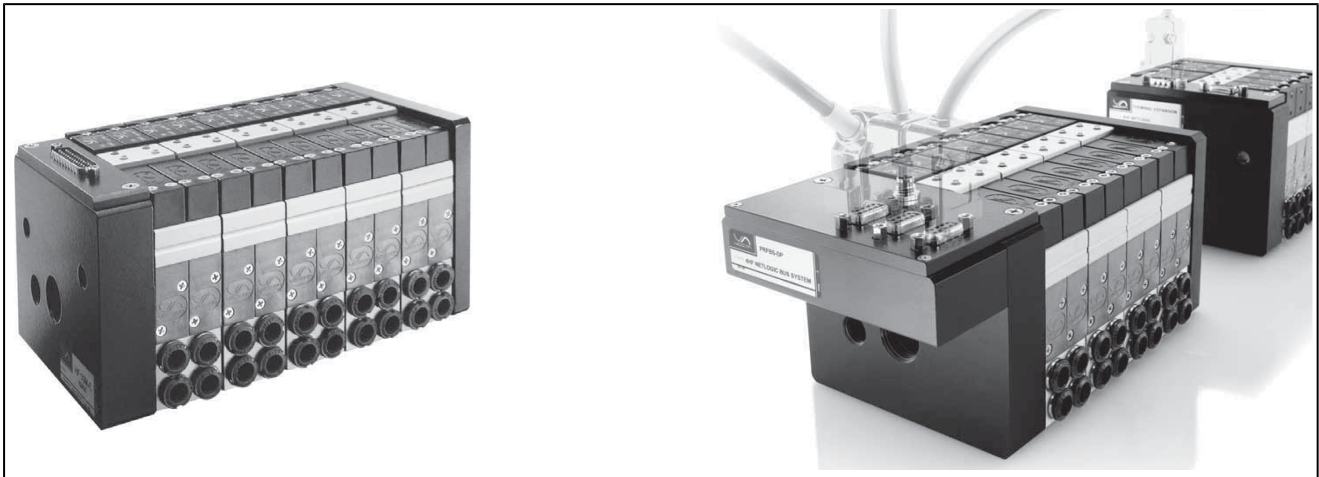


valve island system with multipole-connection or field-bus series 4HF and 4HF-NETLOGIC



design	compact, modular valve unit with up to 8 modules for 2 valve-stations, individually to be combined with several valve functions; a single unit on the the end of the valve island is available for an uneven amount of valves; with pressure separator different working pressures can be used; the pilot solenoid valves are easily changeable from above; later easy to expand
4HF(MULTIPOL)	valve island multipol-system optionally with 25-pin SUBD connector for max. 22 pilot magnetic valves resp. with 37-pin SUBD connector for 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 extension groups each with a maximum of 16 pilot solenoid valves. max. number of outlets 128, max. inlets 128, protocol: optional <i>PROFibus</i> connection DB9, <i>PROFibus</i> connection M12, <i>Ethernet/IP</i> connection M12, <i>CANopen</i> connection M12 or <i>DeviceNet</i> connection M12 voltage: <i>PROFibus</i> , <i>DeviceNet</i> and <i>Ethernet</i> 24V DC ($\pm 10\%$), <i>CANopen</i> 24V DC baud rates: <i>PROFibus</i> 9600bit/s-12Mbit/s, <i>DeviceNet</i> 125-500kbit/s, <i>Ethernet</i> 10-100Mbit/s, <i>CANopen</i> 10kbit/s-1Mbit/s. the bus controller stops the baud rate automatically. the baud rate must be configured for <i>CANopen</i> . current: max. 3A = supply for max. 68 pilot-solenoid valves functionality: the Communicationsystem in 4hf-NETLOGIC functions via a switching register. all digital process data will transmitted and received bit for bit as an information signal up to 8 bits.. when 8 bit are exceeded, the bus-controller starts up with a new byte. the basis station with the bus controller works also as MIF port and can be connected by the RS232 interface with a PC. GSD files for the installation and function description are available on request.
working ports	below or lateral G1/8" respectively lateral push-in Ø8
coil signal	LED + varistor protection
manual operation	push button with a locking device
protection class	IP65 acc. to EN 60529 (protection against dust and jet water) 4HFand 4HF-NETLOGIC with M12 connector, IP54 4HF-NETLOGIC with DB9 connector
mounting position	any
medium	filtered and lubricated or non lubricated compressed air
flow rate	850 NI/min
pressure range	operating pressure -0,9 to 10 bar, control pressure 2,5 to 8 bar
medium temperature	0...+40°C
ambient temperature	-10...+50°C
consumption	1W DC, 3VA AC, 100% duty cycle (continuous operation)
material pilot valve	fibre-glass-reinforced polyamide 6.6, insulation class F
information	CAD-files are available on request

type code "4HF (MULTIPOL)" and "4HF-NETLOGIC base station"

4HF	25 MULTIPOL 25 bin SUB-D 37 MULTIPOL 37 bin SUB-D NL PFD PROFibus DB9 NL ETH Ethernet/IP M12 NL PFM PROFibus M12 NL CNO CANopen M12 NL DNM DeviceNet M12	front panel CS simple supply SS separate supply	valve stations see chart for functions max. 32 pilot-solenoid valves	end plate P plug plate S incl. supply and air relieving	- FIELDBUS 0 Multipol 24 V DC 5 Multipol 24 V AC	connection (2/4) T G 1/8" R push-in Ø8
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front panel

	CS simple supply		SS separate supply
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valve stations

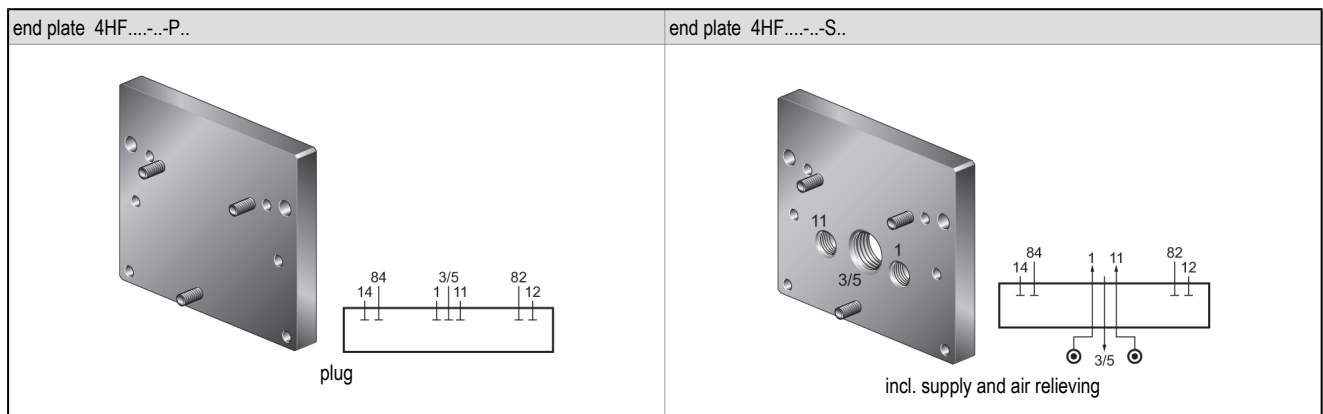
the priority sequence from B to V is to be kept

	B	5/2-way valve electrical/electrical
	C	5/3-way valve electrical/electrical, centre position closed
	D	2 x 3/2-way valve NC electrical/spring corresponds also 5/3-way valve centre position open
	E	2 x 3/2-way valve NO electrical/spring corresponds also 5/3-way valve centre position pressurised
	F	2 x 3/2-way valve NC/NO electrical/spring
	W	free space for electrical/electrical valve
	M	5/2-way valve electrical/spring
	G	3/2-way valve NC electrical/spring
	H	3/2-way valve NO electrical/spring
	V	free space for electrical/spring valve
	X	operating pressure separator with pressure supply port ahead (... - X - ...)
	Y	operating pressure separator with pressure supply port rear side (... - Y - ...)

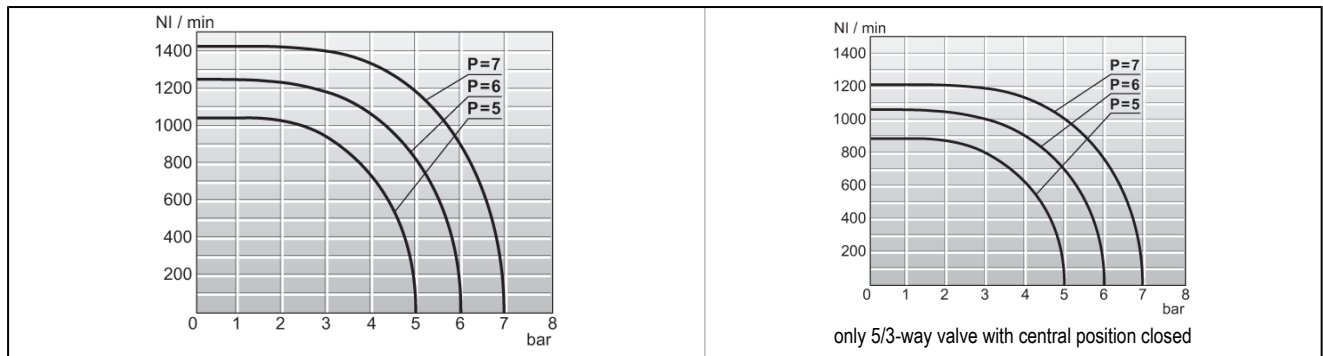
end plate	
P plug	S incl. supply and air relieving

4HF NL EX	- - - - - front panel CS simple supply SS separate supply	- - - - - ... - - - - - valve stations see chart for functions max. 16 pilot-solenoid valves	- end plate P plug plate S incl. supply and air relieving	- connection T G 1/8" R push-in Ø8
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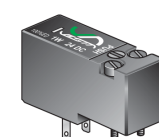
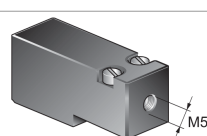
front panel 4HF..CS-...- simple supply	front panel 4HF..SS-...- separate supply	
module for solenoid valve unit electrical/electrical - _ _ -	module for solenoid valve unit electrical/spring - _ _ -	
module working pressure separator - X _ - with single-station module	module working pressure separator - _ Y _ - with single-station module	single station module



flow diagram

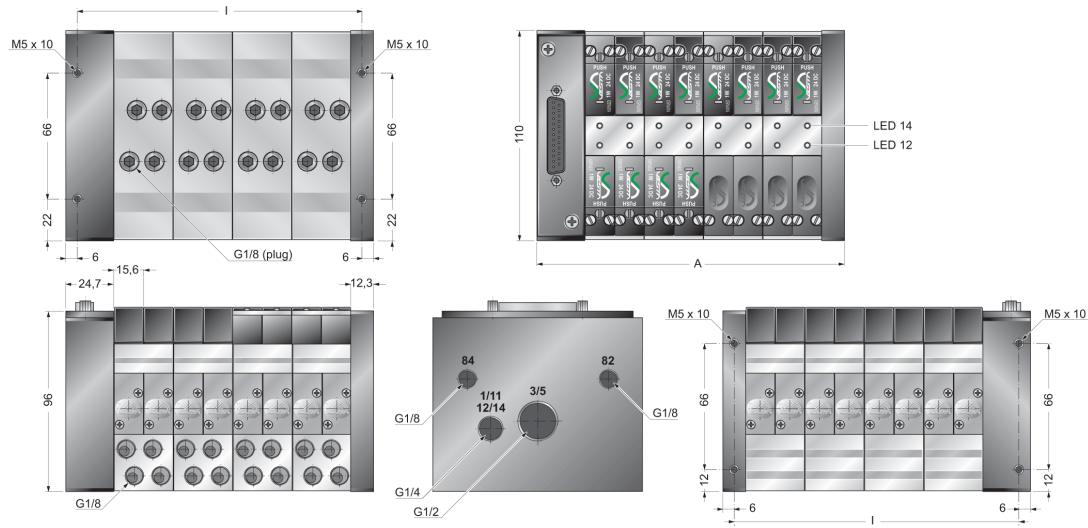


pilot valve

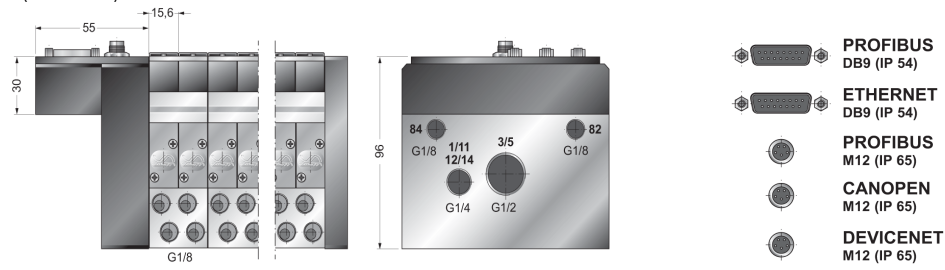
	description	voltage	consumption at 20 °C	type
	electric	24V DC	1 W	CHF24DC
	electric	24V AC	3 VA	CHF24DC
	pneumatic	-	-	PPHF

dimensions

4HF (MULTIPOL):

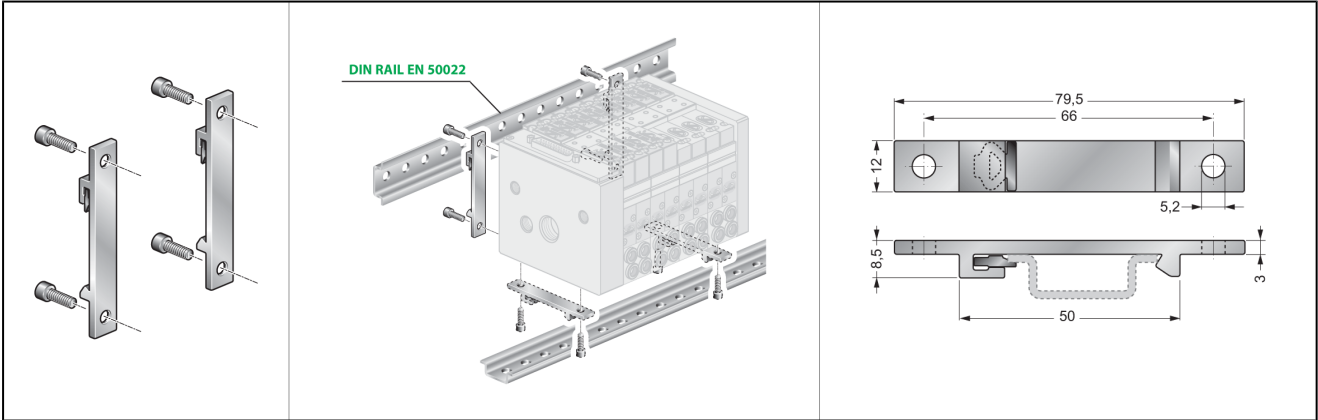


4HF-NETLOGIC (FIELDBUS):

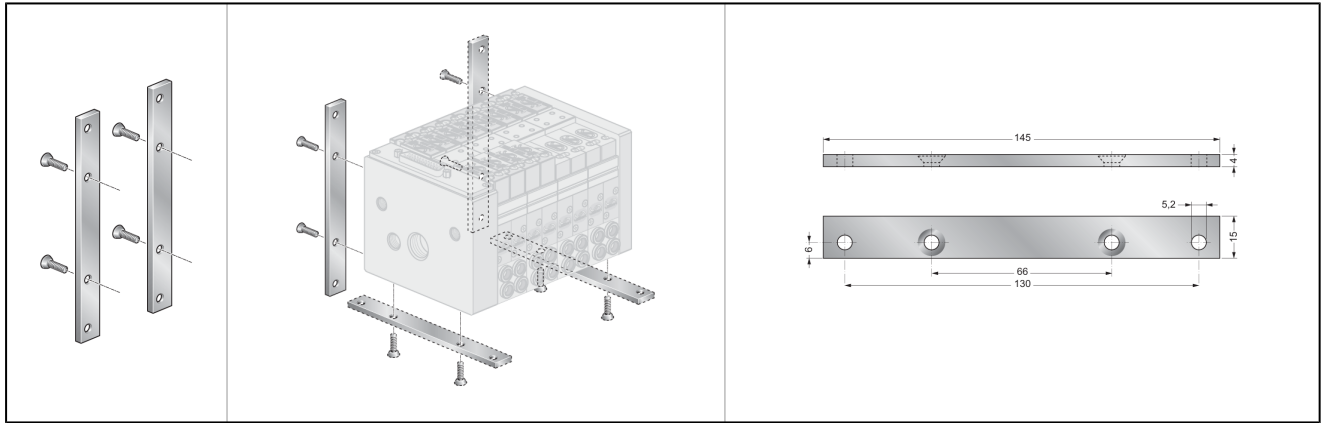


	number of valve groups														
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	68	84,5	99,4	115,5	130,5	147	162	178	193	209	224	240,5	255,5	271,5	286,5
I	56	72,5	87,5	103,5	118,5	135	150	166	181	197	212	228,5	243,5	259,5	274,5

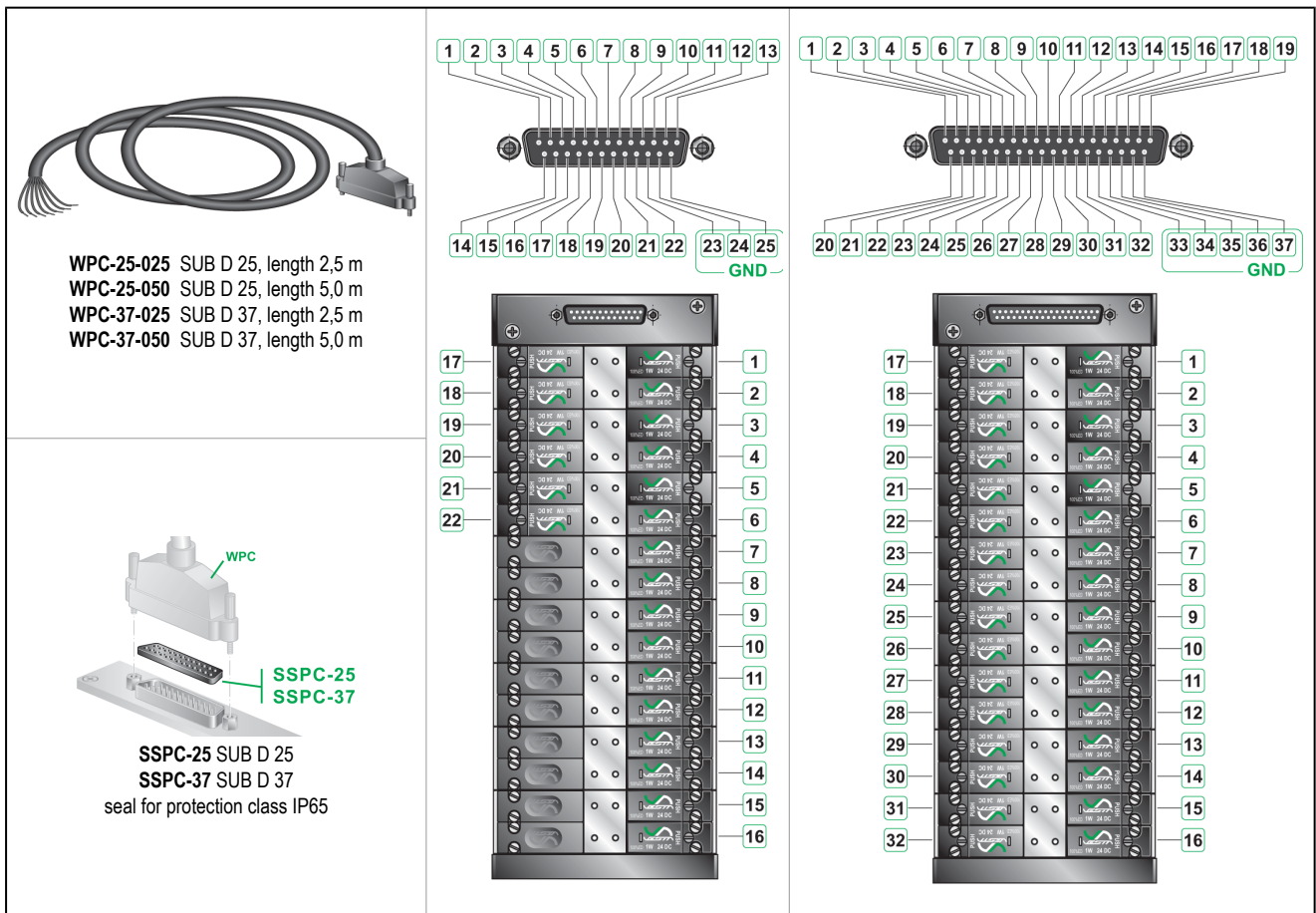
BRHF mounting set acc. to DIN RAIL EN 50022



FLHF set for wall mounting



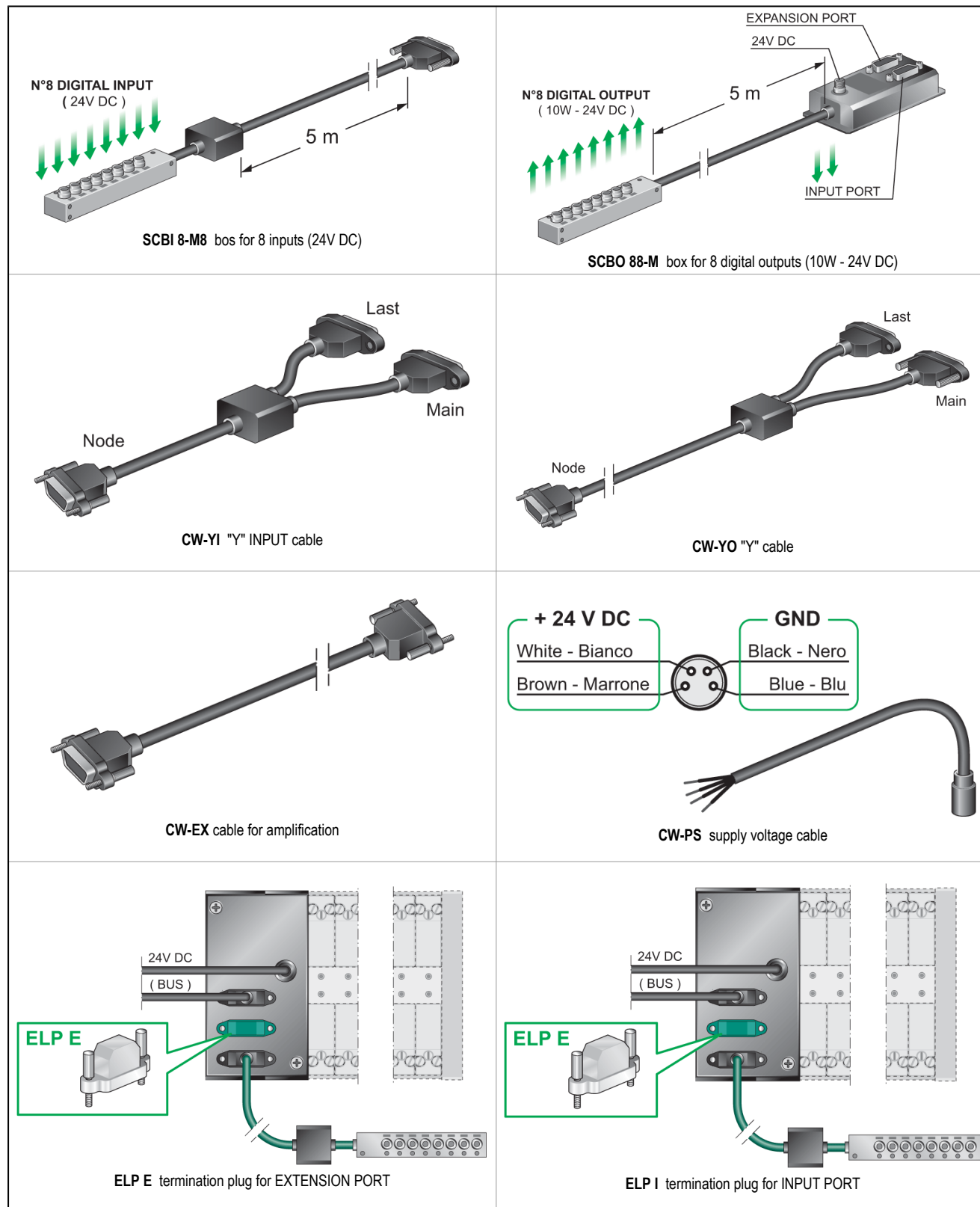
WPC- ... connection cable for 4HF multipole SUB D 25 and 37



connector configuration connection cable

connection	connection	connection	colour	connection	colour	connection	colour
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		

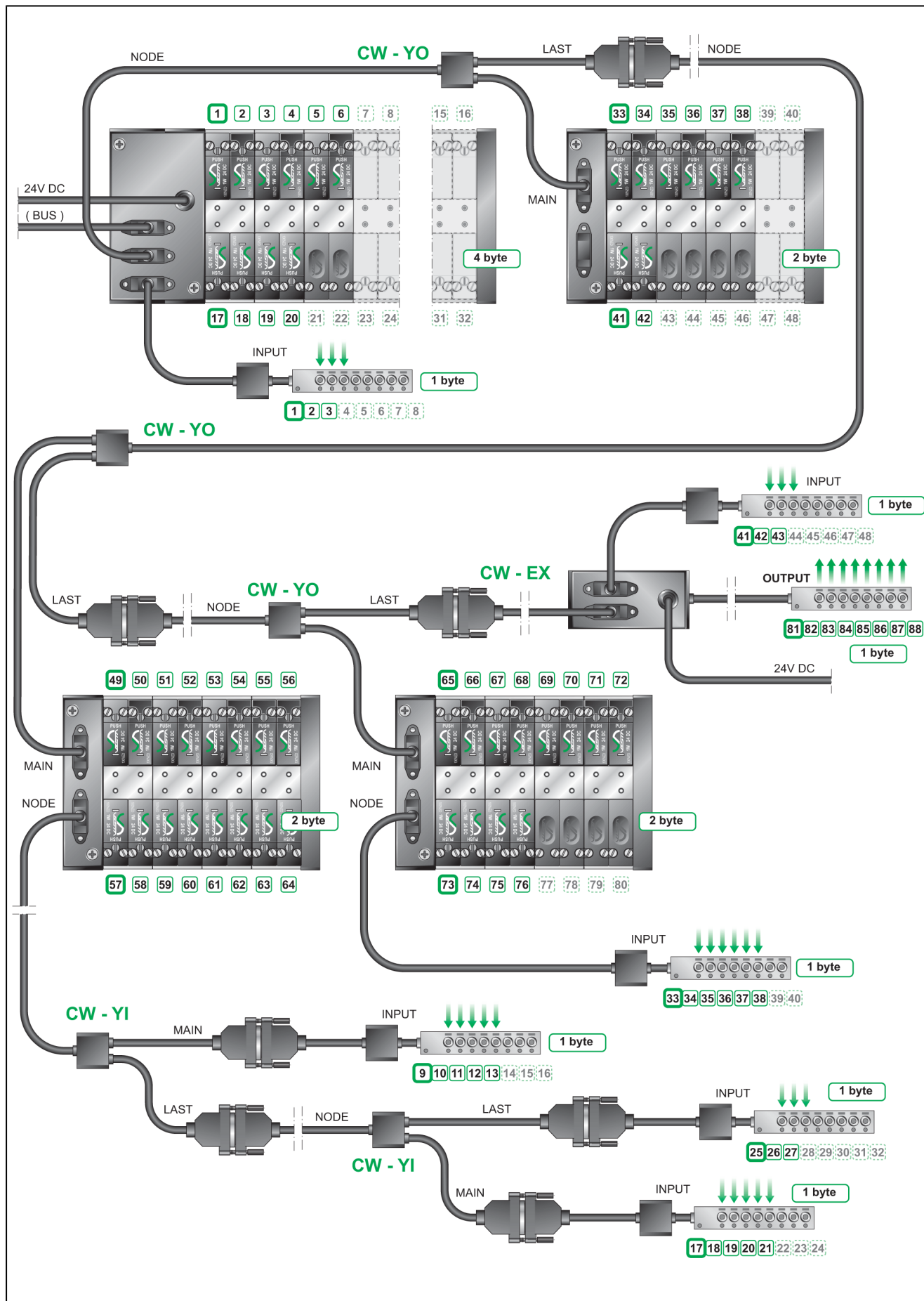
accessoires for valve unit system 4hf-NETLOGIC



switching time, max. frequency

actuation	switching time [ms]		max. frequency [Hz]
	charge	relieve	
electrical/electrical	12	12	35
electrical/spring	16	22	22

connection sample valve island system 4hf-NETLOGIC



illustrations are for information only and are non-binding
all designs, configurations, measurements and materials are subject to change without prior notice