

Compatibility for EMC, climate and mechanical load

for drivers, axis cards, transducers and sensors

Electronic drivers, axis cards and transducers are the most critical valve components concerning the risk of electromagnetic interferences, water entrance and mechanical stress. As per applicable International Standards, the following tables summarize the environmental resistance features of Atos industrial electronic devices:

- on-board and off-board drivers
- on-board and off-board axis cards
- LVDT and pressure transducers
- inductive position switch and inductive proximity sensors

1 EMC ELECTROMAGNETIC COMPATIBILITY according to Directive 2014/30/UE

The EMC Directive identifies the ability of a device, equipment or system to function in an electromagnetic environment in a satisfactory manner (immunity), without produce intolerable electromagnetic interferences into any equipment in same environment (emission).

| | CEI EN 61000-6-2 | Immunity for industrial environments |
|----------------|------------------|---|
| •»)) त | CEI EN 61000-6-3 | Emission standard for residential, commercial and light-industrial environments |
| ·») 224 | CEI EN 61000-6-4 | Emission standard for industrial environments |

2 IP INGRESS PROTECTION CLASSIFICATION according to CEI EN 60529

IP (Ingress Protection) coding system indicates the degree of protection provided by an enclosure against access to hazardous parts, against ingress of solid foreign objects, ingress of water and to give additional information in connection with such protection. The minimum ensured IP protection reported for each component is intended with relevant connectors correctly installed.

| Ingress Protection | Protection against solid objects | Protection against liquids penetration |
|--------------------|--|--|
| IP20 | 2 = protected against solid bodies of superior dimensions to 12 mm; protect against the access with a finger | 0 = not protect |
| IP65 | | 5 = protect against water jets |
| IP66 | 6 = totally protect against the powder; protect against the access with a wire | 6 = protect against powerful water jets |
| IP67 | | 7 = protect against the effects of temporary immersion |

3 MECHANICAL RESISTANCE TEST CONDITIONS according to CEI EN 60068-2-6 (Vibrations, Sine & Random) - CEI EN 60068-2-27 (Shock)

The Mechanical Resistance test determines the ability of components, equipment and other articles to withstand specified severities of sinusoidal/random vibration and shock.

| | Sine test | 10 cycles 5-2000-5 Hz with logarithmic frequency variation 1 Octave/min 5-57 Hz amplitude 1.5 mm (p-p) 57-2000 Hz acceleration 10 g Tested on three axes X, Y, Z |
|--------------|-------------------------------|--|
| | Random test | 20-2000 Hz Spectral acceleration density 0.05 g²/Hz Testing time 30 min. each axis Tested on three axes X, Y, Z |
| □ ₩w- | Random test | 20-2000 Hz Spectral acceleration density 0.05 g²/Hz Testing time 24 hours each axis Tested on three axes X, Y, Z |
| | Shock test | Half sine wave shock 50 g / 11 ms Three tests for each axis, in positive and negative direction, for a total of 18 individual shocks Tested on three axes X, Y, Z |
| | Shock test | Half sine wave shock 100 g / 6 ms Three tests for each axis, in positive and negative direction, for a total of 3000 individual shocks Tested on three axes X, Y, Z |
| | Sine test (old procedure) | 0 ÷ 63 Hz; 0,7 ÷ 6 g |
| | Shock test (old procedure) | Shock 50 g; impact time 11 ms |

IP66 / IP67

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EMC:

Temperature:

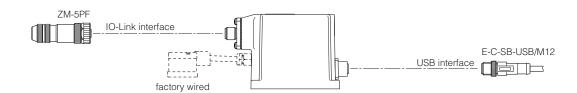
Ambient **-40°C ÷ +60°C**

Storage -40°C ÷ +70°C

Mechanical Resistance:







Notes:

- above data refer to the electronics only and may differ from those indicated in the technical table of the valve, which shows complete product data
- the use of metallic connectors is strongly recommended in order to fulfill EMC requirements

Directional valves:

DHZO-AE* technical table FS160
DKZOR-AE* technical table FS160
DPZO-AE* technical table FS170

DHZO-AE*-60 technical table TFS050

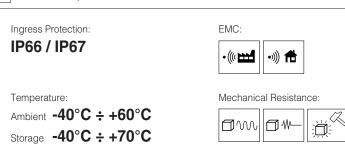
Pressure valves:

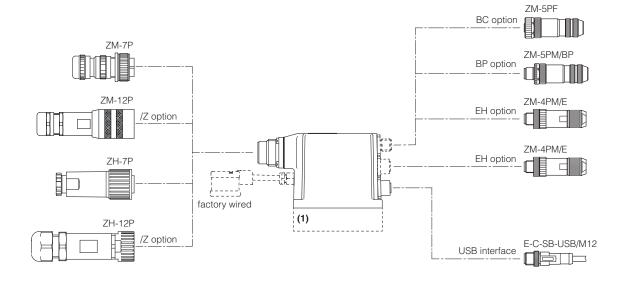
RZMO-AE*-010 technical table FS007 RZMO-AE*-030 technical table FS065 AGMZO-AE* technical table FS035 RZGO-AE*-010 technical table FS015 RZGO-AE*-033 technical table FS070 AGRCZO-AE* technical table FS050 LICZO-AE* technical table FS300 LIMZO-AE* technical table FS300 LIRZO-AE* technical table FS300 DHRZO-AE* technical table FS025

Flow valves:

QVHZO-AE* technical table FS410 **QVKZOR-AE*** technical table FS410

RZMO-AE*-010 500 bar technical table TFS035





Notes:

- above data refer to the electronics only and may differ from those indicated in the technical table of the valve, which shows complete product data
- the use of metallic connectors is strongly recommended in order to fulfill EMC requirements

- (1) only for EH execution

Directional valves:

DHZO-AE* technical table FS160
DKZOR-AE* technical table FS160
technical table FS170

DHZO-AE*-60 technical table TFS050

Pressure valves:

RZMO-AE*-010 technical table FS007 RZMO-AE*-030 technical table FS065 AGMZO-AE* technical table FS035 RZGO-AE*-010 technical table FS015 RZGO-AE*-033 technical table FS070 AGRCZO-AE* technical table FS050 LICZO-AE* technical table FS300 LIMZO-AE* technical table FS300 LIRZO-AE* technical table FS300 DHRZO-AE* technical table FS025

RZMO-AE*-010 500 bar technical table TFS035

Flow valves:

QVHZO-AE* technical table FS410 **QVKZOR-AE*** technical table FS410

IP66 / IP67

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EMC:

Temperature:

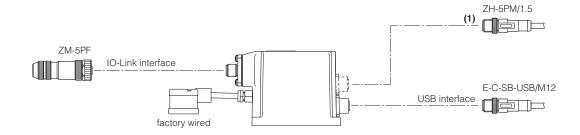
Ambient **-40°C ÷ +60°C**

Storage -40°C ÷ +70°C

Mechanical Resistance:







Notes:

- above data refer to the electronics only and may differ from those indicated in the technical table of the valve, which shows complete product data
- the use of metallic connectors is strongly recommended in order to fulfill EMC requirements
- (1) remote pressure transducer connector available only for REB-N and RES-N (see tech. table TFS100)

High performance pressure valves:

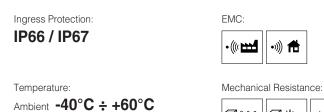
RZMO-RE*-010 technical table FS010
RZMO-RE*-030 technical table FS040
RZGO-RE*-010 technical table FS020
RZGO-RE*-033 technical table FS075
LICZO-RE* technical table FS055
LIMZO-RE* technical table FS305
LIRZO-RE* technical table FS305
LIRZO-RE* technical table FS305
LIRZO-RE* technical table FS305

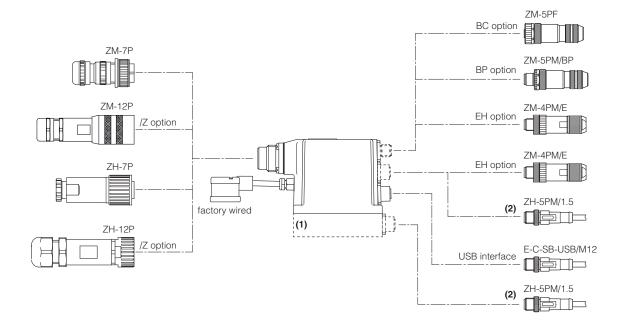
High performance pressure valves, with remote pressure transducer:

RZMO-RE*-N technical table TFS100
AGMZO-RE*-N technical table TFS100
LIMZO-RE*-N technical table TFS100
LICZO-RE*-N technical table TFS100

7 E-RI-REB-NP, E-RI-RES on-board drivers

Storage -40°C ÷ +70°C





Notes:

- above data refer to the electronics only and may differ from those indicated in the technical table of the valve, which shows complete product data
- the use of metallic connectors is strongly recommended in order to fulfill EMC requirements
- (1) only for EH execution
- (2) remote pressure transducer connector available only for REB-N and RES-N (see tech. table TFS100)

High performance pressure valves:

RZMO-RE*-010 technical table FS010
RZMO-RE*
RZGO-RE*-010 technical table FS040
RZGO-RE*-010 technical table FS040
RZGO-RE*-033 technical table FS020
RCZO-RE*
LICZO-RE* technical table FS055
technical table FS305
technical table FS305
technical table FS305
technical table FS305

High performance pressure valves, with remote pressure transducer:

RZMO-RE*-N technical table TFS100
AGMZO-RE*-N technical table TFS100
LIMZO-RE*-N technical table TFS100
LICZO-RE*-N technical table TFS100

IP66 / IP67

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EMC:

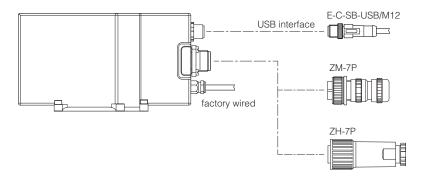
Temperature:

Ambient **-40°C ÷ +60°C**

Storage **-40°C ÷ +70°C**

Mechanical Resistance:





- above data refer to the electronics only and may differ from those indicated in the technical table of the valve, which shows complete product data the use of metallic connectors is strongly recommended in order to fulfill EMC requirements

High performance directionals:

DHZE-TID technical table FS155 **DKZE-TID** technical table FS155 **DPZE-TID** technical table FS158

IP66 / IP67

EMC: •»)) **f** ·((m)

Temperature:

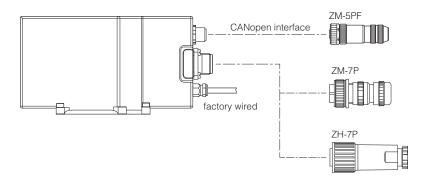
Ambient **-40°C ÷ +60°C**

Storage **-40°C ÷ +70°C**

Mechanical Resistance:







- above data refer to the electronics only and may differ from those indicated in the technical table of the valve, which shows complete product data the use of metallic connectors is strongly recommended in order to fulfill EMC requirements

High performance directionals:

DHZE-TID technical table FS155 **DKZE-TID** technical table FS155 **DPZE-TID** technical table FS158

IP66 / IP67

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EMC:

Temperature:

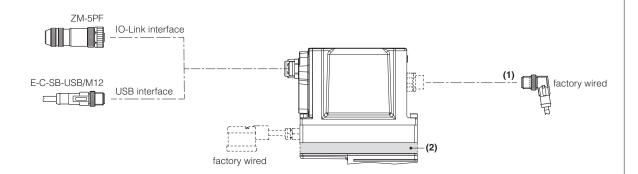
Ambient -40°C + +60°C

Storage -40°C ÷ +70°C

Mechanical Resistance:

Mechanical Resistance with damping plate (/V option):





Notes

- above data refer to the electronics only and may differ from those indicated in the technical table of the valve, which shows complete product data
- the use of metallic connectors is strongly recommended in order to fulfill EMC requirements
- (1) only for piloted valves
- (2) damping plate, only for /V option

Servoproportional directionals (2):

DLHZO-TEB
DLKZOR-TEB
DKZOR-TEB
DKZOR-TEB
DKZOR-LEB
LIGZP-LEB
LIGZP-LEB
technical table FS168
technical table FS168
technical table FS178
technical table FS340

High performance directionals (2):

DHZO-TEB technical table FS165
DPZO-TEB technical table FS172
DPZO-LEB technical table FS175
LIQZP-LEB technical table FS338
LIQZH-LEB technical table FS338

LIQZP-TEB technical table TFS325

Flow valves:

QVHZO-TEB technical table FS412 **QVKZOR-TEB** technical table FS412

(2) LIQZP has replaced LIQZO

IP66 / IP67

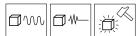
EMC:

Temperature:

Ambient -40°C + +60°C

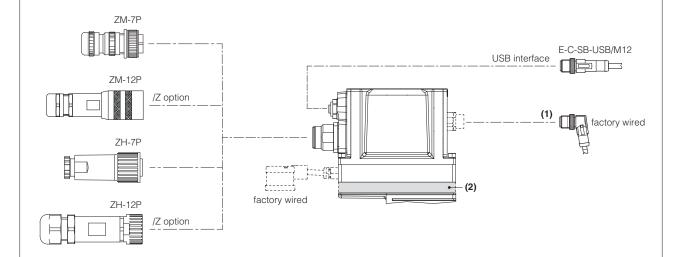
Storage -40°C ÷ +70°C

Mechanical Resistance:



Mechanical Resistance with damping plate (/V option):





Notes:

- above data refer to the electronics only and may differ from those indicated in the technical table of the valve, which shows complete product data
- the use of metallic connectors is strongly recommended in order to fulfill EMC requirements
- (1) only for piloted valves
- (2) damping plate, only for /V option

Servoproportional directionals (2):

DLHZO-TEB
DLKZOR-TEB
DKZOR-TEB
DKZOR-TEB
DKZOR-LEB
LIGZP-LEB
LIGZP-LEB
technical table FS168
technical table FS168
technical table FS178
technical table FS340

High performance directionals (2):

DHZO-TEB technical table FS165
DPZO-TEB technical table FS165
DPZO-LEB technical table FS172
DPZO-LEB technical table FS330
LIQZH-LEB technical table FS338

LIQZP-TEB technical table TFS325

Flow valves:

QVHZO-TEB technical table FS412 **QVKZOR-TEB** technical table FS412

(2) LIQZP has replaced LIQZO



Temperature:

Ambient -40°C + +60°C

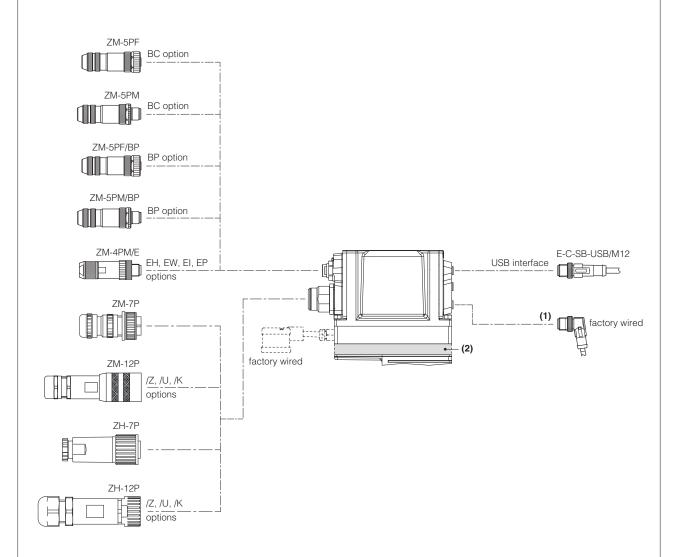
Storage -40°C ÷ +70°C

Mechanical Resistance:

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Mechanical Resistance with damping plate (/V option):





Notes:

- above data refer to the electronics only and may differ from those indicated in the technical table of the valve, which shows complete product data
- the use of metallic connectors is strongly recommended in order to fulfill EMC requirements
- (1) only for piloted valves
- (2) damping plate, only for /V option

| Servoproportional directionals (2) |
|------------------------------------|
|------------------------------------|

DLHZO-TES technical table FS180
DLZOR-TES technical table FS180
DHZO-TES technical table FS168
DKZOR-TES technical table FS168
DPZO-LES technical table FS178
LIQZP-LES technical table FS340

High performance directionals (2):

DHZO-TES
DKZOR-TES
technical table FS165
DPZO-TES
technical table FS172
DPZO-LES
tlQZP-LES
tlQZH-LES
technical table FS330
technical table FS338

Flow valves:

QVHZO-TES technical table FS412 **QVKZOR-TES** technical table FS412



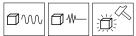
IP66 / IP67

Temperature:

Ambient -40°C ÷ +60°C

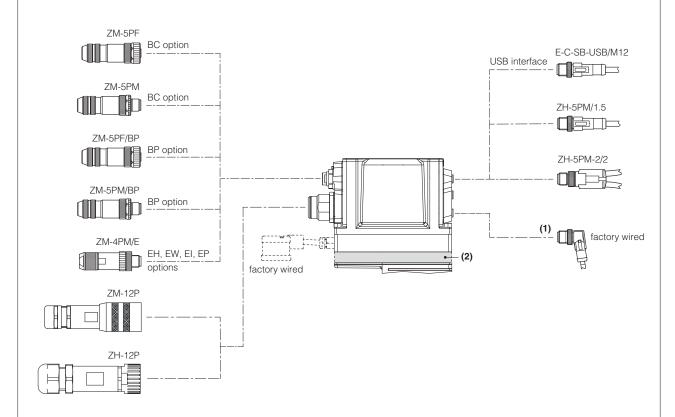
Storage -40°C ÷ +70°C

Mechanical Resistance:



Mechanical Resistance with damping plate (/V option):





Notes:

- above data refer to the electronics only and may differ from those indicated in the technical table of the valve, which shows complete product data
- the use of metallic connectors is strongly recommended in order to fulfill EMC requirements
- (1) only for piloted valves
- (2) damping plate, only for /V option

Servoproportional directionals, with P/Q controls (2):

DLHZO-TES technical table FS180
DHZO-TES technical table FS180
DHZO-TES technical table FS168
DHZO-LES technical table FS168
LIQZP-LES technical table FS178
technical table FS340

High performance directionals, with P/Q controls:

DHZO-TES technical table FS165
DKZOR-TES technical table FS165
DPZO-LES technical table FS175

(2) LIQZP has replaced LIQZO

IP66 / IP67

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EMC:

Temperature:

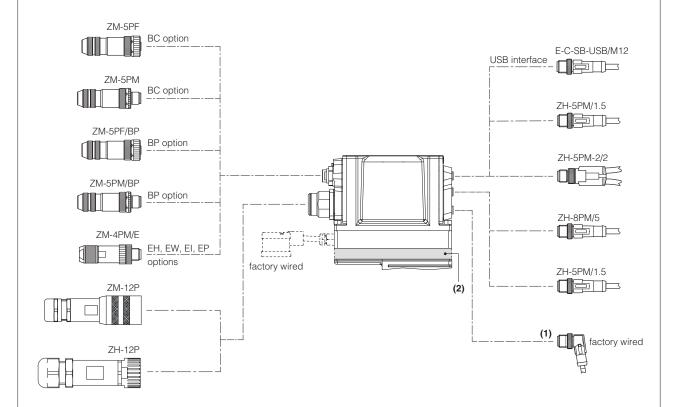
Ambient **-40°C ÷ +60°C**

Storage -40°C ÷ +70°C

Mechanical Resistance:

 Mechanical Resistance with damping plate (/V option):





Notes:

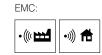
- above data refer to the electronics only and may differ from those indicated in the technical table of the valve, which shows complete product data
- the use of metallic connectors is strongly recommended in order to fulfill EMC requirements
- (1) only for piloted valves
- (2) damping plate, only for /V option

Axis controls:

DLHZO-TEZ
DLKZOR-TEZ
DHZO-TEZ
DKZOR-TEZ
DFZO-LEZ

technical table FS620
technical table FS630



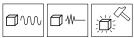


Temperature:

Ambient **-40°C ÷ +60°C**

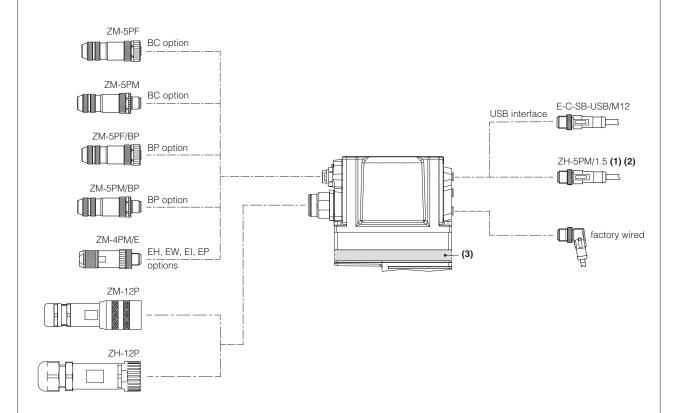
Storage -40°C ÷ +70°C

Mechanical Resistance:



Mechanical Resistance with damping plate (/V option):





Notes:

- above data refer to the electronics only and may differ from those indicated in the technical table of the valve, which shows complete product data
- the use of metallic connectors is strongly recommended in order to fulfill EMC requirements
- (1) only for /S, /X and /SX options
- (2) factory wired for /X and /SX options (3) damping plate, only for /V option

Variable displacement pumps:

PVPC-PES technical table AS170 **PVPC-PERS** technical table AS170

16 E-BM-AS off-board drivers

Ingress Protection:

IP20

EMC:

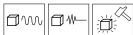


Temperature (1):

Ambient -20°C ÷ +60°C

Storage -25°C ÷ +85°C

Mechanical Resistance:



(1) Ambient temperature for 05H version used for two single solenoid valves: -20°C ÷ +40°C

Electronics drivers:

E-BM-AS technical table G030

17 E-BM-AES, E-BM-RES off-board drivers

Ingress Protection:

IP20

EMC:

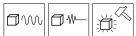


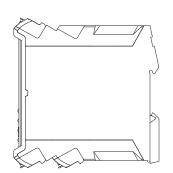
Temperature:

Ambient -20°C ÷ +60°C

Storage **-25°C ÷ +85°C**

Mechanical Resistance:





Electronics drivers:

E-BM-AES technical table GS050 **E-BM-RES** technical table GS203

18 E-BM-TEB/LEB, E-BM-TES/LES, E-BM-TID/LID off-board drivers

Ingress Protection:

IP20

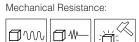
EMC:



Temperature (1):

Ambient -20°C ÷ +60°C

Storage -25°C ÷ +85°C



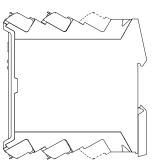


(1) Ambient temperature for TES/LES: -20°C \div +50°C

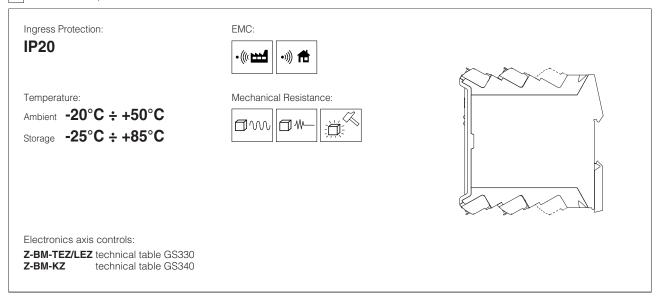
Electronics drivers:

E-BM-TEB/LEB technical table GS230

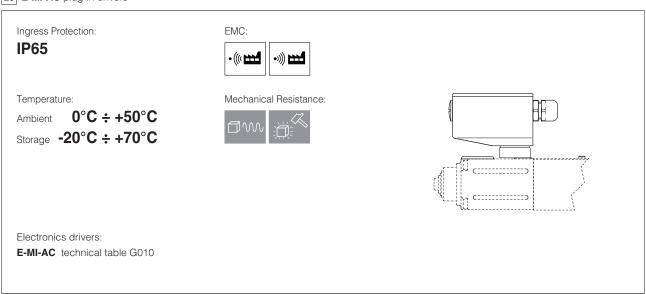
E-BM-TES/LES technical table GS240 **E-BM-TID/LID** technical table GS235 - phase-out



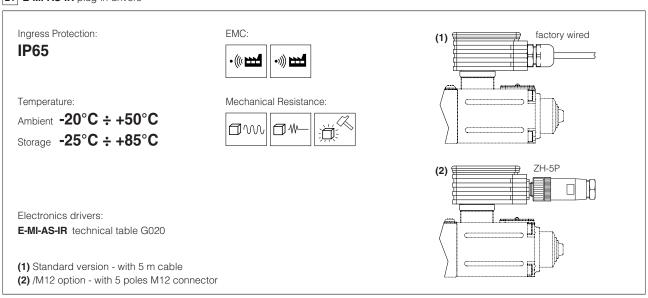
19 Z-BM-TEZ/LEZ, Z-BM-KZ off-board axis cards



20 E-MI-AC plug-in drivers



21 E-MI-AS-IR plug-in drivers



IP66 / IP67

EMC: ·((m) ·»)) 👚

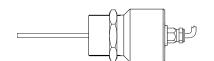
Temperature:

Ambient -40°C ÷ +60°C

Storage -40°C ÷ +70°C

Mechanical Resistance:





Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

High performance directionals:

DHZE-TID technical table FS155 **DKZE-TID** technical table FS155

23 E-THT-4 LVDT transducers

Ingress Protection:

IP66 / IP67

EMC:



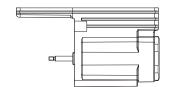
Temperature:

Ambient -40°C + +60°C

Storage -40°C ÷ +70°C

Mechanical Resistance:





Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

Servoproportional directionals (1) (2):

DLHZO-TE* technical table FS180 **DLKZOR-TE*** technical table FS180 DHZO-TE* technical table FS168

DKZOR-TE* technical table FS168 DPZO-LE* technical table FS178 LIQZP-LE* technical table FS340

Flow valves:

QVHZO-TE* technical table FS412 QVKZOR-TE* technical table FS412 High performance directionals (1) (2):

DHZO-TE* technical table FS165 **DKZOR-TE*** technical table FS165 **DPZO-LE*** technical table FS175 **LIQZP-LE*** technical table FS330 technical table FS330 LIQZH-LE* technical table FS338

PVPC-PES technical table AS170 PVPC-PERS technical table AS170 Axis controls (1):

DLHZO-TEZ technical table FS610 DLKZOR-TEZ technical table FS610
DHZO-TEZ technical table FS620 **DKZOR-TEZ** technical table FS620 DPZO-LEZ technical table FS630

Variable displacement pumps:

(1) For DPZO and LIQZP the E-THT-4 transducer is used for pilot stage (2) LIQZP has replaced LIQZO

24 4-ETH LVDT transducers

Ingress Protection:

IP65

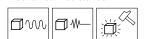
EMC:

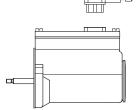




Temperature:

Ambient -40°C ÷ +60°C Storage -40°C ÷ +70°C Mechanical Resistance:





Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

Servoproportional directionals (1) (2):

DLHZO-T technical table F180 **DLKZOR-T** technical table F180 technical table F168 DHZO-T **DKZOR-T** technical table F168

DPZO-L technical table F178 technical table F340 LIQZP-L

High performance directionals (1) (2):

DHZO-T technical table F165 **DKZOR-T** technical table F165 **DPZO-L** technical table F175 LIQZP-L technical table F330

Flow valves:

QVHZO-T technical table F412 QVKZOR-T technical table F412

(1) For DPZO and LIQZP the 4-EHT transducer is used for pilot stage (2) LIQZP has replaced LIQZO

25 E-THT-8/M12 LVDT transducers

Ingress Protection:

IP66 / IP67

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EMC:

Temperature:

Ambient -40°C ÷ +60°C

Storage -40°C ÷ +70°C

Mechanical Resistance:







ZBE-08

Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

Servoproportional directionals:

DPZO-L technical table F178 LIQZP-L size 25 ÷ 40 tech. table F340 High performance directionals:

DPZO-L technical table F175 DPZO-T technical table F172

LIQZP-L size 16 ÷ 40 tech. table F330

26 E-THT-8/P** LVDT transducers

Ingress Protection:

IP66 / IP67

EMC:



Temperature:

Ambient -40°C + +60°C

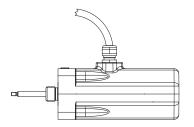
Storage -40°C ÷ +70°C

Mechanical Resistance:









Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

Servoproportional directionals:

DPZO-LE* size **1** ÷ **6** tech. table FS178 LIQZP-LE* size 25 ÷ 40 tech. table FS340 High performance directionals:

DPZO-LE* size **1** ÷ **6** tech. table FS175 **LIQZP-LE*** size **16** ÷ **40** tech. table FS330

LIQZP-TEB size 16 ÷ 40 tech. table TFS325

Axis controls:

DPZO-LEZ technical table FS630

27 E-THT-8/TID LVDT transducers

Ingress Protection:

IP66 / IP67

EMC:

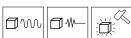


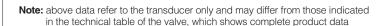
Temperature:

Ambient -40°C ÷ +60°C

Storage -40°C ÷ +70°C

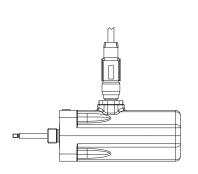
Mechanical Resistance:





High performance directionals:

DPZE-TID technical table FS158



28 E-THT-15/M12 LVDT transducers

Ingress Protection:

IP66 / IP67

EMC:

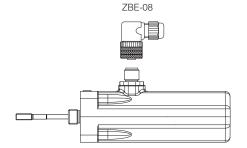
Temperature:

Ambient -40°C ÷ +60°C

Storage -40°C ÷ +70°C

Mechanical Resistance:





Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

Servoproportional directionals: High performance directionals:

LIQZP-L size **50** ÷ **80** tech. table F340 **LIQZP-L** size **50** ÷ **100** tech. table F330

29 E-THT-15/P** LVDT transducers

Ingress Protection:

IP66 / IP67



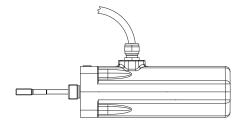
Temperature:

Ambient **-40°C ÷ +60°C**

Storage -40°C ÷ +70°C

Mechanical Resistance:





Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

Servoproportional directionals:

High performance directionals:

LIQZP-LE* size $\textbf{50} \div \textbf{80}$ tech. table FS340

LIQZP-LE* size **50** ÷ **100** tech. table FS330 **LIQZH-LE*** size **32** ÷ **100** tech. table FS338

LIQZP-TEB size 50 ÷ 100 tech. table TFS325

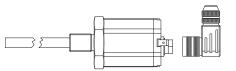
30 E-THT-50-MTS magnetostrictive linear position transducers

Ingress Protection:

EMC:

IP67





STCO9131-6-PG9

Temperature:

Mechanical Resistance:

Ambient -40°C ÷ +80°C

Shock: IEC Standard 60068-2-27 Vibration: IEC Standard 60068-2-27

15 g / 10 ÷ 2000 Hz

(resonance frequencies excluded)

Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

High performance directionals:

LIQZP-LE* size **125** technical table FS330 **LIQZP-L** size **125** technical table F330

EMC:

IP67

EN 61326 emission (group 1, class B) and interference immunity (industrial application)

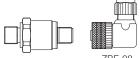
Temperature:

Mechanical Resistance:

Ambient -40°C ÷ +100°C Storage -40°C ÷ +100°C

Shock: DIN EN 60068-2-27 40 g / 6 ms / half sinusoid Vibration: DIN EN 60068-2-6

20 g / 20 ÷ 2000 Hz



Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

Accessories:

E-ATR-8 technical table GS465

Ingress Protection: IP66 / IP67

EMC:





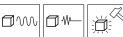


Temperature:

Ambient -40°C ÷ +100°C

Storage -40°C ÷ +100°C

Mechanical Resistance:



Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

Variable displacement pumps (1):

PVPC-PES technical table AS170 **PVPC-PERS** technical table AS170

(1) only for /X and /SX options

EMC:

Ingress Protection: **IP66 / IP67**



Temperature:

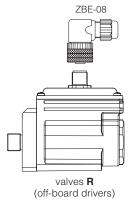
Ambient **-40°C** ÷ +100°C

Storage -40°C ÷ +100°C

Mechanical Resistance:



Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data



High performance pressure valves:

RZMO-R*-010 technical table FS010
RZMO-R*-030 technical table FS067
AGMZO-R* technical table FS040
RZGO-R*-033 technical table FS057
AGRCZO-R* technical table FS055
LICZO-R* technical table FS305
LIRZO-R* technical table FS305
LIRZO-R* technical table FS305
LIRZO-R* technical table FS305

valves **REB** and **RES** (on-board drivers)

32 E-THT-FV-10 inductive position switches

Ingress Protection:

IP66 / IP67

EMC:

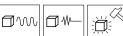


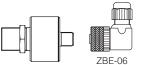
Temperature:

Ambient **-40°C ÷ +60°C**

Storage -40°C ÷ +70°C

Mechanical Resistance:





Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

Safety on-off directionals, single solenoid valves (1):

DHI-06 technical table EY010
DHE-06 technical table EY010
DKE-16 technical table EY010
HF-0611 technical table EY050
HF-0614 technical table EY050
HF-0673 technical table EY050
HF-0673 technical table EY050

JO-DL technical table EY030
technical table EY030
LIDAS technical table EY120
LIDASH technical table EY120

(1) only for /FV option

33 E-THT-FV-20 inductive position switches

Ingress Protection:

IP66 / IP67

EMC:

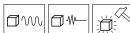


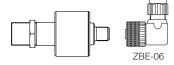
Temperature:

Ambient **-40°C ÷ +60°C**

Storage -40°C ÷ +70°C

Mechanical Resistance:





Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

Safety on-off directional, double solenoid valves (1):

DHE-07 technical table EY010 **DKE-17** technical table EY010

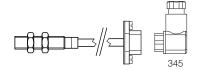
(1) only for /FV option

IP67 IEC 61000-4-2 level 2

IEC 61000-4-3 level 3 IEC 61000-4-4 level 2

Temperature: Mechanical Resistance:

Ambient -25°C ÷ +70°C IEC 60947-5-2 / 7.4



Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

Safety on-off directionals valves (1):

DHI-06 technical table EY010 DHI-07 technical table EY010 DHE-06 technical table EY010

DHE-07 technical table EY010 DKE-16 technical table EY010 DKE-17 technical table EY010

(1) only for /FI option

Ingress Protection: EMC:

IP68 IEC 61000-4-2 level 2 IEC 61000-4-3 level 3

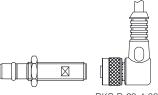
IEC 61000-4-4 level 3

Temperature: Mechanical Resistance:

Ambient **-25°C ÷ +70°C** Shock: EN 60068-2-27

Half-sinus, 30 gn, 11 ms Vibration: EN 60068-2-6

55 Hz, amplitude 1 mm, 3x30 min



BKS-B-20-4-03

Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

Safety on-off directionals valves (1):

LIFI technical table EY120 **LIDA** technical table TEY120 LIDASH technical table TEY120

(1) only for /FI option

35 OBSOLETE LVDT TRANSDUCERS

35.1 8-ETHR LVDT transducers



IP66 / IP67

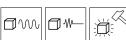
EMC: •))) ## •((()

Temperature:

Ambient -40°C ÷ +60°C

Storage -40°C ÷ +70°C

Mechanical Resistance:



Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

Servoproportional directionals:

DPZO-LE* size 8 LIQZO-LE*

High performance directionals:

DPZO-LE* size 8 LIQZO-LE* LIQZO-TEB

Axis controls:

DPZO-LEZ

35.2 8-ETH LVDT transducers

Ingress Protection:

IP66 / IP67

EMC:



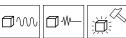
Temperature:

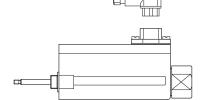
Ambient -40°C ÷ +60°C

Storage -40°C ÷ +70°C



Mechanical Resistance:





Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

Servoproportional directionals:

DPZO-LE* size 1 to 6

DPZO-L LIQZO-L High performance directionals:

DPZO-LE* size 1 to 6

DPZO-L **DPZO-TE*** DPZO-T LIQZO-L

35.3 E-THT-15 LVDT transducers

Ingress Protection:

IP66 / IP67

EMC:







Temperature:

Ambient -40°C ÷ +60°C

Storage -40°C ÷ +70°C

Mechanical Resistance:



Note: above data refer to the transducer only and may differ from those indicated in the technical table of the valve, which shows complete product data

Servoproportional directionals:

High performance directionals:

LIQZP-LE* size 50 ÷ 80 tech. table FS340 **LIQZP-L** size **50** ÷ **80** tech. table F340

LIQZP-LE* size 50 ÷ 100 tech. table FS330 LIQZP-L size 50 ÷ 100 tech. table F330 LIQZH-LE* size 32 ÷ 100 tech. table FS338

LIQZP-TEB size 50 ÷ 100 tech. table TFS325