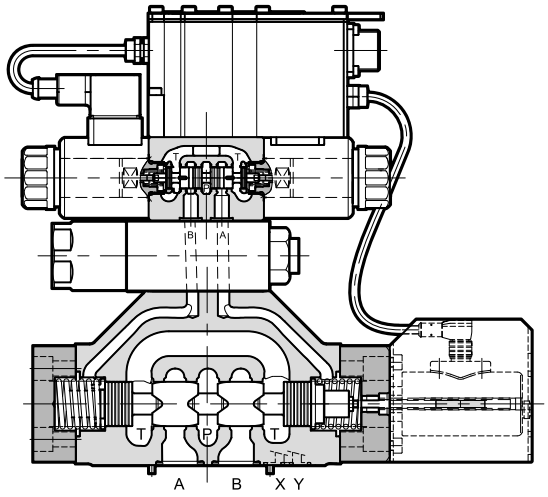
DDPE*J*

PROPORTIONAL DIRECTIONAL CONTROL VALVES WITH FEEDBACK AND INTEGRATED ELECTRONICS

SUBPLATE MOUNTING

DDPE5RJ* **ISO 4401-05**
DDPE7J* **ISO 4401-07**
DDPE8J* **ISO 4401-08**
DDPE9J* **ISO 4401-08** oversize ports
DDPE10J* **ISO 4401-10**
DDPE11J* **ISO 4401-10** oversize ports

OPERATING PRINCIPLE



— The DDPE*J* are pilot-operated proportional directional control valves with feedback, integrated electronics, and an ISO 4401-compliant mounting interface.

— Controlled by an integrated digital amplifier, the transducer and digital card enable precise spool positioning, minimizing hysteresis and response times.

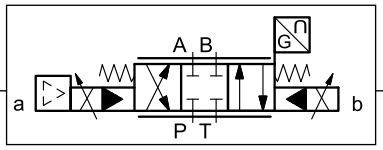
— The DDPE*J* valves are always equipped with a pressure reducing valve set to 30 bar for the pilot stage supply.

— They are available with different types of electronics, with analogue or fieldbus interfaces.

— A monitoring signal of the main spool position is provided.

— The valves are easy to install. The driver manages digital settings directly.

HYDRAULIC SYMBOL (typical)



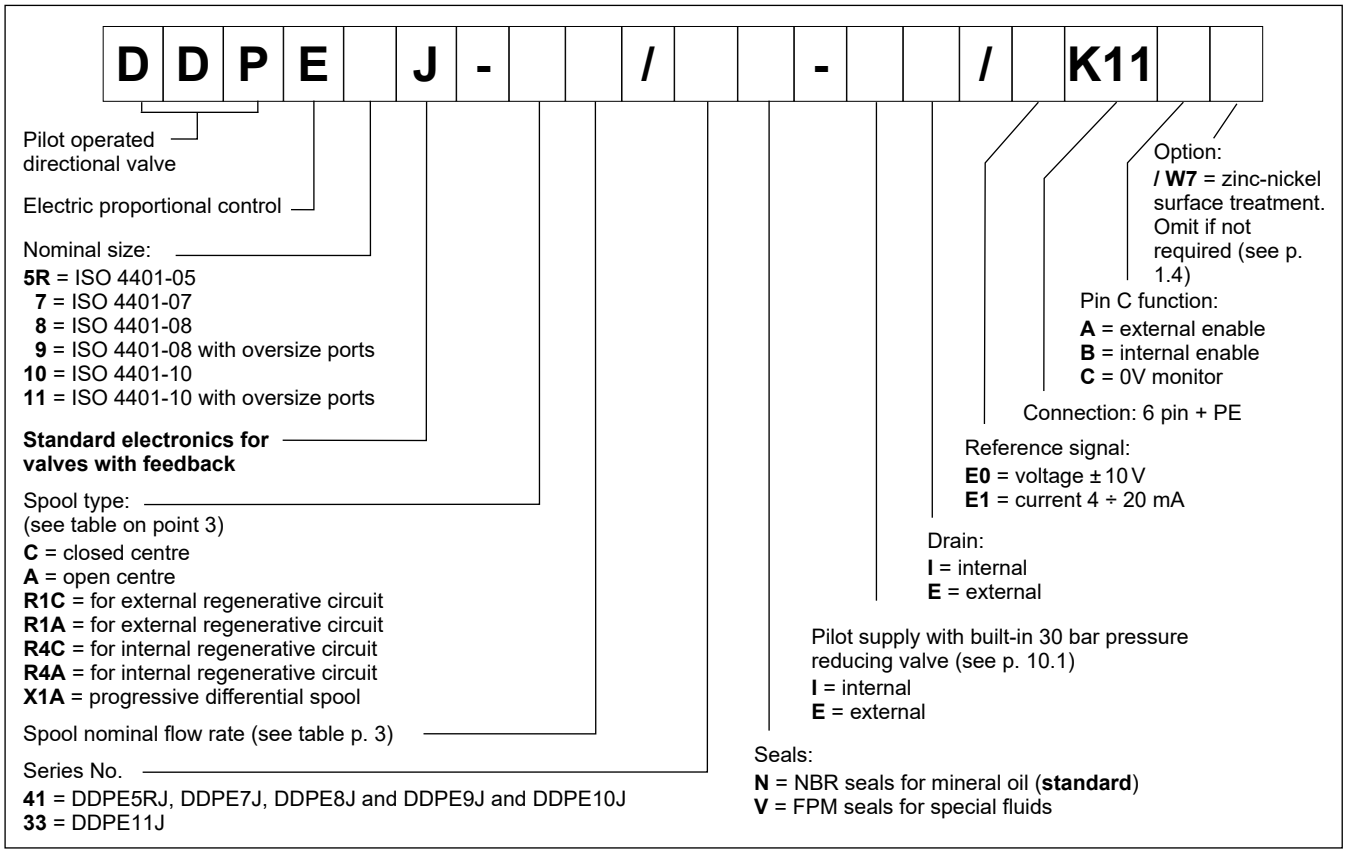
PERFORMANCES

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

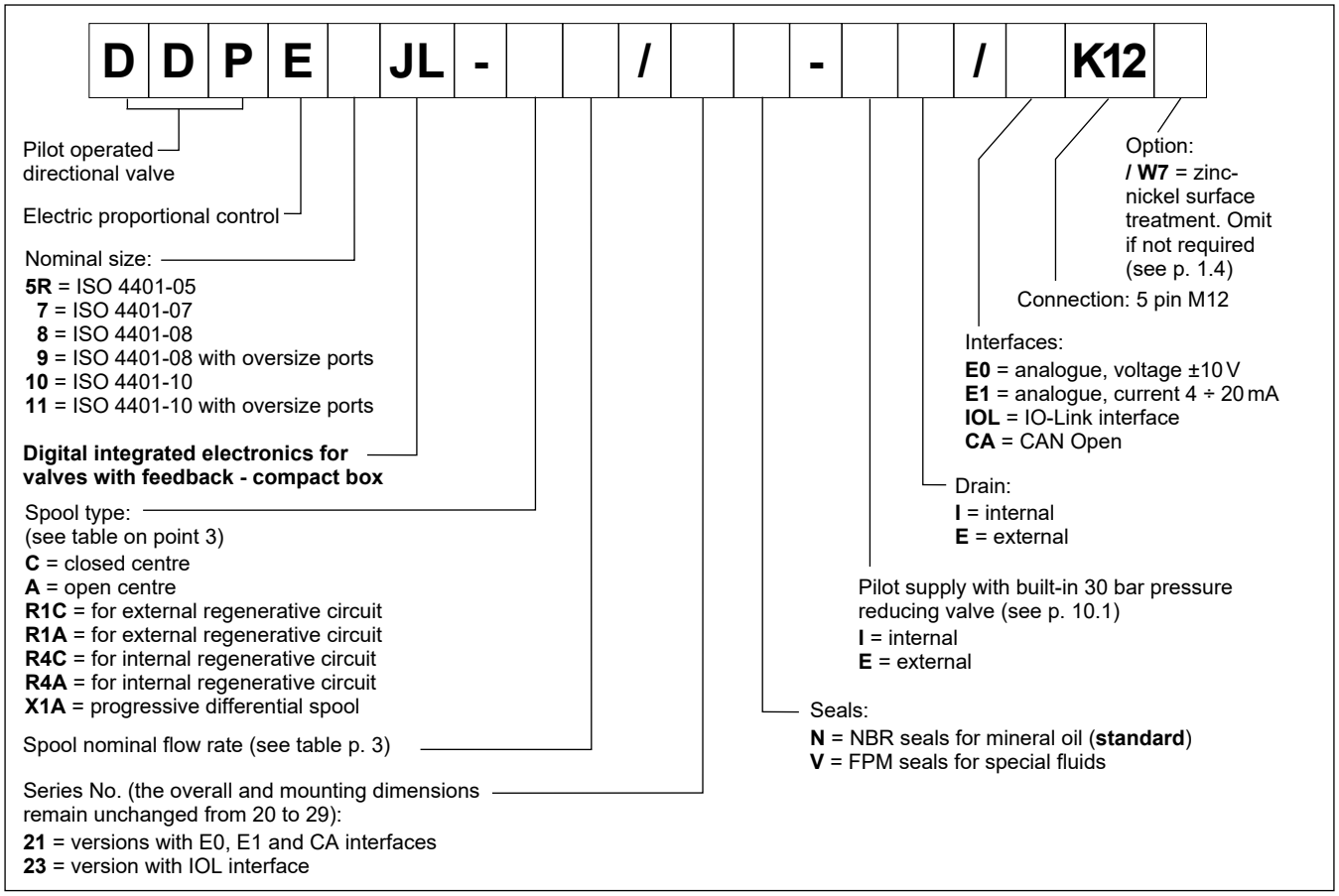
		DDPE5RJ*	DDPE7J*	DDPE8J*	DDPE9J*	DDPE10J*	DDPE11J*
Max operating pressure: P - A - B ports T port	bar	350 250			300 250	350 250	320 250
Rated flow at Δp 10 bar	l/min	100	220	400	480	800	1000
Hysteresis	% Q_{max}	< 0.5%					
Repeatability	% Q_{max}	< ± 0.2%					
Electrical characteristics		see point 4					
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	5.7	10.3	16.2	15.9	55	53

1 - IDENTIFICATION CODE

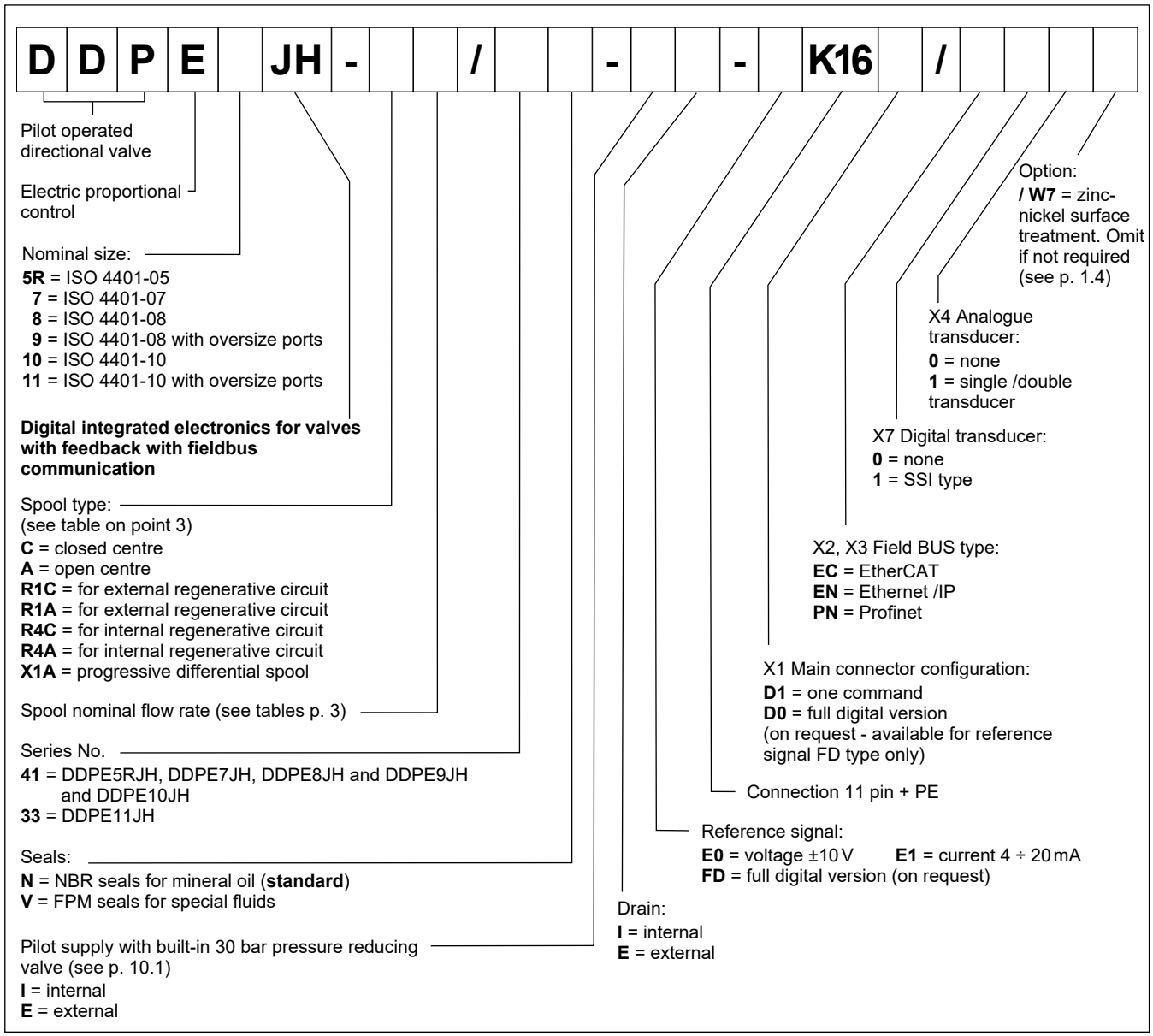
1.1 - Standard electronics



1.2 - Compact electronics



1.3 - Electronics with fieldbus communication

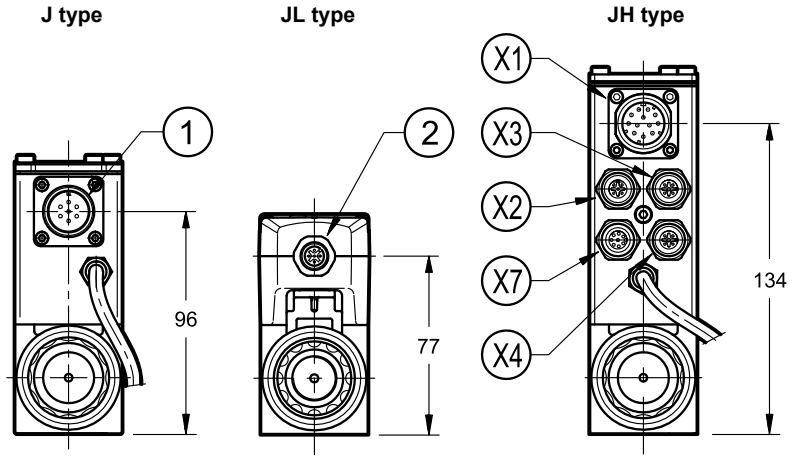


1.4 - Surface treatments

The standard valve is supplied with surface treatment of phosphating black. The zinc-nickel finishing 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



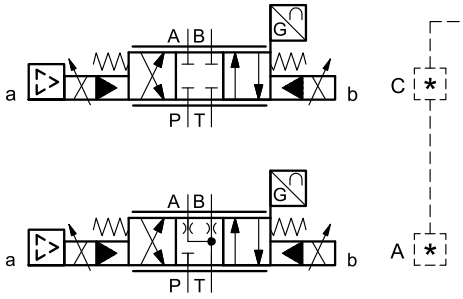
1	Connection 6 pin + PE
2	Connection M12 5 pin, code A, male
X1	Main connection 11 pin + PE
X2	Fieldbus communication (IN)
X3	Fieldbus communication (OUT)
X4	Connection for analogue transducer
X7	Connection for digital transducer

NOTE 1: Depending on the chosen version, X4 and X7 connections may not be present. Please refer to point 7 for connections descriptions and pinouts.
NOTE 2: Related mating connectors have to be ordered separately. See catalogue 89 000.

3 - AVAILABLE CONFIGURATIONS

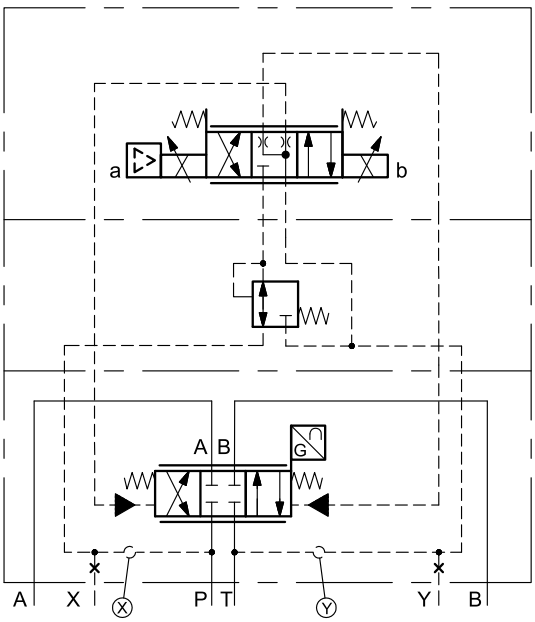
The valve configuration depends on the combination between spool type and rated flow.

3 positions with spring centreing



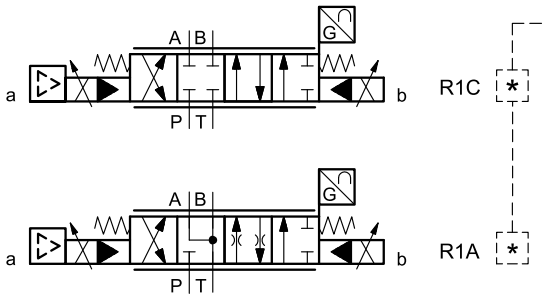
valve type	*	Nominal flow with Δp 10 bar P-T
DDPE5RJ	**100**	100 l/min
DDPE7J	**120**	120 l/min
	220	220 l/min
DDPE8J	**250**	250 l/min
	400	400 l/min
DDPE9J	**480**	480 l/min
DDPE10J	**800**	800 l/min
DDPE11J	**1000**	1000 l/min

detailed symbol (spool type C)



regenerative differential spools, external

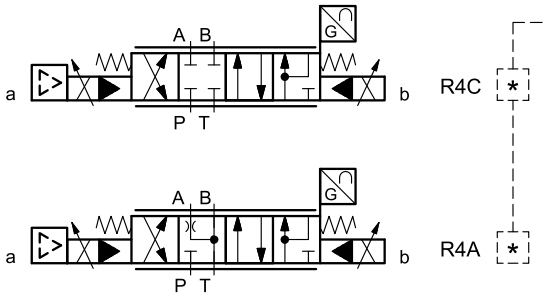
R1C and R1A spools are specific for regenerative circuits made by means of an additional external check valve.



valve type	*	Nominal flow with Δp 10 bar P-T
DDPE7J	**220**	220 l/min

regenerative differential spools, internal

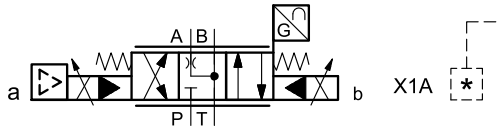
R4C and R4A spools are specific for regenerative circuits where the regenerative function is performed by the valve itself.



valve type	*	Nominal flow with Δp 10 bar P-T
DDPE7J	**220**	220 l/min
DDPE9J	**480**	480 l/min

progressive differential spool

The X1A spool is specific for alternate p/Q control, typical of plastic injection cycles.



valve type	*	Nominal flow with Δp 10 bar P-T
DDPE7J	**220**	220 l/min
DDPE8J	**430**	430 l/min

4 - ELECTRONICS COMMON DATA

Duty cycle		100% (continuous operation)
Protection class according to EN 60529 (**NOTE**): DDPE*J, DDPE*JH, DDPE*JL		 IP65/IP67 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, supply voltage failures
Electromagnetic compatibility (EMC) emissions EN 61000-6-4, immunity EN 61000-6-2		According to 2014/30/EU standards

NOTE: The IP degree is guaranteed only with 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.

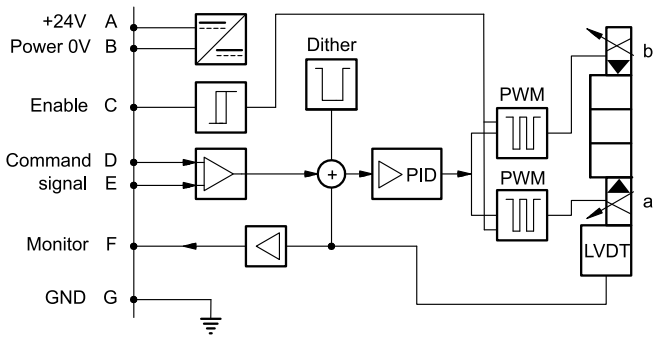
5 - DDPE*J - STANDARD ELECTRONICS

5.1 - Electrical characteristics

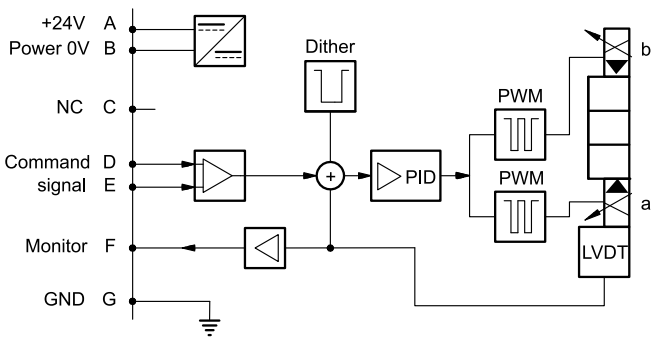
Command signal: voltage (E0) current (E1)	V DC mA	±10 (impedance Ri > 11 kohm) 4 ÷ 20 (impedance Ri = 58 ohm)
Monitor signal (current to solenoid): voltage (E0) current (E1)	V DC mA	 ±10 (impedance Ro > 1 kohm) 4 ÷ 20 (impedance Ro = 500 ohm)
Communication for diagnostic		LIN-bus Interface (by means of the optional kit)
Connection		6 pin + PE (MIL-C-5015-G - DIN EN 175201-804)

5.2 - On-board electronics diagrams

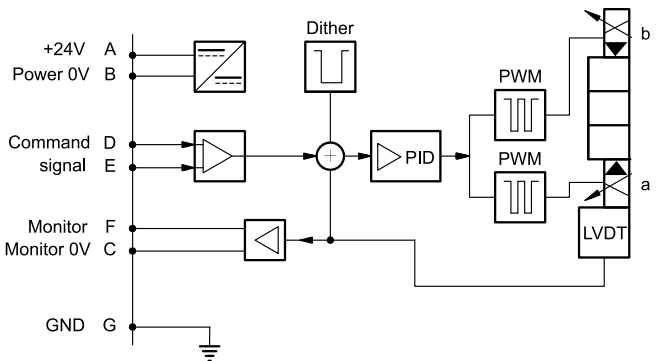
VERSION A - External Enable



VERSION B - Internal Enable

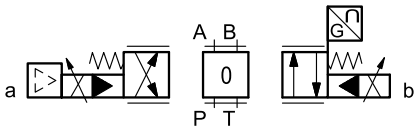


VERSION C - 0V Monitor

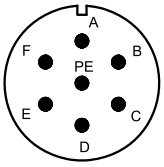


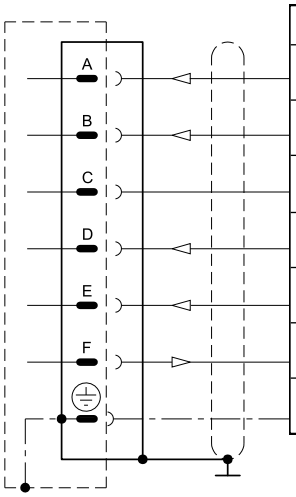
5.3 - Versions with voltage command (E0)

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**



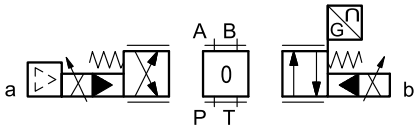


Pin	Values	version A	version B	version C
A	24 V DC	Supply Voltage		
B	0 V			
C		Enable 24 V DC	do not connect -	PIN F reference 0 V
D	± 10 V	Command		
E	0 V	Command reference		
F	± 10 V	Monitor (0V reference: pin B)		Monitor
PE	GND	Ground (Earth)		

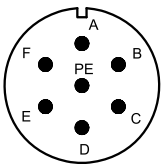
5.4 - Versions with current command (E1)

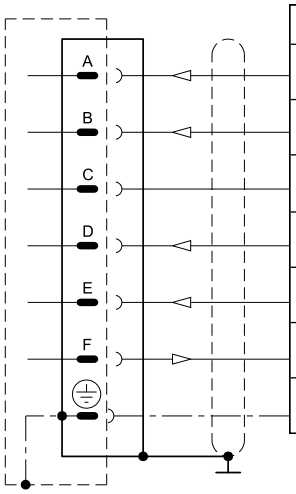
The reference signal is supplied in current 4 ÷ 20 mA. If the current for command is lower the card shows a breakdown cable error. To reset the error is sufficient to restore the signal.

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**





Pin	Values	version A	version B	version C
A	24 V DC	Supply Voltage		
B	0 V			
C		Enable 24 V DC	do not connect -	PIN F reference 0 V
D	4 ÷ 20 mA	Command		
E	0 V	Command reference		
F	4 ÷ 20 mA	Monitor (0V reference: pin B)		Monitor
PE	GND	Ground (Earth)		

6 - DDPE*JL - COMPACT ELECTRONICS

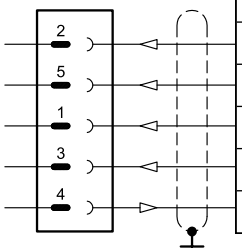
In IO-Link networks, the length of the connecting cables is limited to 20 metres. In CA versions, pin 3 and pin 5 are galvanic isolated up to 100 V to avoid earth loops.

6.1 - Electrical characteristics

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

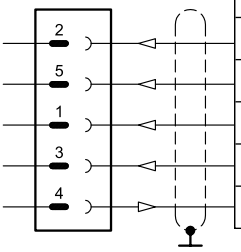
6.2 - Pin tables

'E0' connection



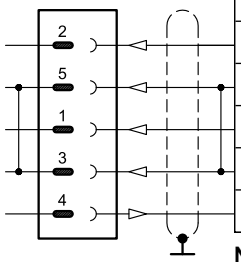
Pin	Values	Function
2	24 V DC	Supply voltage (solenoid and logic)
5	0 V	
1	± 10 V	Command
3	0V	Command reference
4	0 ÷ 5V	Monitor (0V reference: pin 5)

'E1' connection



Pin	Values	Function
2	24 V DC	Supply voltage (solenoid and logic)
5	0 V	
1	4 ÷ 20 mA	Command
3	0V	Command reference
4	4 ÷ 20 mA	Monitor (0V reference: pin 5)

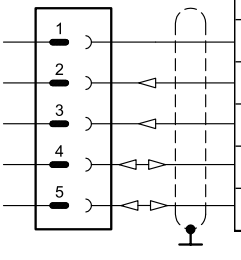
'IOL' connection



Pin	Values		Function
2	2L+	24 V DC	Solenoid supply voltage
5	2L-	0 V (GND)	
1	1L+	+24 V 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	24 V DC	Supply voltage
3	0 V (GND)	
4	CAN H	Bus line (high)
5	CAN_L	Bus line (low)

7 - DDPE*JH - FIELDBUS ELECTRONICS

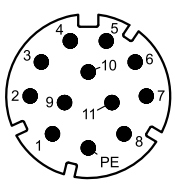
The 11+ PE pin connection allows separate supply voltage for electronics and solenoids.

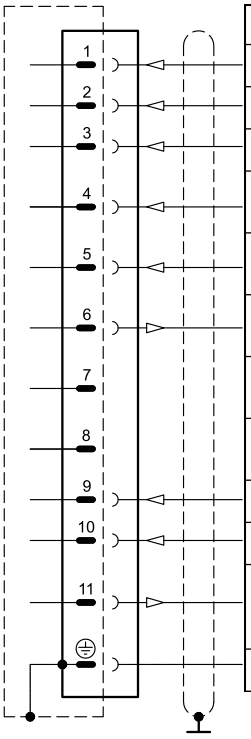
Command - valve position schemes as for the basic electronics. Please refer to pictures in point 5.3 and 5.4.

7.1 - Electrical characteristics

Command signal: voltage (E0) current (E1) digital (FD)	 V DC mA	 ±10 (impedance Ri > 11 kohm) 4 ÷ 20 (impedance Ri = 58 ohm) via fieldbus
Monitor signal (main spool position): voltage (E0) current (E1)	 V DC mA	 ±10 (impedance Ro > 1 kohm) 4 ÷ 20 (impedance Ro = 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	24 V DC	Main supply voltage
2	0 V	
3	24V DC	Enable
4	± 10 V (E0) 4 ÷ 20 (E1)	Command
5	0 V	Command reference signal
6	± 10 V (E0) 4 ÷ 20 (E1)	Monitor (0V reference pin 10)
7	NC	do not connect
8	NC	do not connect
9	24 V DC	Logic and control supply
10	0 V	
11	24 V DC	Fault (0V DC) or normal working (24V DC) (0V reference pin 2)
12	GND	Ground (Earth)

D0: full digital

Pin	Values	Function
1	24 V DC	Main supply voltage
2	0 V	
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	24 V DC	Logic and control supply
10	0 V	
11	24 V DC	Fault (0V DC) or normal working (24V DC) (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

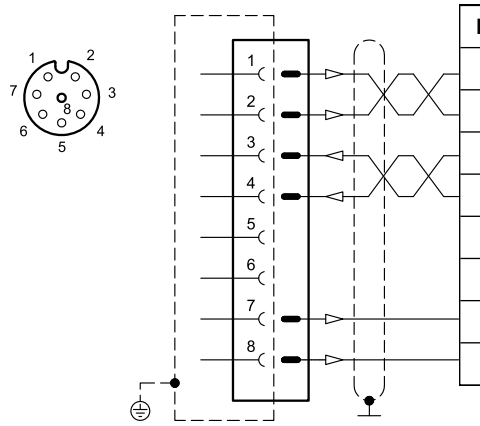
Pin	Values	Function
1	TX+	Transmitter
2	RX+	Receiver
3	TX-	Transmitter
4	RX-	Receiver
HOUSING	shield	

NOTE: Shield connection on connector housing is recommended.

7.4 - Digital transducer connection

X7 connection: M12 A 8 pin female

VERSION 1: SSI type



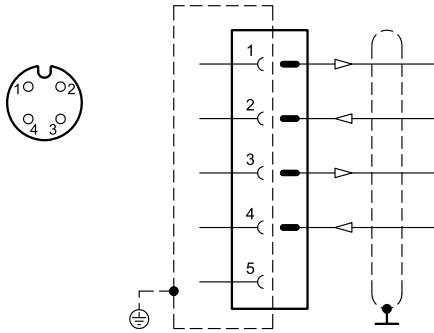
Pin	SSI Values	Function	Notes
1	CLK+	Serial synchronous clock (+)	Input - digital signal
2	CLK-	Serial synchronous clock (-)	
3	MIS0+	Serial position data (+)	
4	MIS0-	Serial position data (-)	
5	NC	-	do not connect
6	NC	-	
7	+24 V	transducer power supply	Output power supply
8	0 V	-	Common GND

7.5 - Analogue transducer connection

X4 connection: M12 A 4 pin female

VERSION 1: single / double transducer

(single or double is a software-selectable option)



Pin	Values	Notes
1	+24 V	Remote transducer power supply (out) 100 mA
2	±10 V 4 ÷20 mA	Input signal of transducer 1 (range software selectable)
3	0 V	Common reference signal for transducer power and signals
4	±10 V 4 ÷20 mA	Input signal of transducer 2 (range software selectable)
5	-	

8 - CHARACTERISTIC CURVES

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

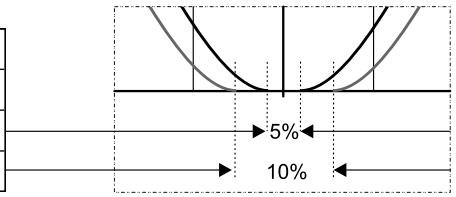
Typical flow rate curves at constant Δp (**5 bar** per control edge), related to the reference signal.

DDPE*J, spools types C, A and R*:

Valves with spools types C, A and R* are configured to start opening at a given percentage of the reference signal. This percentage varies depending on the version: 5% for DDPE*J...E*K11C and 10% for DDPE*J...E*K11A and DDPE*J...E*K11B.

See table below.

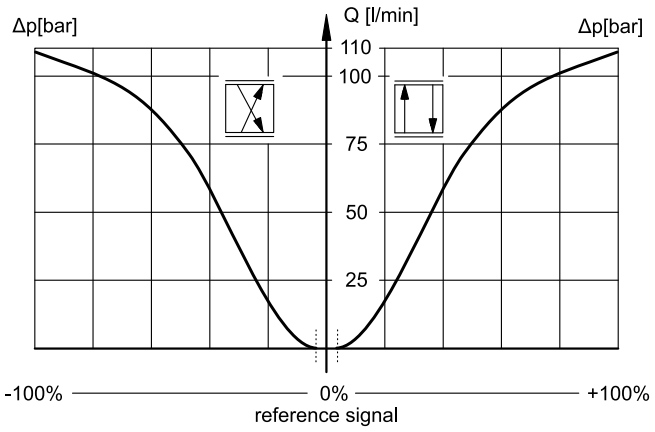
		opening values	
valve type		**E0** [±10 V]	**E1** [4 ÷ 20 mA]
DDPE*J...**E*K11C**	5% ref.	-0.5...0...+0.5	11.6 ...12...12.4
DDPE*J...**E*K11A**, ...**E*K11B**	10% ref	-1...0...+1	11.2...12...12.8



DDPE*JH, spools types C, A and R*: the start opening percentage is 10%.

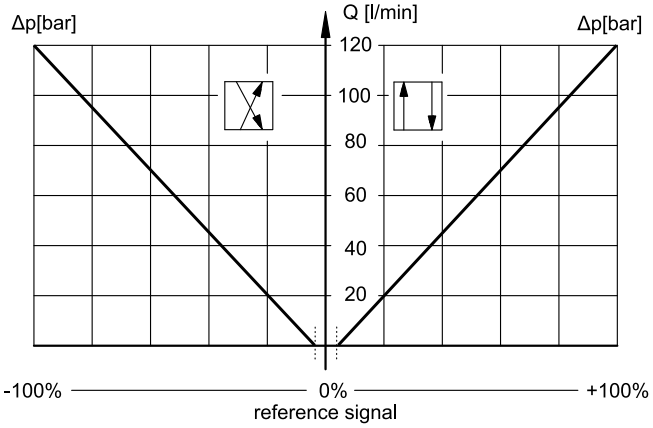
8.1 - Characteristic curves DDPE5RJ *

SPOOL C100 / A100

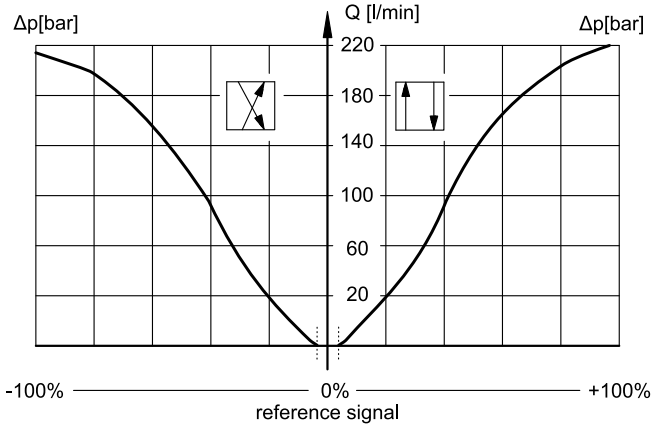


8.2 - Characteristic curves DDPE7J*

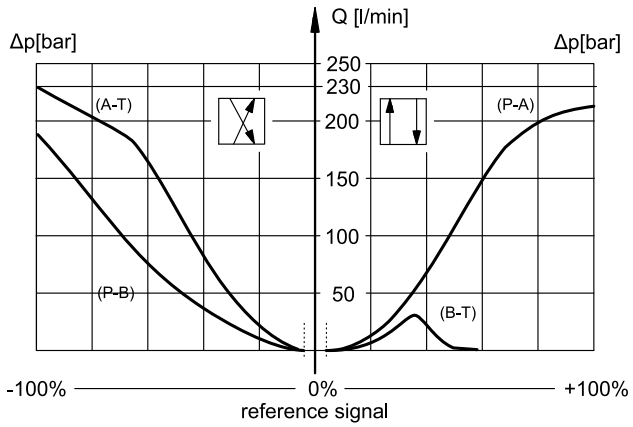
SPOOL C120 / A120



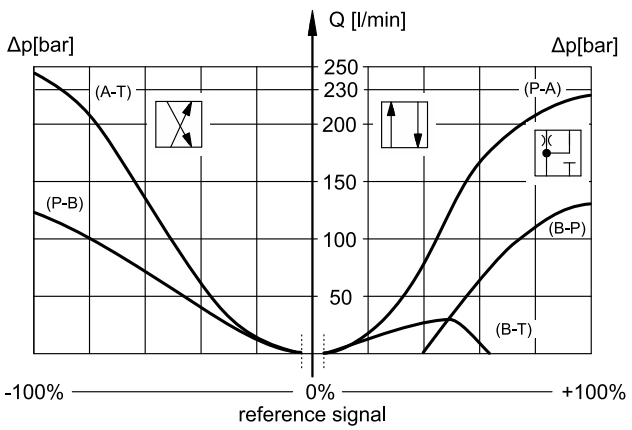
SPOOL C220 / A220



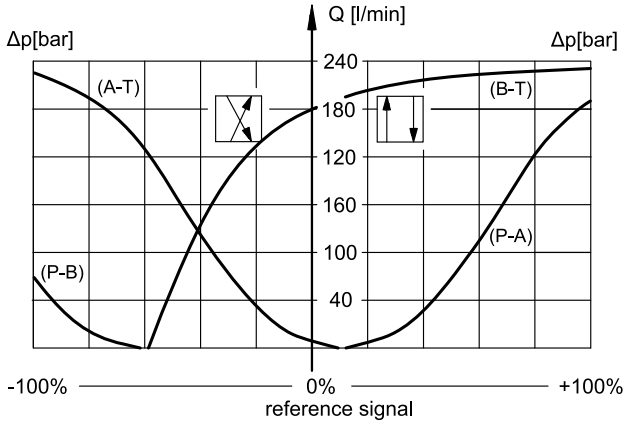
SPOOL R1C220 / R1A220



SPOOL R4C220 / R4A220

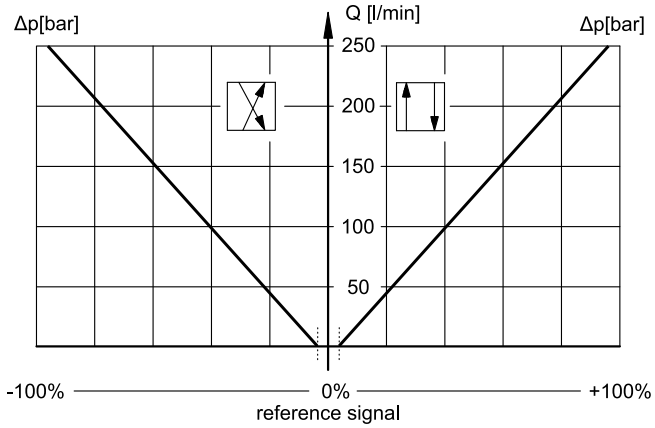


SPOOL X1A220

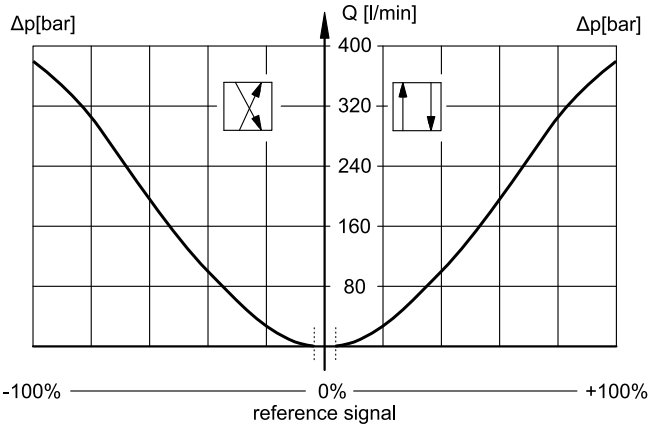


8.3 - Characteristic curves DDPE8J*

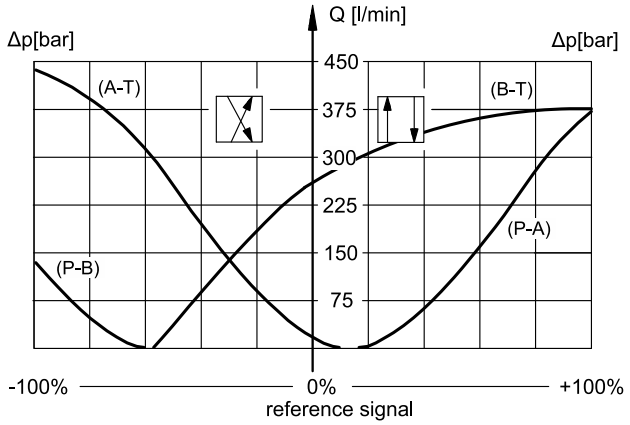
SPOOL C250 / A250



SPOOL C400 / A400

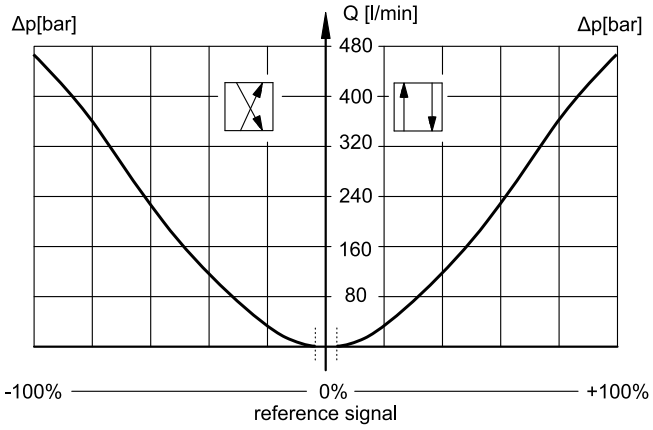


SPOOL X1A430

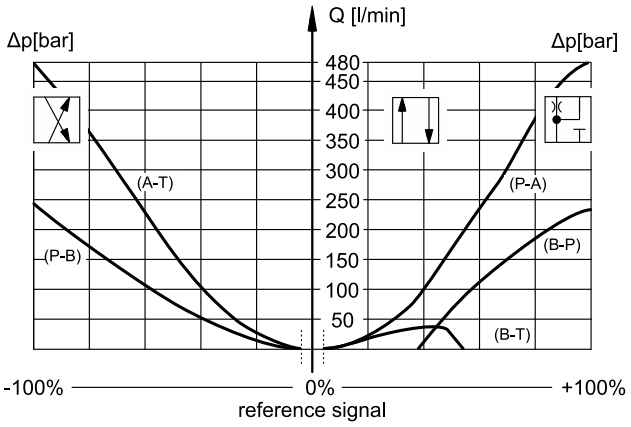


8.4 - Characteristic curves DDPE9J*

SPOOL C480 / A480

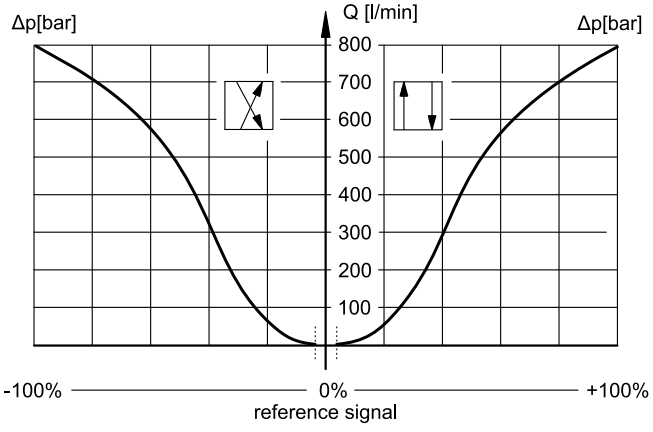


SPOOL R4C480 / R4A480



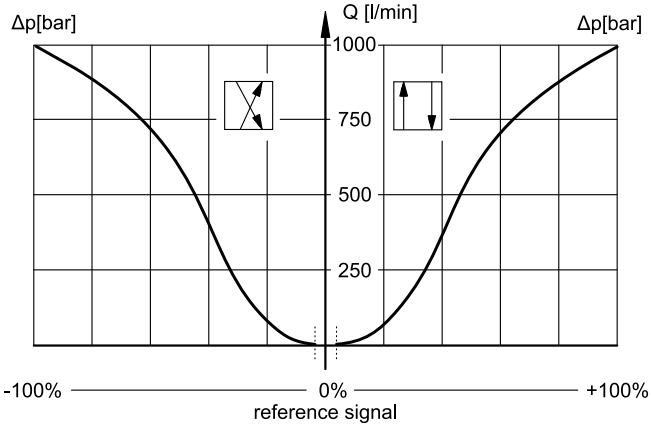
8.5 - Characteristic curves DDPE10J*

SPOOL C800 / A800



8.6 - Characteristic curves DDPE11J*

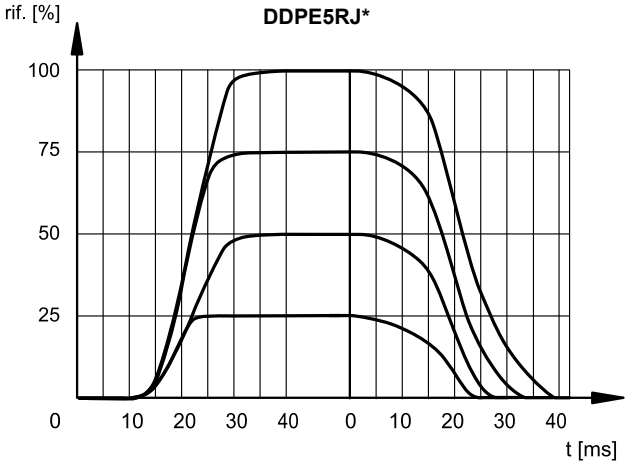
SPOOL C1000 / A1000



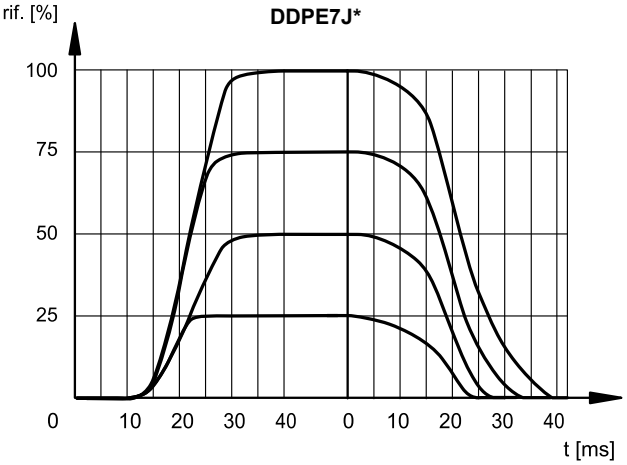
9 - STEP RESPONSE

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

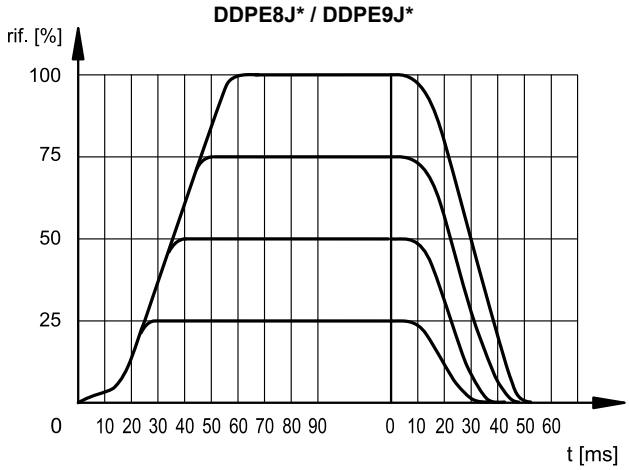
DDPE5RJ*



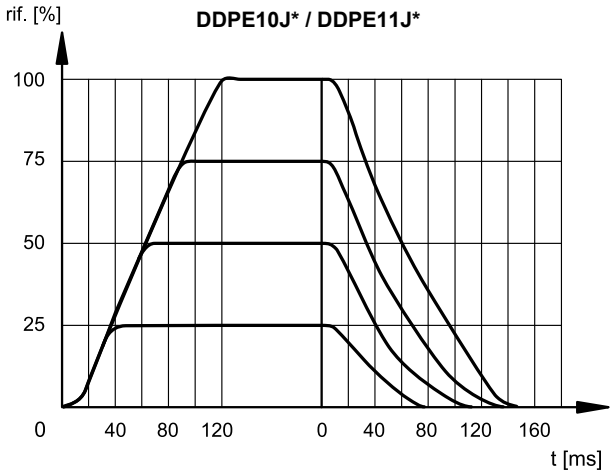
DDPE7J*



DDPE8J* / DDPE9J*



DDPE10J* / DDPE11J*



10 - HYDRAULIC CHARACTERISTICS

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

		DDPE5RJ*	DDPE7J*	DDPE8J*	DDPE9J*	DDPE10J*	DDPE11J*
Max flow rate	l/min	180	450	900	1000	1600	3500
Piloting flow requested with operation 0 →100%	l/min	7	13	28	28	35	35
Piloting volume requested with operation 0 →100%	cm^3	1.7	3.2	10	10	22	22

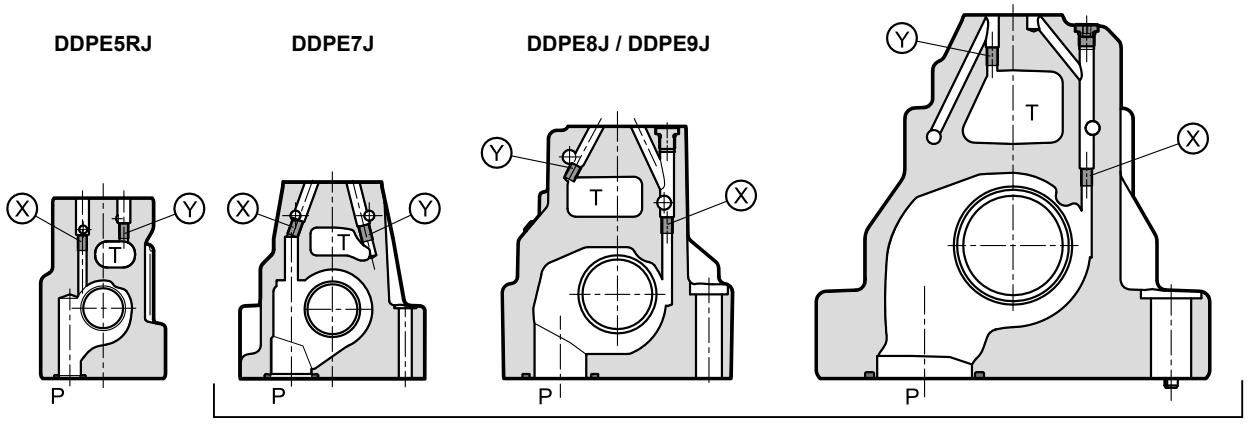
10.1 - Pilot supply and drain

The DDPE*J* valves are available with internal or external pilot supply and are always equipped with a 30 bar pressure reducing valve. Drain can be internal or external. The version with external drain allows a higher back pressure on the T line.

NOTE: The configuration of pilots and drains 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
IE	internal pilot and external drain	NO	YES
II	internal pilot and internal drain	NO	NO
EE	external pilot and external drain	YES	YES
EI	external pilot and internal drain	YES	NO

DDPE5RJ **DDPE7J** **DDPE8J / DDPE9J** **DDPE10J / DDPE11J**



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

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

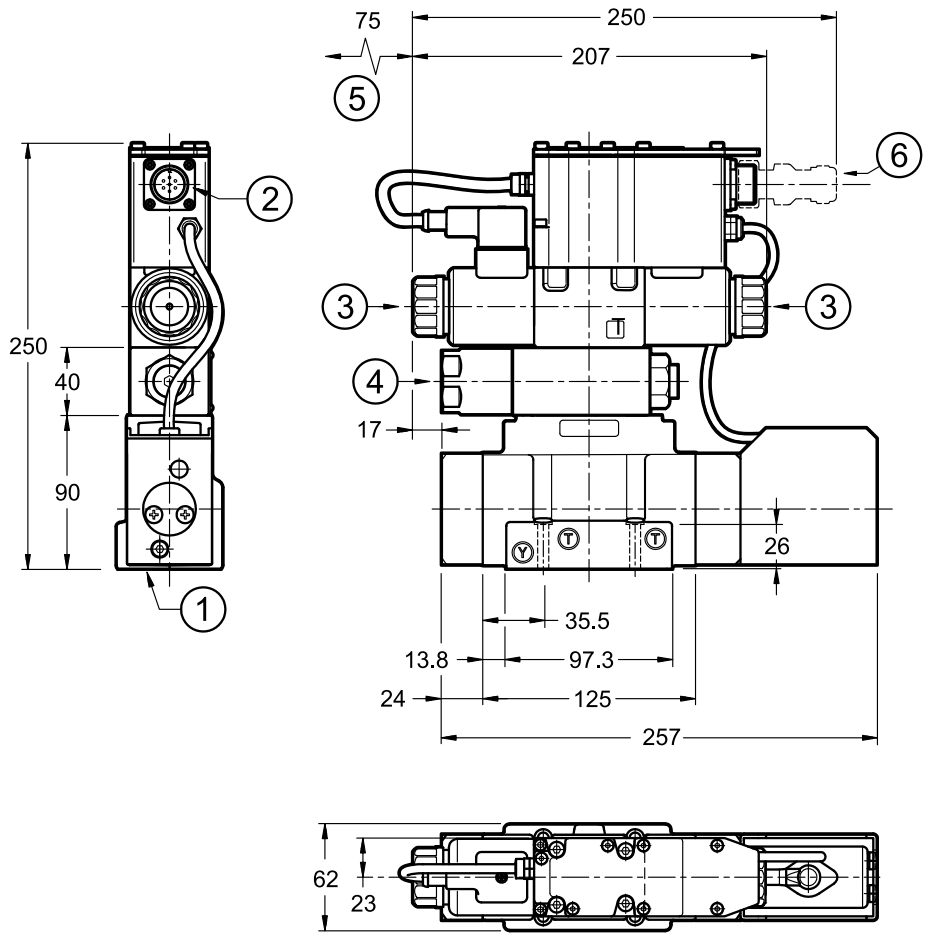
PRESSURES (bar)

Pressure	MIN	MAX
Pilot pressure on X port	30 (**NOTE**)	350
Pressure on T port with internal drain	-	10
Pressure on T port with external drain	-	250

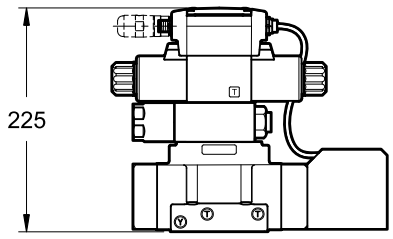
NOTE: The valve works well also with inlet pressure, starting from 10 bar. Low pressure affects response times, that will be slower.

11 - DDPE5RJ* - OVERALL AND MOUNTING DIMENSIONS

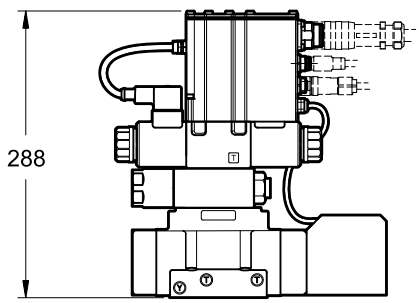
dimensions in mm



DDPE5RJL



DDPE5RJH



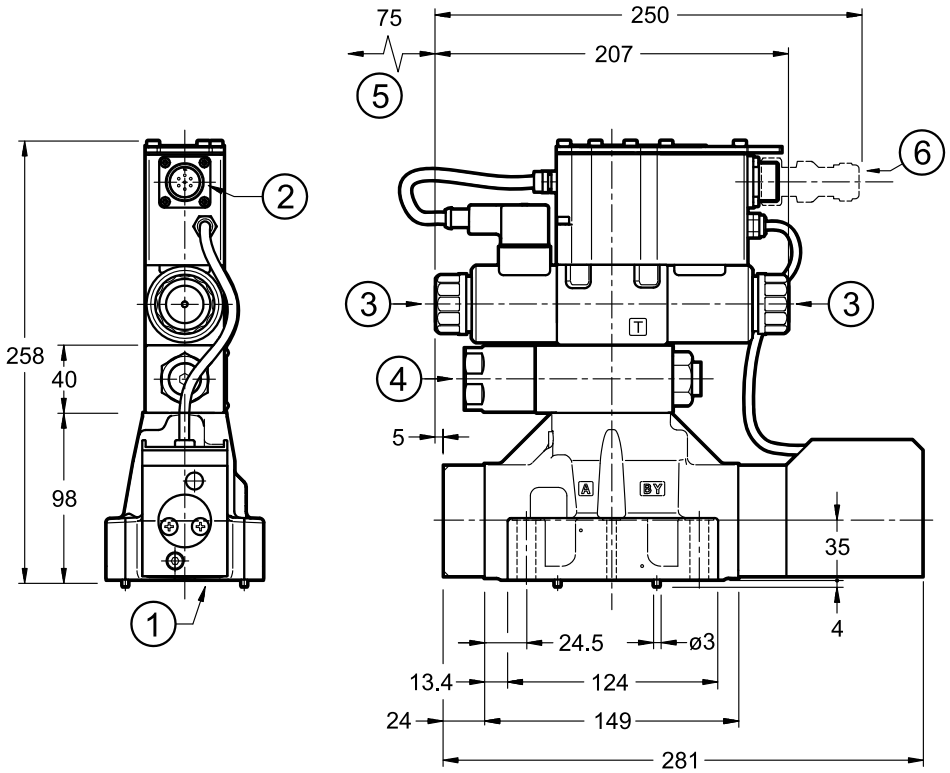
NOTES:
- See mounting surface at point 15.
- Do not dismantle the transducer.

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

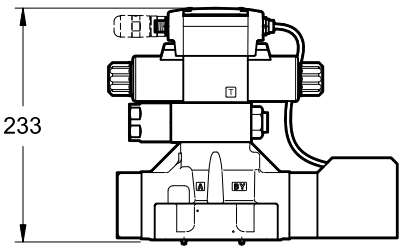
Valve fastening: 4 SHC screws ISO 4762 M6x35
Tightening torque: 8 Nm (A8.8 screws)
Threads of mounting holes: M6x10

12 - DDPE7J* - OVERALL AND MOUNTING DIMENSIONS

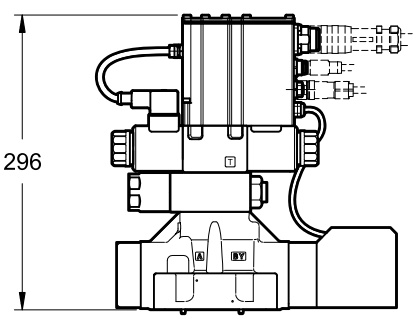
dimensions in mm



DDPE7JL



DDPE7JH



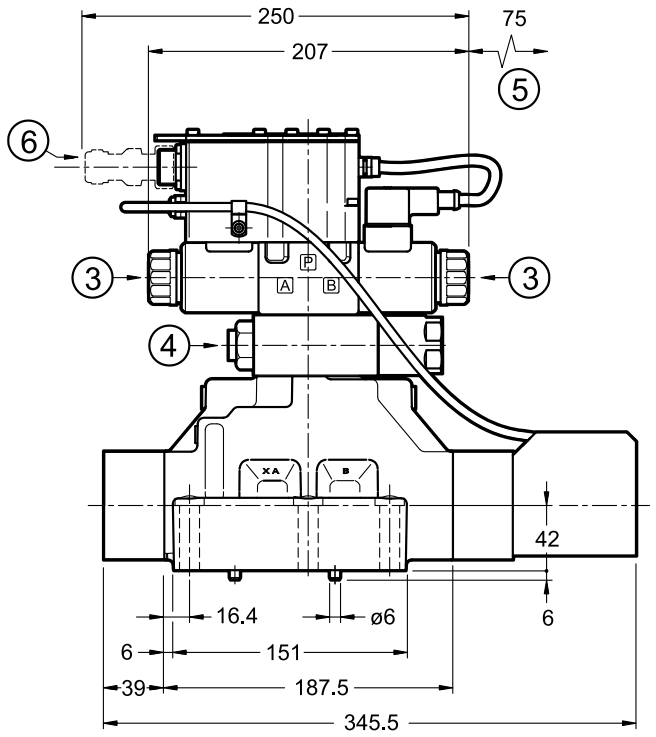
NOTES:
- See mounting surface at point 15.
- Do not dismantle the transducer.

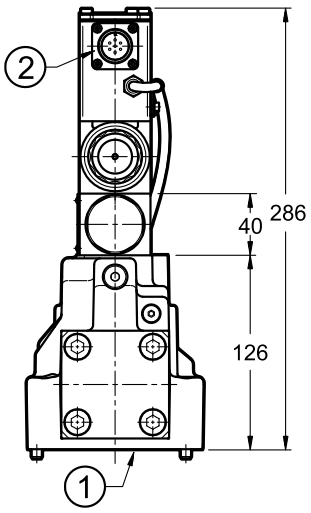
1	Mounting surface with sealing rings: 4 OR type 130 (22.22x2.62) - 90 Shore 2 OR type 2043 (10.82x1.78) - 90 Shore
2	Main connection 6 pin + PE
3	Manual override embedded in the solenoid tube
4	Pressure reducing valve
5	Coil removal space
6	Mating connector. **To be ordered separately.** See catalogue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

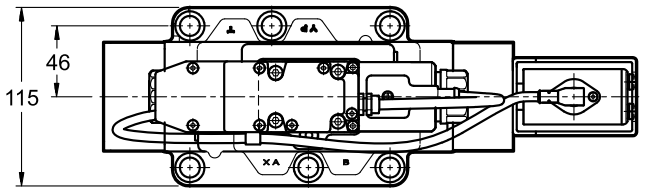
Valve fastening: 4 SHC screws ISO 4762 M10x50 2 SHC screws ISO 4762 M6x50
Tightening torque: M10x50: 40 Nm (A8.8 screws) M6x50: 8 Nm (A8.8 screws)
Threads of mounting holes: M6x18; M10x18

13 - DDPE8J*/DDPE9J* - OVERALL AND MOUNTING DIMENSIONS

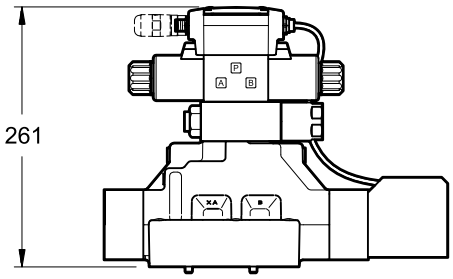
dimensions in mm



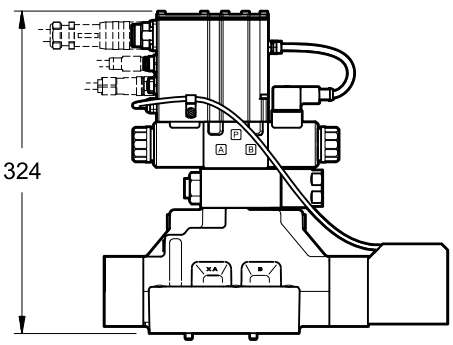




DDPE8JL / DDPE9JL



DDPE8JH / DDPE9JH



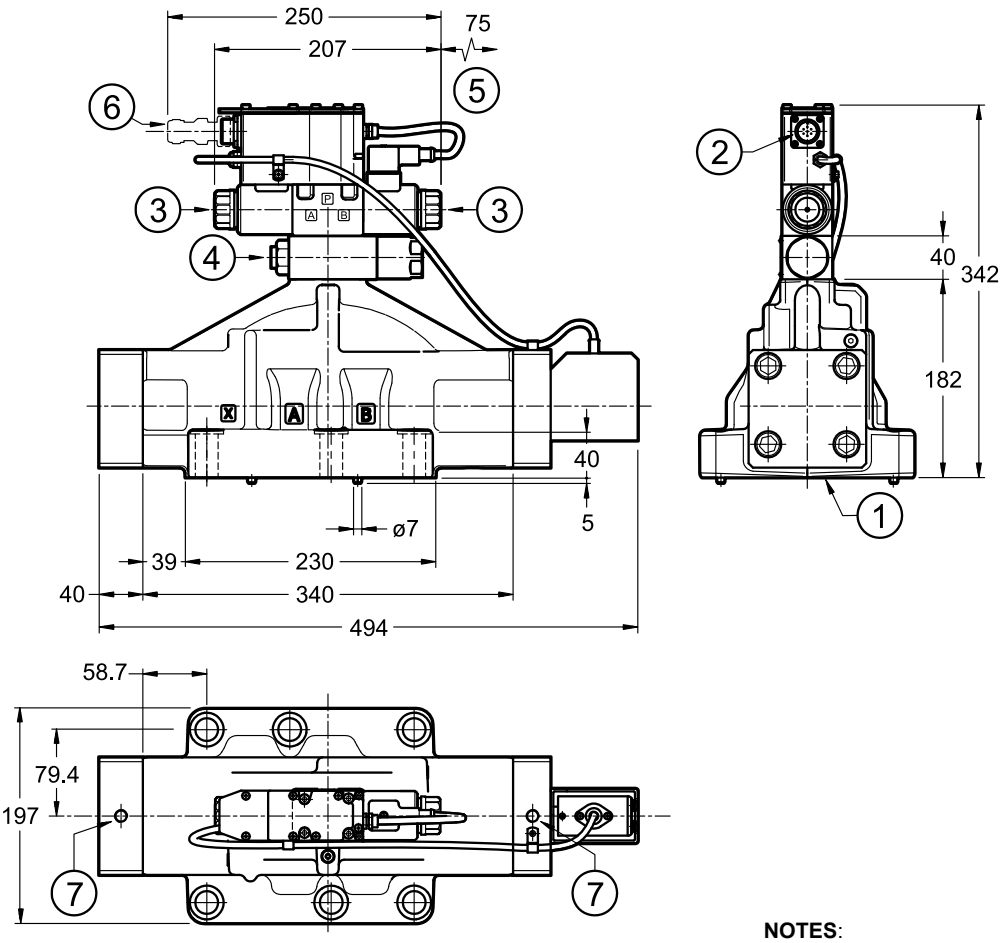
NOTES:
- See mounting surface at point 15.
- Do not dismantle the transducer.

1	Mounting surface with sealing rings: **DDPE8J*** 4 OR type 3131 (32.99x2.62) - 90 Shore 2 OR type 3087 (21.89x2.62) - 90 Shore **DDPE9J*** 4 OR type 3150 (37.77x2.62) - 90 Shore 2 OR type 3087 (20.24x2.62) - 90 Shore
2	Main connection 6 pin + PE
3	Manual override embedded in the solenoid tube
4	Pressure reducing valve
5	Coil removal space
6	Mating connector. **To be ordered separately.** See catalogue 89 000

Valve fastening: 6 SHC screws ISO 4762 M12x60
Tightening torque: 69 Nm (A8.8 screws)
Threads of mounting holes: M12x20

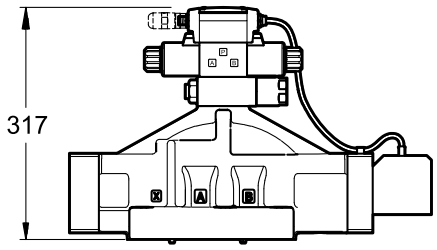
14 - DDPE10J* / DDPE11J* - OVERALL AND MOUNTING DIMENSIONS

dimensions in mm

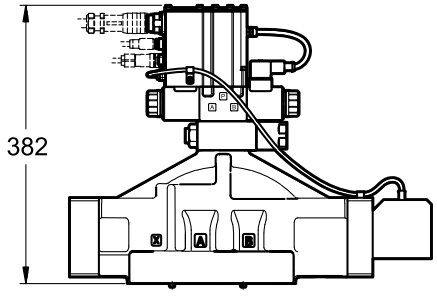


NOTES:
- See mounting surface at point 15.
- Do not dismantle the transducer.

DDPE10JL / DDPE11JL



DDPE10JH / DDPE11JH

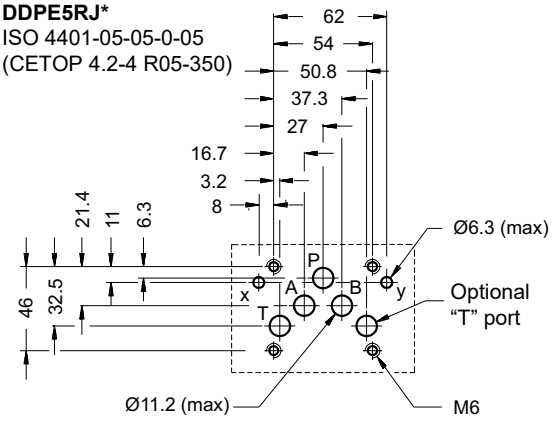


1	Mounting surface with sealing rings: **DDPE10J*** 4 OR type 4162 (40.86x3.53) - 90 Shore 2 OR type 3081 (20.24x2.62) - 90 Shore **DDPE11J*** 4 OR type 4212 (53.57x3.53) - 90 Shore 2 OR type 3081 (20.24x2.62) - 90 Shore
2	Main connection 6 pin + PE
3	Manual override embedded in the solenoid tube
4	Pressure reducing valve
5	Coil removal space
6	Mating connector. **To be ordered separately.** See catalogue 89 000
7	M12 eyebolt seat for safe lift

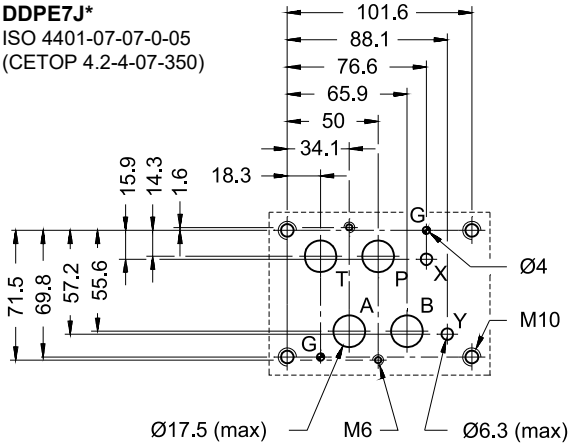
Valve fastening: 6 SHC screws ISO 4762 M20x70 (supplied)
Tightening torque: 470 Nm (A10.9 screws)
Threads of mounting holes: M20x40

15 - MOUNTING SURFACES

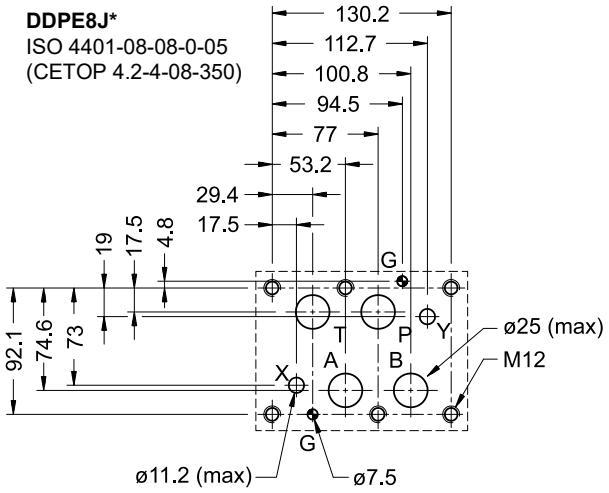
DDPE5RJ*
ISO 4401-05-05-0-05
(CETOP 4.2-4 R05-350)



DDPE7J*
ISO 4401-07-07-0-05
(CETOP 4.2-4-07-350)

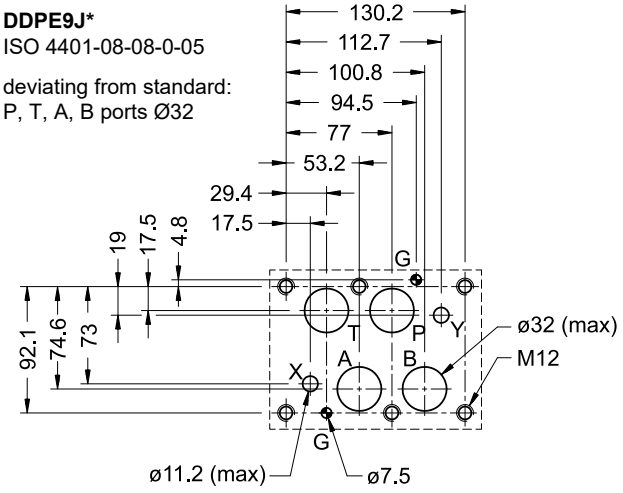


DDPE8J*
ISO 4401-08-08-0-05
(CETOP 4.2-4-08-350)

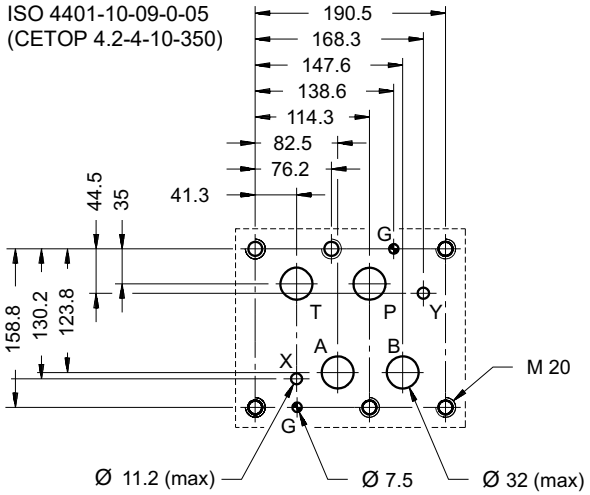


DDPE9J*
ISO 4401-08-08-0-05

deviating from standard:
P, T, A, B ports Ø32

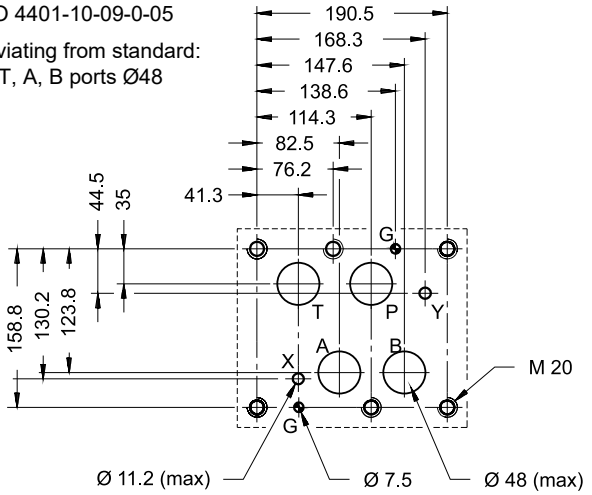


DDPE10J*
ISO 4401-10-09-0-05
(CETOP 4.2-4-10-350)



DDPE11J*
ISO 4401-10-09-0-05

deviating from standard:
P, T, A, B ports Ø48



16 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals (code N). 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.

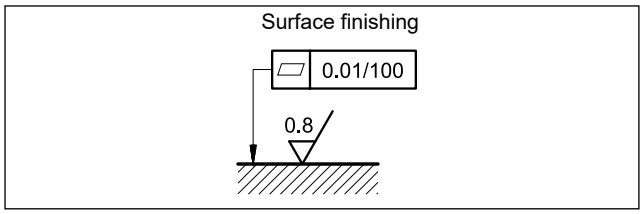
The fluid must be preserved in its physical and chemical characteristics.

17 - 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.



18 - ACCESSORIES

(to be ordered separately)

18.1 - 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.

18.2 - Mating connectors for fieldbus communication and for sensors.

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

18.3 - 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^2
- up to 40 m cable length: 1,5 mm^2 (IO-Link excluded)

Cross section for signals (command, monitor):
- 0,50 mm^2

18.4 - 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.

19 - SUBPLATES

(see catalogue 51 000)

No subplates are available for DDPE5RJ*, DDPE9J*, DDPE10J* and DDPE11J*.

	DDPE7J*	DDPE8J*
Type with rear ports	PME07-AI6G	-
Type with side ports	PME07-AL6G	PME5-AL8G
P, T, A, B ports dimensions X, Y ports dimensions	1” BSP 1/4” BSP	1 1/2” BSP 1/4” BSP

DUPLOMATIC MOTION SOLUTIONS
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