Technical features



|                                                         |                                       |            |
|---------------------------------------------------------|---------------------------------------|------------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 50/2     |
| Nominal flow                                            | (l/min.)                              | 135        |
| Max. pressure                                           | (bar)                                 | 420        |
| Cracking pressure                                       | (bar)                                 | 0.35–3.5–8 |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380  |
| Fluid temperature range                                 | (°C)                                  | –20 +80    |
| Mass                                                    | (kg)                                  | 0.230      |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |            |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |            |
| Standard seals in Polyurethane and Buna N               |                                       |            |

### Dimensions



### Ordering informations

**CAE 50/P**

**CAE 50** = Valve type



Standard springs

**P** = 0.35 bar

**M** = 3.5 bar

**Z** = 8 bar

Codes:

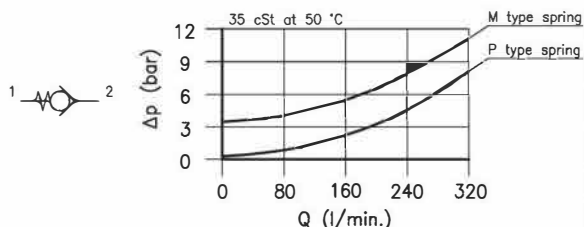
CAE 50/P 52 011 100

CAE 50/M 52 011 101

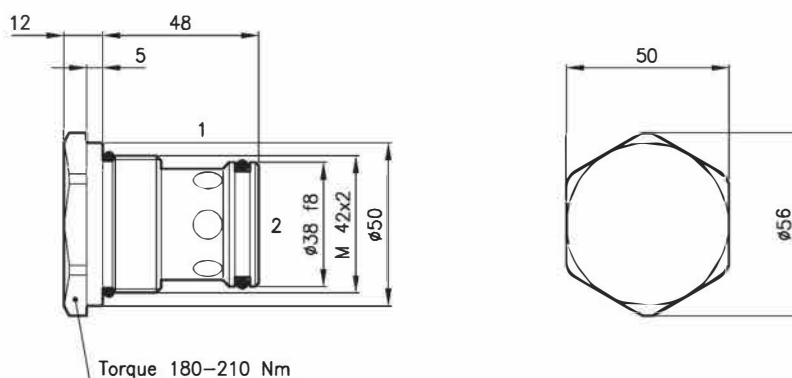
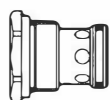
CAE 50/Z 52 011 116

External seals kit 90 620 106

CAE 50 valves can be assembled on standard bodies 50–LO series; for dimensions see catalogue 16.010

**Technical features**


|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 70/2    |
| Nominal flow                                            | (l/min.)                              | 300       |
| Max. pressure                                           | (bar)                                 | 420       |
| Cracking pressure                                       | (bar)                                 | 0.35–3.5  |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                 | (°C)                                  | –20 +80   |
| Mass                                                    | (kg)                                  | 0.480     |
| Hydraulic fluid; mineral oil HM and HV                  | ISO 6074                              |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

**Dimensions**

**Ordering informations**
**CAE 70/P**
**CAE 70** = Valve type


Standard springs

**P** = 0.35 bar

**M** = 3.5 bar

Codes:

CAE 70/P 72 011 100

CAE 70/M 72 011 101

External seals kit 90 620 109

CAE 70 valves can be assembled on standard bodies 70–LO series; for dimensions see catalogue 16.010

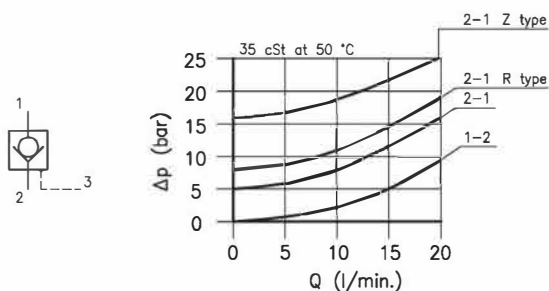
**FLUcom**  
ITALY

**DIRECTIONAL CONTROL THREE WAY CHECK VALVES**  
**PILOT OPERATED GUIDED BALL-TYPE CAT 20/..**

**05.090**

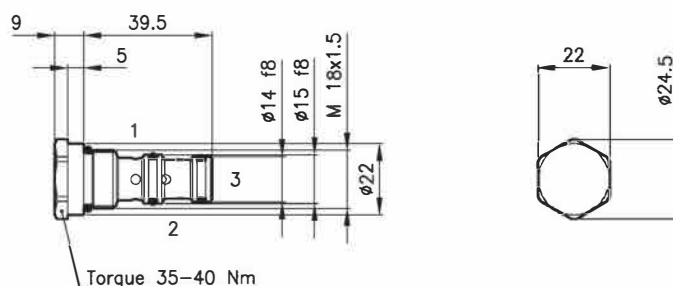
**01.07**

**Technical features**



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/3    |
| Nominal flow                                            | (l/min.)                              | 15        |
| Max. pressure                                           | (bar)                                 | 210       |
| Pilot ratio                                             |                                       | 2.5:1     |
| Pilot volume                                            | (cm <sup>3</sup> )                    | 0.05      |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.060     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

**Dimensions**



**Ordering informations**

**CAT 20/M-S**

**CAT 20** = Valve type



Standard spring

**M** = 5 bar

**R** = 8 bar

**Z** = 17 bar

**S** = Without O-Ring on the pilot piston  
(Omit in Standard version)

Codes:

|                    |            |
|--------------------|------------|
| CAT 20/M           | 22 011 120 |
| CAT 20/M-S         | 22 011 121 |
| CAT 20/R           | 22 011 168 |
| CAT 20/R-S         | 22 011 169 |
| CAT 20/Z           | 22 011 161 |
| CAT 20/Z-S         | 22 011 162 |
| External seals kit | 90 620 101 |

CAT 20 valves can be assembled  
on standard bodies 20-C3 series;  
for dimensions see catalogue 16.010

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ITALY

**DIRECTIONAL CONTROL THREE WAY CHECK VALVES**

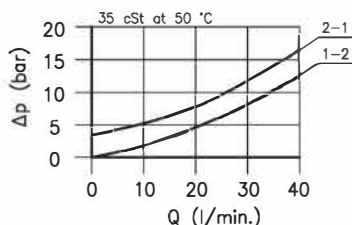
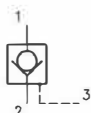
PILOT OPERATED GUIDED BALL-TYPE

**CAT 30/..**

**05.091**

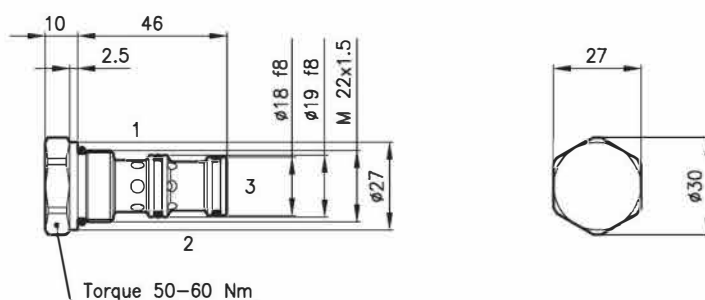
**01.96**

### Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 30/3    |
| Nominal flow                                            | (l/min.)                              | 30        |
| Max. pressure                                           | (bar)                                 | 210       |
| Pilot ratio                                             |                                       | 2.5:1     |
| Pilot volume                                            | (cm <sup>3</sup> )                    | 0.10      |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.110     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

### Dimensions



### Ordering informations

**CAT 30/M-S**

**CAT 30** = Valve type



Standard spring

**M** = 3.5 bar

**S** = Without O-Ring on the pilot piston  
(Omit in Standard version)

Codes:

CAT 30/M 32 011 124

CAT 30/M-S 32 011 125

External seals kit 90 620 104

CAT 30 valves can be assembled  
on standard bodies 30-C3 series;  
for dimensions see catalogue 16.010



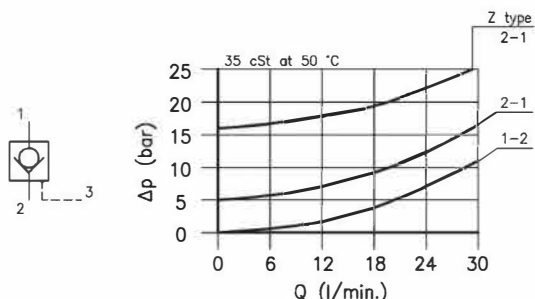
**FLUCOM**  
ITALY

**DIRECTIONAL CONTROL THREE WAY CHECK VALVES**  
**PILOT OPERATED GUIDED POPPET-TYPE CAP 20/..**

**05.100**

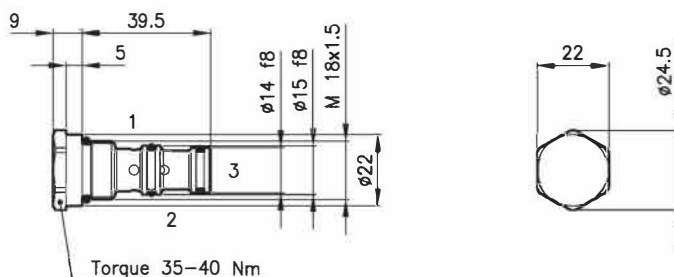
**01.02**

**Technical features**



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/3    |
| Nominal flow                                            | (l/min.)                              | 25        |
| Max. pressure                                           | (bar)                                 | 350       |
| Pilot ratio                                             |                                       | 2.5:1     |
| Pilot volume                                            | (cm <sup>3</sup> )                    | 0.05      |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.065     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

**Dimensions**



**Ordering informations**

**CAP 20/M-S**

**CAP 20** = Valve type



Standard spring

**M** = 5 bar

**Z** = 17 bar

**S** = Without O-Ring on the pilot piston  
(Omit in Standard version)

Codes:

|                    |            |
|--------------------|------------|
| CAP 20/M           | 22 011 104 |
| CAP 20/M-S         | 22 011 105 |
| CAP 20/Z           | 22 011 145 |
| CAP 20/Z-S         | 22 011 163 |
| External seals kit | 90 620 101 |

CAP 20 valves can be assembled  
on standard bodies 20-C3 series;  
for dimensions see catalogue 16.010

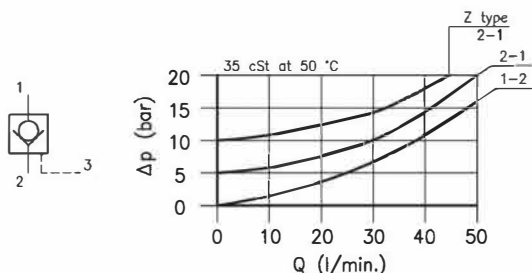
**FLUcom**  
ITALY

**DIRECTIONAL CONTROL THREE WAY CHECK VALVES**  
**PILOT OPERATED GUIDED POPPET-TYPE CAP 30/..**

**05.110**

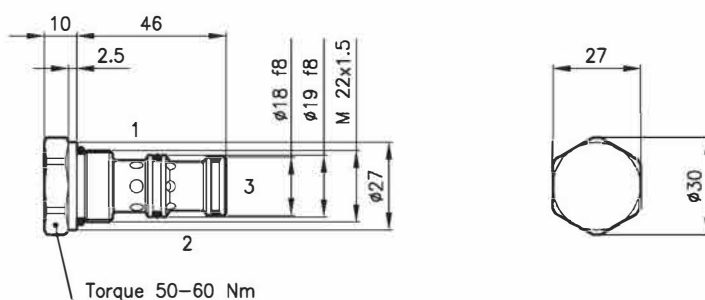
**01.02**

**Technical features**



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 30/3    |
| Nominal flow                                            | (l/min.)                              | 40        |
| Max. pressure                                           | (bar)                                 | 350       |
| Pilot ratio                                             |                                       | 2.5:1     |
| Pilot volume                                            | (cm <sup>3</sup> )                    | 0.10      |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.120     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

**Dimensions**



**Ordering informations**

**CAP 30/M-S**

**CAP 30** = Valve type



Standard spring

**M** = 5 bar

**Z** = 10 bar

**S** = Without O-Ring on the pilot piston  
(Omit in Standard version)

Codes:

|                    |            |
|--------------------|------------|
| CAP 30/M           | 32 011 104 |
| CAP 30/M-S         | 32 011 105 |
| CAP 30/Z           | 32 011 146 |
| CAP 30/Z-S         | 32 011 155 |
| External seals kit | 90 620 104 |

CAP 30 valves can be assembled  
on standard bodies 30-C3 series;  
for dimensions see catalogue 16.010

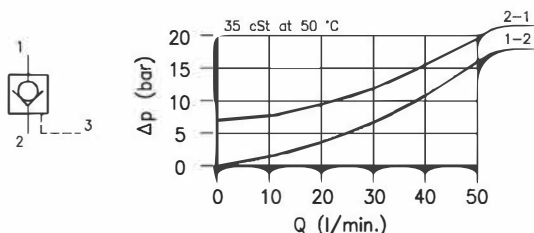
**FLUCOM**  
ITALY

**DIRECTIONAL CONTROL THREE WAY CHECK VALVES**  
**PILOT OPERATED GUIDED POPPET-TYPE CAP 30/3.4**

**05.111**

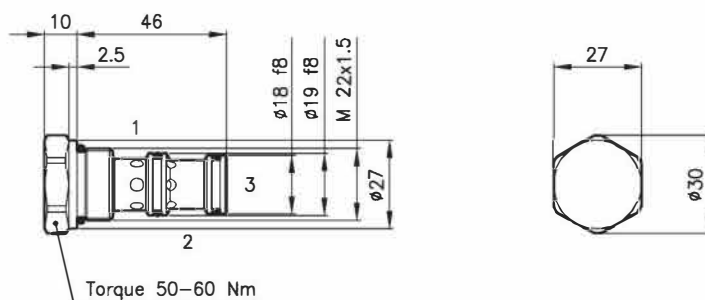
**01.02**

**Technical features**



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 30/3    |
| Nominal flow                                            | (l/min.)                              | 40        |
| Max. pressure                                           | (bar)                                 | 350       |
| Pilot ratio                                             |                                       | 3.4:1     |
| Pilot volume                                            | (cm <sup>3</sup> )                    | 0.10      |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.120     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

**Dimensions**



**Ordering informations**

**CAP 30/M-3.4-S**

**CAP 30** = Valve type



Standard spring

**M** = 7 bar

**3.4** = Pilot ratio 3.4:1

**S** = Without O-Ring on the pilot piston  
(Omit in Standard version)

Codes:

CAP 30/M-3.4 32 011 156

CAP 30/M-3.4-S 32 011 157

External seals kit 90 620 104

CAP 30 valves can be assembled  
on standard bodies 30-C3 series;  
for dimensions see catalogue 16.010

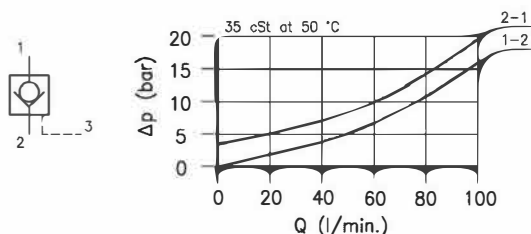
**FLUCOM**  
ITALY

**DIRECTIONAL CONTROL THREE WAY CHECK VALVES**  
PILOT OPERATED GUIDED POPPET-TYPE **CAP 50/..**

**05.120**

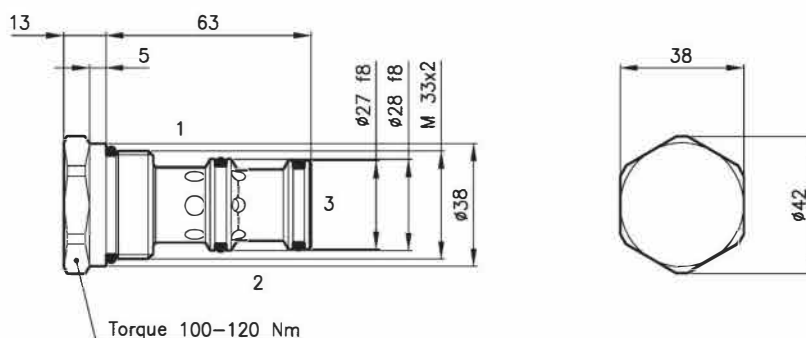
**01.96**

### Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 50/3    |
| Nominal flow                                            | (l/min.)                              | 80        |
| Max. pressure                                           | (bar)                                 | 350       |
| Pilot ratio                                             |                                       | 2.5:1     |
| Pilot volume                                            | (cm <sup>3</sup> )                    | 0.25      |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.260     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

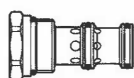
### Dimensions



### Ordering informations

**CAP 50/M-S**

**CAP 50** = Valve type



Standard spring

**M** = 3.5 bar

**S** = Without O-Ring on the pilot piston  
(Omit in Standard version)

Codes:

|                    |            |
|--------------------|------------|
| CAP 50/M           | 52 011 103 |
| CAP 50/M-S         | 52 011 104 |
| External seals kit | 90 620 107 |

CAP 50 valves can be assembled  
on standard bodies 50-C3 series;  
for dimensions see catalogue 16.010

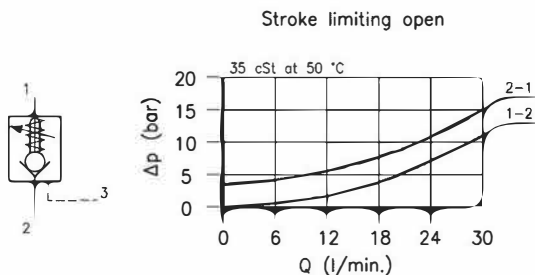
**FLUcom**  
ITALY

**DIRECTIONAL CONTROL** THREE WAY CHECK VALVES  
PILOT OPERATED GUIDED POPPET-TYPE **CAP 20/..-L**  
WITH STROKE LIMITING TO OPEN

05.140

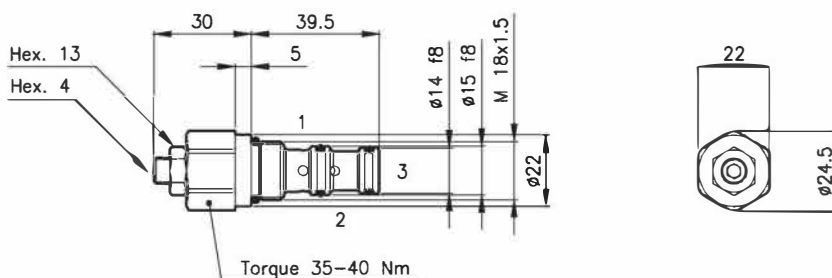
01.19

### Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/3    |
| Nominal flow                                            | (l/min.)                              | 25        |
| Max. pressure                                           | (bar)                                 | 350       |
| Pilot ratio                                             |                                       | 2.5:1     |
| Pilot volume                                            | (cm <sup>3</sup> )                    | 0.05      |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.110     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

### Dimensions



### Ordering informations

**CAP 20/M-L-S**

**CAP 20** = Valve type



Standard spring

**M** = 3.5 bar

**L** = Stroke limiting to open 

**S** = Without O-Ring on the pilot piston  
(Omit in Standard version)

Codes:

CAP 20/M-L 22 011 160  
CAP 30/M-L-S 32 011 233

External seals kit 90 620 101

CAP 20 valves can be assembled  
on standard bodies 20-C3 series;  
for dimensions see catalogue 16.010

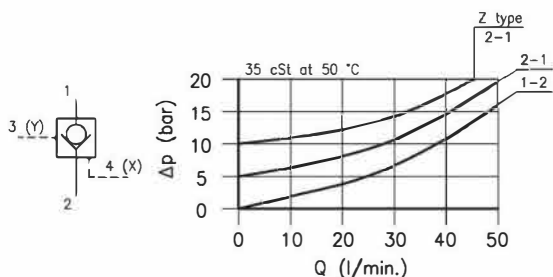
**FLUCOM**  
ITALY

**DIRECTIONAL CONTROL** CHECK VALVES PILOT OPERATED  
WITH DRAIN GUIDED POCKET-TYPE **CDP 30/..**

**05.150**

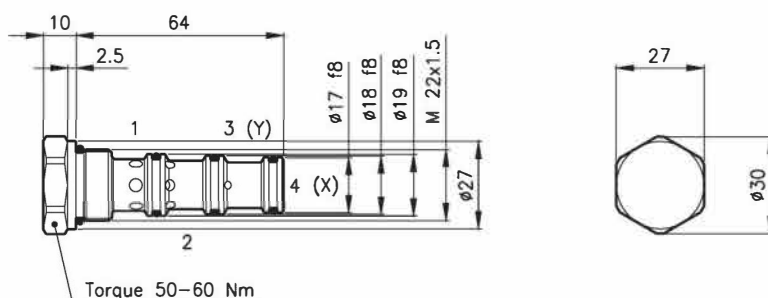
**01.19**

### Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 30/4    |
| Nominal flow                                            | (l/min.)                              | 40        |
| Max. pressure                                           | (bar)                                 | 350       |
| Pilot ratio                                             |                                       | 2.5:1     |
| Pilot volume                                            | (cm <sup>3</sup> )                    | 0.10      |
| Max. drain in 3 (Y)                                     | (cm <sup>3</sup> /l)                  | 15        |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.130     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

### Dimensions



### Ordering informations

#### CDP 30/M-S

**CDP 30** = Valve type



Standard spring

**M** = 5 bar

**Z** = 10 bar

**S** = Without O-Ring on the pilot piston  
(Omit in Standard version)

Codes:

CDP 30/M 32 011 143  
CDP 30/M-S 32 011 144

CDP 30/Z 32 011 152  
CDP 30/Z-S 32 011 231

External seals kit 90 620 105

CDP 30 valves can be assembled  
on standard bodies 30-C4 series;  
for dimensions see catalogue 16.011



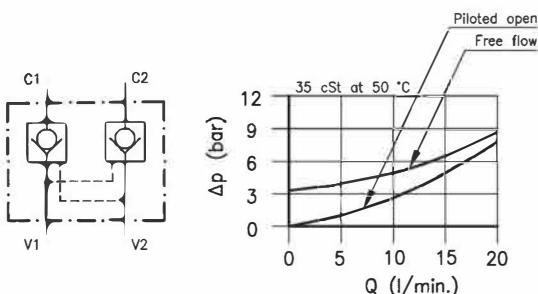
**FLUcom**  
ITALY

**PILOT OPERATED CHECK VALVES DOUBLE-ACTING**  
**CAB 20/M-CSL 57**  
IN-LINE MOUNTING

**05.200**

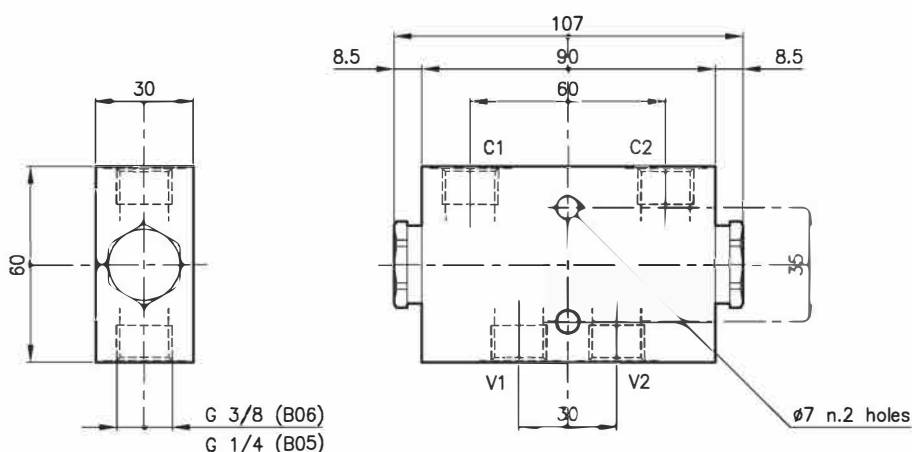
**01.96**

**Technical features**



| Valves                                                  | (For features see catalogue 05.010) | CAB 20/M  |
|---------------------------------------------------------|-------------------------------------|-----------|
| Nominal flow                                            | (l/min.)                            | 15        |
| Max. pressure                                           | (bar)                               | 210       |
| Pilot ratio                                             |                                     | 5:1       |
| Pilot volume                                            | (cm <sup>3</sup> )                  | 0.30      |
| Fluid viscosity range                                   | (cSt)                               | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                | -20 +80   |
| Mass                                                    | (kg)                                | 0.550     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                     |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                     |           |
| Standard seals in Polyurethane and Buna N               |                                     |           |

**Dimensions**



**Ordering informations**

**CAB 20/M-S-CSL 57-B06**

Valves type

Standard spring

**M** = 3.5 bar

**S** = Without O-Ring on the pilot piston (Omit in Standard version)

Version

Standard ports

**B05** = G 1/4 ISO 228

**B06** = G 3/8 ISO 228

Codes:

CAB 20/M-CSL 57-B05 22 011 124

CAB 20/M-CSL 57-B06 22 011 125

CAB 20/M-S-CSL 57-B05 22 011 126

CAB 20/M-S-CSL 57-B06 22 011 127

Only body codes:

Body type 20-CSL 57-B05 28 144 112

Body type 20-CSL 57-B06 28 144 113

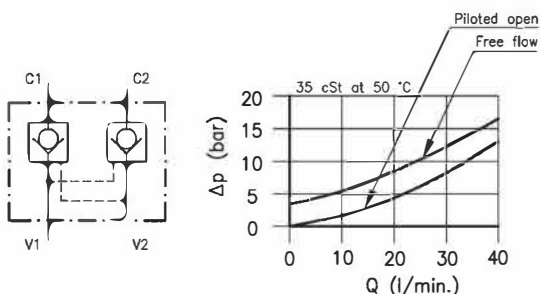
**FLUcom**  
ITALY

**PILOT OPERATED CHECK VALVES DOUBLE-ACTING**  
**IN-LINE MOUNTING CAB 30/M-CSL 57**

**05.210**

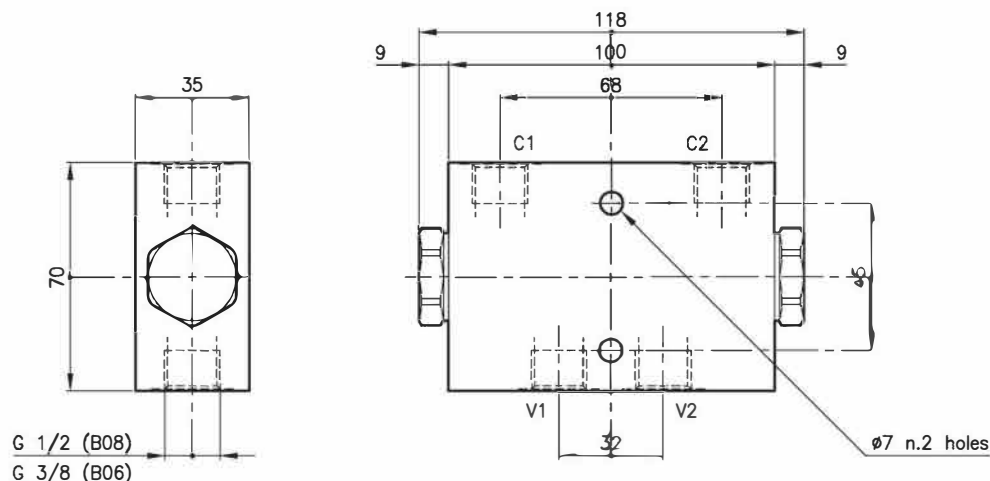
**01.96**

**Technical features**



| Valves                                                  | (For features see catalogue 05.020) | CAB 30/M  |
|---------------------------------------------------------|-------------------------------------|-----------|
| Nominal flow                                            | (l/min.)                            | 30        |
| Max. pressure                                           | (bar)                               | 210       |
| Pilot ratio                                             |                                     | 5:1       |
| Pilot volume                                            | (cm <sup>3</sup> )                  | 0.80      |
| Fluid viscosity range                                   | (cSt)                               | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                | -20 +80   |
| Mass                                                    | (kg)                                | 0.870     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                     |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                     |           |
| Standard seals in Polyurethane and Buna N               |                                     |           |

**Dimensions**



**Ordering informations**

**CAB 30/M-S-CSL 57-B08**

Valves type

Standard spring

**M** = 3.5 bar

**S** = Without O-Ring on  
the pilot piston  
(Omit in Standard version)

Version

Standard ports

**B06** = G 3/8 ISO 228

**B08** = G 1/2 ISO 228

Codes:

CAB 30/M-CSL 57-B06 32 011 130

CAB 30/M-CSL 57-B08 32 011 131

CAB 30/M-S-CSL 57-B06 32 011 132

CAB 30/M-S-CSL 57-B08 32 011 133

Only body codes:

Body type 30-CSL 57-B06 38 144 106

Body type 30-CSL 57-B08 38 144 107

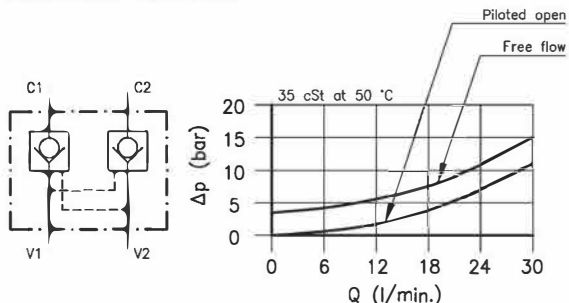
**FLUcom**  
ITALY

**PILOT OPERATED CHECK VALVES DOUBLE-ACTING**  
IN-LINE MOUNTING  
STEEL BODY

**05.220**

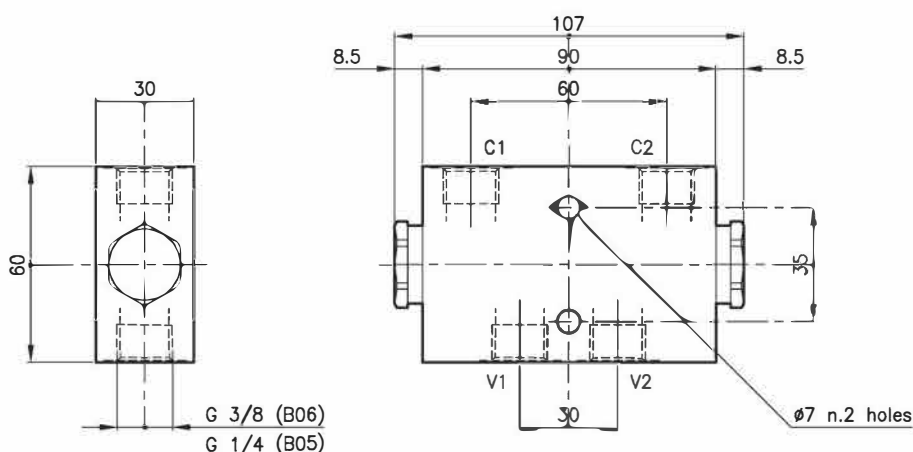
**01.98**

**Technical features**



| Valves                                                 | (For features see catalogue 05.050) | CAE 20/M  |
|--------------------------------------------------------|-------------------------------------|-----------|
| Nominal flow                                           | (l/min.)                            | 25        |
| Max. pressure                                          | (bar)                               | 350       |
| Pilot ratio                                            |                                     | 5:1       |
| Pilot volume                                           | (cm <sup>3</sup> )                  | 0.30      |
| Fluid viscosity range                                  | (cSt)                               | 2.8 - 380 |
| Fluid temperature range                                | (°C)                                | -20 +80   |
| Mass                                                   | (kg)                                | 1.370     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074        |                                     |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolute) |                                     |           |
| Standard seals in Polyurethane and Buna N              |                                     |           |

**Dimensions**



**Ordering informations**

**CAE 20/M-S-CSL 57-B06**

Valves type

Standard spring

**M** = 3.5 bar

**S** = Without O-Ring on the pilot piston (Omit in Standard version)

Version

Standard ports

**B05** = G 1/4 ISO 228

**B06** = G 3/8 ISO 228

Codes:

CAE 20/M-CSL 57-B05 22 011 118

CAE 20/M-CSL 57-B06 22 011 119

CAE 20/M-S-CSL 57-B05 22 011 122

CAE 20/M-S-CSL 57-B06 22 011 123

Only body codes:

Body type 20-CSL 57-B05/FE 28 144 125

Body type 20-CSL 57-B06/FE 28 144 126

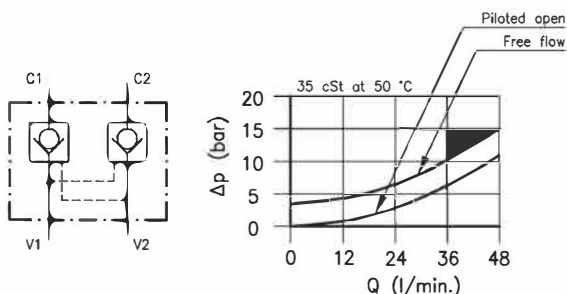
**FLUcom**  
ITALY

**PILOT OPERATED CHECK VALVES DOUBLE-ACTING**  
IN-LINE MOUNTING  
STEEL BODY  
**CAE 30/M-CSL 57**

**05.230**

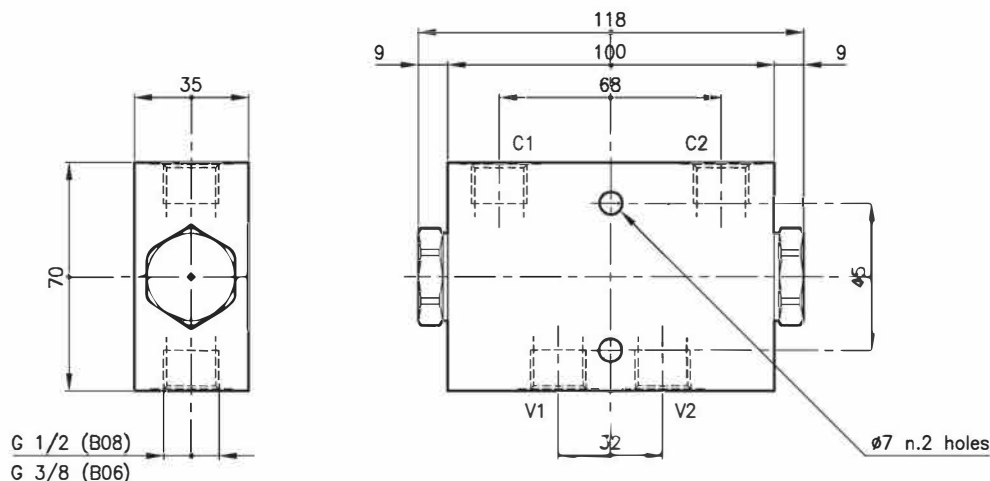
**01.98**

**Technical features**



| Valves                                                  | (For features see catalogue 05.060) | CAE 30/M  |
|---------------------------------------------------------|-------------------------------------|-----------|
| Nominal flow                                            | (l/min.)                            | 40        |
| Max. pressure                                           | (bar)                               | 350       |
| Pilot ratio                                             |                                     | 5:1       |
| Pilot volume                                            | (cm <sup>3</sup> )                  | 0.80      |
| Fluid viscosity range                                   | (cSt)                               | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                | -20 +80   |
| Mass                                                    | (kg)                                | 2.100     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                     |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                     |           |
| Standard seals in Polyurethane and Buna N               |                                     |           |

**Dimensions**



**Ordering informations**

**CAE 30/M-S-CSL 57-B08**

Valves type

Standard spring

**M** = 3.5 bar

**S** = Without O-Ring on the pilot piston  
(Omit in Standard version)

Version

Standard ports

**B06** = G 3/8 ISO 228

**B08** = G 1/2 ISO 228

Codes:

CAE 30/M-CSL 57-B06 32 011 126

CAE 30/M-CSL 57-B08 32 011 127

CAE 30/M-S-CSL 57-B06 32 011 128

CAE 30/M-S-CSL 57-B08 32 011 129

Only body codes:

Body type 30-CSL 57-B06/FE 38 144 180

Body type 30-CSL 57-B08/FE 38 144 181

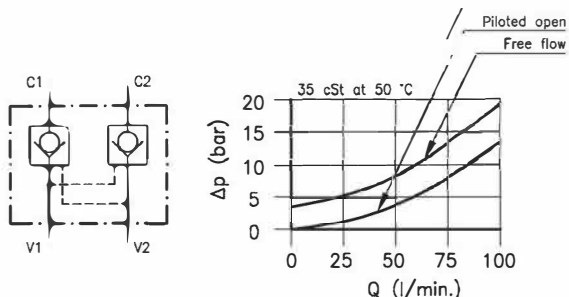
**FLUcom**  
ITALY

**PILOT OPERATED CHECK VALVES DOUBLE-ACTING**  
IN-LINE MOUNTING  
STEEL BODY  
**CAE 50/M-CSL 57**

**05.240**

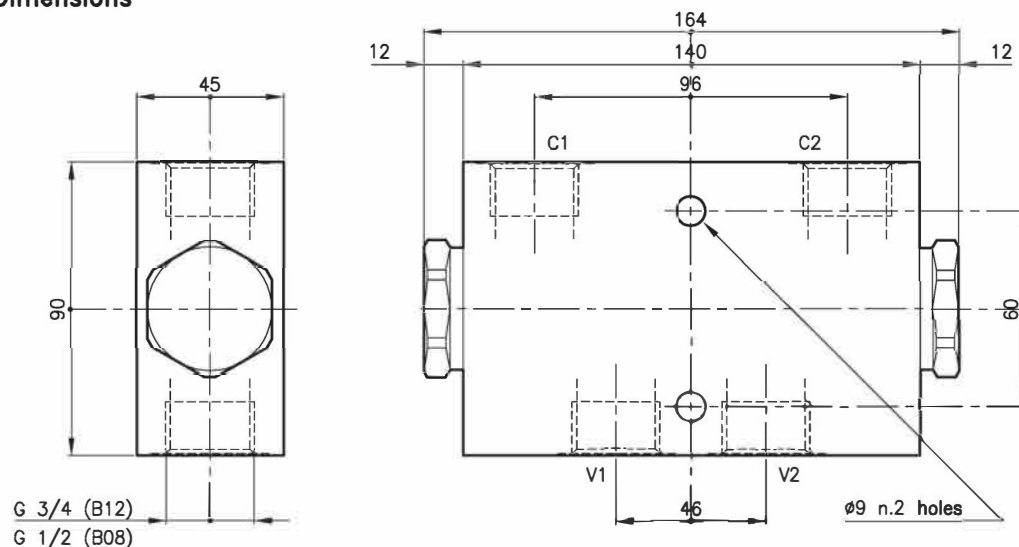
**01.98**

**Technical features**



| Valves                                                  | (For features see catalogue 05.070) | CAE 50/M  |
|---------------------------------------------------------|-------------------------------------|-----------|
| Nominal flow                                            | (l/min.)                            | 80        |
| Max. pressure                                           | (bar)                               | 350       |
| Pilot ratio                                             |                                     | 5:1       |
| Pilot volume                                            | (cm <sup>3</sup> )                  | 1.60      |
| Fluid viscosity range                                   | (cSt)                               | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                | -20 +80   |
| Mass                                                    | (kg)                                | 4.880     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                     |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                     |           |
| Standard seals in Polyurethane and Buna N               |                                     |           |

**Dimensions**



**Ordering informations**

**CAE 50/M-S-CSL 57-B12**

Valves type

Standard spring

**M** = 3.5 bar

**S** = Without O-Ring on the pilot piston (Omit in Standard version)

Version

Standard ports

**B08** = G 1/2 ISO 228

**B12** = G 3/4 ISO 228

Codes:

CAE 50/M-CSL 57-B08 52 011 106

CAE 50/M-CSL 57-B12 52 011 107

CAE 50/M-S-CSL 57-B08 52 011 108

CAE 50/M-S-CSL 57-B12 52 011 109

Only body codes:

Body type 50-CSL 57-B08/FE 58 144 111

Body type 50-CSL 57-B12/FE 58 144 112

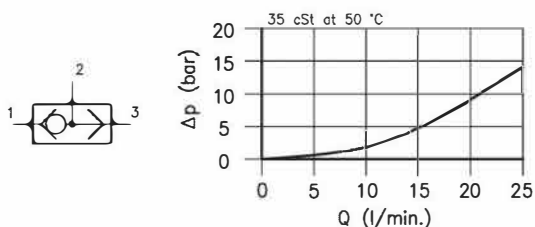
**FLUcom**  
ITALY

**DIRECTIONAL CONTROL** THREE WAY SHUTTLE VALVES  
GUIDED BALL-TYPE **CCI 20/..**

**05.300**

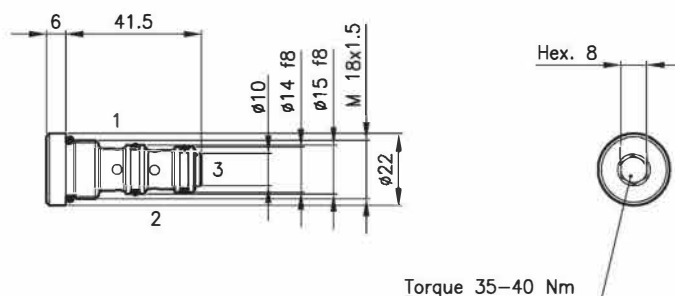
**01.07**

### Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/3    |
| Nominal flow                                            | (l/min.)                              | 20        |
| Max. pressure                                           | (bar)                                 | 350       |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.065     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

### Dimensions



### Ordering informations

**CCI 20**

CCI 20 = Valve type



Codes:

CCI 20 22 011 102

External seals kit 90 620 101

CCI 20 valves can be assembled  
on standard bodies 20-C3 series;  
for dimensions see catalogue 16.010



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ITALY

**DIRECTIONAL CONTROL** THREE WAY SHUTTLE VALVES

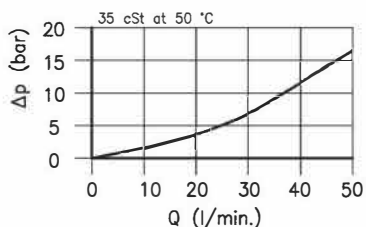
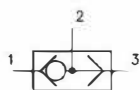
GUIDED BALL-TYPE

**CCI 30/..**

**05.310**

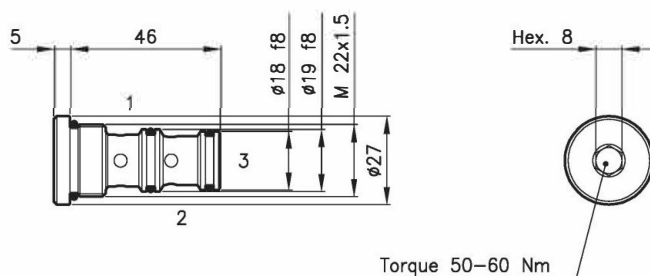
**01.96**

### Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 30/3    |
| Nominal flow                                            | (l/min.)                              | 40        |
| Max. pressure                                           | (bar)                                 | 350       |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                 | (°C)                                  | –20 +80   |
| Mass                                                    | (kg)                                  | 0.120     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

### Dimensions



### Ordering informations

**CCI 30**

CCI 30 = Valve type



Codes:

CCI 30 32 011 112

External seals kit 90 620 104

CCI 30 valves can be assembled on standard bodies 30–C3 series; for dimensions see catalogue 16.010

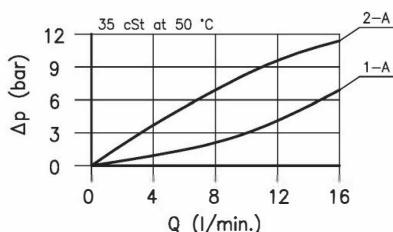
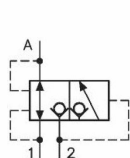
**FLUCOM**  
ITALY

**DIRECTIONAL CONTROL** THREE WAY SHUTTLE VALVES  
GUIDED POPPET-TYPE **CCE 20/..**

**05.320**

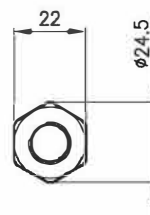
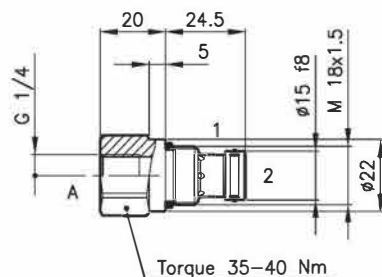
**01.97**

### Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/2    |
| Nominal flow                                            | (l/min.)                              | 12        |
| Max. pressure                                           | (bar)                                 | 210       |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.060     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

### Dimensions



### Ordering informations

**CCE 20/B05**

**CCE 20** = Valve type



Cartridge port

**B05** = G 1/4 Standard

Codes:

CCE 20/B05 22 011 103

External seals kit 90 620 100

CCE 20 valves can be assembled on standard bodies 20-LO series; for dimensions see catalogue 16.010

**FLUcom**  
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**DIRECTIONAL CONTROL THREE WAY SHUTTLE VALVES**

GUIDED POPPET-TYPE

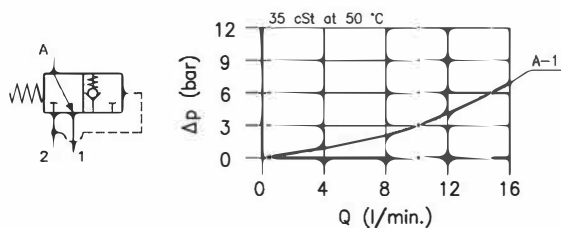
**CDE 20/..**

**05.330**

**01.07**

**Technical features**

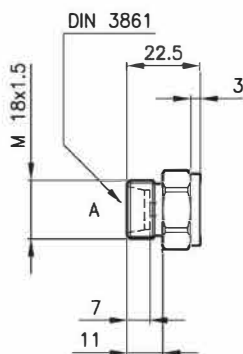
The inlet flow happens through chamber 2 and flow is automatically sent to port A; when the flow from chamber 2 stops there is the commutation and the return line of port A happens through line 1.



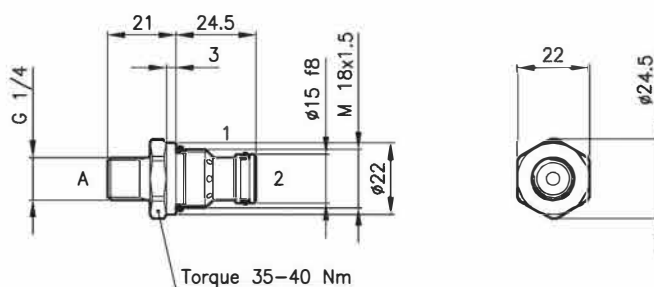
|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/2    |
| Nominal flow                                            | (l/min.)                              | 12        |
| Max. pressure                                           | (bar)                                 | 210       |
| Cracking pressure                                       | (bar)                                 | 14        |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.055     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

**Dimensions**

**D06-DIN3861**



**B05**



**Ordering informations**

**CDE 20/B05-M**

**CDE 20** = Valve type



Cartridge port

**B05** = G 1/4 Standard

**D06-DIN3861** = M 18x1.5 - DIN 3861

Standard spring

**M** = 14 bar

Codes:

CDE 20/B05-M 22 011 116

CDE 20/D06-DIN3861-M 22 011 184

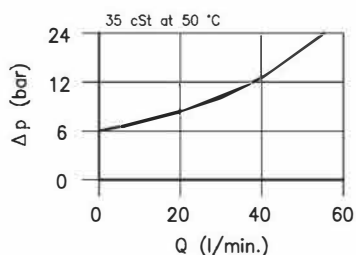
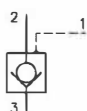
External seals kit 90 620 100

CCE 20 valves can be assembled on standard bodies 20-LO series; for dimensions see catalogue 16.010

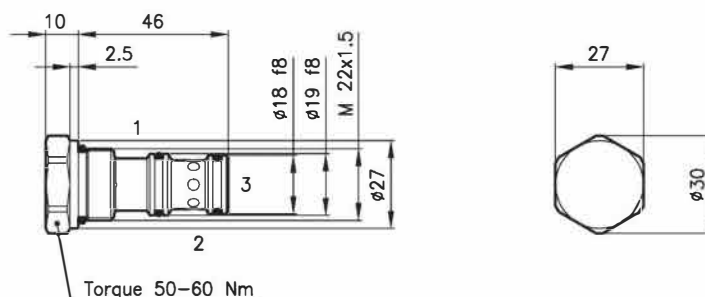
**Technical features**

The CPA 30 are pilot to closed check valves normally open in one direction; they close when enough pressure is apply on piloting line.

They are used as directional valves especially for regenerative circuit.



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 30/3    |
| Nominal flow                                            | (l/min.)                              | 40        |
| Max. pressure                                           | (bar)                                 | 350       |
| Pilot ratio                                             |                                       | 1.9:1     |
| Pilot volume                                            | (cm <sup>3</sup> )                    | 0.28      |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.130     |
| O-Ring on pilot piston                                  |                                       |           |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

**Dimensions**


Torque 50-60 Nm

**Ordering informations**
**CPA 30/Z**

CPA 30 = Valve type



Standard spring

Z = 6 bar

Codes:

CPA 30/Z 32 011 122

External seals kit 90 620 104

CPA 30 valves can be assembled on standard bodies 30-C3 series; for dimensions see catalogue 16.010

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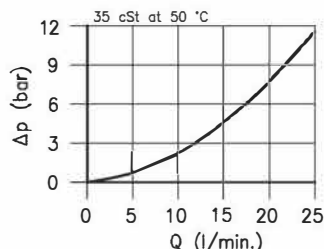
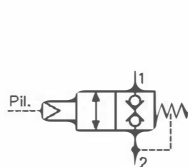
# DIRECTIONAL VALVES POPPET-TYPE

PNEUMATIC PILOT – SPRING RETURN **OCD 20/2202-PN**

**05.380**

**01.09**

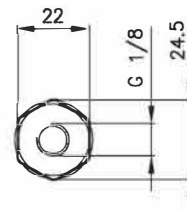
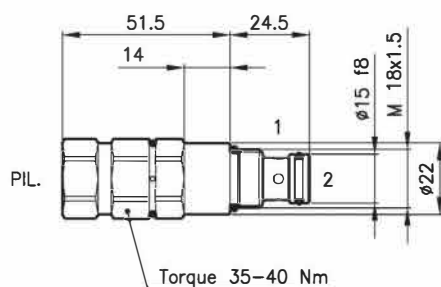
## Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/2    |
| Max. flow                                               | (l/min.)                              | 25        |
| Max. pressure                                           | (bar)                                 | 315       |
| Pilot pressure (min.)                                   | (bar)                                 | 2.5 – 4.5 |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.170     |
| Hydraulic fluid; mineral oil HM and HV                  | ISO 6074                              |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

## Dimensions

Pressure of chamber 2 influences the necessary pilot pressure for valve's drive (pilot ratio 3:1).



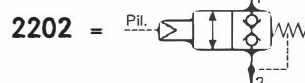
## Ordering informations

### OCD 20/2202-PN

**OCD 20** = Valve type



Circuit



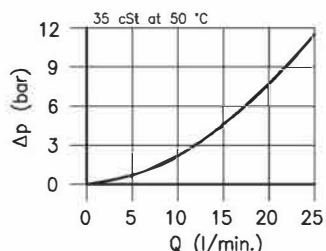
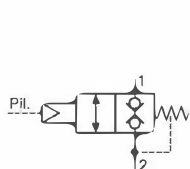
PNEUMATIC Pilot = 2.5 – 4.5 bar

Codes:

OCD 20/2202-PN 22 011 199

External seals kit 90 620 100

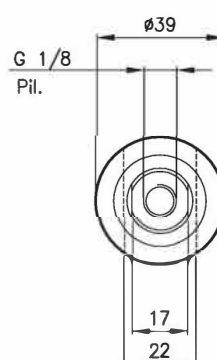
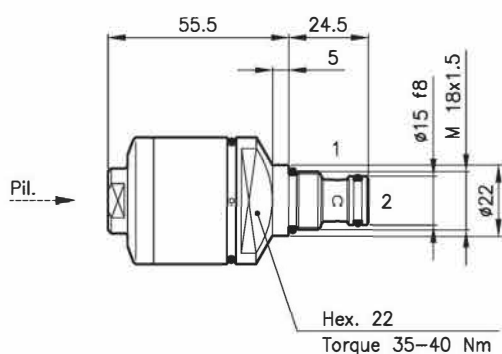
OCD 20/22.. valves can be assembled on standard bodies 20-L0 series; for dimensions see catalogue 16.010

**Technical features**


|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/2    |
| Max. flow                                               | (l/min.)                              | 25        |
| Max. pressure way 1                                     | (bar)                                 | 315       |
| Max. pressure way 2                                     | (bar)                                 | 50        |
| Pilot pressure (min.)                                   | (bar)                                 | 7         |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.320     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

**Dimensions**

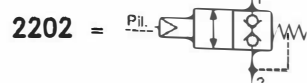
Pressure of chamber 2 influences the necessary pilot pressure for valve's drive (pilot ratio 20:1).


**Ordering informations**
**OCD 20/2202-PN7**

**OCD 20** = Valve type



Circuit



PNEUMATIC Pilot = 7 bar

Codes:

OCD 20/2202-PN7 22 011 198

External seals kit 90 620 100

OCD 20/22.. valves can be assembled on standard bodies 20-L0 series; for dimensions see catalogue 16.010



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## DIRECTIONAL CONTROL SHUT OFF

TWO WAY BIDIRECTIONAL

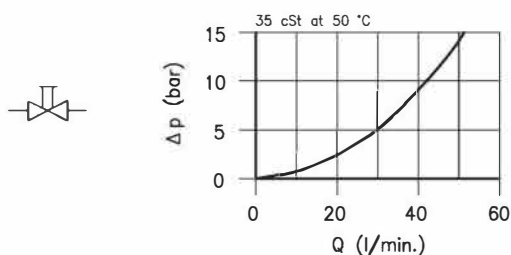
**RMB 20/B**

05.515

01.02

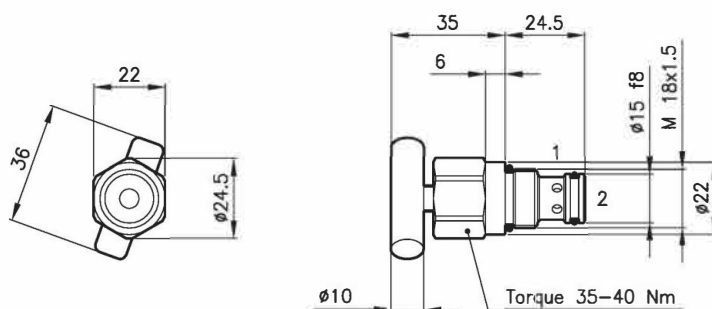
### Technical features

The RMB 20/B are manual valves total shut off – guided ball-type. They are normally used as interceptor or by-pass for manual override.  
The flow direction is indifferent.



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/2    |
| Nominal flow                                            | (l/min.)                              | 40        |
| Max. pressure                                           | (bar)                                 | 315       |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                 | (°C)                                  | –20 +80   |
| Mass                                                    | (kg)                                  | 0.110     |
| Leakage when closed                                     | Total shut off                        |           |
| Hydraulic fluid; mineral oil HM and HV                  | ISO 6074                              |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

### Dimensions



Handknob and screw adjustment realized in stainless steel.  
External exagon realized in brass.

### Ordering informations

**RMB 20/B**

RMB 20 = Valve type



Adjustment type

B = Handknob adjustment



Codes:

RMB 20/B 22 011 146

External seals kit 90 620 100

RMB 20/B valves can be assembled on standard bodies 20–LO series; for dimensions see catalogue 16.010

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## DIRECTIONAL CONTROL SHUT OFF

TWO WAY BIDIRECTIONAL

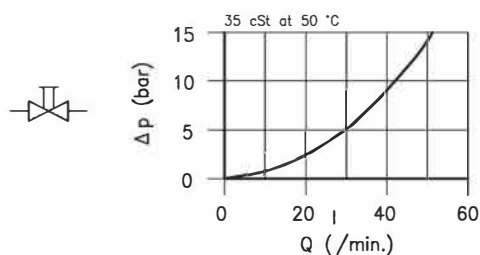
**RMB 20**

**05.520**

**01.07**

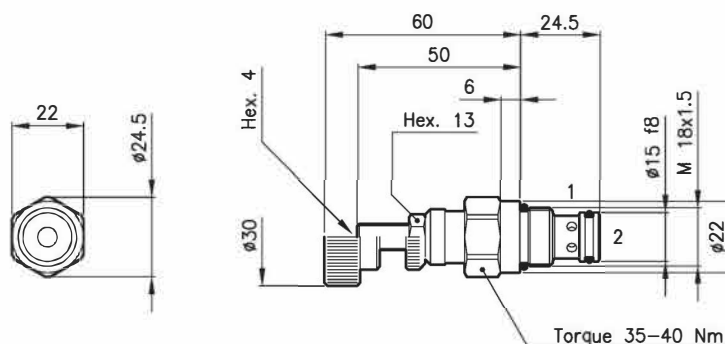
### Technical features

The RMB 20 are manual valves total shut off with conical seat. They are normally used as interceptor or by-pass for manual override. The flow direction is indifferent.



|                                                        |                                       |           |
|--------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                 | (For dimensions see catalogue 17.000) | S 20/2    |
| Nominal flow                                           | (l/min.)                              | 40        |
| Max. pressure                                          | (bar)                                 | 315       |
| Fluid viscosity range                                  | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                | (°C)                                  | -20 +80   |
| Mass                                                   | (kg)                                  | 0.120     |
| Leakage when closed                                    | Total shut off                        |           |
| Hydraulic fluid; mineral oil HM and HV                 | ISO 6074                              |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolute) |                                       |           |
| Standard seals in Polyurethane and Buna N              |                                       |           |

### Dimensions



### Ordering informations

#### RMB 20/V

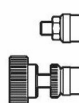
**RMB 20** = Valve type



Adjustment type

**N** = Standard adjustment

**V** = Handknob adjustment



Codes:

RMB 20/N 22 011 112

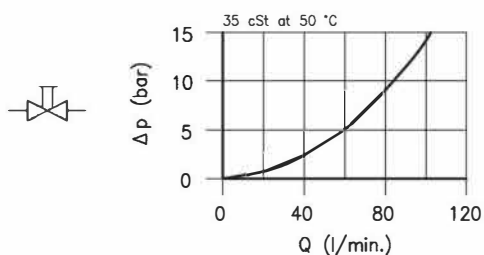
RMB 20/V 22 011 111

External seals kit 90 620 100

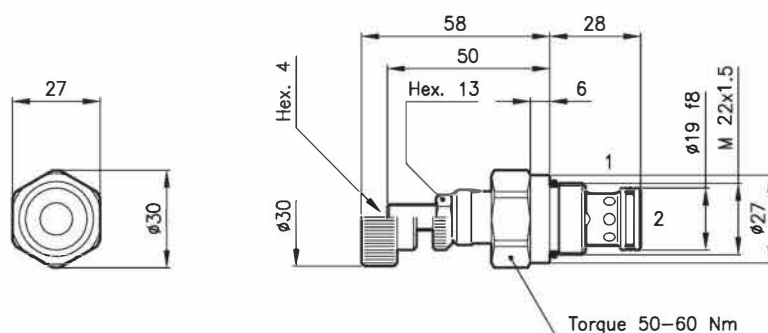
RMB 20 valves can be assembled on standard bodies 20-LO series; for dimensions see catalogue 16.010

**Technical features**

The RMB 30 are manual valves total shut off with conical seat. They are normally used as interceptor or by-pass for manual override.  
The flow direction is indifferent.



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 30/2    |
| Nominal flow                                            | (l/min.)                              | 70        |
| Max. pressure                                           | (bar)                                 | 315       |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.160     |
| Leakage when closed                                     | Total shut off                        |           |
| Hydraulic fluid; mineral oil HM and HV                  | ISO 6074                              |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

**Dimensions**

**Ordering informations**
**RMB 30/V**
**RMB 30** = Valve type


Adjustment type

**N** = Standard adjustment

**V** = Handknob adjustment


Codes:

RMB 30/N 32 011 141

RMB 30/V 32 011 140

External seals kit 90 620 103

RMB 30 valves can be assembled on standard bodies 30-LO series; for dimensions see catalogue 16.010

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# DIRECTIONAL SPOOL-TYPE VALVES

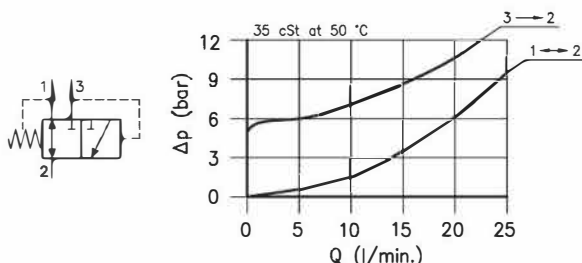
THREE WAY INTERNAL PILOT

**VDT 20/3203**

**05.600**

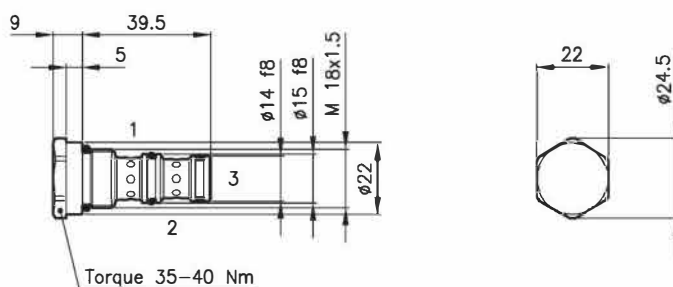
**01.96**

## Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/3    |
| Nominal flow                                            | (l/min.)                              | 20        |
| Max. pressure                                           | (bar)                                 | 350       |
| Activation spool pressure                               | (bar)                                 | 6         |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.060     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

## Dimensions



## Ordering informations

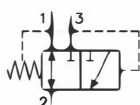
**VDT 20/3203**

**VDT 20** = Valve type



Circuit

**3203** =



Codes:

VDT 20/3203 22 011 113

External seals kit 90 620 101

VDT 20 valves can be assembled  
on standard bodies 20-C3 series;  
for dimensions see catalogue 16.010

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# DIRECTIONAL SPOOL-TYPE VALVES

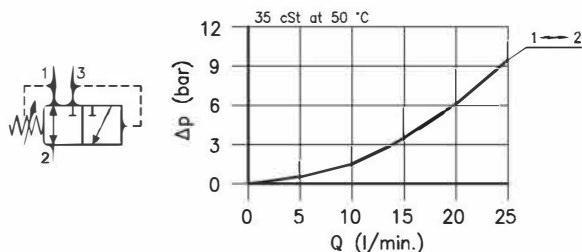
THREE WAY INTERNAL PILOT

**VDT 20/3203-IB**

05.601

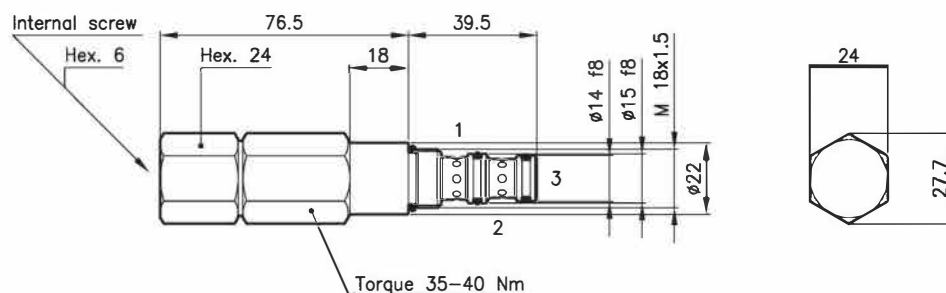
01.96

## Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/3    |
| Nominal flow                                            | (l/min.)                              | 20        |
| Max. pressure                                           | (bar)                                 | 350       |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.220     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

## Dimensions



## Ordering informations

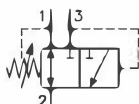
### VDT 20/3203-D-IB

VDT 20 = Valve type



Circuit

3203 =



Standard springs

| Type | Setting range  | Factory set |
|------|----------------|-------------|
| U    | = 20 - 50 bar  | 35 bar      |
| D    | = 35 - 105 bar | 70 bar      |
| T    | = 70 - 175 bar | 120 bar     |

Adjustment type

IB = Special adjustment



Codes:

|                    |            |
|--------------------|------------|
| VDT 20/3203-U-IB   | 22 011 136 |
| VDT 20/3203-D-IB   | 22 011 137 |
| VDT 20/3203-T-IB   | 22 011 138 |
| External seals kit | 90 620 101 |

VDT 20 valves can be assembled on standard bodies 20-C3 series; for dimensions see catalogue 16.010

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# DIRECTIONAL SPOOL-TYPE VALVES

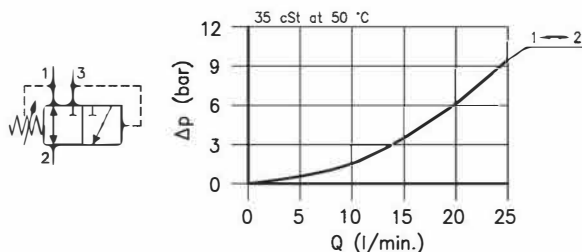
THREE WAY INTERNAL PILOT

**VDT 20/3203-N**

05.605

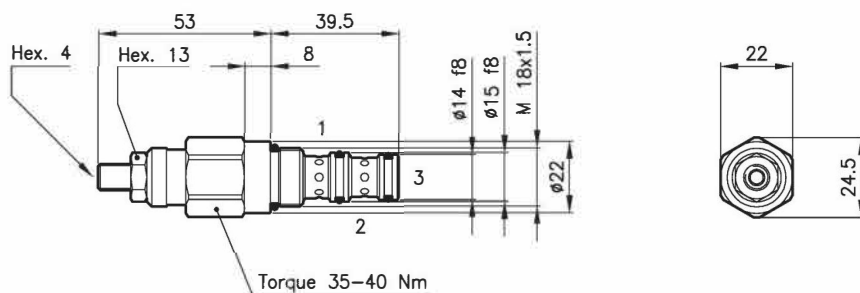
01.07

## Technical features



|                                                             |                                       |           |
|-------------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                      | (For dimensions see catalogue 17.000) | S 20/3    |
| Nominal flow                                                | (l/min.)                              | 20        |
| Max. pressure                                               | (bar)                                 | 350       |
| Fluid viscosity range                                       | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                     | (°C)                                  | -20 +80   |
| Mass                                                        | (kg)                                  | 0.160     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074             |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 $\mu$ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N                   |                                       |           |

## Dimensions



## Ordering informations

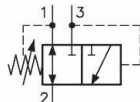
**VDT 20/3203-D-N**

**VDT 20** = Valve type



Circuit

**3203** =



Standard springs

| Type     | Setting range  | Factory set |
|----------|----------------|-------------|
| <b>U</b> | = 5 - 30 bar   | 20 bar      |
| <b>D</b> | = 14 - 60 bar  | 40 bar      |
| <b>T</b> | = 35 - 90 bar  | 60 bar      |
| <b>Q</b> | = 50 - 140 bar | 100 bar     |

Adjustment type

**N** = Standard adjustment



Codes:

|                    |            |
|--------------------|------------|
| VDT 20/3203-U-N    | 22 011 144 |
| VDT 20/3203-D-N    | 22 011 151 |
| VDT 20/3203-T-N    | 22 011 152 |
| VDT 20/3203-Q-N    | 22 011 179 |
| External seals kit | 90 620 101 |

VDT 20 valves can be assembled on standard bodies 20-C3 series; for dimensions see catalogue 16.010

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# DIRECTIONAL SPOOL-TYPE VALVES

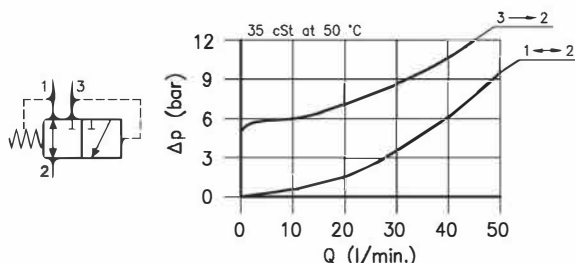
THREE WAY INTERNAL PILOT

**VDT 30/3203**

05.610

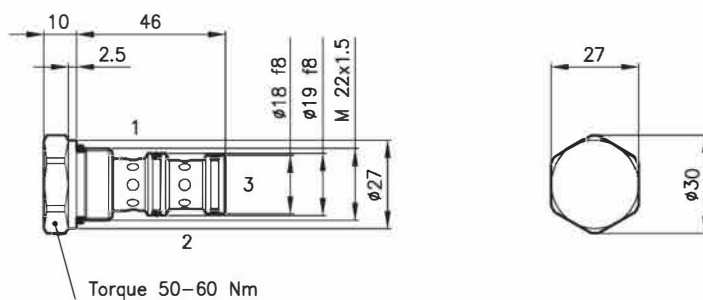
01.96

## Technical features



|                                                             |                                       |           |
|-------------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                      | (For dimensions see catalogue 17.000) | S 30/3    |
| Nominal flow                                                | (l/min.)                              | 40        |
| Max. pressure                                               | (bar)                                 | 350       |
| Activation spool pressure                                   | (bar)                                 | 6         |
| Fluid viscosity range                                       | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                     | (°C)                                  | -20 +80   |
| Mass                                                        | (kg)                                  | 0.110     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074             |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 $\mu$ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N                   |                                       |           |

## Dimensions



## Ordering informations

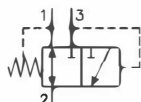
**VDT 30/3203**

**VDT 30** = Valve type



Circuit

**3203** =



Codes:

VDT 30/3203 32 011 134

External seals kit 90 620 104

VDT 30 valves can be assembled on standard bodies 30-C3 series; for dimensions see catalogue 16.010



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# DIRECTIONAL SPOOL-TYPE VALVES

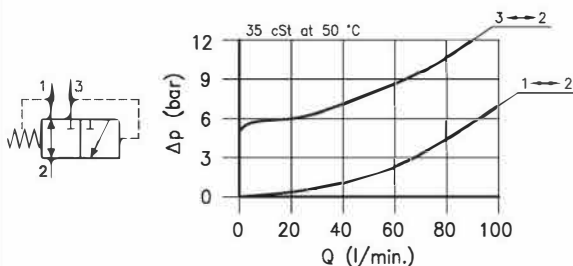
THREE WAY INTERNAL PILOT

**VDT 50/3203**

05.620

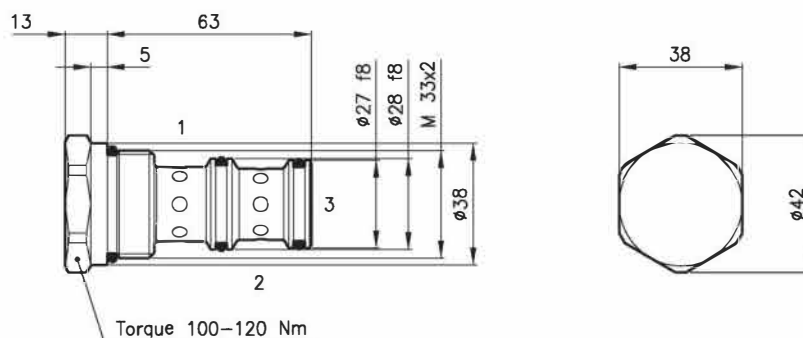
01.96

## Technical features



|                                                             |                                       |           |
|-------------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                      | (For dimensions see catalogue 17.000) | S 50/3    |
| Nominal flow                                                | (l/min.)                              | 80        |
| Max. pressure                                               | (bar)                                 | 350       |
| Activation spool pressure                                   | (bar)                                 | 6         |
| Fluid viscosity range                                       | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                     | (°C)                                  | -20 +80   |
| Mass                                                        | (kg)                                  | 0.250     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074             |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 $\mu$ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N                   |                                       |           |

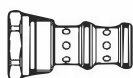
## Dimensions



## Ordering informations

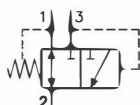
**VDT 50/3203**

**VDT 50** = Valve type



Circuit

**3203** =



Codes:

VDT 50/3203 52 011 102

External seals kit 90 620 107

VDT 50 valves can be assembled on standard bodies 50–C3 series; for dimensions see catalogue 16.010

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## DIRECTIONAL SPOOL-TYPE VALVES

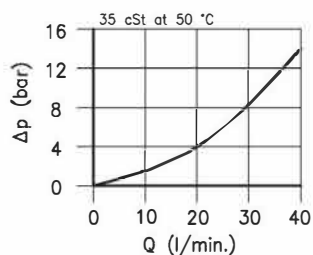
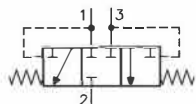
THREE WAY SHUTTLE VALVES

**VDT 30/3306**

05.650

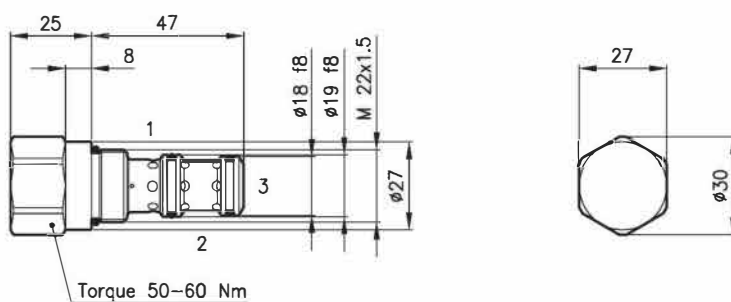
01.07

### Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 30/3    |
| Nominal flow                                            | (l/min.)                              | 30        |
| Max. pressure                                           | (bar)                                 | 420       |
| Shuttle pressure                                        | (bar)                                 | 5 – 9     |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.140     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

### Dimensions



### Ordering informations

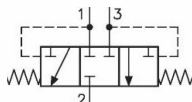
**VDT 30/3306-M**

**VDT 30** = Valve type



Circuit

**3306** =



Standard springs

**M** = 5 bar Shuttle pressure

**Z** = 9 bar Shuttle pressure

Codes:

VDT 30/3306-M 32 011 117

VDT 30/3306-Z 32 011 171

External seals kit 90 620 104

VDT 30 valves can be assembled on standard bodies 30-C3 series; for dimensions see catalogue 16.010

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# DIRECTIONAL SPOOL-TYPE VALVES

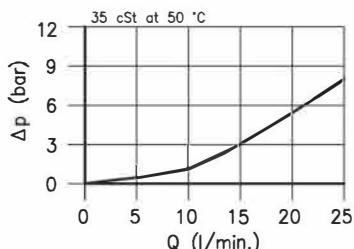
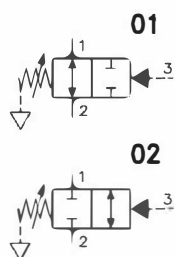
THREE WAY EXTERNAL VENT

**VDT 20/32..**

05.670

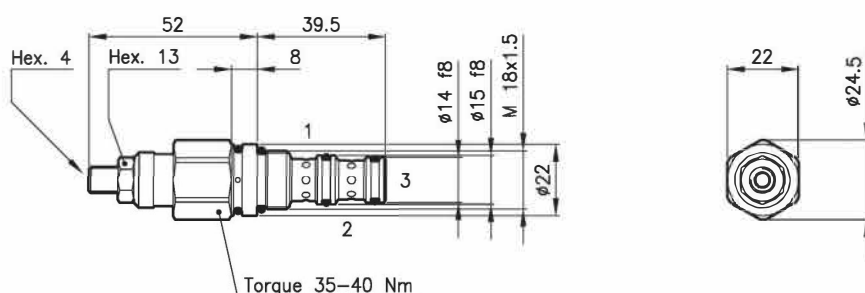
01.07

## Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/3    |
| Nominal flow                                            | (l/min.)                              | 20        |
| Max. pressure                                           | (bar)                                 | 350       |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.160     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

## Dimensions



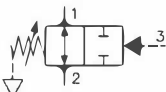
## Ordering informations

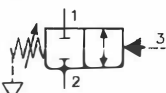
**VDT 20/3201-D-N**

**VDT 20** = Valve type



Circuits

**3201** = 

**3202** = 

Standard springs

Type Setting range

**U** = 5 - 30 bar

**D** = 14 - 60 bar

**T** = 35 - 90 bar

**Q** = 50 - 140 bar

Adjustment type

**N** = Standard adjustment



Codes:

|                 |            |
|-----------------|------------|
| VDT 20/3201-U-N | 22 011 128 |
| VDT 20/3201-D-N | 22 011 129 |
| VDT 20/3201-T-N | 22 011 130 |
| VDT 20/3201-Q-N | 22 011 173 |

|                 |            |
|-----------------|------------|
| VDT 20/3202-U-N | 22 011 131 |
| VDT 20/3202-D-N | 22 011 132 |
| VDT 20/3202-T-N | 22 011 133 |
| VDT 20/3202-Q-N | 22 011 181 |

External seals kit 90 620 101

VDT 20 valves can be assembled on standard bodies 20-C3 series; for dimensions see catalogue 16.010

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ITALY

# DIRECTIONAL SPOOL-TYPE VALVES

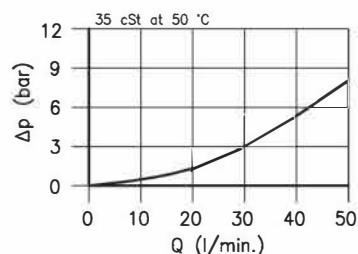
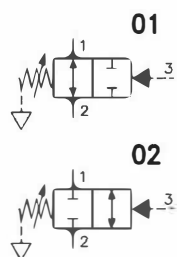
THREE WAY EXTERNAL VENT

**VDT 30/32..**

**05.690**

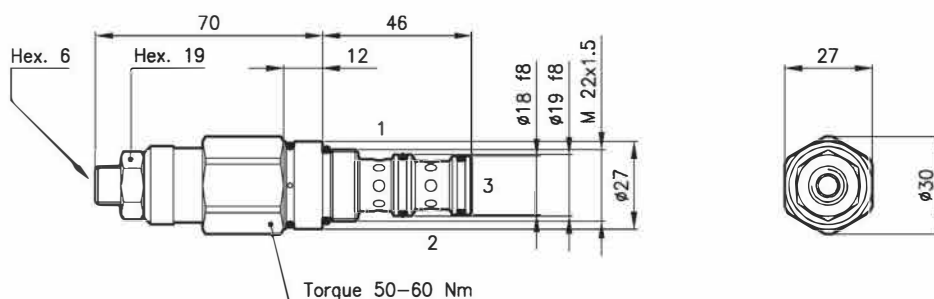
**01.07**

## Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 30/3    |
| Nominal flow                                            | (l/min.)                              | 40        |
| Max. pressure                                           | (bar)                                 | 350       |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.280     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

## Dimensions



## Ordering informations

**VDT 30/3201-D-N**

**VDT 30** = Valve type



Circuits



Standard springs

Type Setting range

**U** = 5 – 35 bar

**D** = 14 – 70 bar

**T** = 35 – 105 bar

**Q** = 70 – 210 bar

Adjustment type

**N** = Standard adjustment



Codes:

|                 |            |
|-----------------|------------|
| VDT 30/3201-U-N | 32 011 106 |
| VDT 30/3201-D-N | 32 011 107 |
| VDT 30/3201-T-N | 32 011 108 |
| VDT 30/3201-Q-N | 32 011 186 |

|                 |            |
|-----------------|------------|
| VDT 30/3202-U-N | 32 011 109 |
| VDT 30/3202-D-N | 32 011 110 |
| VDT 30/3202-T-N | 32 011 111 |
| VDT 30/3202-Q-N | 32 011 187 |

External seals kit 90 620 104

VDT 30 valves can be assembled on standard bodies 30-C3 series; for dimensions see catalogue 16.010

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# DIRECTIONAL SPOOL-TYPE VALVES

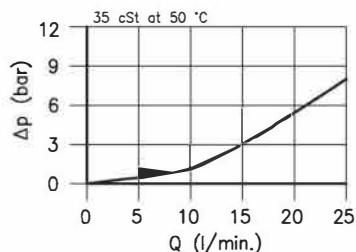
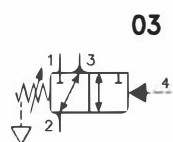
FOUR WAY EXTERNAL VENT

**VDT 20/4203**

05.740

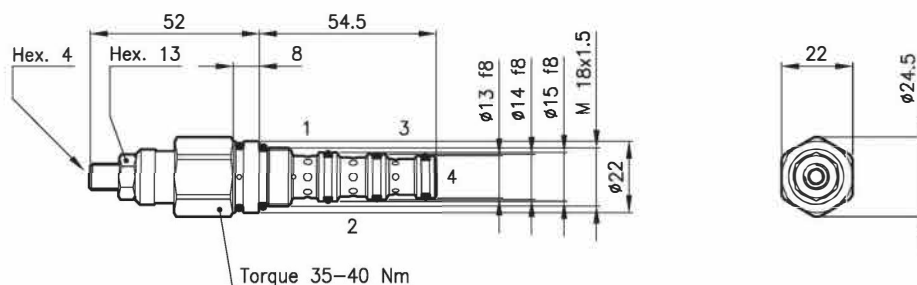
01.07

## Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/4    |
| Nominal flow                                            | (l/min.)                              | 20        |
| Max. pressure                                           | (bar)                                 | 350       |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                 | (°C)                                  | –20 +80   |
| Mass                                                    | (kg)                                  | 0.190     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

## Dimensions



## Ordering informations

**VDT 20/4203-D-N**

**VDT 20** = Valve type



Circuit



Standard springs

| Type     | Setting range  |
|----------|----------------|
| <b>U</b> | = 5 – 30 bar   |
| <b>D</b> | = 14 – 60 bar  |
| <b>T</b> | = 35 – 90 bar  |
| <b>Q</b> | = 50 – 140 bar |

Adjustment type

**N** = Standard adjustment



Adjustment type IB for setting till 175 bar, is available on request.

Codes:

|                    |            |
|--------------------|------------|
| VDT 20/4203-U-N    | 22 011 108 |
| VDT 20/4203-D-N    | 22 011 109 |
| VDT 20/4203-T-N    | 22 011 110 |
| VDT 20/4203-Q-N    | 22 011 180 |
| External seals kit | 90 620 102 |

VDT 20 valves can be assembled on standard bodies 20-C4 series; for dimensions see catalogue 16.011

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## Directional spool-type valves

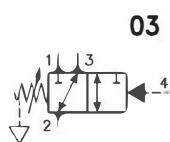
FOUR WAY EXTERNAL VENT

**VDT 30/4203**

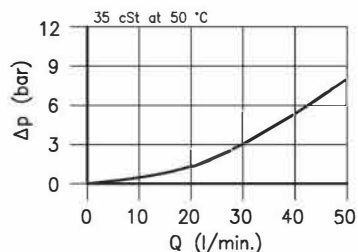
05.750

01.07

### Technical features

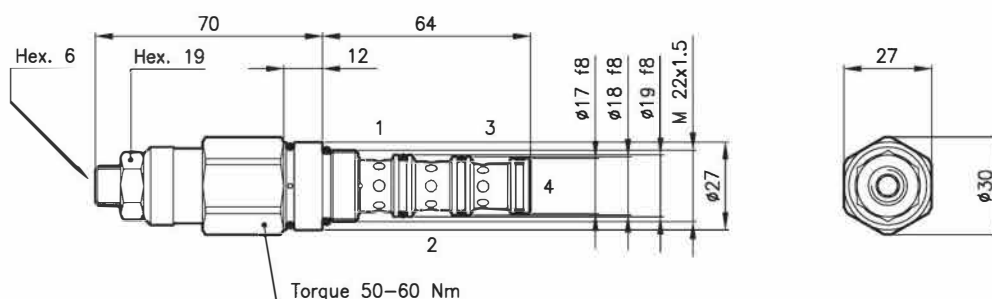


03



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 30/4    |
| Nominal flow                                            | (l/min.)                              | 40        |
| Max. pressure                                           | (bar)                                 | 350       |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.310     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

### Dimensions



### Ordering informations

**VDT 30/4203-D-N**

VDT 30 = Valve type



Circuit



Standard springs

| Type | Setting range  |
|------|----------------|
| U    | = 5 – 35 bar   |
| D    | = 14 – 70 bar  |
| T    | = 35 – 105 bar |
| Q    | = 70 – 210 bar |

Adjustment type

N = Standard adjustment



Codes:

|                    |            |
|--------------------|------------|
| VDT 30/4203-U-N    | 32 011 135 |
| VDT 30/4203-D-N    | 32 011 136 |
| VDT 30/4203-T-N    | 32 011 137 |
| VDT 30/4203-Q-N    | 32 011 161 |
| External seals kit | 90 620 105 |

VDT 30 valves can be assembled on standard bodies 30-C4 series; for dimensions see catalogue 16.011

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# DIRECTIONAL SPOOL-TYPE VALVES

FOUR WAY EXTERNAL PILOT

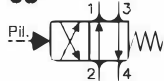
**VDT 20/42..**

**05.780**

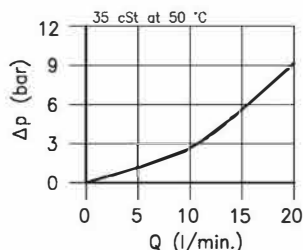
**01.96**

## Technical features

**05**

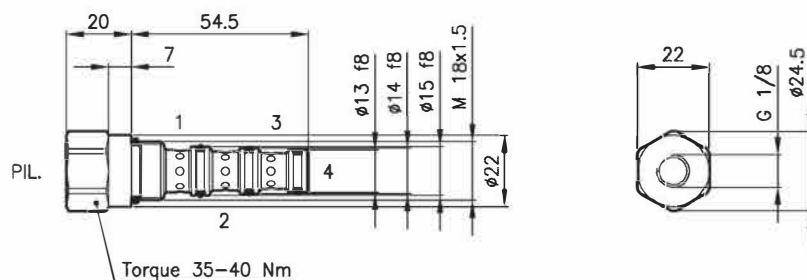


**11**



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/4    |
| Nominal flow                                            | (l/min.)                              | 15        |
| Max. pressure                                           | (bar)                                 | 350       |
| Pilot pressure                                          | (bar)                                 | 3 – 5     |
| Pilot volume                                            | (cm <sup>3</sup> )                    | 0.12      |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                 | (°C)                                  | –20 +80   |
| Mass                                                    | (kg)                                  | 0.100     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

## Dimensions



## Ordering informations

**VDT 20/4211**

**VDT 20** = Valve type



Circuits

**4205** = 

**4211** = 

Codes:

|                    |            |
|--------------------|------------|
| VDT 20/4205        | 22 011 134 |
| VDT 20/4211        | 22 011 135 |
| External seals kit | 90 620 102 |

VDT 20 valves can be assembled on standard bodies 20–C4 series; for dimensions see catalogue 16.011



**FLUcom**  
ITALY

# DIRECTIONAL SPOOL-TYPE VALVES

FOUR WAY EXTERNAL PILOT

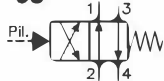
**VDT 30/42..**

**05.790**

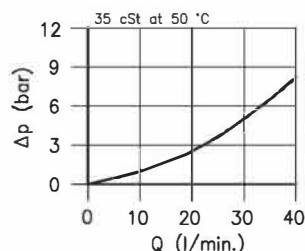
**01.96**

## Technical features

**05**

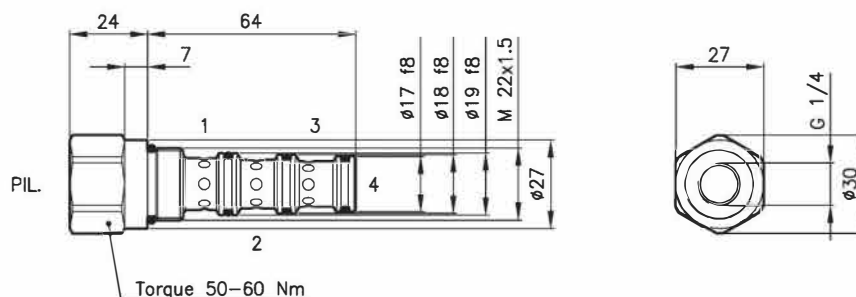


**11**



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 30/4    |
| Nominal flow                                            | (l/min.)                              | 30        |
| Max. pressure                                           | (bar)                                 | 350       |
| Pilot pressure                                          | (bar)                                 | 3 - 5     |
| Pilot volume                                            | (cm <sup>3</sup> )                    | 0.3       |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.180     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

## Dimensions



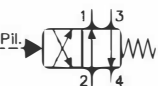
## Ordering informations

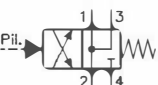
**VDT 30/4211**

**VDT 30** = Valve type



Circuits

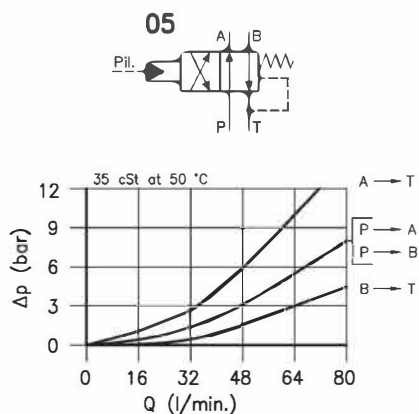
**4205** = 

**4211** = 

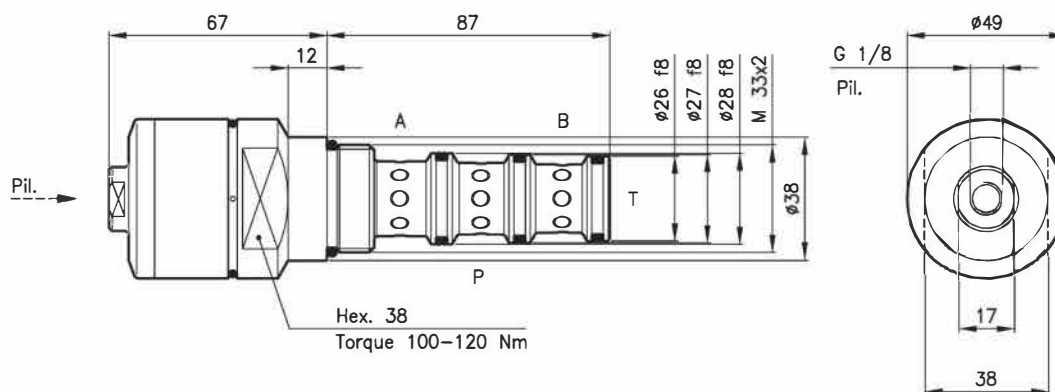
Codes:

|                    |            |
|--------------------|------------|
| VDT 30/4205        | 32 011 118 |
| VDT 30/4211        | 32 011 119 |
| External seals kit | 90 620 105 |

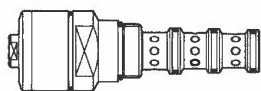
VDT 30 valves can be assembled on standard bodies 30-C4 series; for dimensions see catalogue 16.011

**Technical features**


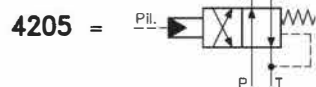
|                                                             |                                       |           |
|-------------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                      | (For dimensions see catalogue 17.000) | S 50/4    |
| Max. flow                                                   | (l/min.)                              | 80        |
| Nominal flow                                                | (l/min.)                              | 60        |
| Max. pressure way P-A-B                                     | (bar)                                 | 315       |
| Max. pressure way T                                         | (bar)                                 | 40        |
| Pilot pressure                                              | (bar)                                 | 2         |
| Max. leakage                                                | (cm <sup>3</sup> /min.)               | 40        |
| Fluid viscosity range                                       | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                     | (°C)                                  | -20 +80   |
| Mass                                                        | (kg)                                  | 0.560     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074             |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 $\mu$ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N                   |                                       |           |

**Dimensions**

**Ordering informations**
**VDT 50/4205-PN**

VDT 50/42.. = Valve type



Circuits



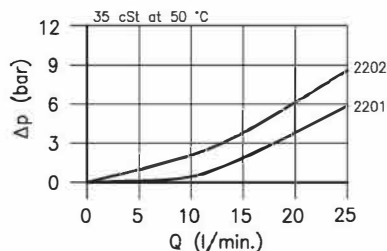
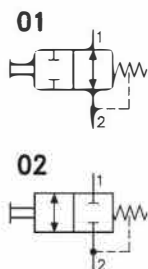
PNEUMATIC Pilot = 2 bar

Codes:

VDT 50/4205-PN 52 011 117

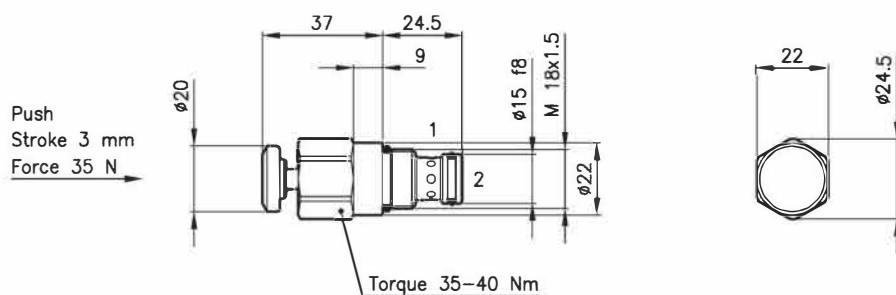
External seals kit 90 620 108

VDT 50/42.. valves can be assembled on standard bodies 50-C4 series; for dimensions see catalogue 16.011

**Technical features**


|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/2    |
| Nominal flow                                            | (l/min.)                              | 20        |
| Max. pressure                                           | (bar)                                 | 350       |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.160     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

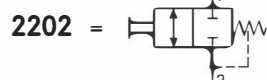
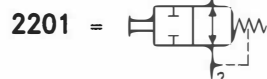
Pressure of chamber 2 influences the necessary force for valve's drive.

**Dimensions**

**Ordering informations**
**VDT 20/2201-PS**

Circuits

**VDT 20** = Valve type


Circuits



Manual control type

**PS** = Push type spring return

Codes:

VDT 20/2201-PS 22 011 177

VDT 20/2202-PS 22 011 185

External seals kit 90 620 100

VDT 20 valves can be assembled on standard bodies 20-LO series; for dimensions see catalogue 16.010

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## DIRECTIONAL SPOOL-TYPE VALVES

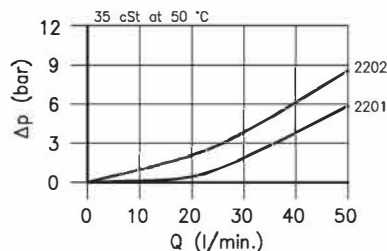
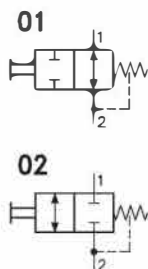
TWO WAY MANUAL CONTROL

**VDT 30/22..**

**05.802**

**01.09**

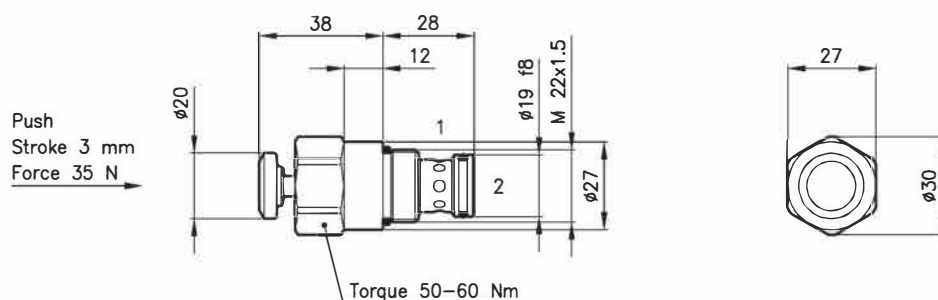
### Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 30/2    |
| Nominal flow                                            | (l/min.)                              | 40        |
| Max. pressure                                           | (bar)                                 | 350       |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.180     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

Pressure of chamber 2 influences the necessary force for valve's drive.

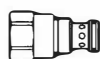
### Dimensions



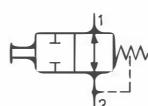
### Ordering informations

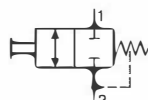
**VDT 30/2201-PS**

**VDT 30** = Valve type



Circuits

**2201** = 

**2202** = 

Manual control type

**PS** = Push type spring return 

Codes:

VDT 30/2201-PS 32 011 192

VDT 30/2202-PS 32 011 193

External seals kit 90 620 103

VDT 30/22.. valves can be assembled on standard bodies 30-L0 series; for dimensions see catalogue 16.010

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# DIRECTIONAL SPOOL-TYPE VALVES

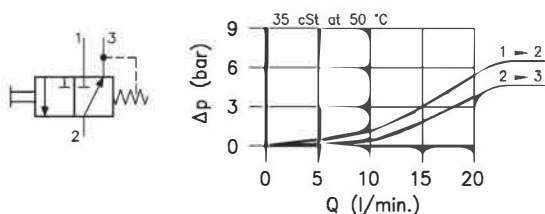
THREE WAY MANUAL CONTROL

**VDT 20/3204**

**05.810**

**01.97**

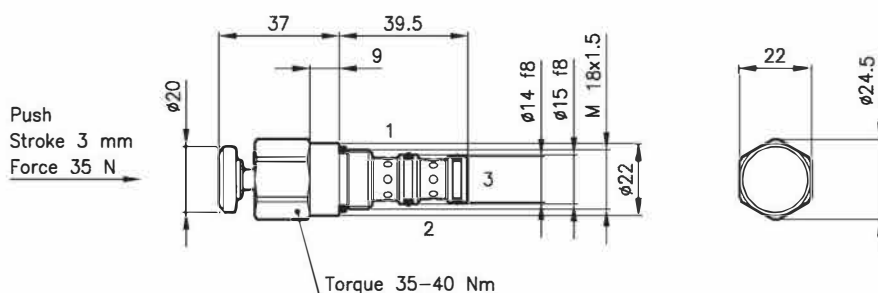
## Technical features



|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 20/3    |
| Nominal flow                                            | (l/min.)                              | 20        |
| Max. pressure                                           | (bar)                                 | 350       |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 - 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.160     |
| Hydraulic fluid; mineral oil HM and HV ISO 6074         |                                       |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

Pressure of chamber 3 influences the necessary force for valve's drive.

## Dimensions



## Ordering informations

**VDT 20/3204-PS**

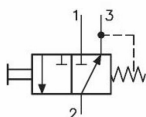
Circuits

**VDT 20** = Valve type



Circuit

**3204** =



Manual control type

**PS** = Push type spring return

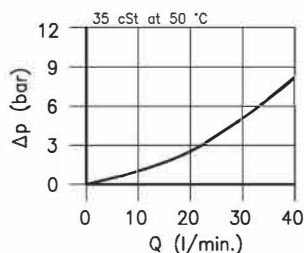
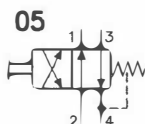


Codes:

VDT 20/3204-PS 22 011 140

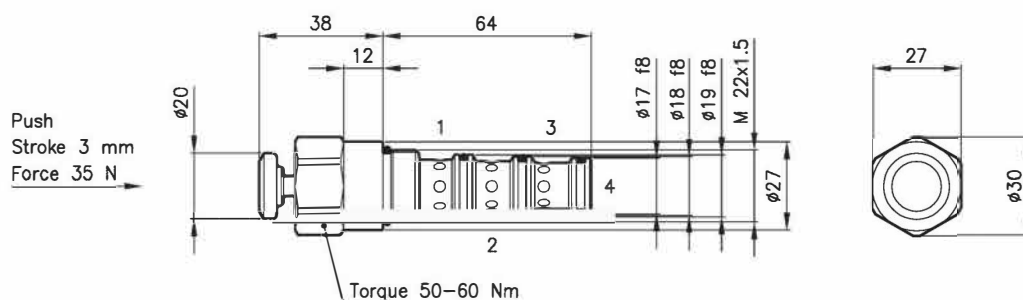
External seals kit 90 620 101

VDT 20 valves can be assembled on standard bodies 20-C3 series; for dimensions see catalogue 16.010

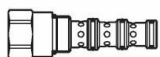
**Technical features**


|                                                         |                                       |           |
|---------------------------------------------------------|---------------------------------------|-----------|
| Cavity                                                  | (For dimensions see catalogue 17.000) | S 30/4    |
| Nominal flow                                            | (l/min.)                              | 30        |
| Max. pressure                                           | (bar)                                 | 350       |
| Fluid viscosity range                                   | (cSt)                                 | 2.8 – 380 |
| Fluid temperature range                                 | (°C)                                  | -20 +80   |
| Mass                                                    | (kg)                                  | 0.180     |
| Hydraulic fluid; mineral oil HM and HV                  | ISO 6074                              |           |
| Recommended filtration; 19/15 ISO 4466 (25 μ absolutes) |                                       |           |
| Standard seals in Polyurethane and Buna N               |                                       |           |

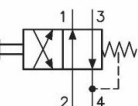
Pressure of chamber 4 influences the necessary force for valve's drive.

**Dimensions**

**Ordering informations**
**VDT 30/4205-PS**

**VDT 30** = Valve type



Circuits

**4205** = 

Manual control type

**PS** = Push type spring return 

Codes:

VDT 30/4205-PS 32 011 198

External seals kit 90 620 105

VDT 30/42.. valves can be assembled on standard bodies 30-C4 series; for dimensions see catalogue 16.011

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ITALY

## DIRECTIONAL SPOOL-TYPE VALVES

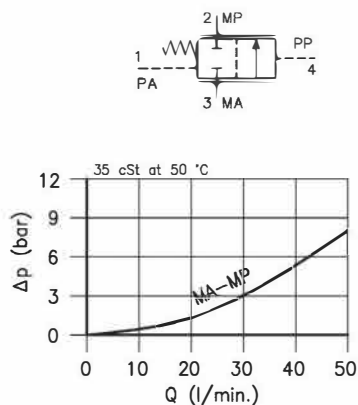
FOUR WAY EXTERNAL PILOTS

**MTV 30**

**05.900**

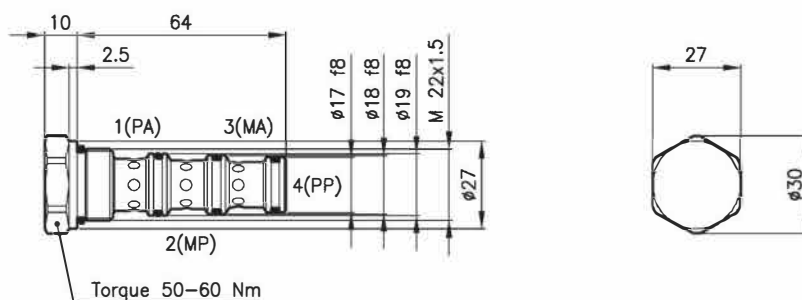
**01.07**

### Technical features



|                                                             |                                       |            |
|-------------------------------------------------------------|---------------------------------------|------------|
| Cavity                                                      | (For dimensions see catalogue 17.000) | S 30/4     |
| Nominal flow                                                | (l/min.)                              | 40         |
| Max. pressure                                               | (bar)                                 | 350        |
| Min pressure difference                                     | (bar)                                 | 0.2 – 0.35 |
| Ratio between areas PA / PP                                 |                                       | 1:1        |
| Fluid viscosity range                                       | (cSt)                                 | 2.8 – 380  |
| Fluid temperature range                                     | (°C)                                  | -20 +80    |
| Mass                                                        | (kg)                                  | 0.150      |
| Hydraulic fluid; mineral oil HM and HV ISO 6074             |                                       |            |
| Recommended filtration; 19/15 ISO 4466 (25 $\mu$ absolutes) |                                       |            |
| Standard seals in Polyurethane and Buna N                   |                                       |            |

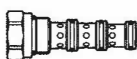
### Dimensions



### Ordering informations

**MTV 30/P**

**MTV 30** = Valve type



Standard spring

**P** = 0.2-0.35 bar

Codes:

MTV 30/P 33 011 202

External seals kit 90 620 105

MTV 30 valves can be assembled on standard bodies 30-C4 series; for dimensions see catalogue 16.011