

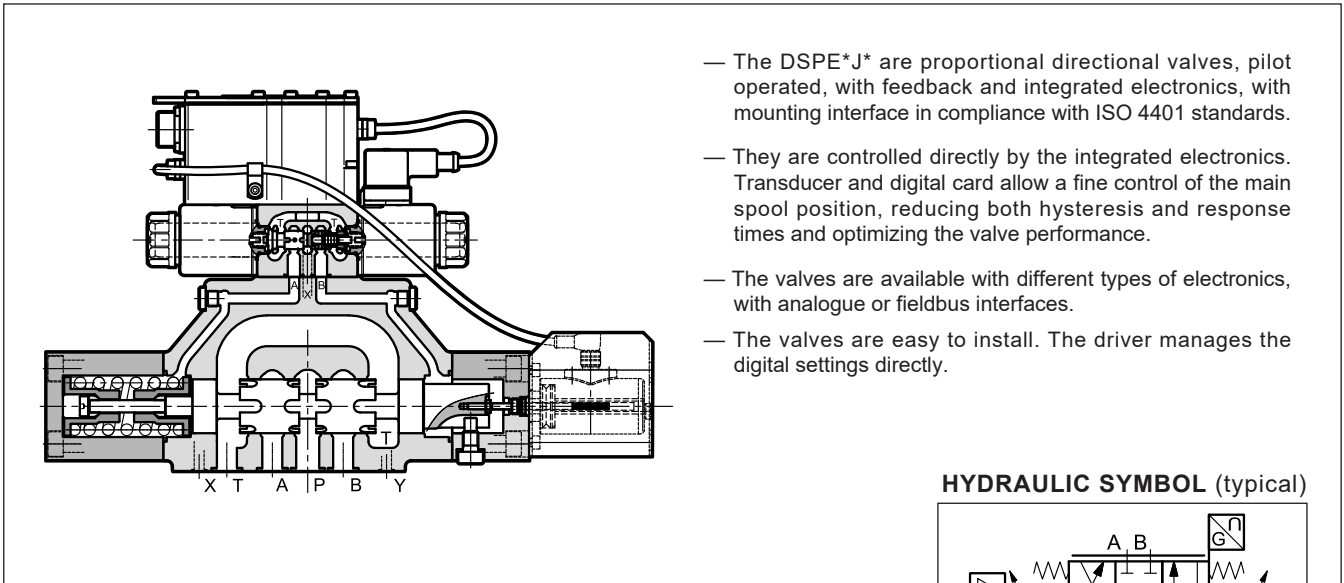
# DSPE\*J\*

## PROPORTIONAL DIRECTIONAL VALVES, PILOT OPERATED, WITH FEEDBACK AND INTEGRATED ELECTRONICS

### SUBPLATE MOUNTING

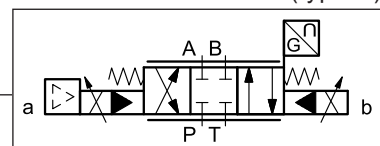
- DSPE5J\* CETOP P05
- DSPE5RJ\* ISO 4401-05
- DSPE7J\* ISO 4401-07
- DSPE8J\* ISO 4401-08
- DSPE10J\* ISO 4401-10
- DSPE11J\* ISO 4401-10 oversize ports

### OPERATING PRINCIPLE



- The DSPE\*J\* are proportional directional valves, pilot operated, with feedback and integrated electronics, with mounting interface in compliance with ISO 4401 standards.
- They are controlled directly by the integrated electronics. Transducer and digital card allow a fine control of the main spool position, reducing both hysteresis and response times and optimizing the valve performance.
- The valves are available with different types of electronics, with analogue or fieldbus interfaces.
- The valves are easy to install. The driver manages the digital settings directly.

### HYDRAULIC SYMBOL (typical)



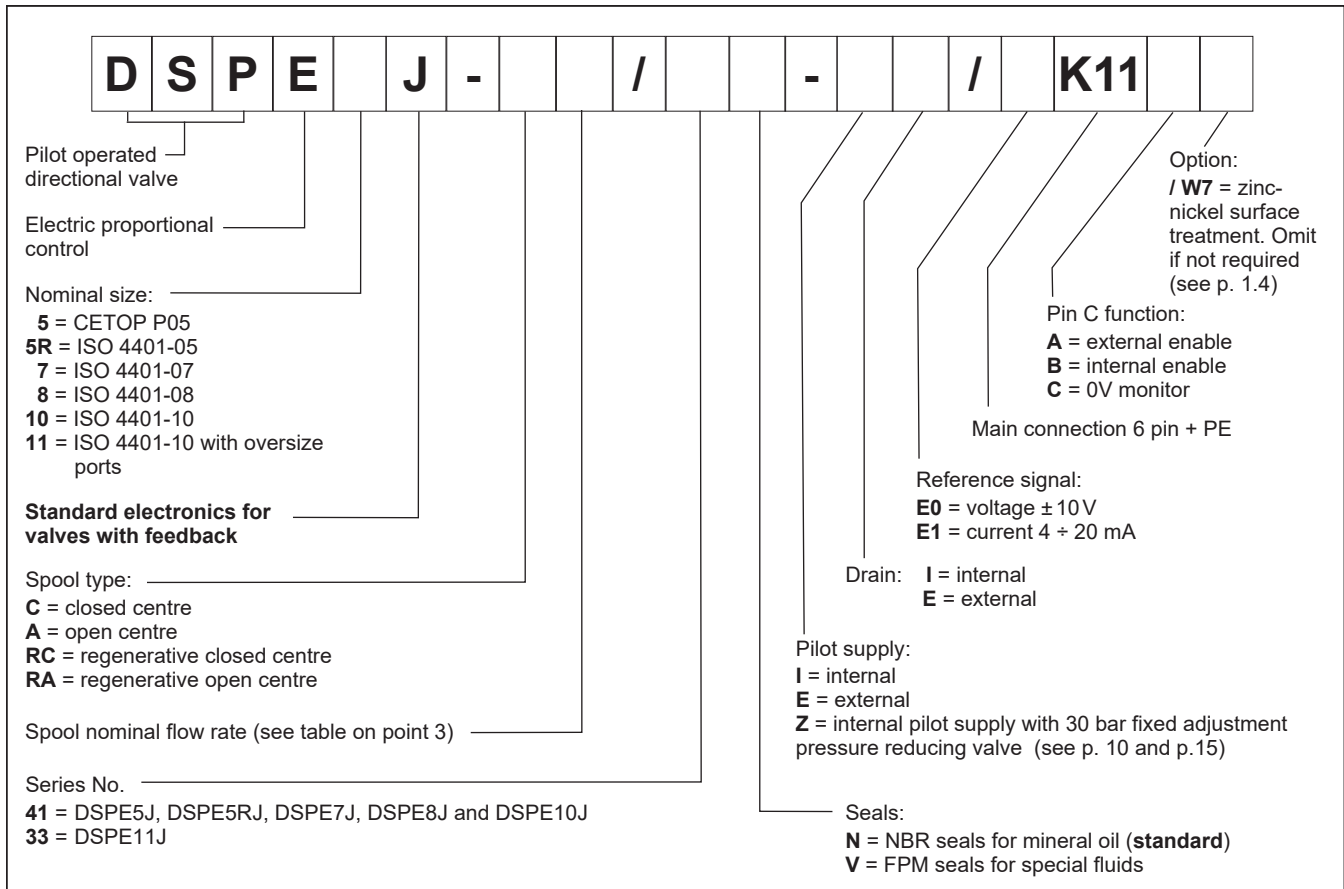
### PERFORMANCES

(obtained with mineral oil with viscosity of 36 cSt at 50 °C and p = 140 bar)

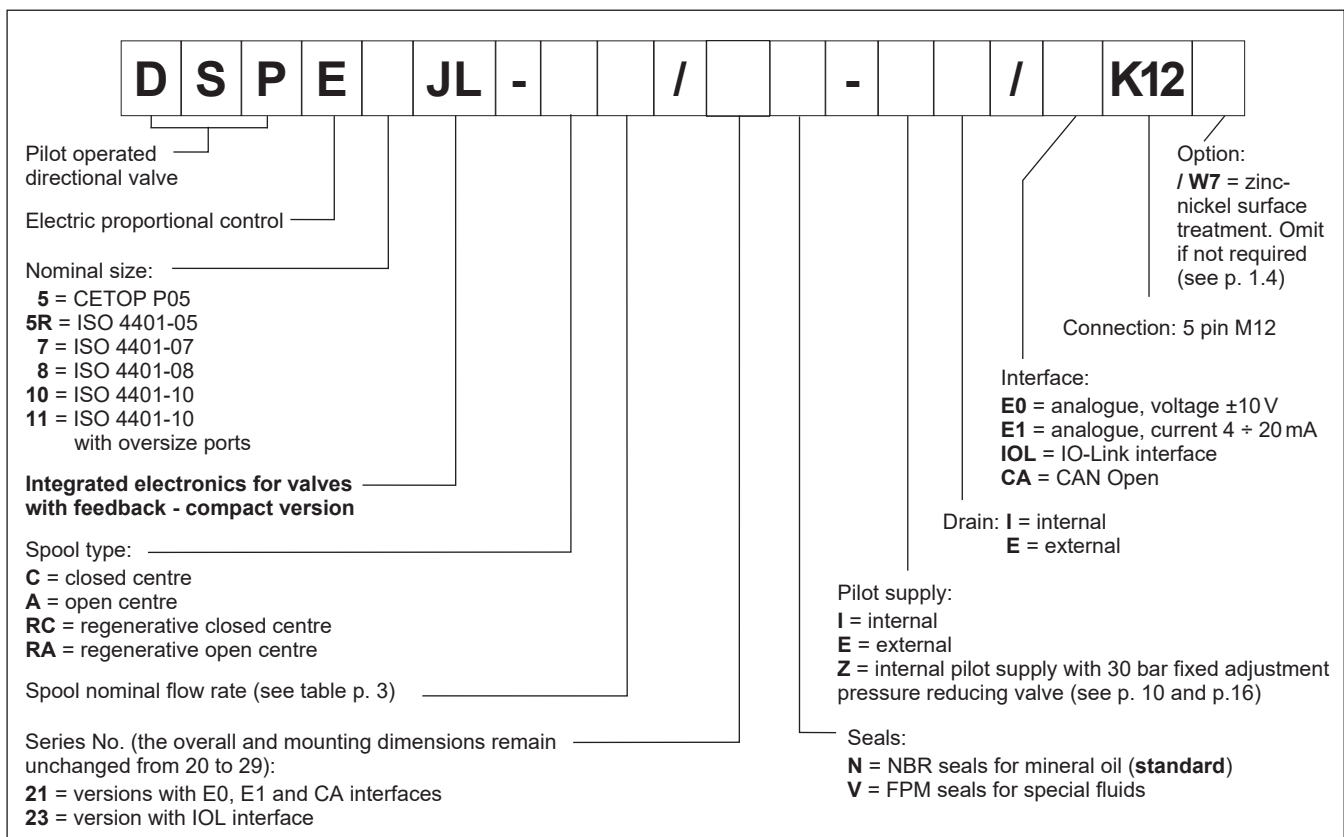
|  |                    | DSPE5J*<br>DSPE5RJ*                       | DSPE7J* | DSPE8J* | DSPE10J* | DSPE11J*         |
|--|--------------------|---|---------|---------|----------|------------------|
| Max operating pressure:<br>P - A - B ports<br>T port | bar                | 350<br>see point 10                       |         |         |          | 320<br>see p. 10 |
| Max flow rate  | l/min              | 180                                       | 450     | 800     | 1800     | 2000             |
| Hysteresis   | % Q <sub>max</sub> | < 0,5%                                    |         |         |          |                  |
| Repeatability  | % Q <sub>max</sub> | < ± 0,2%                                  |         |         |          |                  |
| Electrical characteristics                           |                    | see point 4                               |         |         |          |                  |
| Ambient temperature range                            | °C                 | -20 / +60                                 |         |         |          |                  |
| Fluid temperature range                              | °C                 | -20 / +80                                 |         |         |          |                  |
| Fluid viscosity range                                | cSt                | 10 ÷ 400                                  |         |         |          |                  |
| Fluid contamination degree                           |                    | According to ISO 4406:1999 class 18/16/13 |         |         |          |                  |
| Recommended viscosity                                | cSt                | 25  |         |         |          |                  |
| Mass   | kg                 | 8.1                                       | 9.5     | 17.8    | 44.6     | 41.8             |

## 1 - IDENTIFICATION CODES

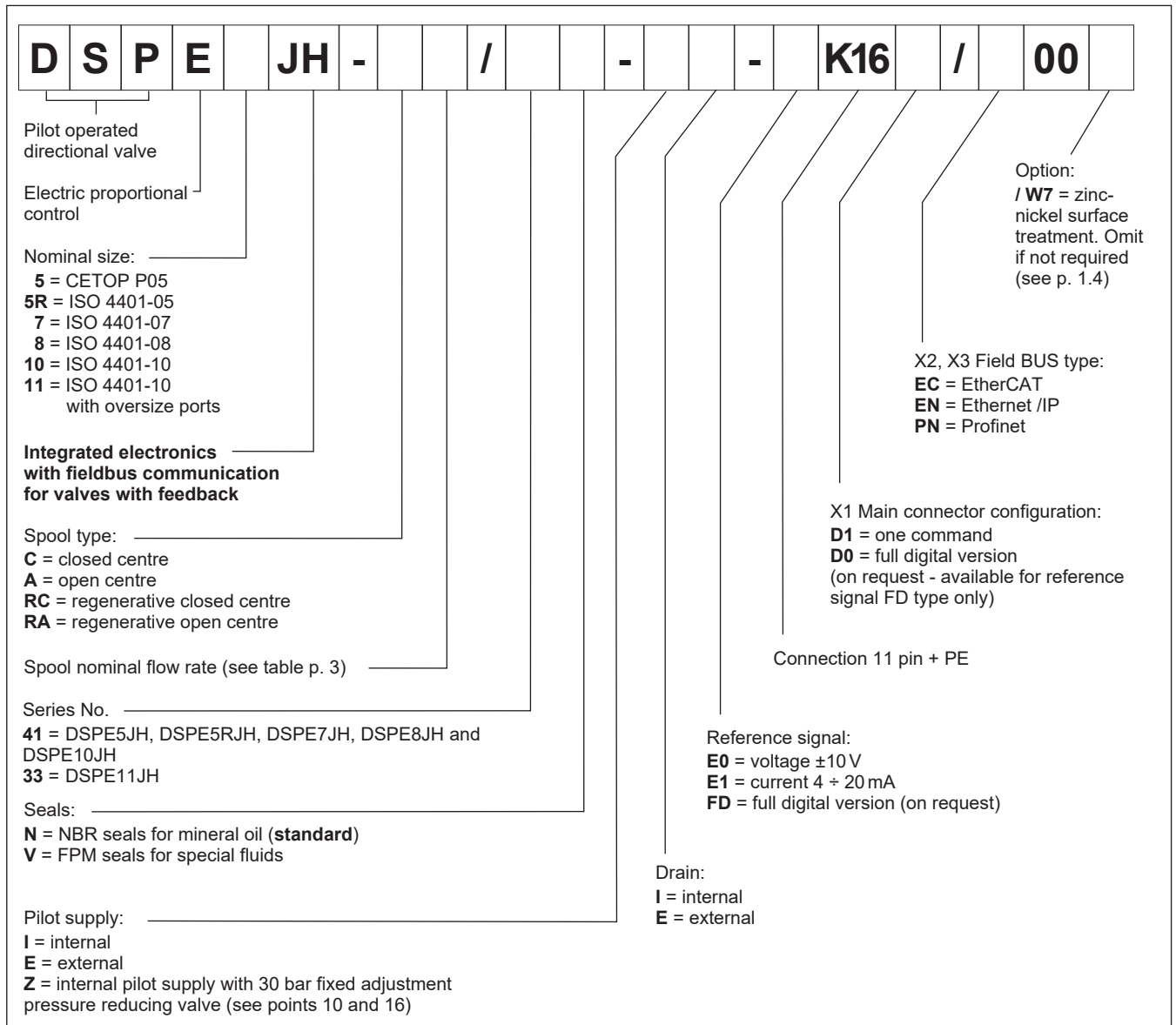
### 1.1 - Standard electronics



### 1.2 - Compact electronics



### 1.3 - Electronics with fieldbus communication



### 1.4 - Surface treatments

The standard valve is supplied with surface treatment of phosphating black. The zinc-nickel finishing on the valve body makes the valve suitable to ensure a salt spray resistance up to 240 hours. (test operated according to UNI EN ISO 9227 standards and test evaluation operated according to UNI EN ISO 10289 standards).

## 2 - COMPARISON AMONG INTEGRATED ELECTRONICS

dimensions in mm

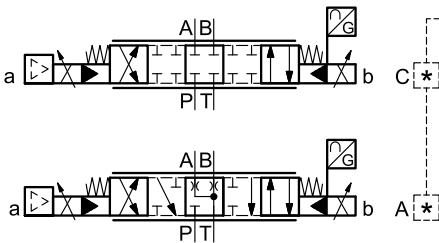
|    |                                    |
|----|------------------------------------|
| 1  | Connection 6 pin + PE              |
| 2  | Connection M12 5 pin, code A, male |
| X1 | Main connection 11 pin + PE        |
| X2 | Fieldbus communication (IN)        |
| X3 | Fieldbus communication (OUT)       |

**NOTE 1:** Please refer to section 7 for connections descriptions and pinouts.  
**NOTE 2:** Related mating connectors have to be ordered separately.  
 See catalogue 89 000.

## 3 - AVAILABLE CONFIGURATIONS

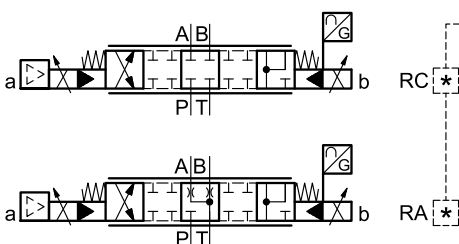
The valve configuration depends on the combination of spool type and rated flow.

### 3 positions with spring centreing



| valve type | *              | Nominal flow with $\Delta p$ 10 bar P→T |
|------------|----------------|---|
| DSPE5J*    | <b>80</b>      | 80 l/min                                |
| DSPE5RJ*   | <b>80/40</b>   | 80 (P-A) / 40 (B-T) l/min               |
| DSPE7J*    | <b>100</b>     | 100 l/min                               |
|            | <b>150</b>     | 150 l/min                               |
| DSPE8J*    | <b>150/75</b>  | 150 (P-A) / 75 (B-T) l/min              |
|            | <b>200</b>     | 200 l/min                               |
| DSPE8J*    | <b>300</b>     | 300 l/min                               |
|            | <b>300/150</b> | 300 (P-A) / 150 (B-T) l/min             |
| DSPE10J*   | <b>350</b>     | 350 l/min                               |
|            | <b>500</b>     | 500 l/min                               |
|            | <b>500/250</b> | 500 (P-A) / 250 (B-T) l/min             |
|            | <b>800</b>     | 800 l/min                               |
| DSPE10J*   | <b>800/500</b> | 800 (P-A) / 500 (B-T) l/min             |
|            | <b>1000</b>    | 1000 l/min                              |

### regenerative spools



| valve type | *              | Nominal flow with $\Delta p$ 10 bar P→T |
|------------|----------------|---|
| DSPE7J*    | <b>150/75</b>  | 150 (P-A, A-T) / 75 (P-B, B-P) l/min    |
| DSPE8J*    | <b>300/150</b> | 300 (P-A, A-T) / 150 (P-B, B-P) l/min   |
| DSPE10J*   | <b>500/250</b> | 500 (P-A, A-T) / 250 (P-B, B-P) l/min   |

## 4 - ELECTRONICS COMMON DATA

|   |      |   |
|---|------|---|
| Duty cycle  |      | 100% (continuous operation)   |
| Protection class according to EN 60529 ( <b>NOTE</b> ):<br>DSPE*J, DSPE*JH<br>DSPE*JL |      | IP65/IP67<br>IP65   |
| Supply voltage  | V DC | 24 (from 19 to 30 V DC), ripple max 3 Vpp   |
| Power consumption   | VA   | 25  |
| Maximum solenoid current  | A    | 1.88  |
| Fuse protection, external   | A    | 3   |
| Managed breakdowns  |      | Overload and electronics overheating, cable breakdown,<br>supply voltage failures |
| Electromagnetic compatibility (EMC)<br>emissions EN 61000-6-4, immunity EN 61000-6-2  |      | According to 2014/30/EU standards   |

**NOTE:** The IP degree is guaranteed only with a mating connector of equivalent IP degree, installed and tightened correctly. Moreover, on the JH versions, it is necessary to protect any unused connections with caps.

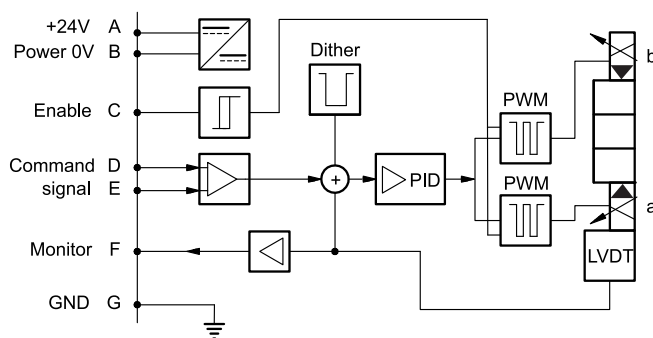
## 5 - DSPE\*J\* - STANDARD ELECTRONICS

### 5.1 - Electrical characteristics

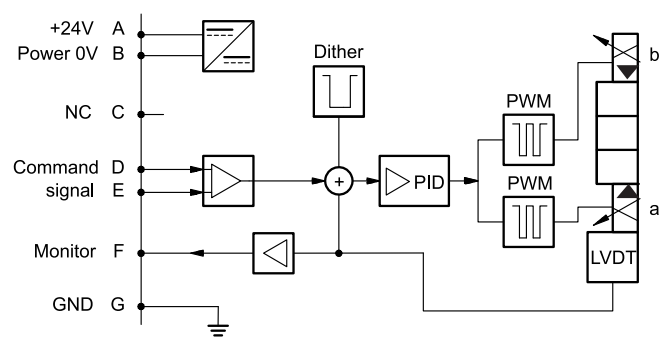
|                                       |                              |            |  |
|---------------------------------------|------------------------------|------------|--|
| Command signal:                       | voltage (E0)<br>current (E1) | V DC<br>mA | $\pm 10$ (Impedance $R_i > 11$ kohm)<br>$4 \div 20$ (Impedance $R_i = 58$ ohm) |
| Monitor signal (main spool position): | voltage (E0)<br>current (E1) | V DC<br>mA | $\pm 10$ (Impedance $R_o > 1$ kohm)<br>$4 \div 20$ (Impedance $R_o = 500$ ohm) |
| Communication for diagnostic          |                              |            | LIN-bus Interface (by means of the optional kit)                               |
| Connection                            |                              |            | 6 pin + PE (MIL-C-5015-G - DIN EN 175201-804)                                  |

### 5.2 - On-board electronics diagrams

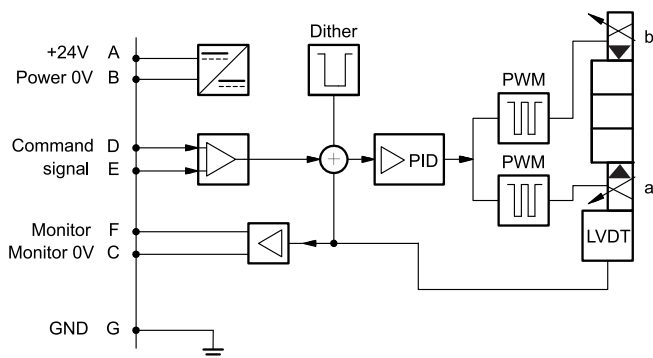
#### VERSION A - External Enable



#### VERSION B - Internal Enable

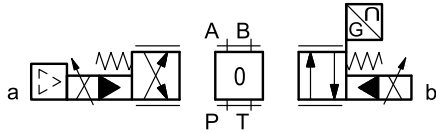


#### VERSION C - 0V Monitor

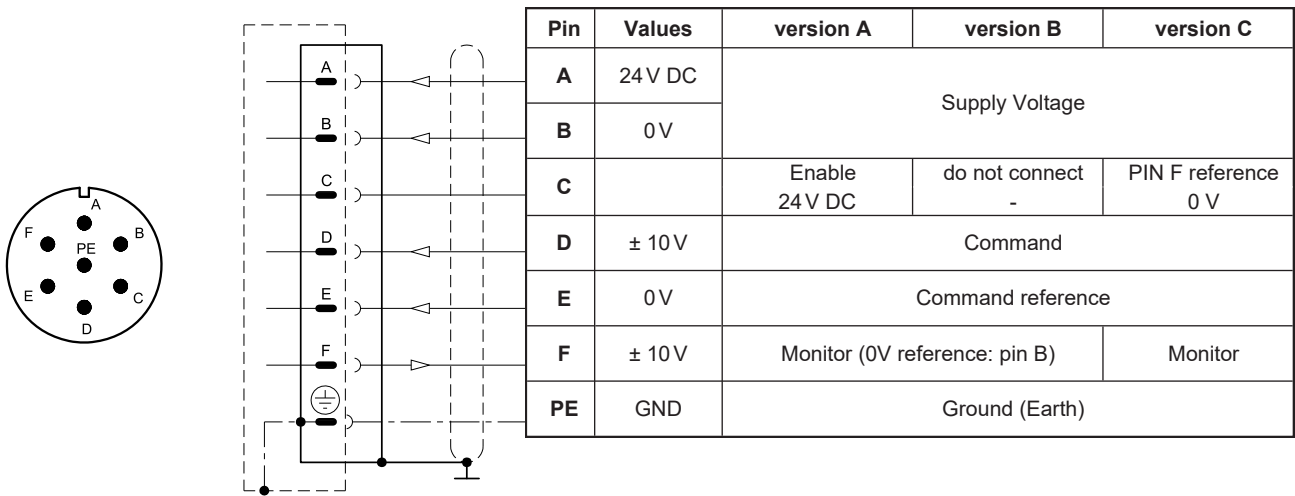


### 5.3 - Versions with voltage command (E0)

The reference signal is between -10V and +10V. The monitor feature of versions B and C becomes available with a delay of 0,5 sec from the power-on of the card.



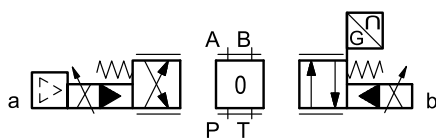
|         |      |    |      |
|---------|------|----|------|
| COMMAND | -10V | 0V | +10V |
| MONITOR | -10V | 0V | +10V |



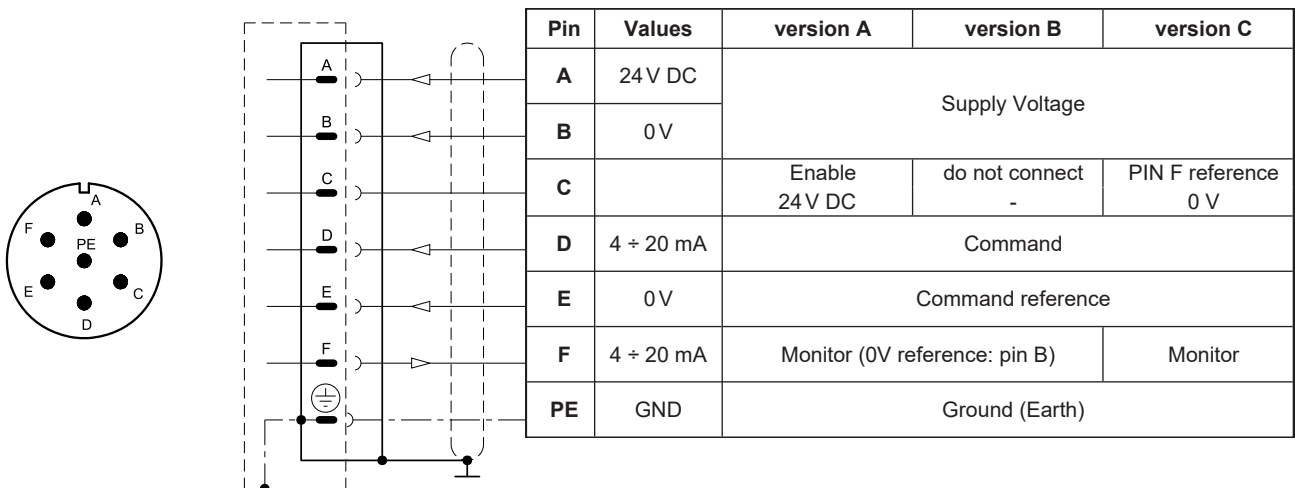
### 5.4 - Versions with current command (E1)

The reference signal is supplied in current  $4 \pm 20$  mA. If the current for command is lower the card shows a breakdown cable error. To reset the error is sufficient to restore the signal.

The monitor feature of versions B and C becomes available with a delay of 0,5 sec from the power-on of the card.



|         |      |       |       |
|---------|------|-------|-------|
| COMMAND | 4 mA | 12 mA | 20 mA |
| MONITOR | 4 mA | 12 mA | 20 mA |



## 6 - DSPE\*JL - COMPACT ELECTRONICS

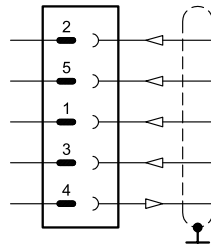
In IO-Link networks, the length of the connecting cables is limited to 20 metres. In CA versions, pin 3 and pin 5 are galvanic isolated up to 100 V to avoid earth loops.

### 6.1 - Electrical characteristics

|   |                              |            |  |
|---|------------------------------|------------|--|
| Command signal:                           | voltage (E0)<br>current (E1) | V DC<br>mA | $\pm 10$ (impedance $R_i > 11 \text{ kohm}$ )<br>$4 \div 20$ (impedance $R_i = 58 \text{ ohm}$ )   |
| Monitor signal :                          | voltage (E0)<br>current (E1) | V DC<br>mA | $0 \div 5$ (impedance $R_o > 1 \text{ kohm}$ )<br>$4 \div 20$ (impedance $R_o = 500 \text{ ohm}$ ) |
| IO-Link communication (IOL):<br>Data rate |                              | kBaud      | IO-Link Port Class B<br>38.4   |
| Can Open communication (CA):<br>Data rate |                              | kbit       | $10 \div 1000$   |
| Data register (IOL and CA versions only)  |                              |            | card voltage supply, solenoid faults (shortcircuit, bad configuration),<br>box temperature.        |
| Connection                                |                              |            | 5-pin M12 code A (IEC 61076-2-101)   |

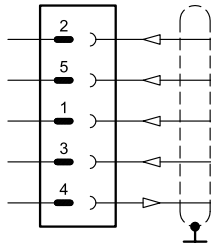
### 6.2 - Pin tables

#### 'E0' connection



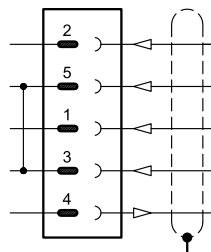
| Pin | Values      | Function                            |
|-----|-------------|-------------------------------------|
| 2   | 24V DC      | Supply voltage (solenoid and logic) |
| 5   | 0V          |                                     |
| 1   | $\pm 10V$   | Command                             |
| 3   | 0V          | Command reference                   |
| 4   | $0 \div 5V$ | Monitor (0V reference: pin 5)       |

#### 'E1' connection



| Pin | Values                 | Function                            |
|-----|------------------------|-------------------------------------|
| 2   | 24V DC                 | Supply voltage (solenoid and logic) |
| 5   | 0V                     |                                     |
| 1   | $4 \div 20 \text{ mA}$ | Command                             |
| 3   | 0V                     | Command reference                   |
| 4   | $4 \div 20 \text{ mA}$ | Monitor (0V reference: pin 5)       |

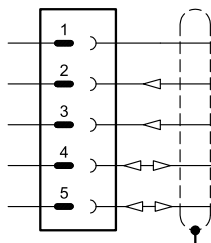
#### 'IOL' connection



| Pin | Values       | Function                         |
|-----|--------------|----------------------------------|
| 2   | 2L+ 24V DC   | Solenoid supply voltage          |
| 5   | 2L- 0V (GND) |                                  |
| 1   | 1L+ +24V DC  | Logic and IO-Link supply voltage |
| 3   | 1L- 0V (GND) |                                  |
| 4   | C/Q          | IO-Link Communication            |

**NOTE:** Pin 3 and pin 5 are linked with each other in the valve electronics. The reference potentials 1L- and 2L- of the two supply voltages must also be linked with each other on the customer side.

#### 'CA' connection



| Pin | Values   | Function        |
|-----|----------|-----------------|
| 1   | CAN_SH   | Shield          |
| 2   | 24V DC   | Supply voltage  |
| 3   | 0V (GND) |                 |
| 4   | CAN H    | Bus line (high) |
| 5   | CAN_L    | Bus line (low)  |

## 7 - DSPE\*JH - FIELDBUS ELECTRONICS

The 11 + PE pin connection allows separate supply voltage for electronics and solenoids.

Command - valve position schemes as for the standard electronics. Please refer to pictures in p. 5.3 and 5.4.

### 7.1 - Electrical characteristics

|   |            |  |
|---|------------|--|
| Command signal:<br>voltage (E0)<br>current (E1)<br>digital (FD)       | V DC<br>mA | $\pm 10$ (Impedance $R_i > 11$ kohm)<br>$4 \div 20$ (Impedance $R_i = 58$ ohm)<br>via fieldbus |
| Monitor signal (main spool position):<br>voltage (E0)<br>current (E1) | V DC<br>mA | $\pm 10$ (Impedance $R_o > 1$ kohm)<br>$4 \div 20$ (Impedance $R_o = 500$ ohm)                 |
| Communication / diagnostic  |            | via Bus register   |
| Communication interface standards                                     |            | IEC 61158  |
| Communication physical layer  |            | fast ethernet, insulated 100 Base TX   |
| Power connection  |            | 11 pin + PE (DIN 43651)  |

### 7.2 - X1 Main connection pin table

**D1: one command**

| Pin | Values                              | Function   |
|-----|-------------------------------------|--|
| 1   | 24V DC                              | Main supply voltage  |
| 2   | 0V                                  |  |
| 3   | 24V DC                              | Enable   |
| 4   | $\pm 10$ V (E0)<br>$4 \div 20$ (E1) | Command  |
| 5   | 0V                                  | Command reference signal   |
| 6   | $\pm 10$ V (E0)<br>$4 \div 20$ (E1) | Monitor<br>(0V reference pin 10)                                 |
| 7   | NC                                  | do not connect   |
| 8   | NC                                  | do not connect   |
| 9   | 24V DC                              | Logic and control supply   |
| 10  | 0V                                  |  |
| 11  | 24V DC                              | Fault (0V DC) or normal working (24V DC)<br>(0V reference pin 2) |
| 12  | GND                                 | Ground (Earth)   |

**D0: full digital**

| Pin | Values | Function  |
|-----|--------|---|
| 1   | 24V DC | Main supply voltage   |
| 2   | 0V     |   |
| 3   | 24V DC | Enable  |
| 4   | NC     | do not connect  |
| 5   | NC     | do not connect  |
| 6   | NC     | do not connect  |
| 7   | NC     | do not connect  |
| 8   | NC     | do not connect  |
| 9   | 24V DC | Logic and control supply                                    |
| 10  | 0V     |   |
| 11  | 24V DC | Fault (0V DC) or normal working (24V DC)<br>(0V ref. pin 2) |
| 12  | GND    | Ground (Earth)  |

### 7.3 - FIELDBUS connections

Please wire following guidelines provided by the related standards communication protocol. Any connections present and not used must be protected with special caps so as not to nullify the protection against atmospheric agents.

#### X2 (IN) connection M12 D 4 pin female



| Pin     | Values | Function    |
|---------|--------|-------------|
| 1       | TX+    | Transmitter |
| 2       | RX+    | Receiver    |
| 3       | TX-    | Transmitter |
| 4       | RX-    | Receiver    |
| HOUSING | shield |             |

#### X3 (OUT) connection: M12 D 4 pin female



| Pin     | Values | Function    |
|---------|--------|-------------|
| 1       | TX+    | Transmitter |
| 2       | RX+    | Receiver    |
| 3       | TX-    | Transmitter |
| 4       | RX-    | Receiver    |
| HOUSING | shield |             |

**NOTE:** Shield connection on connector housing is recommended.

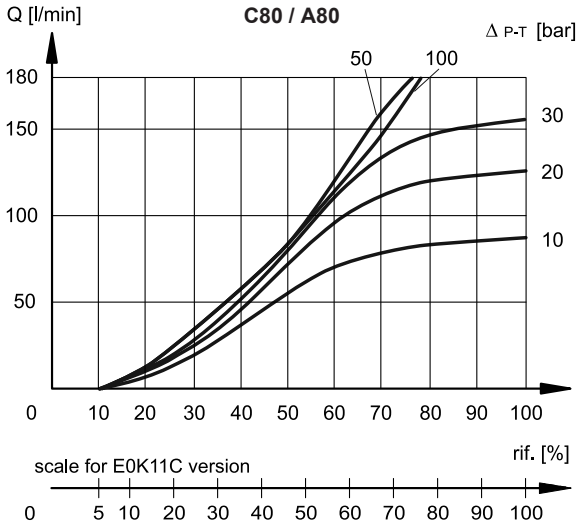


## 8 - CHARACTERISTIC CURVES

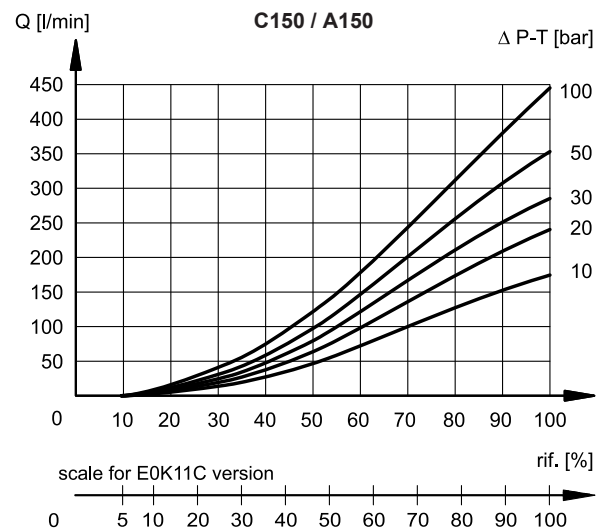
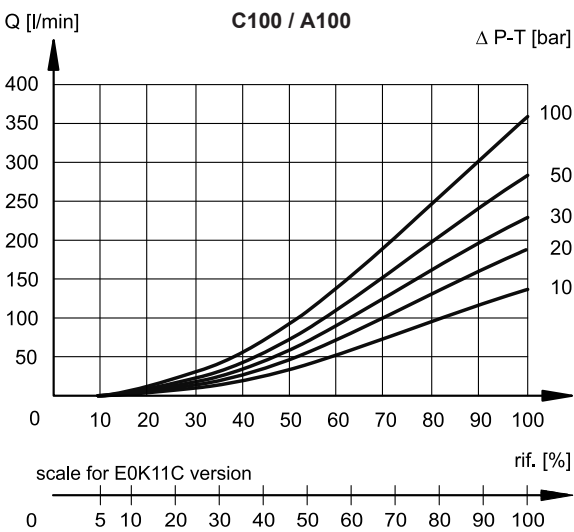
(obtained with mineral oil with viscosity of 36 cSt at 50°C and  $p = 140$  bar)

Typical flow rate curves at constant  $\Delta p$  related to the reference signal and measured for the available spools. The  $\Delta p$  values are measured between P and T valve ports.

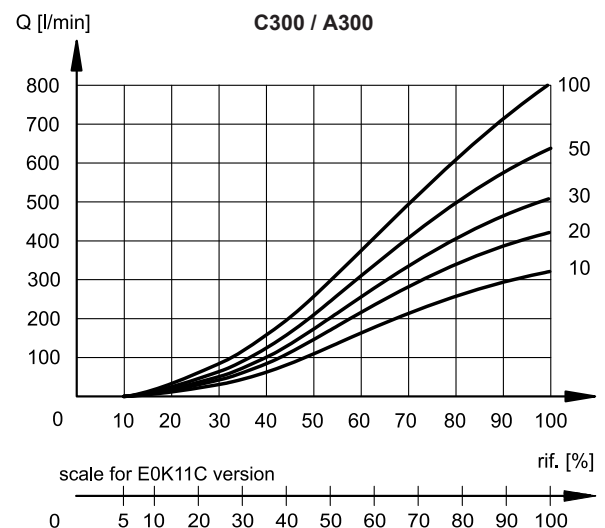
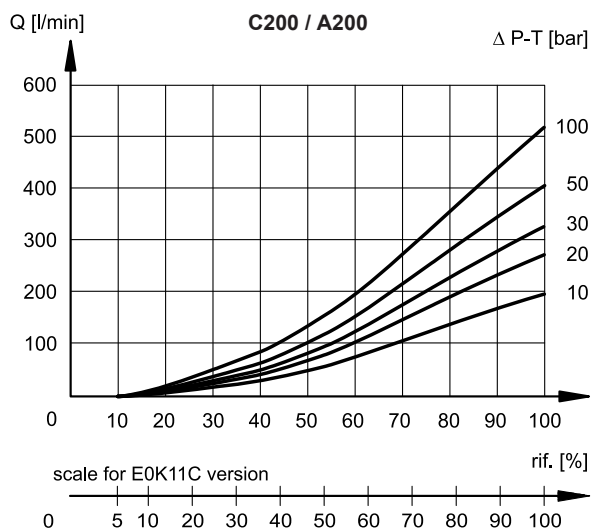
### 8.1 - Characteristic curves DSPE5J\* and DSPE5RJ\*



### 8.2 - Characteristic curves DSPE7J\*

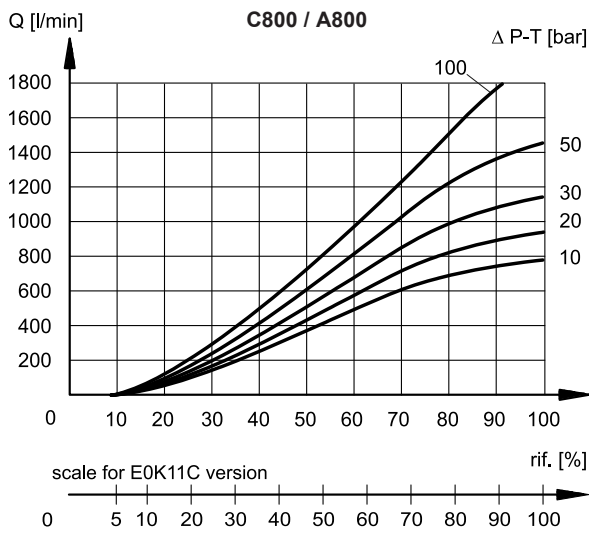
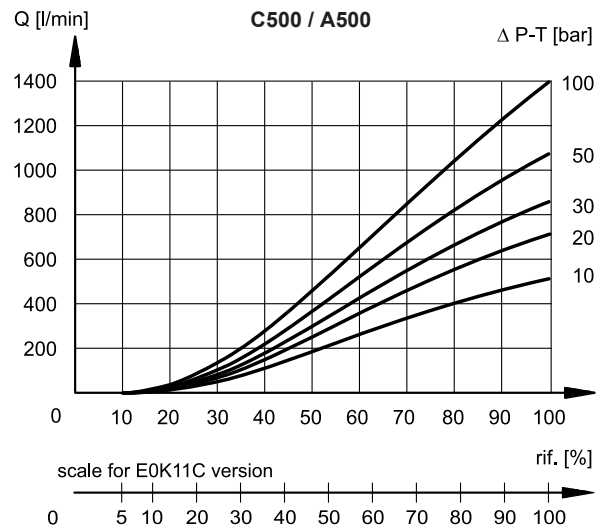
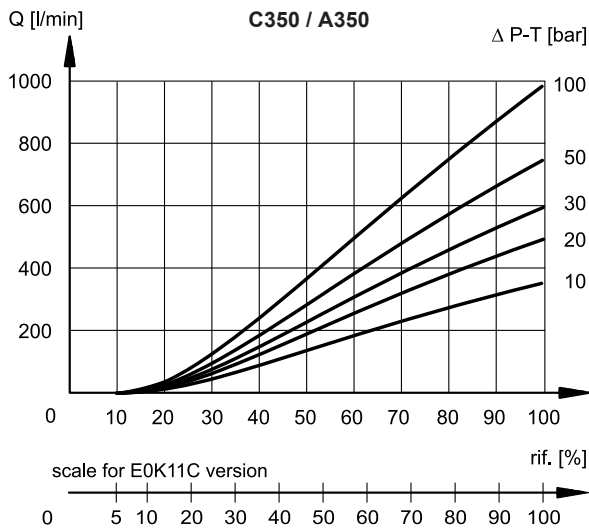


### 8.3 - Characteristic curves DSPE8J\*

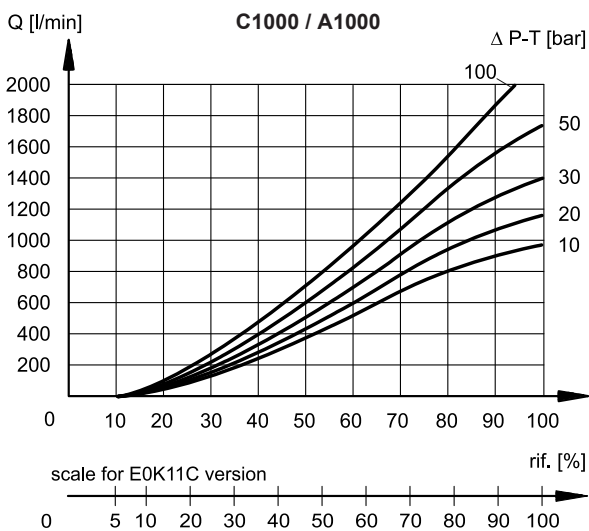




## 8.4 - Characteristic curves DSPE10J\*

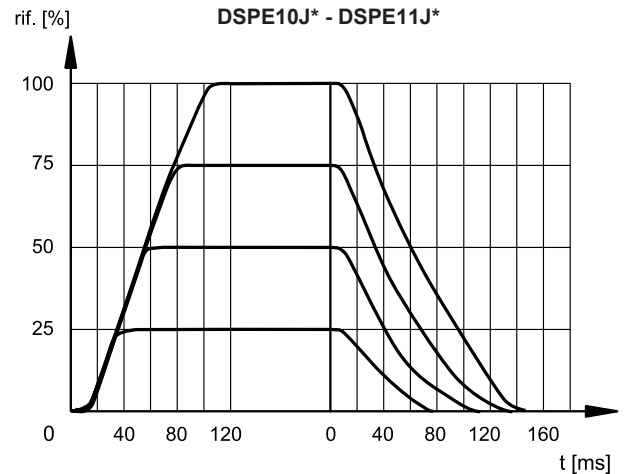
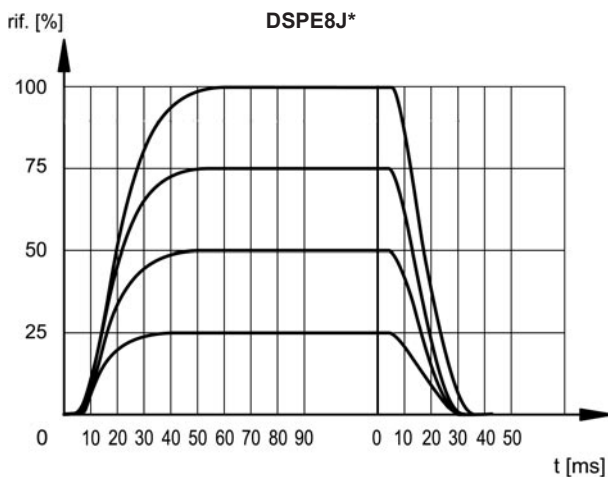
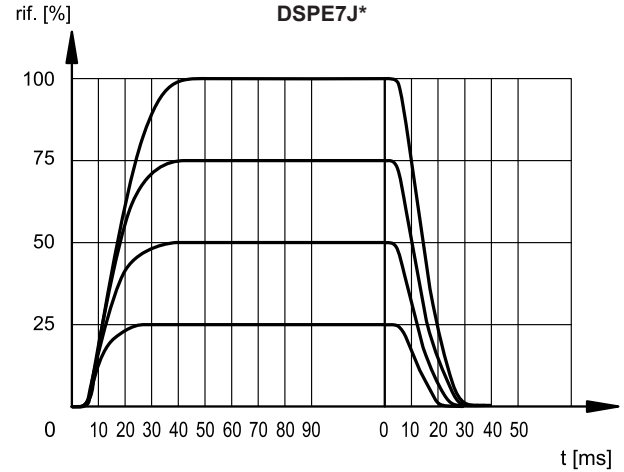
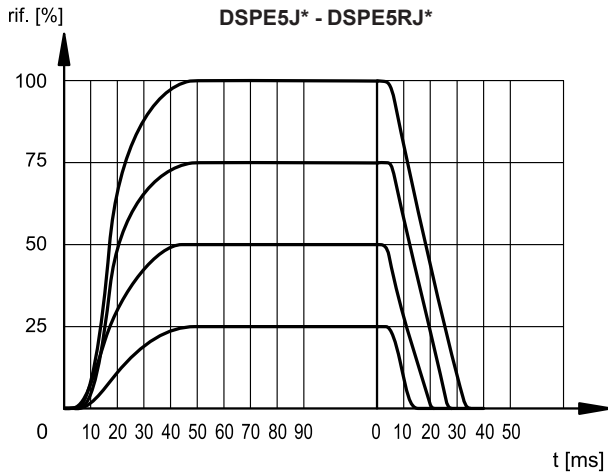


## 8.5 - Characteristic curves DSPE11J\*



## 9 - STEP RESPONSE

(obtained with mineral oil with viscosity of 36 cSt at 50°C and static pressure 100 bar)



## 10 - HYDRAULIC CHARACTERISTICS

(with mineral oil with viscosity of 36 cSt at 50°C)

| FLOW RATES  |                 | DSPE5J*<br>DSPE5RJ* | DSPE7J* | DSPE8J* | DSPE10J* | DSPE11J* |
|---|-----------------|---------------------|---------|---------|----------|----------|
| Max flow rate   | l/min           | 180                 | 450     | 800     | 1800     | 2000     |
| Pilot supply flow requested with operation 0 → 100%   | l/min           | 3.5                 | 6.4     | 15.7    | 14.5     | 14.5     |
| Pilot supply volume requested with operation 0 → 100% | cm <sup>3</sup> | 1.7                 | 3.2     | 9.2     | 21.6     | 21.6     |

| PRESSURES (bar)                        | MIN | MAX        |
|--|-----|------------|
| Pilot supply pressure on X port        | 30  | 210 (NOTE) |
| Pressure on T port with internal drain | –   | 10         |
| Pressure on T port with external drain | –   | 250        |

**NOTE:** if the valve operates with higher pressures it is necessary to use the version with external pilot and reduced pressure.

Otherwise, the valve with internal pilot and pressure reducing valve with 30 bar fixed adjustment can be ordered (pilot supply type: Z, see section 1).

## 10.1 - Pilot and drain

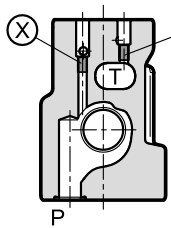
DSPE\*J\* valves are available with pilot and drain both internal or external. The version with external drain allows a higher back pressure on the unloading. The version with external pilot with reduced pressure must be used when higher pressures are needed.

The pilot supply Z type consists of an arrangement with internal pilot supply and 30 bar supply pressure for the pilot stage by means of a fixed adjustment pressure reducing valve.

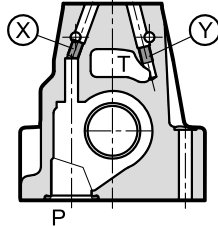
**NOTE:** The configuration of pilot and drain must be chosen when ordering. Subsequent modifications are allowed only to specialized operators with authorization and in factory.

| TYPE OF VALVE                               | Plug assembly |     |
|---|---------------|-----|
|   | X             | Y   |
| <b>IE</b> internal pilot and external drain | NO            | YES |
| <b>II</b> internal pilot and internal drain | NO            | NO  |
| <b>EE</b> external pilot and external drain | YES           | YES |
| <b>EI</b> external pilot and internal drain | YES           | NO  |

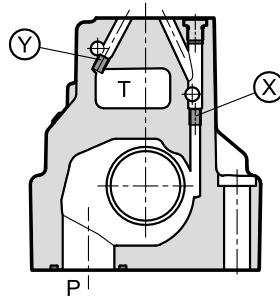
DSPE5J / DSPE5RJ



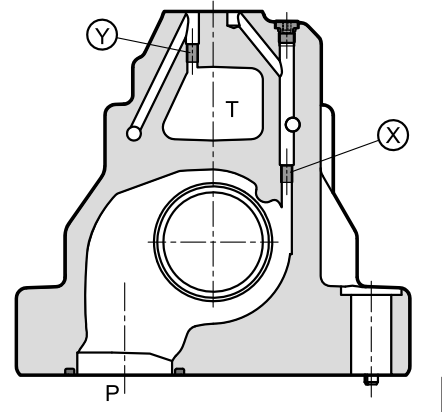
DSPE7J



DSPE8J



DSPE10J / DSPE11J

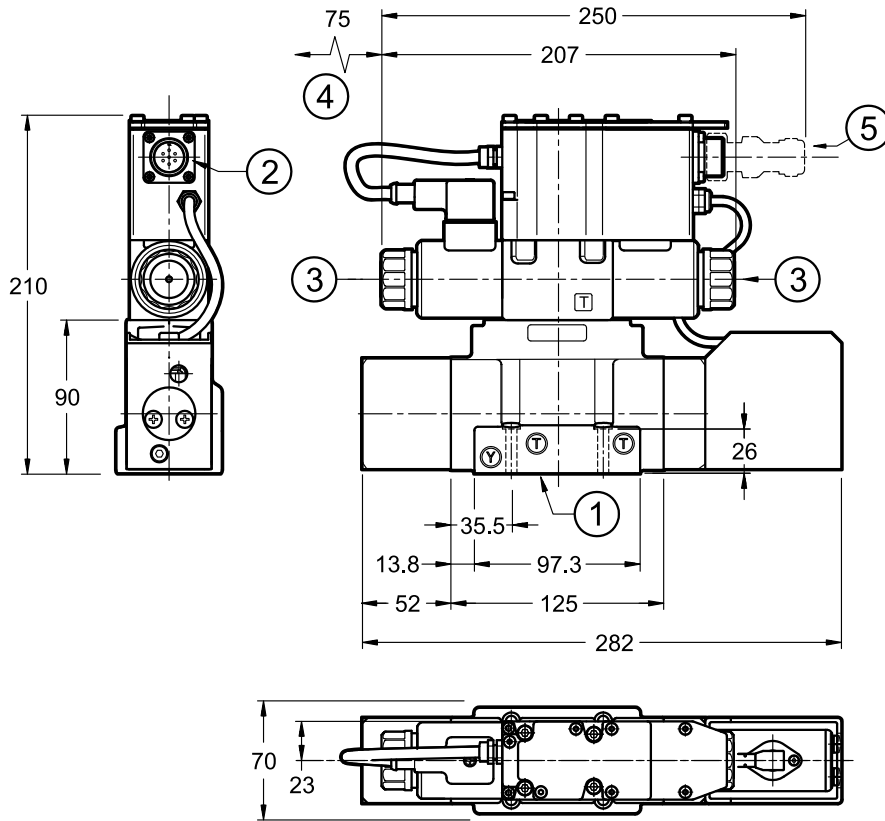


**X:** plug M5x6 for external pilot  
**Y:** plug M5x6 for external drain

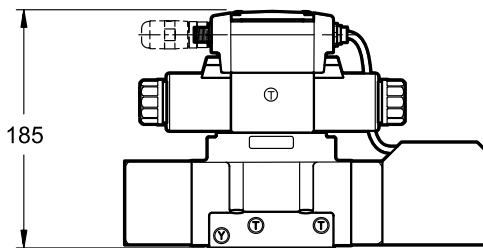
**X:** plug M6x8 for external pilot  
**Y:** plug M6x8 for external drain

11 - DSPE5J\* AND DSPE5RJ\* - OVERALL AND MOUNTING DIMENSIONS

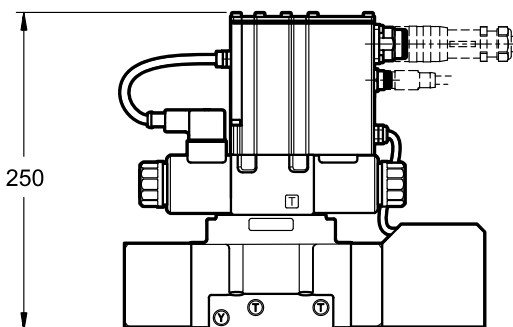
dimensions in mm



DSPE5JL



DSPE5JH



NOTES:

- Overall dimensions with Z option (fixed adjustment pressure reducing valve) at point 15.
- Mounting surface at point 16.
- Do not dismantle the transducer.

|   |   |
|---|---|
| 1 | Mounting surface with sealing rings:<br>5 OR type 2050 (12.42x1.78) - 90 Shore<br>2 OR type 2037 (9.25x1.78) - 90 Shore |
| 2 | Main connection 6 pin + PE  |
| 3 | Manual override embedded in the solenoid tube   |
| 4 | Coil removal space  |
| 5 | Mating connector<br><b>To be ordered separately.</b><br>See catalogue 89 000  |

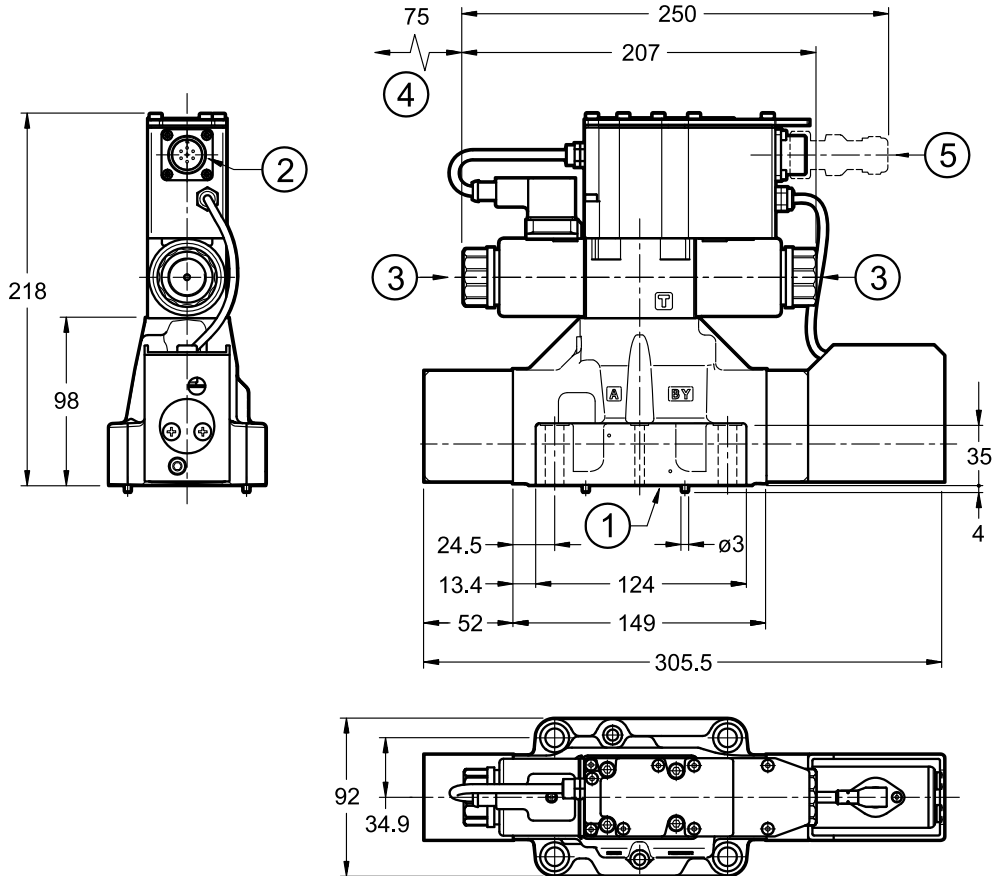
Valve fastening: 4 SHC screws M6x35 ISO 4762

Tightening torque: 8 Nm (A8.8 screws)

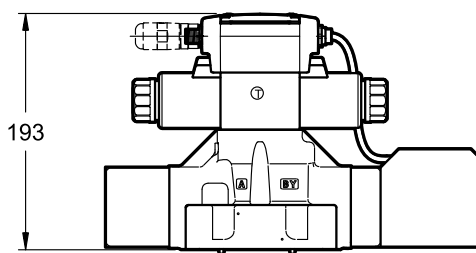
Threads of mounting holes: M6x10

## 12 - DSPE7J\* - OVERALL AND MOUNTING DIMENSIONS

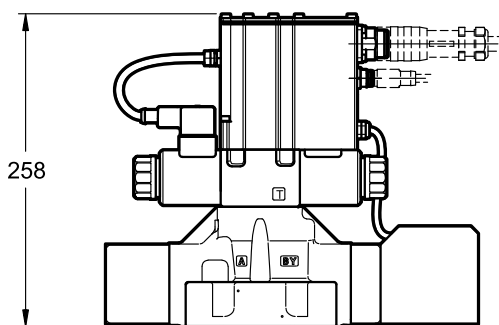
dimensions in mm



DSPE7JL



DSPE7JH



**NOTES:**

- Overall dimensions with Z option (fixed adjustment pressure reducing valve) at point 15.
- Mounting surface at point 16.
- Do not dismantle the transducer.

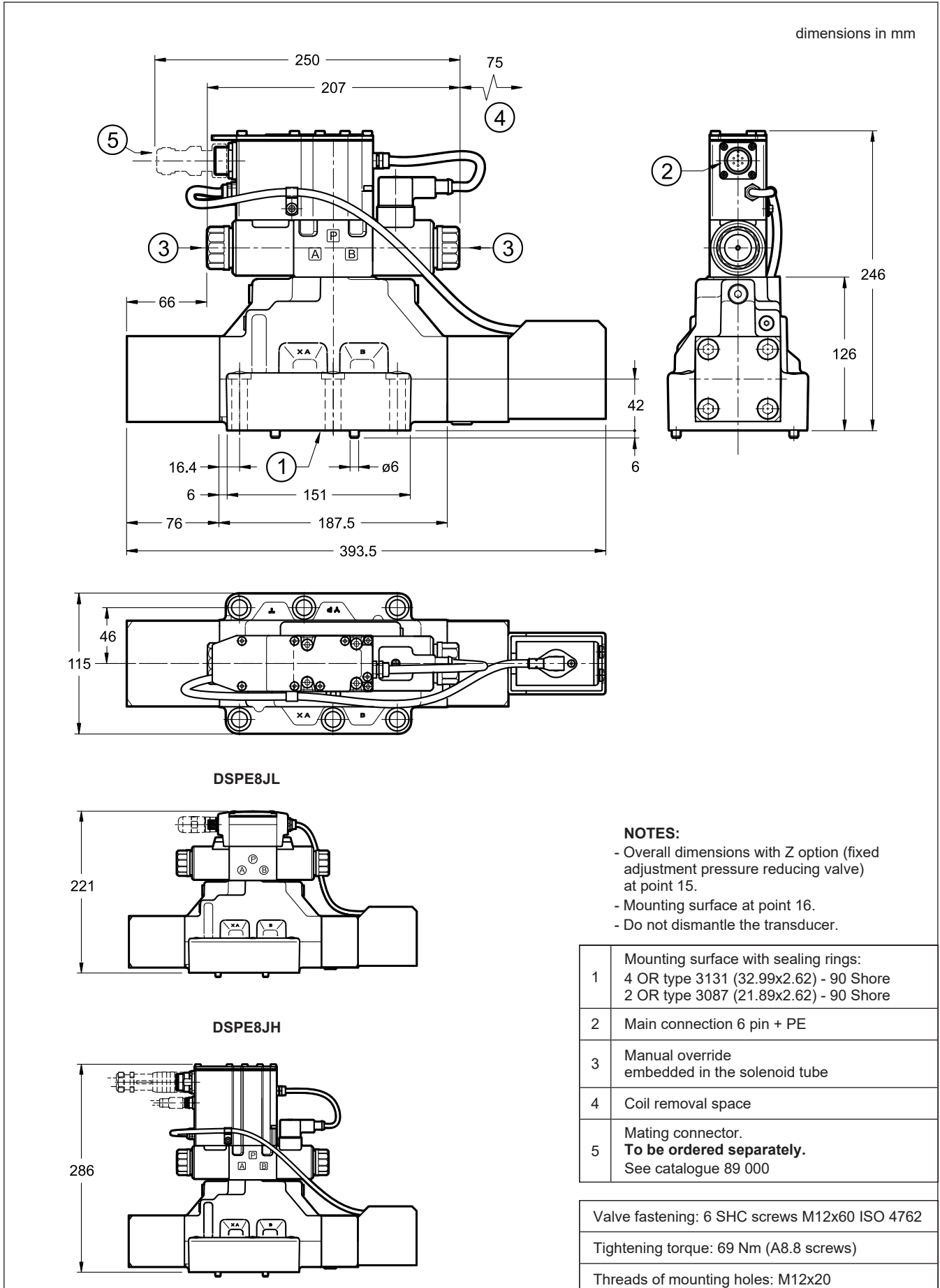
|   |   |
|---|---|
| 1 | Mounting surface with sealing rings:<br>4 OR type 130 (22.22x2.62) - 90 Shore<br>2 OR type 2043 (10.82x1.78) - 90 Shore |
| 2 | Main connection 6 pin + PE  |
| 3 | Manual override embedded in the solenoid tube   |
| 4 | Coil removal space  |
| 5 | Mating connector.<br><b>To be ordered separately.</b><br>See catalogue 89 000   |

Valve fastening: 4 SHC screws M10x50 ISO 4762  
2 SHC screws M6x50 ISO 4762

Tightening torque: M10x50: 40 Nm (A8.8 screws)  
M6x50: 8 Nm (A8.8 screws)

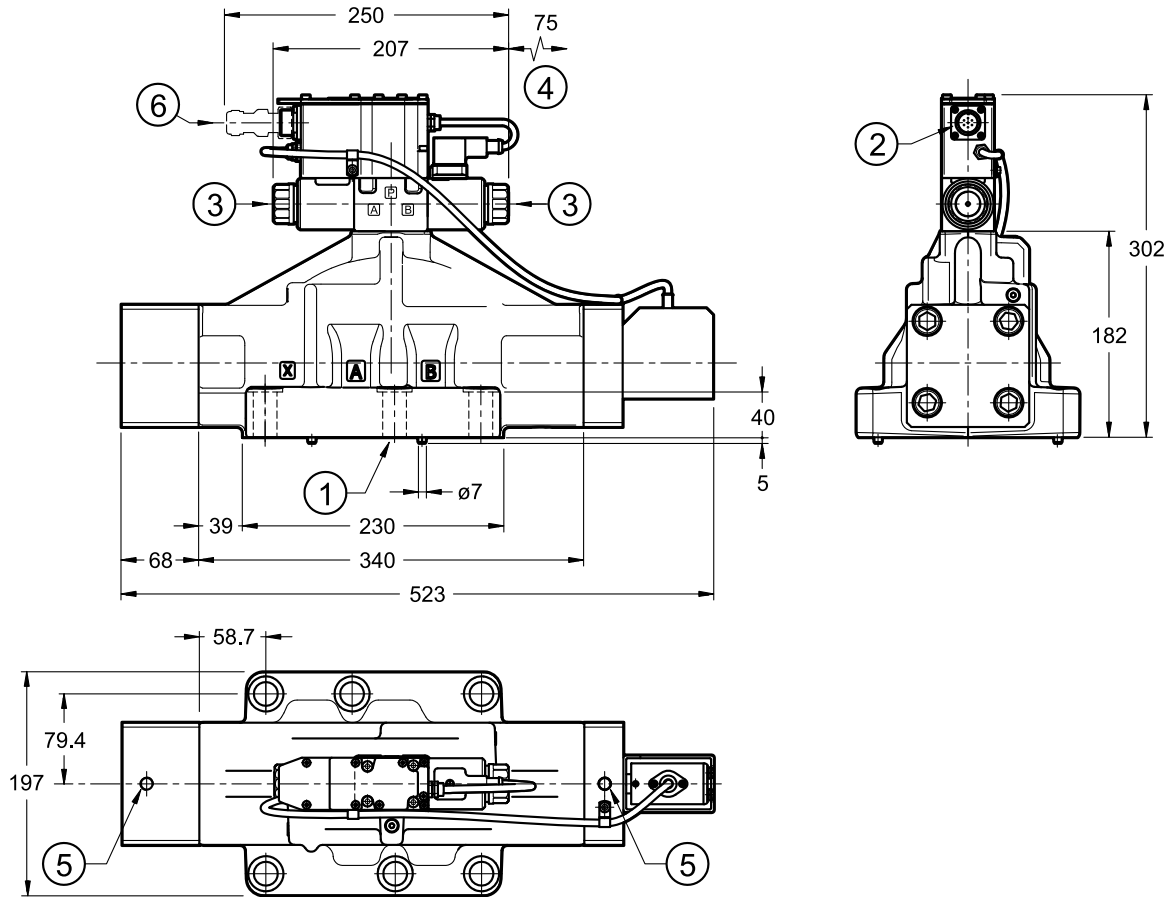
Threads of mounting holes: M6x18; M10x18

## 13 - DSPE8J\* - OVERALL AND MOUNTING DIMENSIONS

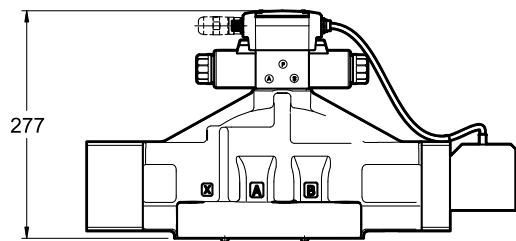


14 - DSPE10J\* / DSPE11J\* - OVERALL AND MOUNTING DIMENSIONS

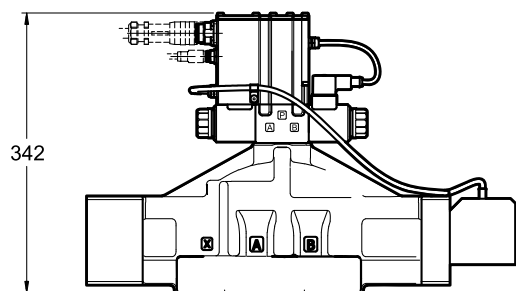
dimensions in mm



DSPE1\*JL



DSPE1\*JH



NOTES:

- Overall dimensions with Z option (fixed adjustment pressure reducing valve) at point 15.
- Mounting surface at point 16.
- Do not dismantle the transducer.

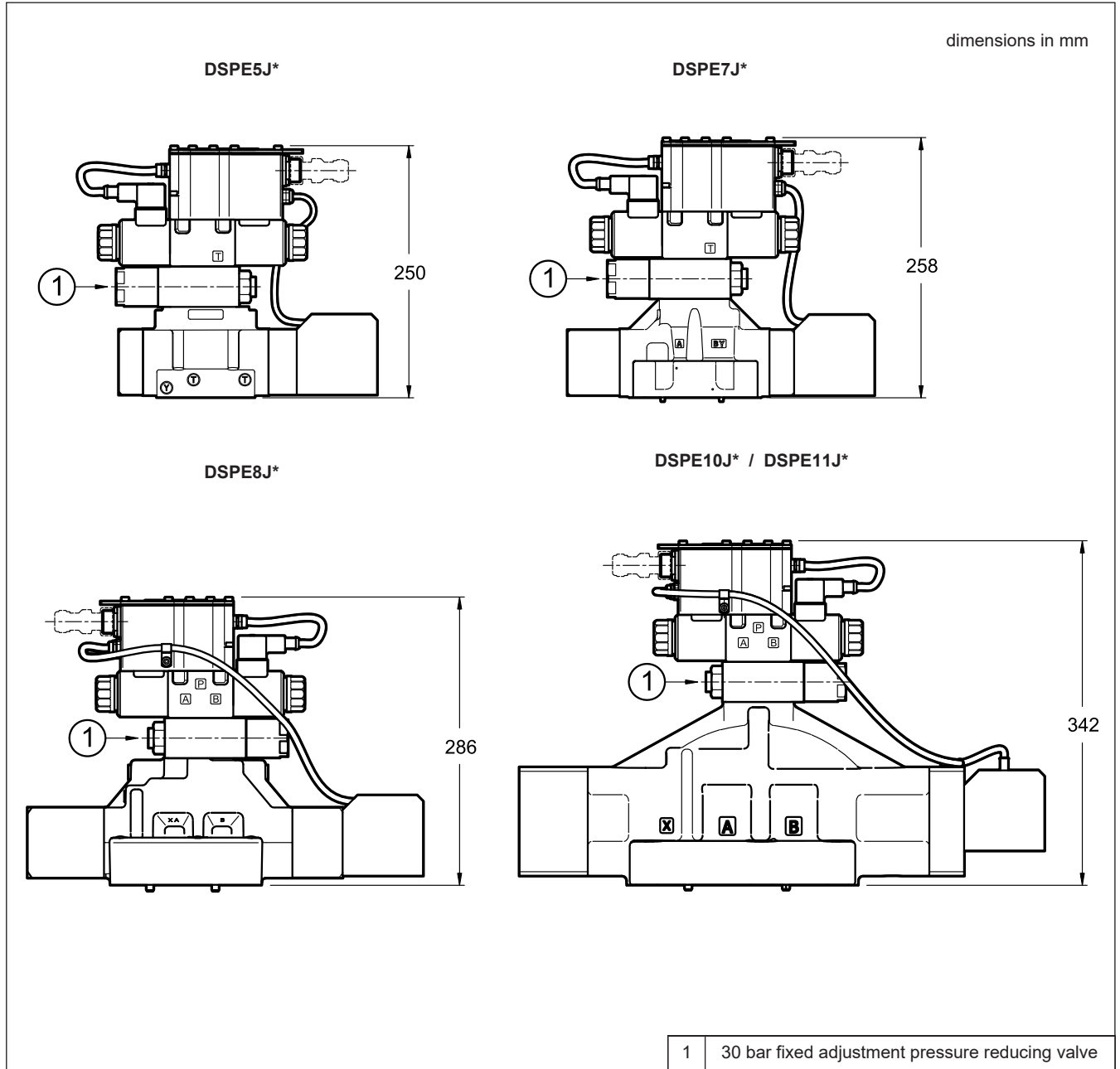
|   |  |
|---|--|
| 1 | Mounting surface with sealing rings:<br><b>DSPE10J*</b><br>4 OR type 4162 (40.86x3.53) - 90 Shore<br>2 OR type 3081 (20.24x2.62) - 90 Shore<br><b>DSPE11J*</b><br>4 OR type 4212 (53.57x3.53) - 90 Shore<br>2 OR type 3081 (20.24x2.62) - 90 Shore |
|   | 2 Main connection 6 pin + PE   |
| 3 | Manual override embedded in the solenoid tube  |
| 4 | Coil removal space   |
| 5 | M12 eyebolt seat for safe lift   |
| 6 | Mating connector.<br><b>To be ordered separately.</b><br>See catalogue 89 000  |

Valve fastening:  
6 SHC screws M20x70 ISO 4762 (supplied)

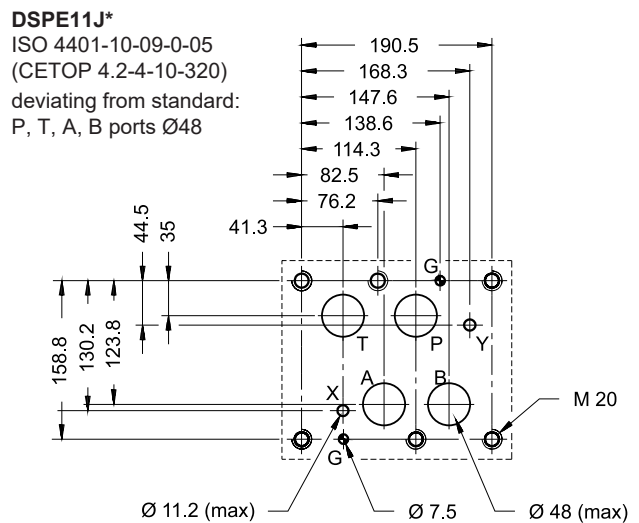
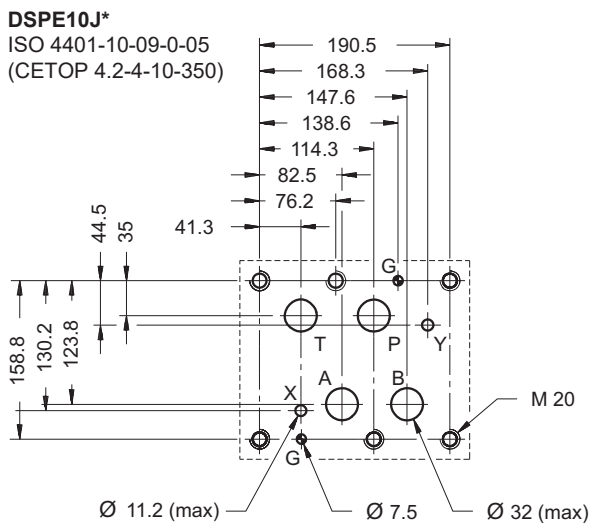
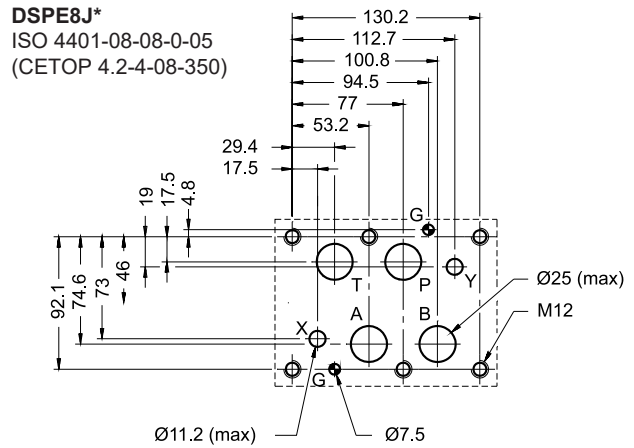
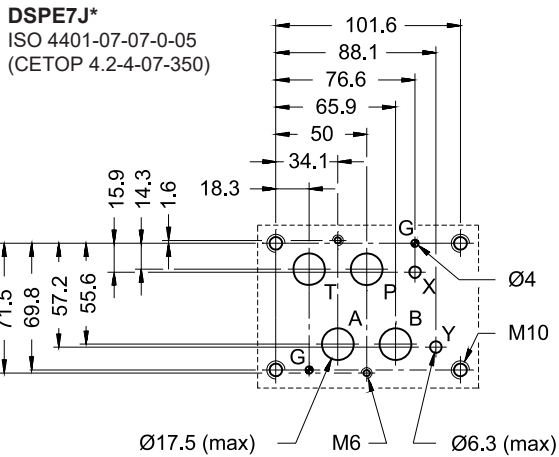
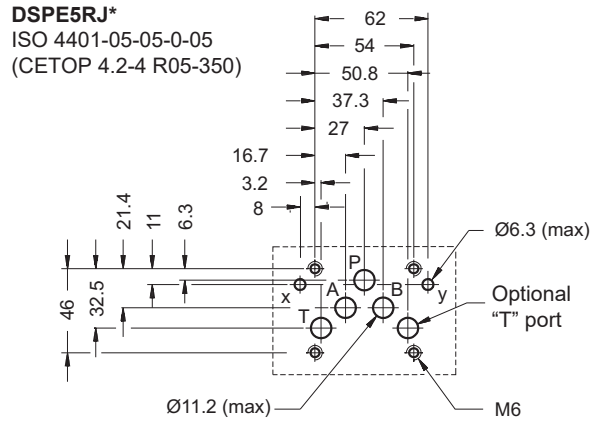
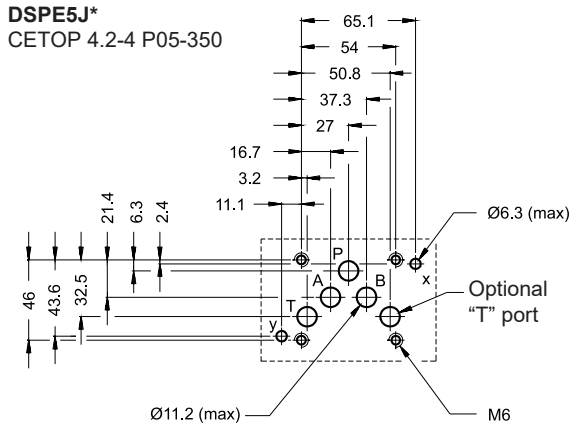
Tightening torque: 470 Nm (A10.9 screws)

Threads of mounting holes: M20x40

## 15 - OVERALL AND MOUNTING DIMENSIONS - PILOT SUPPLY TYPE Z



## 16 - MOUNTING SURFACES



## 17 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals. For fluids HFDR type (phosphate esters) use FPM seals (code V). For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department.

Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics.

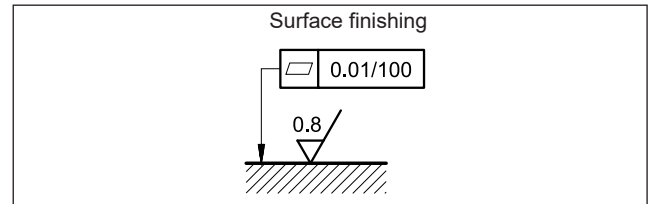
The fluid must be preserved in its physical and chemical characteristics.

## 18 - INSTALLATION

The valves can be installed in any position without impairing correct operation.

Ensure that there is no air in the hydraulic circuit.

Valves are fixed by means of screws or tie rods on a flat surface with planarity and roughness equal to or better than those indicated in the relative symbols. If minimum values are not observed, fluid can easily leak between the valve and support surface.



## 19 - ACCESSORIES

(to be ordered separately)

### 19.1 - Mating connectors

Mating connectors must be ordered separately. See catalogue 89 000.



For K11 and K16 versions we recommend the choice of a metal connector to avoid electromagnetic disturbances and to comply with EMC regulations on electromagnetic compatibility. If you opt for a plastic connector, make sure that it guarantees and maintains the IP and EMC protection characteristics of the valve.

### 19.2 - Mating connectors and caps for fieldbus communication

Duplomatic offers spare parts to be wired and also ready-to-use cord sets. Please refer to cat. 89 000.

### 19.3 - Connection cable

The optimal wiring provides for 7 isolated conductors, with separate screen for the signal wires (command, monitor) and an overall screen.

Cross section for power supply:

- up to 20 m cable length : 1,0 mm<sup>2</sup>
- up to 40 m cable length : 1,5 mm<sup>2</sup> (IO-Link excluded)

Cross section for signals (command, monitor):

- 0,50 mm<sup>2</sup>

### 19.4 - Kit for start-up LINPC-USB

Device for service start-up and diagnostic, available for valves with K11 and K16 connections. See catalogue 89 850.

## 20 - SUBPLATES

(see catalogue 51 000)

No subplates are available for DSPE5RJ\*, DSPE10J\* and DSPE11J\*.

|                             | DSPE5J*   | DSPE7J*    | DSPE8J*    |
|-----------------------------|-----------|------------|------------|
| Type with rear ports        | PME4-AI5G | PME07-AI6G | -          |
| Type with side ports        | PME4-AL5G | PME07-AL6G | PME5-AL8G  |
| P, T, A, B ports dimensions | 3/4" BSP  | 1" BSP     | 1 1/2" BSP |
| X, Y ports dimensions       | 1/4" BSP  | 1/4" BSP   | 1/4" BSP   |



# DSPE\*J\*

**DUPLOMATIC**  
MOTION SOLUTIONS  
*a member of **DAIKIN** group*

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