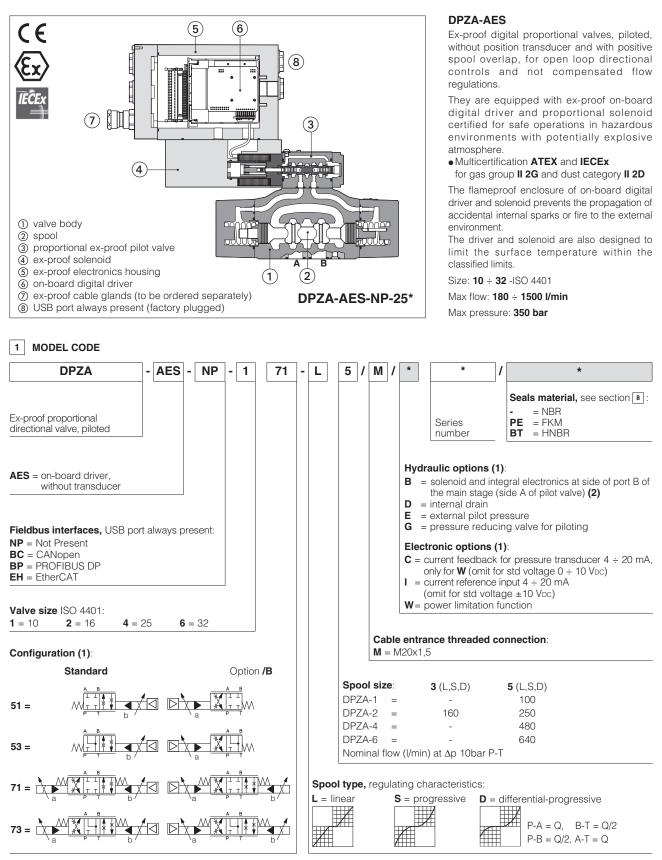


Ex-proof digital proportional directional valves

Piloted, with on-board driver, without position transducer and with positive spool overlap ATEX and IECEx



(1) For possible combined options, see section 14

(2) In standard configuration the solenoid (config. 51 and 53) and the on-board digital driver are at side A of the main stage (side B of pilot valve)



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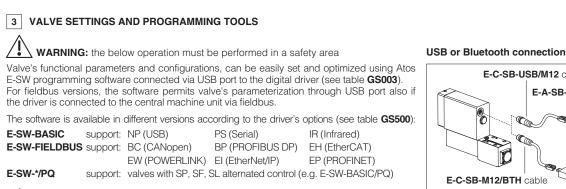
2 GENERAL NOTES

Atos digital proportionals valves are CE marked according to the applicable directives (e.g. Immunity and Emission EMC Directive). Installation, wirings and start-up procedures must be performed according to the general prescriptions shown in tech table FX900 and in the user manuals included in the E-SW-* programming software.

E-C-SB-USB/M12 cable

E-A-SB-USB/BTH adapter

E-A-SB-USB/OPT isolator



WARNING: drivers USB port is not isolated! For E-C-SB-USB/M12 cable, the use of isolator adapter is highly recommended for PC protection

WARNING: see tech table GS500 for the list of countries where the Bluetooth adapter has been approved

4 FIELDBUS - see tech. table GS510

Fieldbus allows valve direct communication with machine control unit for digital reference, valve diagnostics and settings. These executions allow to operate the valves through fieldbus or analog signals available on the terminal board.

5 **GENERAL CHARACTERISTICS**

Assembly position	Any position					
Subplate surface finishing to ISO 4401	Acceptable roughness index, Ra ≤0,8 recommended Ra 0,4 - flatness ratio 0,01/100					
MTTFd valves according to EN ISO 13849	75 years, see technical table P007					
Ambient temperature range	Standard = -20° C \div $+60^{\circ}$ C /PE option = -20° C \div $+60^{\circ}$ C /BT option = -40° C \div $+60^{\circ}$ C					
Storage temperature range	Standard = -20° C ÷ $+70^{\circ}$ C /PE option = -20° C ÷ $+70^{\circ}$ C /BT option = -40° C ÷ $+70^{\circ}$ C					
Surface protection	Zinc coating with black passivation - salt spray test (EN ISO 9227) > 200 h					
Compliance	Explosion proof protection, see section 9 -Flame proof enclosure "Ex d" -Dust ignition protection by enclosure "Ex t"					
	RoHs Directive 2011/65/EU as last update by 2015/65/EU REACH Regulation (EC) n°1907/2006					

6 HYDRAULIC CHARACTERISTICS - based on mineral oil ISO VG 46 at 50 °C

Valve model		DPZA-*-1	DPZ	ZA-*-2	DPZA-*-4	DPZA-*-6	
Pressure limits	[bar]	1	oorts P, A, B, X = 3	50; T = 250 (10 fo	r option /D); Y = 10	;	
Spool type		L5, S5, D5 L3, S3, D3 L5, S5, D5					
Nominal flow [I/mir	ן]						
	Δp = 10 bar	100	160	250	480	640	
Δp P-T	$\Delta p = 30 \text{ bar}$	160	270	430	830	1100	
	max permissible flow	180	400	550	900	1500	
∆p max P-T	[bar]	50	60	60	60	60	
Piloting pressure	[bar]	min. = 25; max = 350 (option /G advisable for pilot pressure > 150 bar)					
Piloting volume [cm ³]		1,4	3,7		9,0	21,6	
Piloting flow (1) [I/min]		1,7	3,7		6,8	14,4	
Leakage (2)	Main stage [l/min]	0,15/0,5	0,2	2/0,6	0,3/1,0	1,0/3,0	
Response time (1) [ms]		≤ 90	≤ 110		≤ 130	≤ 190	
Hysteresis	≤ 5 [% of max regulation]						
Repeatability		± 1 [% of max regulation]					

(1) 0 ÷100 % step signal and pilot pressure 100 bar

(2) at p = 100/350 bar



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7 ELECTRICAL CHARACTERISTICS

Power supplies	Nominal Reatified and filtered	: +24 VDC : VRMS = 20 ÷ 32 VMAX	(ripple may 10 % \/pp)				
Max power consumption	35 W						
Analog input signals	Voltage: range ±10 V Current: range ±20 n	/DC (24 VMAX tollerant)	Input impedance Input impedance				
Insulation class	H (180°) Due to the oc		atures of the solenoid coi	ls, the European standards			
Monitor outputs	Voltage: maximum ra	nge ± 5 Vpc @ max	5 mA				
Enable input	Range: 0 ÷ 9 VDC (OFF	state), 15 ÷ 24 VDC (ON	state), 9 ÷ 15 VDC (not ac	cepted); Input impedance: Ri > $87k\Omega$			
Fault output	Output range : 0 ÷ 24 VDC (ON state ≅ VL+ [logic power supply] ; OFF state ≅ 0 V) @ max 50 mA; external negative voltage not allowed (e.g. due to inductive loads)						
Pressure transducer power supply (only /W option)	+24VDC @ max 100 mA (E-ATRA-7 see tech table GX800)						
Alarms		Solenoid not connected/short circuit, cable break with current reference signal, over/under temperature, current control monitoring, power supplies level, pressure transducer failure (/W option)					
Protection degree to DIN EN60529							
Duty factor	Continuous rating (ED=100%)						
Tropicalization	Tropical coating on electronics PCB						
Additional characteristics	Short circuit protection of solenoid current supply; current control by P.I.D. with rapid solenoid switching; protection against reverse polarity of power supply						
Electromagnetic compatibility (EMC)	According to Directive 2014/30/UE (Immunity: EN 61000-6-2; Emission: EN 61000-6-3)						
Communication interface	USB Atos ASCII coding	CANopen EN50325-4 + DS408	PROFIBUS DP EN50170-2/IEC61158	EtherCAT EC 61158			
Communication physical layer	not insulated USB 2.0 + USB OTG	optical insulated CAN ISO11898	optical insulated RS485	Fast Ethernet, insulated 100 Base TX			

Note: a maximum time of 500 ms (depending on communication type) have be considered between the driver energizing with the 24 VDc power supply and when the valve is ready to operate. During this time the current to the valve coils is switched to zero

8 SEALS AND HYDRAULIC FLUIDS - for other fluids not included in below table, consult our technical office

Seals, recommended fluid	l temperature	NBR seals (standard) = $-20^{\circ}C \div +60^{\circ}C$, with HFC hydraulic fluids = $-20^{\circ}C \div +50^{\circ}C$ FKM seals (/PE option) = $-20^{\circ}C \div +80^{\circ}C$ HNBR seals (/BT option) = $-40^{\circ}C \div +60^{\circ}C$, with HFC hydraulic fluids = $-40^{\circ}C \div +50^{\circ}C$			
Recommended viscosity		20 ÷ 100 mm²/s - max allowed	range 15 ÷ 380 mm²/s		
Max fluid contamination level	normal operation		see also filter section at www.atos.com or KTF catalog		
Hydraulic fluid		Suitable seals type	Classification	Ref. Standard	
Mineral oils		NBR, FKM, HNBR	HL, HLP, HLPD, HVLP, HVLPD	DIN 51524	
Flame resistant without wa	iter	FKM	HFDU, HFDR	ISO 12922	
Flame resistant with water	(1)	NBR, HNBR	HFC	100 12922	

The ignition temperature of the hydraulic fluid must be 50°C higher than the max solenoid surface temperature

(1) Performance limitations in case of flame resistant fluids with water:

-max operating pressure = 210 bar -max fluid temperature = 50°C

9 CERTIFICATION DATA

Valve type		DPZA					
Certifications				Multicertifica	ition Group II		
				ATEX	IECEx		
Solenoid certified co	ode			OZA	-AES		
Type examination ce	ertificate (1)	• ATEX: TUV I	ATEX: TUV IT 18 ATEX 068 X IECEx: IECEx TPS 19.0004X				
Method of protection		ATEX 2014/34/EU Ex II 2G Ex db IIC T6/T5/T4 Gb Ex II 2D Ex tb IIIC T85°C/T100°C/T135°C Db Ex tb IIIC T85°C/T100°C/T135°C Db					
Tomporatura alaga	Single solenoid valve	Т6	-	T	5	T4	-
Temperature class	Double solenoid valve	-	T4	-		-	Т3
Surface temperature		≤ 85 °C	≤ 135 °C	≤ 10	0 °C	≤ 135 °C	≤ 200 °C
Ambient temperature (2)		-40 ÷ +40 °C		-40 ÷ +55 °C		-40 ÷ +70 °C	
Applicable Standard	s	EN 60079-0 EN 60079-31 IEC 60079-0 IEC 60079-31 EN 60079-1 IEC 60079-1					31
Cable entrance: thre	eaded connection			$\mathbf{M} = \mathbf{M}$	20x1,5		

(1) The type examinator certificates can be downloaded from www.atos.com

(2) The driver and solenoids are certified for minimum ambient temperature -40°C.

In case the complete valve must withstand with minimum ambient temperature -40°C, select /BT in the model code.

/ WARNING: service work performed on the valve by the end users or not qualified personnel invalidates the certification



Power supply and signals: section of wire = 1,0 mm²

Grounding: section of external ground wire = 4 mm²

10.1 Cable temperature

The cable must be suitable for the working temperature as specified in the "safety instructions" delivered with the first supply of the products.

Max ambient temperature [°C]	Temperature class	Max surface temperature [°C]	Min. cable temperature [°C]
40 °C	T6	85 °C	80 °C
55 °C	T5	100 °C	90 °C
70 °C	Τ4	135 °C	110 °C

11 CABLE GLANDS

Cable glands with threaded connections M20x1,5 for standard or armoured cables have to be ordered separately, see tech table **KX800 Note:** a Loctite sealant type 545, should be used on the cable gland entry threads

12 HYDRAULIC OPTIONS

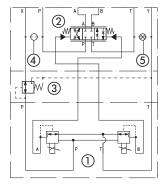
- B = DPZA-*-*5 = solenoid and integral electronics at side of port B of the main stage.
 DPZA-*-*7 = integral electronics at side of port B of the main stage.
- D and E = Pilot and drain configuration can be modified as shown in section 13.
 The valve's standard configuration provides internal pilot and external drain.
 For different pilot / drain configuration select:
 - Option /D Internal drain.
 - Option /E External pilot (through port X).
- **G** = Pressure reducing valve installed between pilot valve and main body with fixed setting: DPZA-1 and -2 = 28 bar
 - DPZA-4 and -6 = 40 bar

It is advisable for valves with internal pilot in case of system pressure higher than 150 bar.

FUNCTIONAL SCHEME

example of configuration 7*





Pilot valve
 Main stage

③ Pressure reducing valve

④ Plug to be added for external pilot trough port X

(5) Plug to be removed for internal drain through port T

13 ELECTRONIC OPTIONS

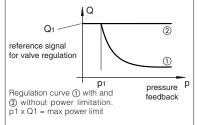
I = It provides 4 ÷ 20 mA current reference signal, instead of the standard ±10 VDC. Input signal can be reconfigured via software selecting between voltage and current, within a maximum range of ±10 VDC or ±20 mA. It is normally used in case of long distance between the machine control unit and the valve or where the reference signal can be affected by electrical noise; the valve functioning is disabled in case of reference signal cable breakage.

C = Only in combination with option /W

It is available to connect pressure transducer with 4 ÷ 20 mA current output signal, instead of the standard 0 ÷ 10 VDC. Input signal can be reconfigured via software selecting between voltage and current, within a maximum range of ±10 VDC or ±20 mA.

 \mathbf{W} = Only for valves coupled with pressure compensator type HC-011 or KC-011 (see tech table D150). It provides the hydraulic power limitation function. The driver receives the flow reference signal by the analog input INPUT+ and a pressure transducer, installed in the hydraulic system, has to be connected to the driver's analog input TR. When the actual requested hydraulic power **p**×**Q** (TR x INPUT+) reaches the max power limit (p1xQ1), internally set by software, the driver automatically reduces the flow regulation of the valve. The higher is the pressure feedback the lower is the valve's regulated flow:

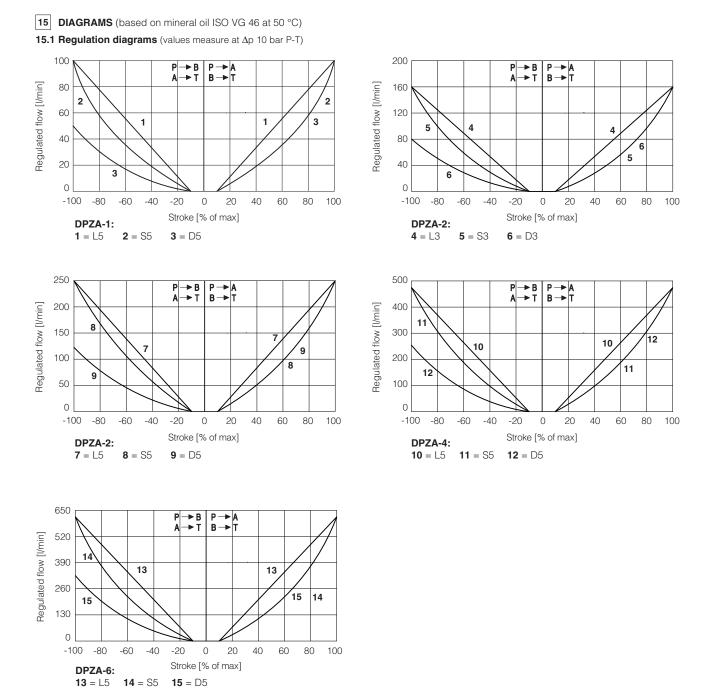
Flow regulation = Min (<u>PowerLimit [sw setting]</u> Transducer Pressure [TR]; Flow Reference [INPUT+]) Hydraulic Power Limitation - option /W



14 POSSIBLE COMBINED OPTIONS

Hydraulic options: all combination possible Electronics options: /IW, /CW, /CWI





Note: Hydraulic configuration vs. reference signal for configuration 71 and 73 (standard and option /B)

Reference signal $\begin{array}{c} 0 \div +10 \text{ V} \\ 12 \div 20 \text{ mA} \end{array} \right\} \text{ P} \rightarrow \text{A / B} \rightarrow \text{T}$

Reference signal $\begin{array}{c} 0 \div -10 \ V \\ 12 \div 4 \ mA \end{array}
ight\} P \rightarrow B / A \rightarrow T$



16 POWER SUPPLY AND SIGNALS SPECIFICATIONS

Generic electrical output signals of the valve (e.g. fault or monitor signals) must not be directly used to activate safety functions, like to switch-ON/OFF the machine's safety components, as prescribed by the European standards (Safety requirements of fluid technology systems and components-hydraulics, EN-982).

16.1 Power supply (V+ and V0)

The power supply must be appropriately stabilized or rectified and filtered: apply at least a 10000 μ F/40 V capacitance to single phase rectifiers or a 4700 μ F/40 V capacitance to three phase rectifiers.

A safety fuse is required in series to each power supply: 2,5 A time lag fuse.

16.2 Power supply for driver's logic and communication (VL+ and VL0)

The power supply for driver's logic and communication must be appropriately stabilized or rectified and filtered: apply at least a 10000 μ F/40 V capacitance to single phase rectifiers or a 4700 μ F/40 V capacitance to three phase rectifiers. The separate power supply for driver's logic on pin 3 and 4, allow to remove solenoid power supply from pin 1 and 2 maintaining active the diagnostics, USB and fieldbus communications.

A safety fuse is required in series to each driver's logic and communication power supply: 500 mA fast fuse.

16.3 Flow reference input signal (INPUT+)

The driver controls in closed loop the valve spool position proportionally to the external reference input signal. Reference input signal is factory preset according to selected valve code, defaults are ± 10 VDc for standard and $4 \div 20$ mA for /l option. Input signal can be reconfigured via software selecting between voltage and current, within a maximum range of ± 10 VDc or ± 20 mA. Drivers with fieldbus interface can be software set to receive reference signal directly from the machine control unit (fieldbus reference). Analog reference input signal can be used as on-off commands with input range $0 \div 24$ VDc.

16.4 Monitor output signals (MONITOR and MONITOR2)

The driver generates an analog output signal (MONITOR) proportional to the actual coil current of the valve; the monitor output signal can be software set to show other signals available in the driver (e.g. analog reference, fieldbus reference).

Monitor output signal is factory preset according to selected valve code, default settings is ±5 VDC (1V = 1A).

Output signal can be reconfigured via software, within a maximum range of ±5 VDC.

Option /W

The driver generates a second analog output signal (MONITOR2) proportional to the actual system pressure.

The output maximum range is ± 5 VDC; default setting is 0 \div 5 VDC

16.5 Enable input signal (ENABLE)

To enable the driver, supply a 24 VDC on pin 6: Enable input signal allows to enable/disable the current supply to the solenoid, without removing the electrical power supply to the driver; it is used to active the communication and the other driver functions when the valve must be disabled for safety reasons. This condition **does not comply** with norms IEC 61508 and ISO 13849. Enable input signal can be used as generic digital input by software selection.

16.6 Fault output signal (FAULT)

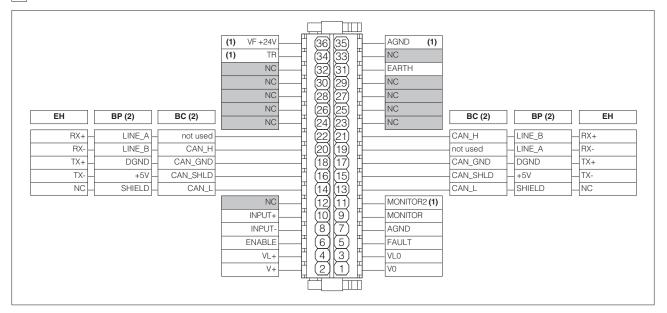
Fault output signal indicates fault conditions of the driver (solenoid short circuits/not connected, reference signal cable broken for 4 ÷ 20 mA input, spool position transducer cable broken, etc.). Fault presence corresponds to 0 VDC, normal working corresponds to 24 VDC. Fault status is not affected by the Enable input signal. Fault output signal can be used as digital output by software selection.

16.7 Remote Pressure Transducer Input signal (TR) - only for /W option

Analog pressure transducers can be directly connected to the driver.

Analog input signal is factory preset according to selected valve code, defaults are $0 \div 10$ VDC for standard and $4 \div 20$ mA for /C option. Input signal can be reconfigured via software selecting between voltage and current, within a maximum range of ±10 VDC or ±20 mA. Note: transducer feedback can be read as a digital information through fieldbus communication - software selectable.

17 TERMINAL BOARD OVERVIEW



(1) Connections available only for /W option

(2) For BC and BP executions the fieldbus connections have an internal pass-through connection



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18 ELECTRONIC CONNECTIONS

18.1 Main connections signals

CABLE ENTRANCE	PIN	SIGNAL	TECHNICAL SPECIFICATIONS	NOTES
	1	V0	Power supply 0 Vbc	Gnd - power supply
	2	V+	Power supply 24 VDC	Input - power supply
	3	VL0	Power supply 0 Vbc for driver's logic and communication	Gnd - power supply
	4	VL+	Power supply 24 Vbc for driver's logic and communication	Input - power supply
	5	FAULT	Fault (0 Vbc) or normal working (24 Vbc), referred to VL0	Output - on/off signal
_	6	ENABLE	Enable (24 VDC) or disable (0 VDC) the driver, referred to VL0	Input - on/off signal
Α	7	AGND	Analog ground	Gnd - analog signal
<i>/</i> \	8	INPUT-	Negative reference input signal for INPUT+	Input - analog signal
	9	MONITOR	Monitor output signal: ±5 Vbc maximum range, referred to AGND Default is: ±5 Vbc	Output - analog signal Software selectable
	10	INPUT+	Reference input signal: ± 10 Vpc / ± 20 mA maximum range Defaults are: ± 10 Vpc for standard and 4 $\div 20$ mA for /I option	Input - analog signal Software selectable
	11	MONITOR2	2nd monitor output signal: ±5 Vpc maximum range, referred to AGND (1) Default is: 0 ÷ 5 Vpc	Output - analog signal Software selectable
	31	EARTH	Internally connected to driver housing	

(1) 2nd monitor output signal is available only for /W option

18.2 USB connector - M12 - 5 pin always present

CABLE ENTRANCE	PIN	SIGNAL	TECHNICAL SPECIFICATIONS	Driver view	(B)
	1	+5V_USB	Power supply	12	
	2	ID	Identification	5	
B	3	GND_USB	Signal zero data line		
	4	D-	Data line -		
	5	D+	Data line +	(female)	

CABLE ENTRANCE

)2

18.3 BC fieldbus execution connections

CABLE ENTRANCE	PIN	SIGNAL	TECHNICAL SPECIFICATIONS
	14	CAN_L	Bus line (low)
	16	CAN_SHLD	Shield
C1	18	CAN_GND	Signal zero data line
	20	CAN_H	Bus line (high)
	22	not used	Pass-through connection (1)

(1) pin 19 and 22 can be fed with external +5V supply of CAN interface

18.4 BP fieldbus execution connections

CABLE ENTRANCE	PIN	SIGNAL	TECHNICAL SPECIFICATIONS
	14	SHIELD	
	16	+5V	Power supply
C1	18	DGND	Data line and termination signal zero
	20	LINE_B	Bus line (low)
	22	LINE_A	Bus line (high)

18.5 EH fieldbus execution connections

CABLE ENTRANCE	PIN	SIGNAL	TECHNICAL SPECIFICATIONS
	14	NC	do not connect
	16	тх-	Transmitter
C1	18	TX+	Transmitter
· ·	20	RX-	Receiver
(input)	22	RX+	Receiver

	19 21	not used CAN H	Pass-through connection (1) Bus line (high)
	21	CAN_H	Bus line (high)
CABLE ENTRANCE	PIN	SIGNAL	TECHNICAL SPECIFICATIONS

CAN_SHLD Shield

TECHNICAL SPECIFICATIONS

Bus line (low)

Signal zero data line

SIGNAL

CAN_L

CAN_GND

PIN 13

15

17

ENTRANCE	PIN	SIGNAL	TECHNICAL SPECIFICATIONS
	13	SHIELD	
	15	+5V	Power supply
C2	17	DGND	Data line and termination signal zero
	19	LINE_A	Bus line (high)
	21	LINE_B	Bus line (low)

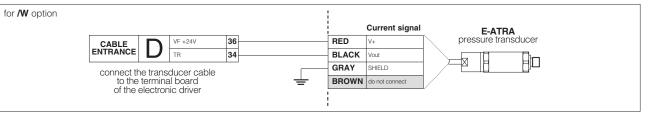
CABLE ENTRANCE	PIN	SIGNAL	TECHNICAL SPECIFICATIONS
	13	NC	do not connect
	15	тх-	Transmitter
C2	17	TX+	Transmitter
	19	RX-	Receiver
(output)	21	RX+	Receiver

17.6 Remote pressure transducer connector - only for /W option

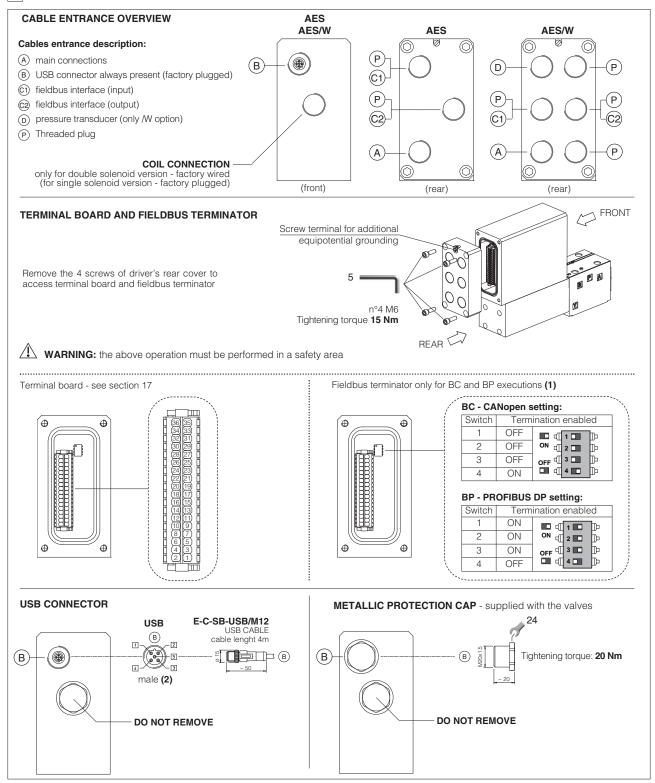
CABLE ENTRANCE	PIN	SIGNAL	TECHNICAL SPECIFICATIONS	NOTES	Voltage	Current
	34	TR	Signal transducer ±10 Vpc / ±20 mA maximum range	Input - analog signal Software selectable	Connect	Connect
	35	AGND	Common gnd for transducer power and signals	Common gnd	Connect	/
	36	VF +24V	Power supply +24VDC	Output - power supply	Connect	Connect



E-ATRA remote pressure transducer connection - see tech table GX800



19 CONNECTIONS LAYOUT



(1) Drivers with BC and BP fieldbus interface are delivered by default 'Not Terminated'. All switches are set OFF (2) Pin layout always referred to driver's view



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19.1 Cable glands and threaded plug for AES - see tech table KX800

Communication	То	be ordere	ed separat	ely	Cable entrance	
interfaces		gland entrance		ed plug entrance	overview	Notes
NP	1	A	none	none		Cable entrance P are factory plugged Cable entrance A is open for costumers
BC, BP, EH "via stub" connection	2	C1 A	1	C2		Cable entrance A, C1, C2 are open for costumers
BC, BP, EH "daisy chain" connection	3	C1 C2 A	none	none		Cable entrance A, C1, C2 are open for costumers

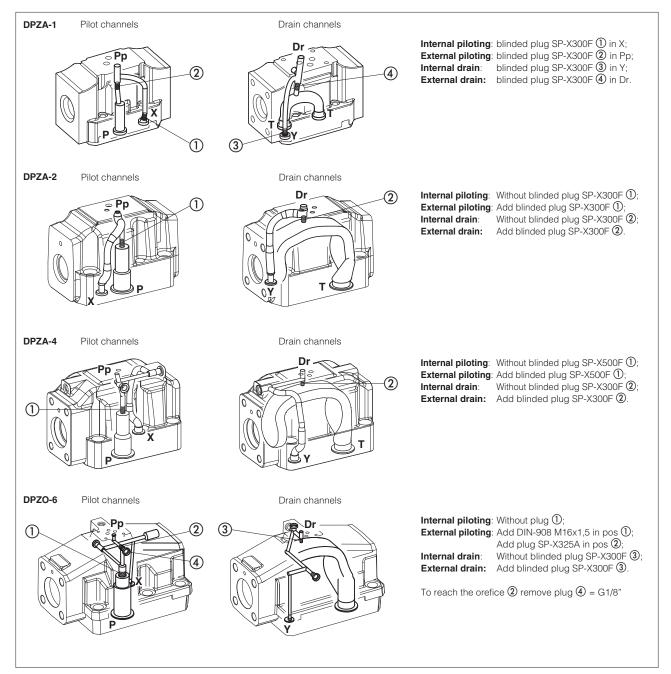
19.2 Cable glands and threaded plug for AES with /W option - see tech table KX800

	То	be ordere	ed separat	ely	Cable entrance	
Communication interfaces		gland		ed plug	overview	Notes
	quantity	entrance	quantity	entrance		
NP	2	D	none	none		Cable entrance P are factory plugged Cable entrance A, D are open for costumers
BC, BP, EH "via stub" connection	3	D C1 A	1	C2		Cable entrance P are factory plugged Cable entrance A, C1, C2, D are open for costumers
BC, BP, EH "daisy chain" connection	4	D C1 - C2 A	none	none		Cable entrance P are factory plugged Cable entrance A, C1, C2, D are open for costumers



20 PLUGS LOCATION FOR PILOT/DRAIN CHANNELS

Depending on the position of internal plugs, different pilot/drain configurations can be obtained as shown below. To modify the pilot/drain configuration, proper plugs must only be interchanged. The plugs have to be sealed using loctite 270. Standard valves configuration provides internal pilot and external drain



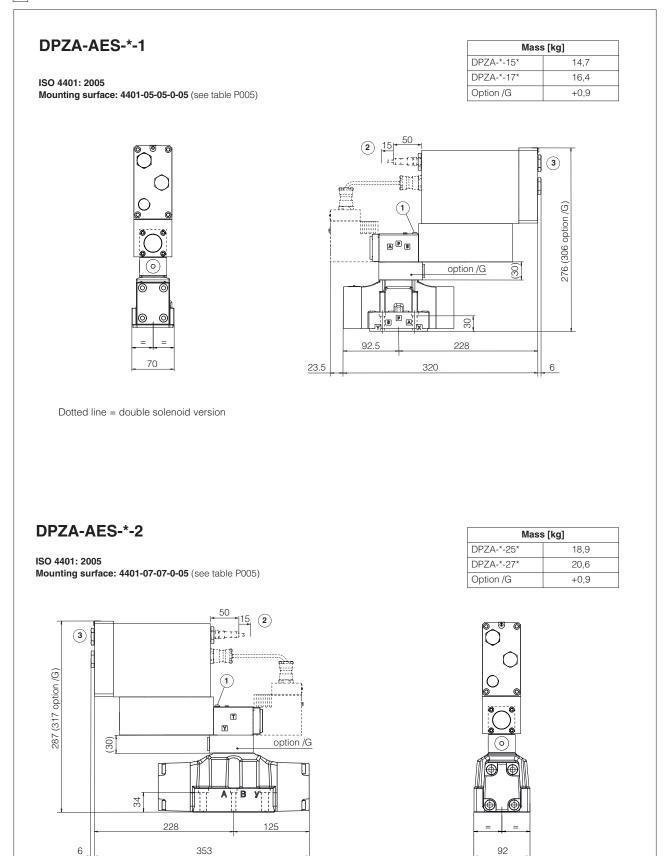
21 FASTENING BOLTS AND SEALS

Туре	Size	Fastening bolts	Seals		
	1 = 10	4 socket head screws M6x40 class 12.9 Tightening torque = 15 Nm	5 OR 2050; Diameter of ports A, B, P, T: Ø 11 mm (max) 2 OR 108 Diameter of ports X, Y: Ø = 5 mm (max)		
	2 = 16	4 socket head screws M10x50 class 12.9 Tightening torque = 70 Nm	4 OR 130; Diameter of ports A, B, P, T: Ø 20 mm (max)		
DPZA		2 socket head screws M6x45 class 12.9 Tightening torque = 15 Nm	2 OR 2043 Diameter of ports X, Y: \emptyset = 7 mm (max)		
DFZA	4 = 25	6 socket head screws M12x60 class 12.9	4 OR 4112; Diameter of ports A, B, P, T: Ø 24 mm (max)		
	4 = 20	Tightening torque = 125 Nm	2 OR 3056 Diameter of ports X, Y: $\emptyset = 7 \text{ mm}(\text{max})$		
	6 = 32	6 socket head screws M20x90 class 12.9	4 OR 144; Diameter of ports A, B, P, T: Ø 34 mm (max)		
	6 = 32	Tightening torque = 600 Nm	2 OR 3056 Diameter of ports X, Y: \emptyset = 7 mm (max)		



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Dotted line = double solenoid version

(1) = Air bleed off

 $(\mathbf{2})$ = Space to remove the USB connector

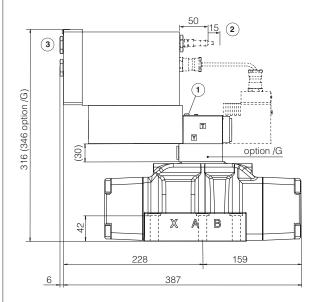
(3) = The dimensions of cable glands must be considered (see tech table **KX800**)



DPZA-AES-*-4

ISO 4401: 2005

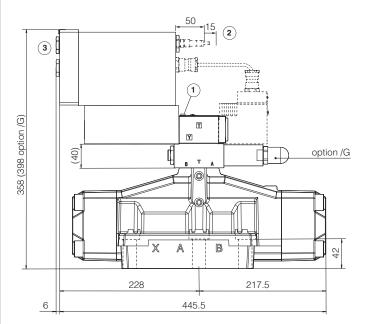
Mounting surface: 4401-08-08-0-05 (see table P005)



Dotted line = double solenoid version

DPZA-AES-*-6

ISO 4401: 2005 Mounting surface: 4401-10-09-0-05



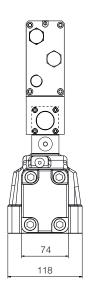
Dotted line = double solenoid version

- $(\mathbf{1})$ = Air bleed off
- $(\mathbf{2})$ = Space to remove the USB connector
- $(\mathbf{3})\,$ = The dimensions of cable glands must be considered (see tech table **KX800**)

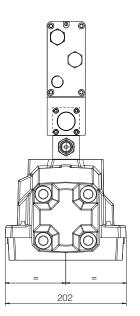
23 RELATED DOCUMENTATION

X010 X020 FX900 GS500 GS510	Basics for electrohydraulics in hazardous environments Summary of Atos ex-proof components certified to ATEX, IECEx, EAC, PESO Operating and manintenance informationfor ex-proof proportional valves Programming tools Fieldbus	GX800 KX800 P005	Ex-proof pressure transducer type E-ATRA-7 Cable glands for ex-proof valves Mounting surfaces for electrohydraulic valves
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Mass [kg]				
DPZA-*-45*	24,1			
DPZA-*-47*	25,8			
Option /G	+0,9			



Mass [kg]					
DPZA-*-65*	49,2				
DPZA-*-67*	50,9				
Option /G	+0,9				



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