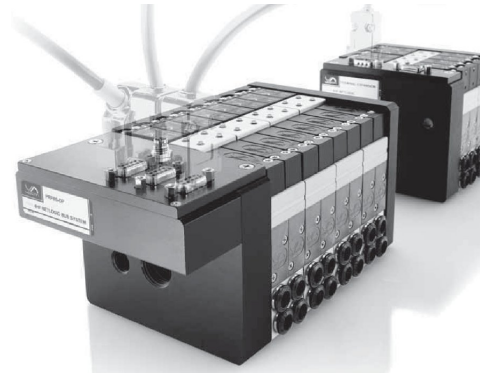


Valve island system with MULTIPOL connection or FIELDBUS

Series 4HF and 4HF-NETLOGIC



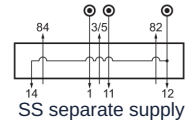
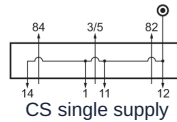
Design type	compact, modular valve manifold with up to 8 modules for 2 valve stations each, individually configurable with various valve functions; for an odd number of valves, a single station is available at the end of the valve island; with pressure separators different operating pressures can be selected; the pilot solenoid valves are easily replaceable from above; easily expandable later on
4HF(MULTIPOLE)	Valve manifold Multipole system optionally with 25-pin Sub-D connector with a total max. 22 pilot solenoid valves or 37-pin Sub-D connector with max. 32 pilot solenoid valves Voltage: 24VDC, 24VAC (50/60Hz)
4HF-NETLOGIC (FIELDBUS)	Base station equipped with up to 32 pilot solenoid valves and expandable via expansion stations with max. 16 pilot solenoid valves each. Max. number of outputs 128, max. inputs 128, Protocol: optional PROFibus Connection DB9, PROFibus Connection M12, Ethernet/IP Connection M12, CANopen Connection M12 or DeviceNet Connection M12 Voltage: PROFibus, DeviceNet and Ethernet 24V DC ($\pm 10\%$), CANopen 24V DC Baud rates: PROFibus 9600bit/s-12Mbit/s, DeviceNet 125-500kbit/s, Ethernet 10-100Mbit/s, CANopen 10kbit/s-1Mbit/s. The bus controller automatically sets the baud rate. For CANopen the baud rate must be set. Current: max. 3A = Supply for max. 68 pilot solenoid valves Functionality: The communication system in 4hf-NETLOGIC operates via a shift register. All digital process data are sent and received bit by bit as an information signal up to 8 bits. If 8 bits are exceeded, the bus controller starts with a new byte. The base station with the bus controller also operates as an MIF port and can be connected to a PC via the RS232 interface. GSD files for installation and functional description available on request.
Working ports	bottom or side-mounted G1/8" or rather lateral push-in Ø8
Solenoid coil Signal	LED + Varistor protection
Manual actuation	Push button with latching
Degree of protection	IP65 according to EN 60529 (protection against dust ingress and water jets) 4HF and 4HF-NETLOGIC with M12 connection, IP54 4HF-NETLOGIC with DB9 connection
Mounting position	any
Medium	filtered and lubricated or non-lubricated compressed air
Flow rate	850 NI/min
Pressure range	Operating pressure -0,9 up to 10 bar, Control pressure 2,5 up to 8 bar
Medium temperature	0...+40°C
Ambient temperature	-10...+50°C
Power consumption	1W DC, 3VA AC, 100% Duty cycle (Continuous operation)
Material Pilot valve	glass fiber reinforced polyamide 6.6, Insulation Class F
Note	CAD files available on request



Type code "4HF (MULTIPOL)" and "4HF-NETLOGIC Base station"

4HF	Front panel	Valve stations	End plate	- Fieldbus	Connection (2/4)
25 MULTIPOL 25 bin SUB-D	CS simple Supply	Functions see table	PBlanking plate	0 Multipol 24 V DC	T G 1/8"
37 MULTIPOL 37 bin SUB-D	SSseparate supply	max. 32 pilot solenoid valves	Swith Supply and Exhaust air venting	5 Multipol 24 V AC	R push-in Ø8
NL PFD PROFibus DB9					
NL ETH Ethernet/IP M12					
NL PFM PROFibus M12					
NL CNO CANopen M12					
NL DNM DeviceNet M12					

Front panel



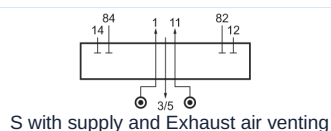
Valve stations

The priority sequence from B to V must be observed

	B	5/2-way valve electric/electric
	C	5/3-way valve electric/electric, centre position closed
	D	2 x 3/2-way valve NC solenoid/spring return also corresponds to 5/3-way valve center position open
	E	2 x 3/2-way valve NO solenoid/spring return also corresponds to 5/3-way valve center position pressurized
	F	2 x 3/2-way valve NC/NO solenoid/spring return
	W	free space for valve electric/electric
	M	5/2-way valve electric/spring return
	G	3/2-way valve NC electric/spring-return
	H	3/2-way valve NO electric/spring-return
	V	free space for valve electric/spring
	X	Operating pressure separator with separate pressure supply connection front side (... - X _ - ...)
	Y	Operating pressure separator with separate pressure supply connection rear side (... - _ Y - ...)

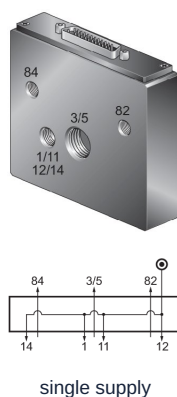


P Blanking plug

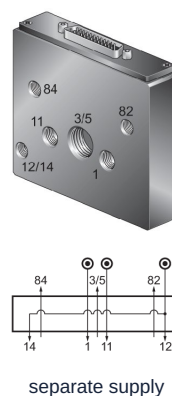


4HF NL EX -	- - - -	- - - - - - - - - - - - - - - -	-
	Front panel	Valve stations	End plate
	CS simple Supply	Functions see table	PBlanking plate
	SSseparate supply	max. 16 pilot solenoid valves	R push-in Ø8
			and Exhaust air venting

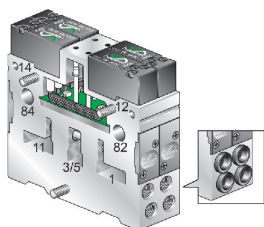
Front panel 4HF..CS-...



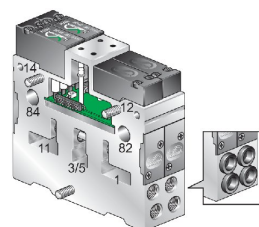
Front panel 4HF..SS-...



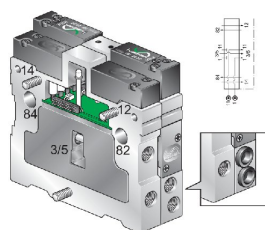
Module for solenoid valve manifold electric/electric - __ -



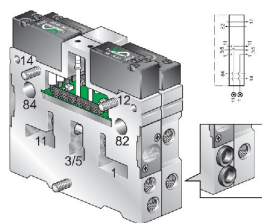
Module for solenoid valve manifold electric/spring - __ -



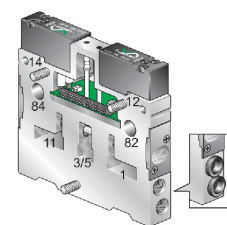
Module Working pressure separator - X _ -
with single-station module

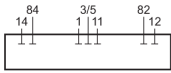
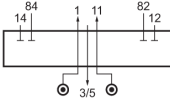


Module Working pressure separator - _ Y -
with single-station module

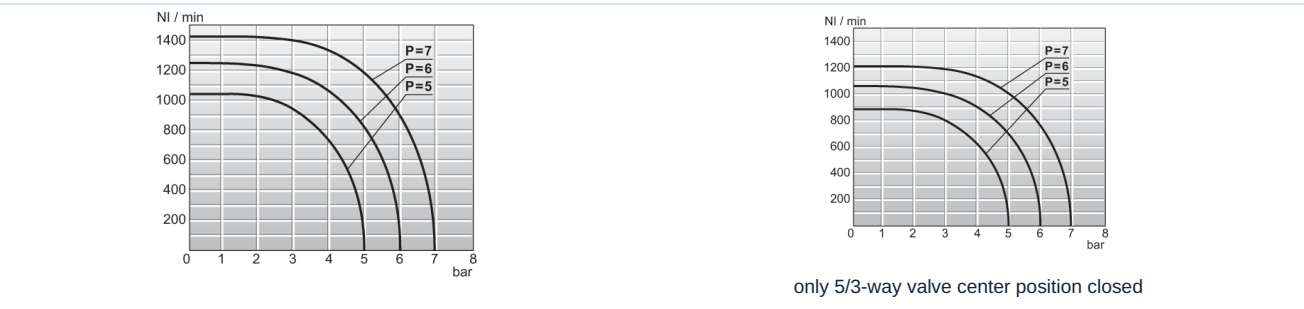


Single-station module



End plate 4HF....-..P..	End plate 4HF....-..S..
  Blanking plug	  with supply and Exhaust air venting

Flow diagram

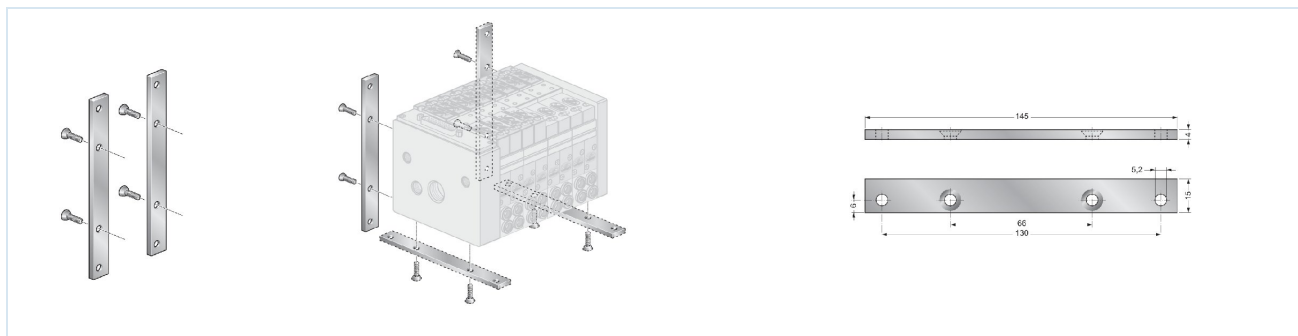


Pilot valves

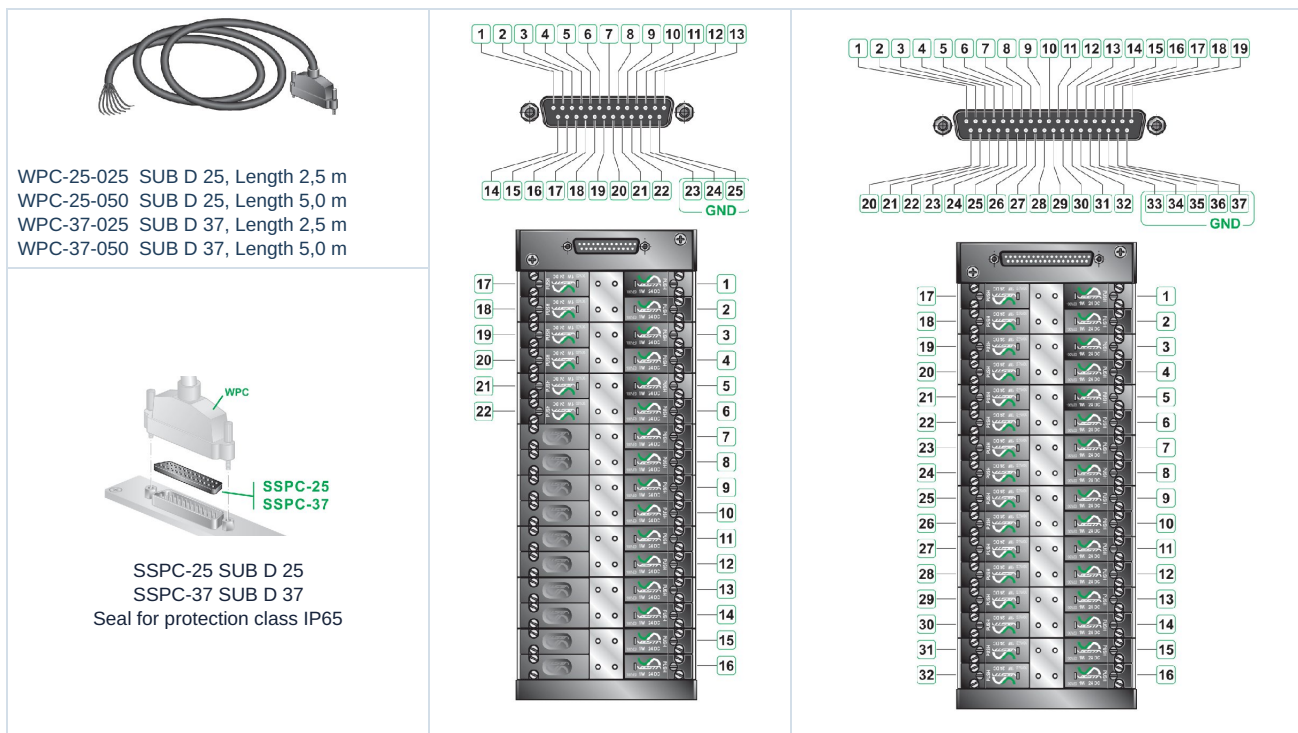
	Description	Voltage	Power consumption at 20°C	Type
	electrical	24V DC	1 W	CHF24DC
	electrical	24V AC	3 VA	CHF24DC
	pneumatic	-	-	PPHF



FLHF Wall mounting set



WPC- .. - ... Connection cable for 4hf MULTIPOL SUB D 25 and 37

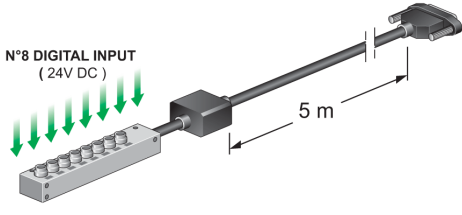
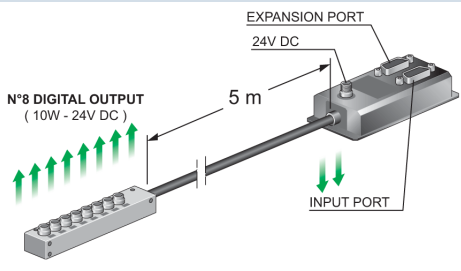
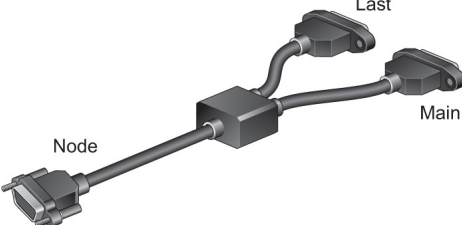
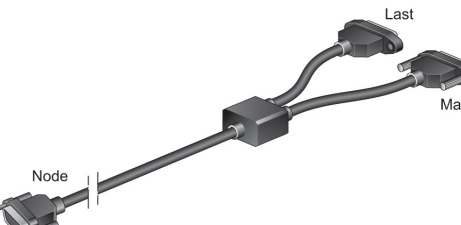
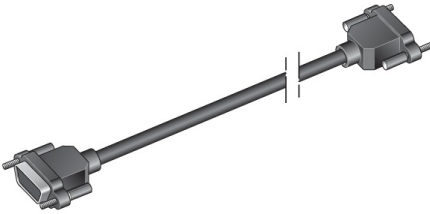
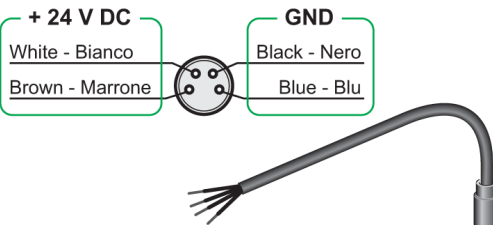
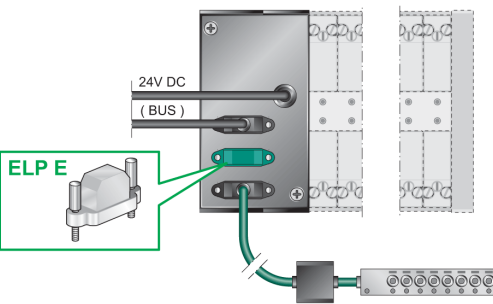
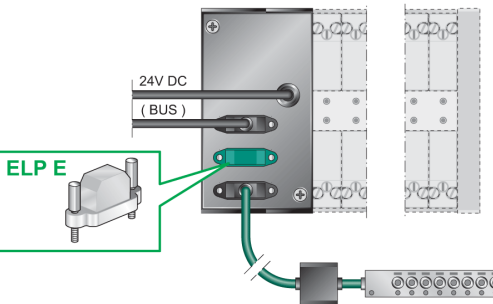


Pin assignment Connection cable

Connection	Connection	Connection	Color	Connection	Color	Connection	Color
1	white	11	grey pink	21	white blue	31	green blue
2	brown	12	red blue	22	brown blue	32	yellow blue
3	green	13	white green	23	white red	33	green red
4	yellow	14	brown green	24	brown red	34	yellow red
5	grey	15	white yellow	25	white black	35	green black
6	pink	16	yellow brown	26	brown black	36	yellow black
7	blue	17	white grey	27	grey green	37	grey blue
8	red	18	grey brown	28	yellow grey		
9	black	19	white pink	29	pink green		
10	violet	20	pink brown	30	yellow pink		

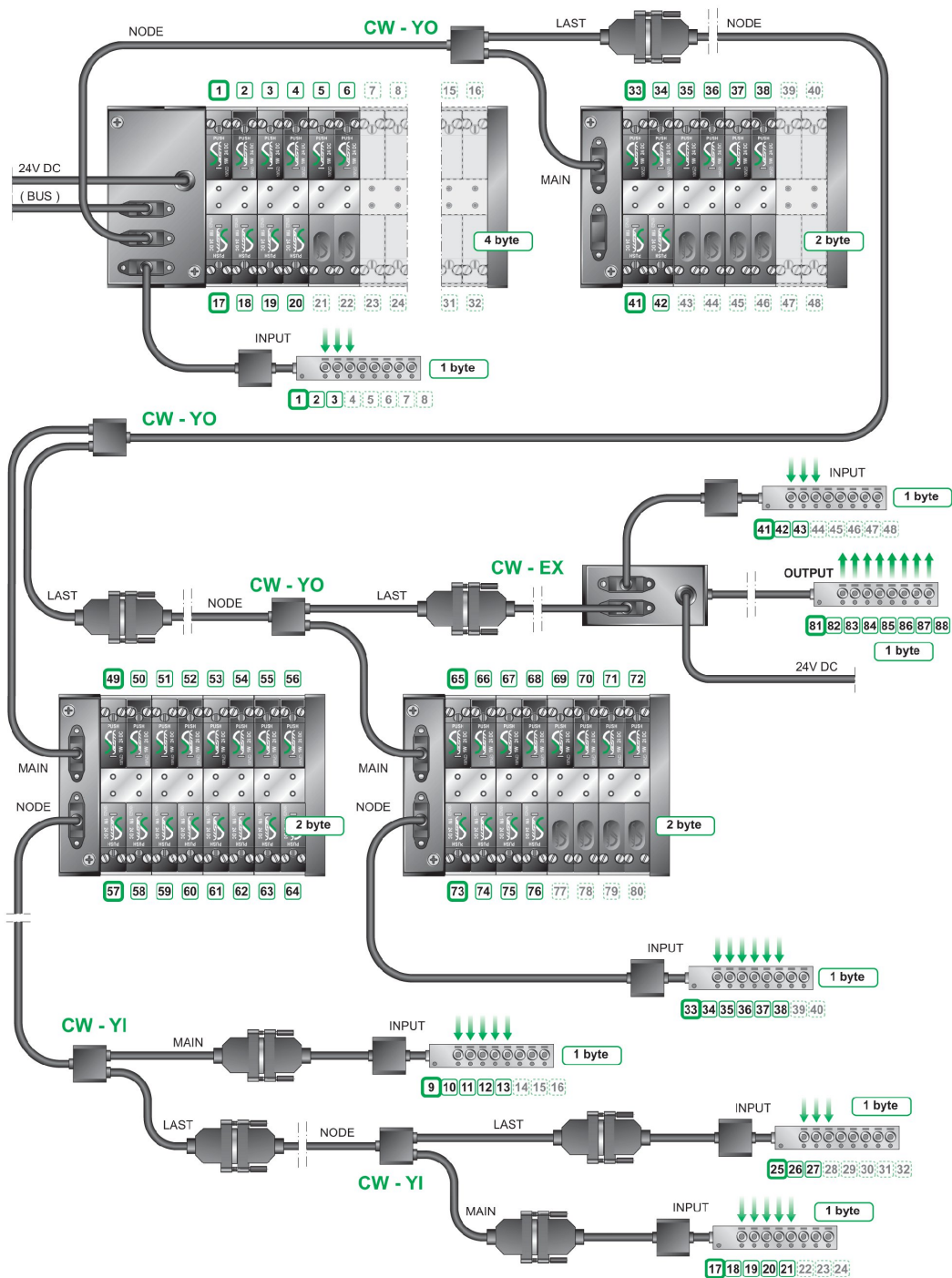


Accessories for valve island system 4hf-NETLOGIC

 N°8 DIGITAL INPUT (24V DC) 5 m SCBI 8-M8 Box for 8 inputs (24V DC)	 EXPANSION PORT 24V DC 5 m N°8 DIGITAL OUTPUT (10W - 24V DC) INPUT PORT SCBO 88-M Box for 8 digital outputs (10W - 24V DC)
 Last Main Node CW-YI "Y" INPUT cable	 Last Main Node CW-YO "Y" Cable
 CW-EX Cable for easy expansion	 + 24 V DC White - Bianco Brown - Marrone GND Black - Nero Blue - Blu CW-PS Power supply cable
 24V DC (BUS) ELP E ELP E Terminating plug for EXTENSION PORT	 24V DC (BUS) ELP E ELP I Terminating plug for INPUT PORT

Switching time, max. frequency

Actuation	Switching time [ms]		max Frequency [Hz]
	load	relieve	
electric/electric	12	12	35
electric/spring	16	22	22



Illustrations non-binding
Design, dimensional and material changes reserved

Pneumatics / Way-valves - electrically / pneumatically / Other materials - P02 / MULTIPOL Valve island Series 4HF

