

HOW TO ORDER

ESWHAE	-G	03	-C2	-30	-D24	-K31	-A1
Series	Mounting Style	Nominal Size	Spool Type	Nominal Flow	Supply Voltage	Connector	Command Value
Proportional directional valve, Direct operated, open loop, with integrated electronics	Subplate Mounted	03:10mm	①	30:30L/min 60:60L/min	D24:DC24V	No code: with amplifier connector K31: without	A1: ±10V F1: 4-20mA

① List of Spool Configurations

Application	Spool Type	Symbols	Application	Spool Type	Symbols
4-way, 3-position	C2 C21		4-way, 2-position	C2B	
	C30			C4B	
	C40 C41			C2BS	
			C4BS		

Remarks: spool type C21, C41, rated flow ratio of P-A and B-T is 2:1, P-B and A-T is 1:2



Technical Data

Nominal Size	G03(10mm)
Installation Position	any, preferably horizontal
Storage temperature range	-15 to 80°C
Ambient temperature range	-15 to 70°C
Weight	6.6kg

● Hydraulic(measured with P=100bar, VG46, 90l = 40 ±5 °C

Maximum operating pressure	PortA, B, P 315 bar PortT 210 bar
Nominal flow ΔP=10bar	30, 60L/min
Maximum flow	75L/min
Hydraulic fluid	Mineral Oil
Viscosity range	20 to 380mm ² /s (preferably 30...46)
admissible degree of contamination of the hydraulic fluid	Maximum admissible degree of contamination of the hydraulic fluid, cleanliness class 9 according to NAS 1638 and Class 20/18/15 according to ISO 4406 (c)
Hysteresis	≤5%
Range of inversion	≤1%
Response sensitivity	≤0.5%

● Electrical

Rated current	3.3A
Solenoid coil resistance	Cold value 2.0Ω Maximum hot value 3.0Ω
Actuated time	ED 100%
Maximum coil temperature	150°C
Protection class	IP65

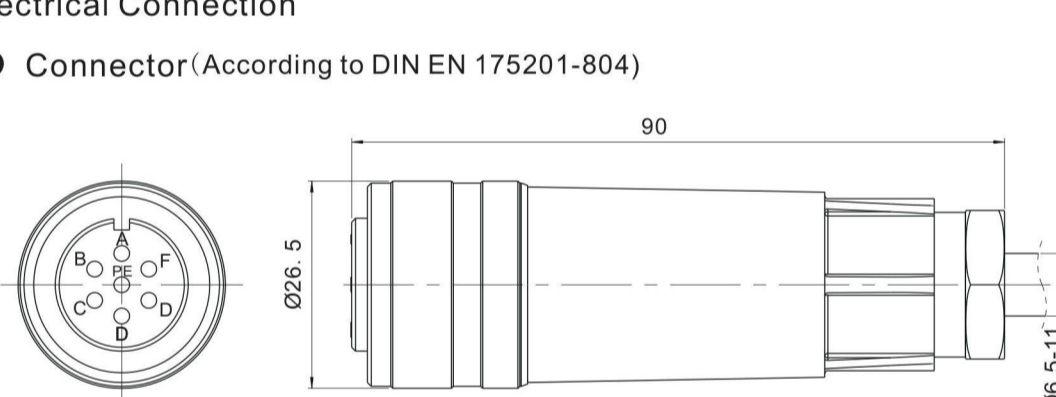
● Amplifier

Type	Digital
Supply Voltage	DC24V(19-35V)
Power Consumption	<45VA
Current Consumption	<2A
Command Value	±10V(Re>50KΩ) or 4-20mA(Re<200Ω)
Electrical connection	Connector (according to DIN EN 175201-804)
Protection class	IP65



Electrical Connection

● Connector(According to DIN EN 175201-804)



● Pin Assignment

Contact	Function	-A1 voltage type	-F1 Current type
A	Power Supply	DC24V(19-35V)	
B		0V	
D	Differential amplifier input (command value)	±10V(Re>50KΩ)	4-20mA(Re<200Ω)
E		Reference Potential command value	
F	can not be used		
C			
PE	Earthing	Connected to the valve side cover and housing	

Command value:

Positive command value (0...10 V or 12...20 mA) at D and reference potential at E result in flow from P → A and B → T

Negative command value (0...-10 V or 12...4 mA) at D and reference potential at E result in flow from P → B and A → T

With control spool type C*B, a positive command value at D and reference potential at E (0 to +10V or 4 to 20mA) result in flow from P → B and A → T;

With control spool type C*BS, with same condition, it results in P → A and B → T

Connection cable: Recommendation

Up to 25m cable length type LiYCY 5 x 0.75 mm²

Up to 50m cable length type LiYCY 5 x 1.0 mm²

External diameter 6.5 ... 11 mm, Connect shield on PE only on the supply side



● Amplifier Internal Diagram

