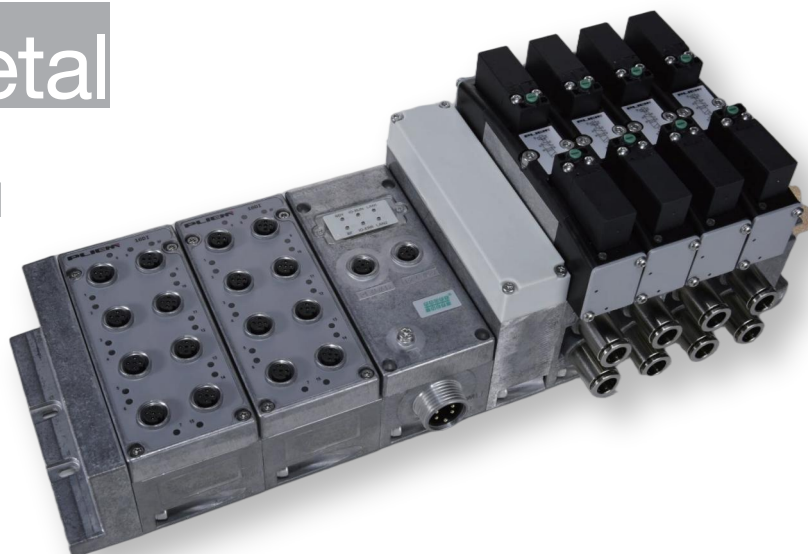


SVT **M** Metal

ISO Series Valve Island



► Key Feature

Reduce Downtime

On-site fault diagnosis is performed through LED indicator lights

Valveplate Width

18mm, 26 mm, 42mm, 52mm

A maximum of 32 electrical modules can be added

More than 9 electrical modules require auxiliary power supply

Reliable Operation

It has a manual button, which can be controlled in the debugging site

Strong Flexibility

Valve plate can be replaced quickly and repaired reliably
Supports up to 64 coils/32 double electrically controlled solenoid valves

Fast Installation

Direct installation or through H guide rail installation

Safety

Valve, output and logic can be turned off individually

Modularity

Standardized multi-pin plugs, fieldbus connectors and control modules

► Technical Parameter

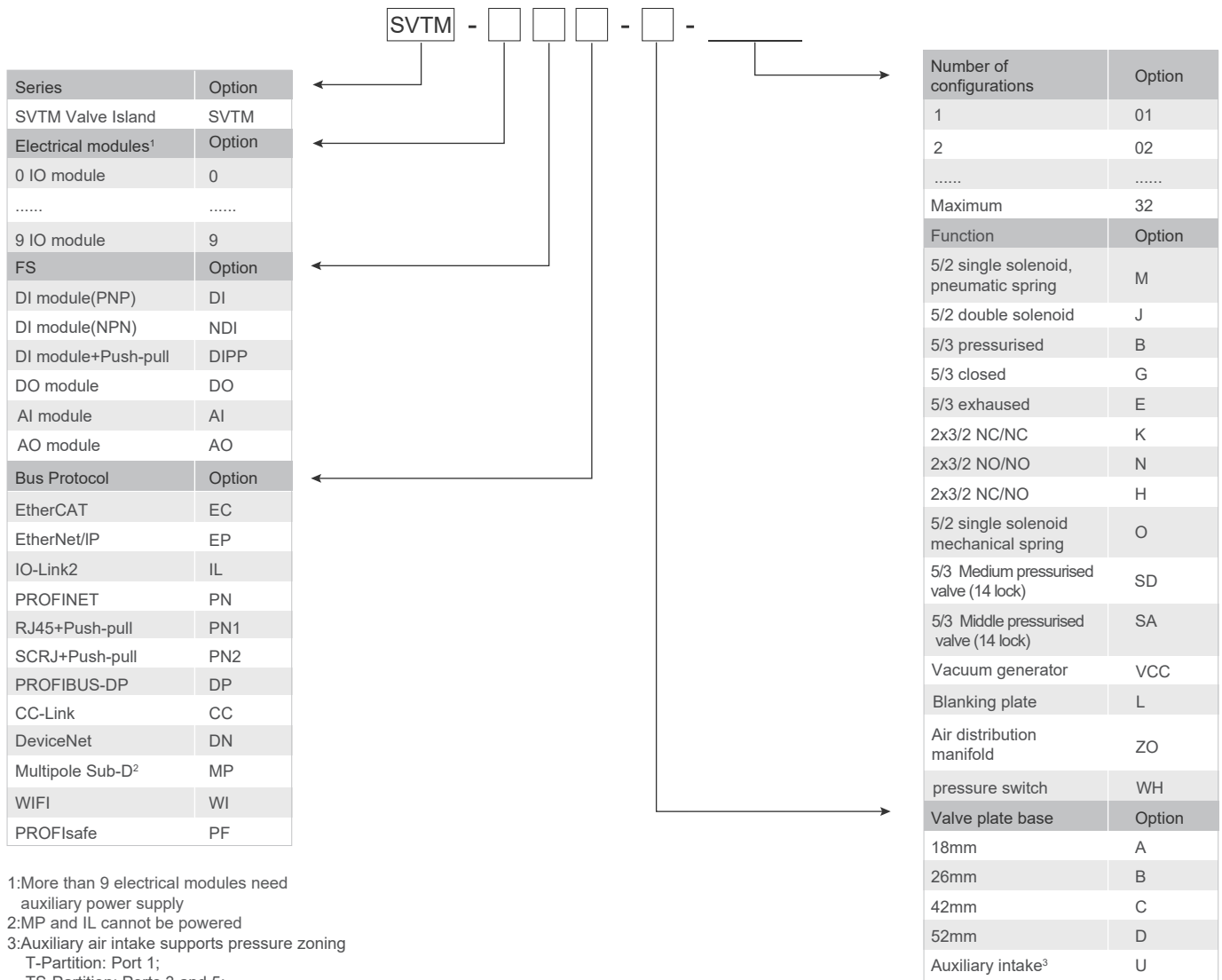
Medium	Compressed air, filtration class 40µm, lubricated or non-lubricated
Mounting	Base seat valve
Working Ports	G1/8"
	G1/4"
	G3/8"
	G1/2"

Working Temperature	-15 ~ +50°C(+5 ~ 122°F)
Material Quality	Body : aluminum +PBT
	Spool : aluminum
	Seal components : NBR
	Base plate: aluminum
Working Pressure	Maximum pressure 1 MPa

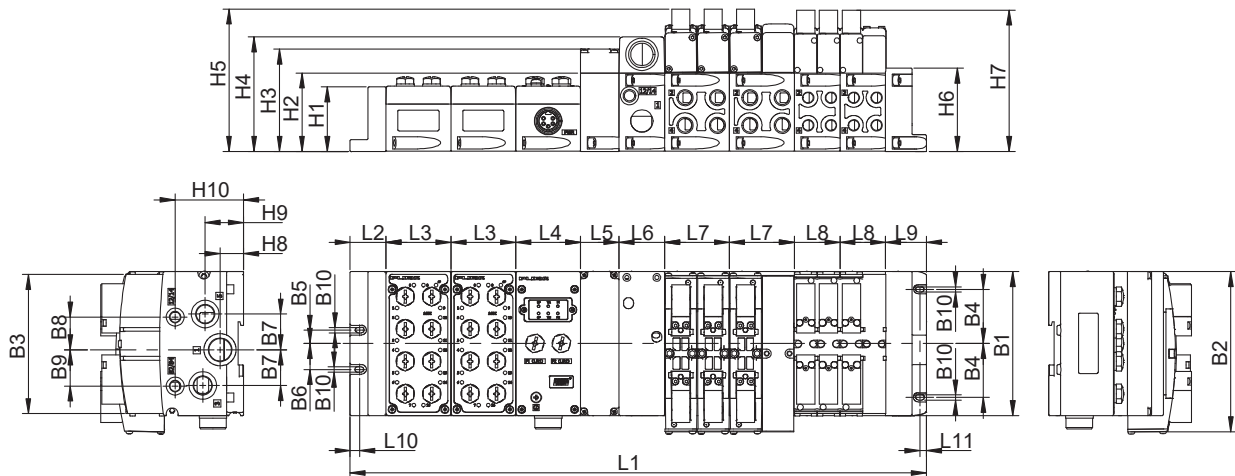
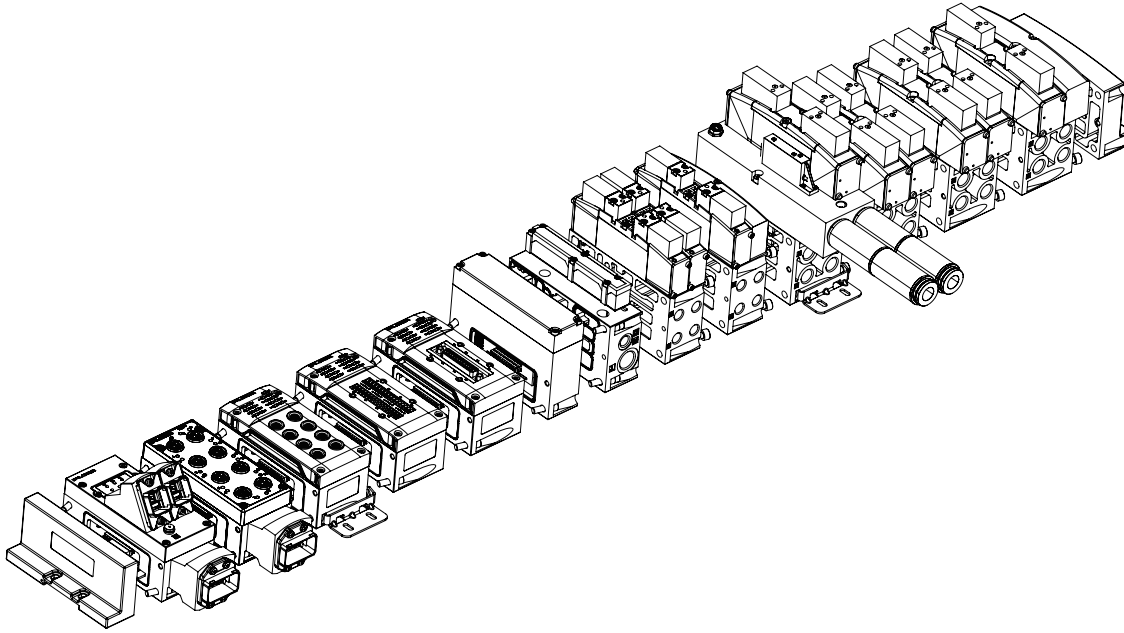
2x3/2 valve single solenoid	Normally open
	Normally close
	Permanently closed, reversible
	1x normally open, 1x normally closed
5 / 2 valves	Single electric control valve, pneumatic spring/mechanical spring
	Double solenoid
	Double solenoid with dominant signal
5/2-way valves for special functions single solenoid	Mechanical spring
	Switching position sensing via inductive sensors with PNP or NPN output

5/3-way s olenoid valve	Mid-position pressurised
	Mid-position closed
	Mid-position exhausted
5/3-way solenoid valve for special functions	Control 14 coil can stay in position
	For valve islands only
	Middle position deflation 1→2,4→5
	Pneumatic spring
Soft Start Valve	Higher levels of security
	Configurable sensor feedback signals
Vacuum Generator valve	Complies with ISO standard, with pressure monitoring and display function keep gas cut off, blow gas function

▶ Valve Island Configuration



► Datasheet-Valve Terminal



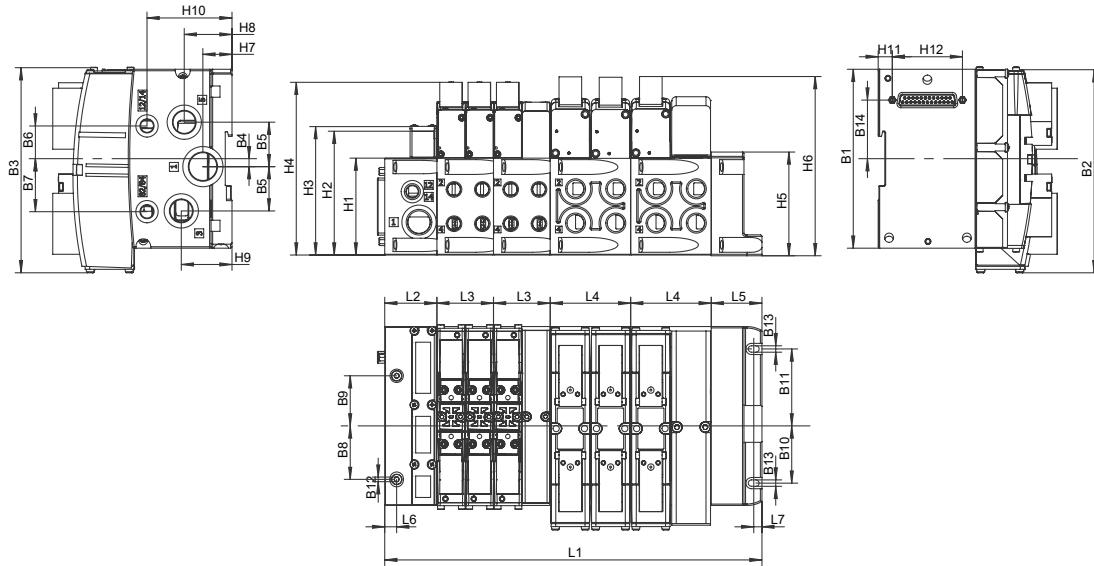
Unit	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10
[mm]	54	65.5	85.5	95.5	118	69.5	118	19.5	32	57

Unit	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
[mm]	120	134	116	45	11	22	30	27.5	30	4.3

Unit	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
[mm]	30	54	54	32	38	54	38	34	8	5.5

Valve Width	L1	
18mm	$30+n1*54+54+32+38+n2*38+34$	n1: Number of electrical modules n2: Number of 18mm bases n3: Number of 26mm bases n4: Number of 42mm bases n5: Number of 52mm bases
26mm	$30+n1*54+54+32+38+n3*54+34$	
42mm	$30+n1*54+54+32+38+n4*86+34$	
52mm	$30+n1*54+54+32+38+n5*106+34$	

► Datasheet-Valve Terminal of Multi-pin Valve Island



Unit	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
[mm]	120	136.2	137.5	5.3	29.8	22	35.5	35.9	33.6	38.4	51.6	3	4.3

Unit	L2	L3	L4	L5	L6	L7	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12
[mm]	35	38	54	34	8	5.5	65	83	86	115.9	69.6	120.2	19.5	32	34	57	9.5	47

Valve Width	L1	
18mm	30+n1*38+34	n1: Number of 18mm bases n2: Number of 26mm bases n3: Number of 42mm bases n4: Number of 52mm bases
26mm	30+n2*54+34	
42mm	30+n3*86+34	
52mm	30+n4*106+34	

Multi-pin Sub-D 25 connector

Cable distribution	No.	Coil	No.	Coil	No.	Coil	No.	Coil	No.	Coil
	1	1-a	6	6-a	11	11-a	16	3-b	21	8-b
	2	2-a	7	7-a	12	12-a	17	4-b	22	9-b
	3	3-a	8	8-a	13	Common	18	5-b	23	10-b
	4	4-a	9	9-a	14	1-b	19	6-b	24	11-b
	5	5-a	10	10-a	15	2-b	20	7-b	25	12-b

► Main Features-Pneumatic Components

5/2-Valve

Valve Plate Code	Airway Diagram	Valve width (mm)	l/min	Description
M		18	650	Single solenoid • Pneumatic spring return • Reverse operation • Work pressure -0.09 ~ +1 MPa
		26	1350	
		42	1860	
		52	2900	
O		18	650	Single solenoid • Mechanical spring return • Reverse operation • Work pressure -0.09 ~ +1 MPa
		26	1350	
		42	1860	
		52	2900	
J		18	650	Double solenoid • Reverse operation • Work pressure -0.09 ~ +1 MPa
		26	1350	
		42	1860	
		52	2900	

2x3/2-Valve

Valve Plate Code	Airway Diagram	Valve width (mm)	l/min	Description
K		18	550	Single solenoid • Normally closed • Pneumatic spring return • Work pressure -0.09 ~ +1 MPa
		26	1250	
		42	1560	
		52	2560	
N		18	550	Single solenoid • Normally open • Pneumatic spring return • Work pressure -0.09 ~ +1 MPa
		26	1250	
		42	1560	
		52	2560	
H		18	550	Single solenoid • Normally position -1x closed -2x open • Pneumatic spring return • Work pressure -0.09 ~ +1 MPa
		26	1250	
		42	1560	
		52	2560	

2x2/2-Valve

Valve Plate Code	Airway Diagram	Valve width (mm)	l/min	Description
VC		18	550	single electric control • normally open • Air repositioning • Work pressure -0.09 ~ +1 MPa
		26	1250	
		42	1560	
		52	2560	

5/3-Valve

Valve Plate Code	Airway Diagram	Valve width (mm)	l/min	Description
B		18	650	• Mid-position pressurised • Mechanical spring return • Reverse operation • Work pressure -0.09 ~ +1 MPa
		26	1350	
		42	1860	
		52	2900	
G		18	650	• Mid-position closed • Mechanical spring return • Reverse operation • Work pressure -0.09 ~ +1 MPa
		26	1350	
		42	1860	
		52	2900	
E		18	650	• Mid-position exhausted • Mechanical spring return • Reverse operation • Work pressure
		26	1350	
		42	1860	
		52	2900	

Valve Plate Configuration

Series	Option
V	V1/V2
S	S1/S2
Function	Option
2x3/2 normally closed	32 CC
2x3/2 normally open	32 OO
2x3/2 normally closed/open	32 CO
5/3 pressurised	53 MP
5/3 closed	53 MC
5/3 exhausted	53 ME
5/2 double solenoid	52 D
5/2 single solenoid, pneumatic spring	52 SM
5/2 single solenoid, mechanical spring	52 SP
5/3 Middle exhausted valve (14 lock)	53 ED
5/3 Middle presssurised valve (14 lock)	53 BD

VTMV

Valve Width	Option
18mm	A
26mm	B
42mm	C
52mm	D
Function	Option
2x3/2 normally closed	K
2 x 3/2 Always on	N
2x3/2 normally closed/open	H
5/3 Medium pressurised valve	B
5/3 closed valve	G
5/3 exhausted valve	E
5/2 double solenoid	J
5/2 single solenoid, mechanical spring	O
5/2 single solenoid, pneumatic spring	M
5/3 Middle exhausted valve (14 lock)	SA
5/3 Middle pressurised valve (14 lock)	SD
cover plate	L

oil Parameter

Coil Parameter

Working Voltage	24V DC±25%
Duty Cycle	100 %
Pilot Lamp	LED Green/Red
Surge Protection	Transient diode
Material Quality	PPS / FKM / NBR

※ Protection class:All SVTM series valve islands are IP65/ IP 67

► Order Information-VTMV

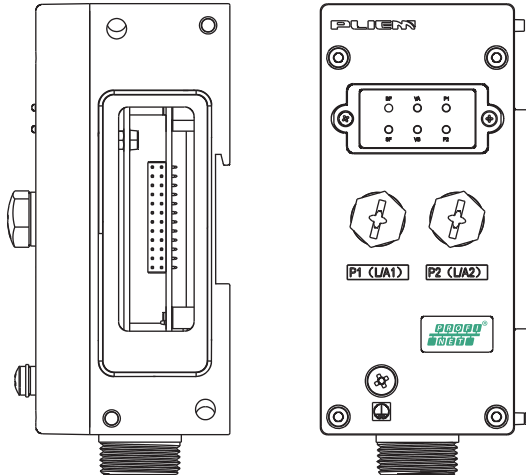
Valve plate code	Valve plate function description	Valve width (mm)	Number of order	Model
K	2x 3/2-way solenoid valve, single solenoid · Normally open	18	369301	VTMV - V1S1 - 3200 - A - K
N	2x 3/2-way solenoid valve, single solenoid · Normally closed	18	369302	VTMV - V1S1 - 32CC - A - N
H	2x 3/2-way solenoid valve, single solenoid · 1x normally open, 1x normally closed	18	369303	VTMV - V1S1 - 32OC - A - H
M	5/2-way solenoid valve, single solenoid · Pneumatic spring return	18	369304	VTMV - V1S1 - 52SP - A - M
O	5/2-way solenoid valve, single solenoid · Mechanical spring return	18	369305	VTMV - V1S1 - 52SM - A - O
J	5/2-way solenoid valve · Double solenoid	18	369306	VTMV - V1S1 - 52D - A - J
B	5/3-way solenoid valve · Mid-position pressurised	18	369307	VTMV - V1S1 - 53ML - A - B
G	5/3-way solenoid valve · Mid-position closed	18	369308	VTMV - V1S1 - 53MC - A - G
E	5/3-way solenoid valve · Mid-position exhausted	18	369309	VTMV - V1S1 - 53ME - A - E
SD	5/3-way solenoid valve, · Mid-position pressurised (14 lock)	18	36930701	VTMV - V1S1 - P53BD - A - SD
SA	5/3-way solenoid valve · Mid-position exhausted (14 lock)	18	36930901	VTMV - V1S1 - P53ED - A - SA
L	Blanking plate	18	369310	VTMV - V1S1 - A - L
K	2x two three-way valves, single electric control · Normally close	26	369321	VTMV - V1S1 - 3200 - B - K
N	2x two three-way valves, single electric control · Normally open	26	369322	VTMV - V1S1 - 32CC - B - N
H	2x two three-way valves, single electric control · 1x normally closed, 1x normally open	26	369323	VTMV - V1S1 - 320C - B - H
M	5/2-way solenoid valve, single solenoid · Pneumatic spring return	26	369324	VTMV - V1S1 - 52SP - B - M
O	5/2-way solenoid valve, single solenoid · Mechanical spring return	26	369325	VTMV - V1S1 - 52SM - B - O
J	5/2-way solenoid valve · Double solenoid	26	369326	VTMV - V1S1 - 52D - B - J
B	5/3-way solenoid valve · Mid-position pressurised	26	369327	VTMV - V1S1 - 53ML - B - B
G	5/3-way solenoid valve · Mid-position closed	26	369328	VTMV - V1S1 - 53MC - B - G
E	5/3-way solenoid valve · Mid-position exhausted	26	369329	VTMV - V1S1 - 53ME - B - E
SD	5/3-way solenoid valve, · Mid-position pressurised (14 lock)	26	36932701	VTMV - V1S1 - P53BD - B - SD
SA	5/3-way solenoid valve · Mid-position exhausted (14 lock)	26	36932901	VTMV - V1S1 - P53ED - B - SA
VCC	Vacuum generator	26	369601	VTMV - V2S2 - VV - B - VCC
L	Blanking plate	26	369370	VTMV - V1S1 - B - L

Valve plate code	Valve plate function description	Valve width (mm)	Number of order	Model
K	2x 3/2-way solenoid valve,single solenoid ·Normally open	42	369341	VTMV-V1S1-32CC-C-K
N	2x 3/2-way solenoid valve ,single solenoid ·Normally closed	42	369342	VTMV-V1S1-3200-C-N
H	2x 3/2-way solenoid valve ,single solenoid -1x normally open, -1x normally closed	42	369343	VTMV-V1S1-320C-C-H
M	5/2-way solenoid valve,single solenoid ·Pneumatic spring return	42	369344	VTMV-V1S1-52SP-C-M
O	5/2-way solenoid valve,single solenoid ·Mechanical spring return	42	369345	VTMV-V1S1-52SM-C-0
J	5/2-way solenoid valve ·Double solenoid	42	369346	VTMV-V1S1-52D-C-J
B	5/3-way solenoid valve ·Mid-position pressurised	42	369347	VTMV-V1S1-53ML-C-B
G	5/3-way solenoid valve ·Mid-position closed	42	369348	VTMV-V1S1-53MC-C-G
E	5/3-way solenoid valve ·Mid-position exhausted	42	369349	VTMV-V1SI-53ME-C-E
L	Blanking plate	42	369350	VTMV-V1S1-C-L
K	2x 3/2-way solenoid valve,single solenoid ·Normally open	52	369361	VTMV-V1S1-32CC-D-K
N	2x 3/2-way solenoid valve ,single solenoid ·Normally closed	52	369362	VTMV-V1S1-3200-D-N
H	2x 3/2-way solenoid valve ,single solenoid -1x normally open, -1x normally closed	52	369363	VTMV-V1S1-320C-D-H
M	5/2-way solenoid valve,single solenoid ·Pneumatic spring return	52	369364	VTMV-V1S1-52SP-D-M
O	5/2-way solenoid valve,single solenoid ·Mechanical spring return	52	369365	VTMV-V1S1-52SM-D-0
J	5/2-way solenoid valve ·Double solenoid	52	369366	VTMV-V1S1-52D-D-J
B	5/3-way solenoid valve ·Mid-position pressurised	52	369367	VTMV-V1S1-53ML-D-B
G	5/3-way solenoid valve ·Mid-position closed	52	369368	VTMV-V1S1-53MC-D-G
E	5/3-way solenoid valve ·Mid-position exhausted	52	369369	VTMV-V1SI-53ME-D-E
L	Blanking plate	52	369370	VTMV-V1S1-D-L

► Main Features-Electrical Module

Communication module:PROFINET IRT

Connector:2xM12 4-pin / 1 x7/8" 5-pin



Communication connector:M12 4-PIN D-coded

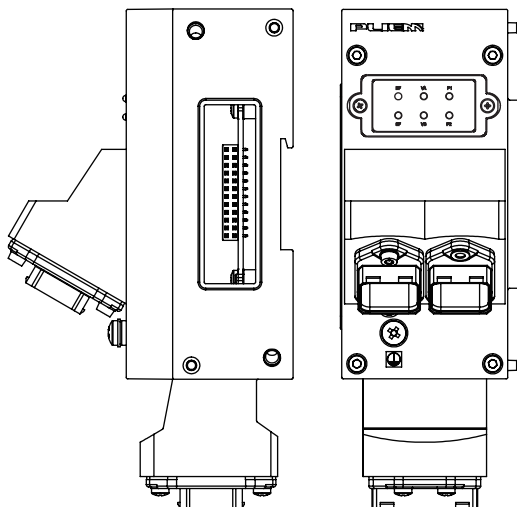
Cable distribution	NO.	Signal
	1	Transmission data+ (TD+)
	2	Receiving data+ (RD+)
	3	Transmission data- (TD-)
	4	Receiving data- (RD-)

Power connector:7/8"-M 5-PIN

Cable distribution	NO.	Function
	1	0 V DC power voltage, for valve and output
	2	0 V DC power supply voltage for electronic components and sensors
	3	FE
	4	24 V DC load power supply voltage, for electronic components and sensors
	5	24 V DC load power supply voltage, for valve and output

Communication module:RJ45 Push-pull

Connector:1xRJ45 / 1xPush-pull 5-PIN



Communication connector:RJ45

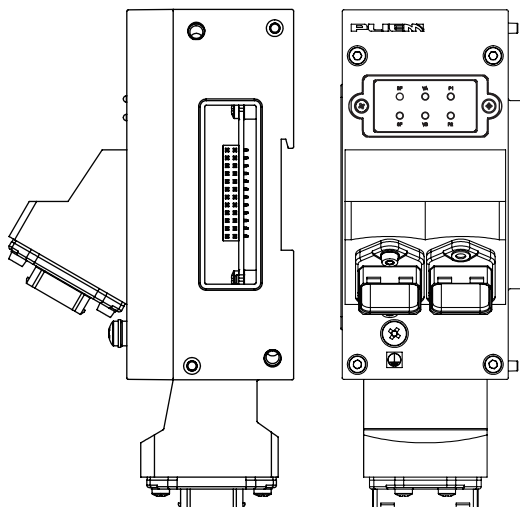
Cable distribution	NO.	Signal
	1	Transmission data+ (TD+)
	2	Transmission data- (TD-)
	3	Receiving data+ (RD+)
	4	-
	5	-
	6	Receiving data- (RD-)
	7	-
	8	-

Power connector:Push-pull 5-PIN

Cable distribution	NO.	Function
	1	24 V DC load power supply voltage, for electronic components and sensors
	2	0 V DC power supply voltage for electronic components and sensors
	3	24 V DC load power supply voltage, for valve and output
	4	0 V DC power voltage, for valve and output
	5	FE

Communication module:SCRJ Push-pull

Connector:1xSCRJ45 / 1xPush-pull 5-PIN



Communication connector:SCRJ

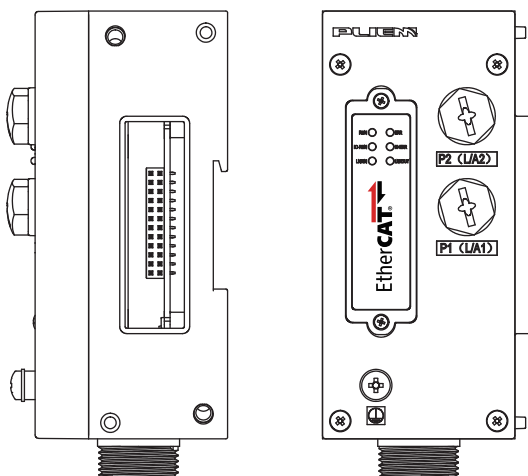
Cable distribution	NO.	Signal
	1	TX
	2	RX

Power connector:Push-pull 5-PIN

Cable distribution	NO.	Function
	1	24 V DC load power supply voltage, for electronic components and sensors
	2	0 V DC power supply voltage for electronic components and sensors
	3	24 V DC load power supply voltage, for valve and output
	4	0V DC power voltage, for valve and output
	5	FE

Communication module:EtherCAT

Connector:2xM12 4-pin / 1 x7/8" 5-pin



Communication connector:M12 4-PIN D-coded

Cable distribution	NO.	Signal
	1	Transmission data+ (TD+)
	2	Receiving data+ (RD+)
	3	Transmission data- (TD-)
	4	Receiving data- (RD-)

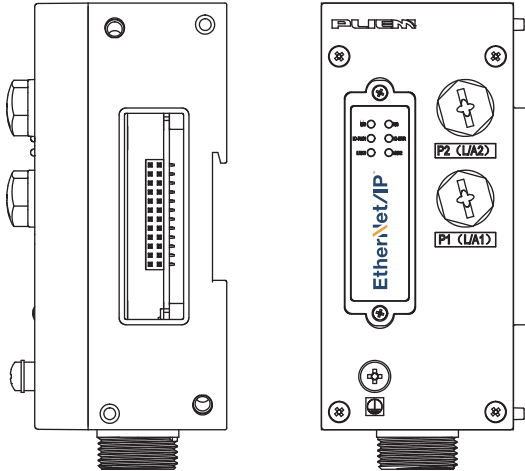
Power connector:7/8"-M 5-PIN

Cable distribution	NO.	Function
	1	0 V DC power voltage, for valve and output
	2	0 V DC power supply voltage for electronic components and sensors
	3	FE
	4	24 V DC load power supply voltage, for electronic components and sensors
	5	24 V DC load power supply voltage, for valve and output

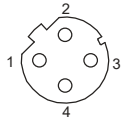
Communication module:EtherNet/IP

Connector:2xM12 4-pin / 1 x7/8" 5-pin

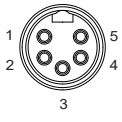
EtherNet/IP™



Communication connector:M12 4-PIN D-coded

Cable distribution	NO.	Signal
	1	Transmission data+ (TD+)
	2	Receiving data+ (RD+)
	3	Transmission data- (TD-)
	4	Receiving data- (RD-)

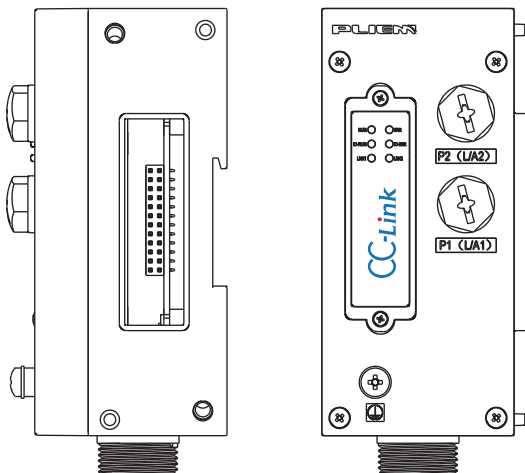
Power connector:7/8"-M 5-PIN

Cable distribution	NO.	Function
	1	0 V DC power voltage, for valve and output
	2	0 V DC power supply voltage for electronic components and sensors
	3	FE
	4	24 V DC load power supply voltage, for electronic components and sensors
	5	24 V DC load power supply voltage, for valve and output

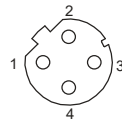
Communication module:CC-Link

Connector:2xM12 4-pin / 1 x7/8" 5-pin

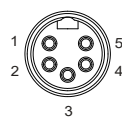
CC-Link



Communication connector:M12 4-PIN D-coded

Cable distribution	NO.	Signal
	1	Transmission data+ (TD+)
	2	Receiving data+ (RD+)
	3	Transmission data- (TD-)
	4	Receiving data- (RD-)

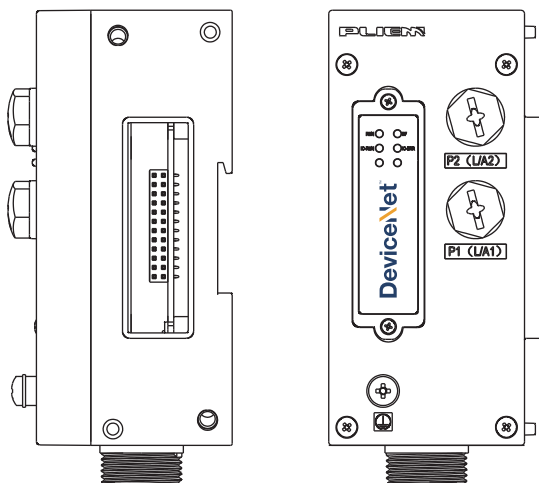
Power connector:7/8"-M 5-PIN

Cable distribution	NO.	Function
	1	0 V DC power voltage, for valve and output
	2	0 V DC power supply voltage for electronic components and sensors
	3	FE
	4	24 V DC load power supply voltage, for electronic components and sensors
	5	24 V DC load power supply voltage, for valve and output

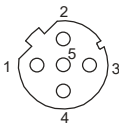
Communication module:DeviceNet

Connector:2xM12 5-pin / 1 x7/8" 5-pin

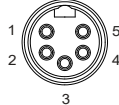
DeviceNet



Communication connector:M12 5-PIN D-coded

Cable distribution	NO.	Signal
	1	Drain Shielding
	2	V+
	3	V-
	4	CAN-H
	5	CAN-L

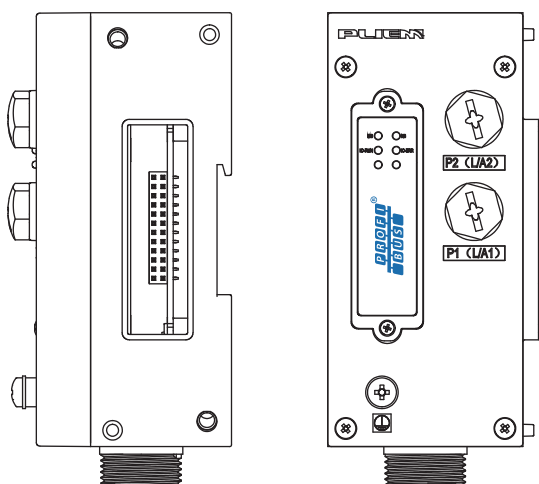
Power connector:7/8"-M 5-PIN

Cable distribution	NO.	Function
	1	0 V DC power voltage, for valve and output
	2	0 V DC power supply voltage for electronic components and sensors
	3	FE
	4	24 V DC load power supply voltage, for electronic components and sensors
	5	24 V DC load power supply voltage, for valve and output

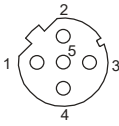
Communication module:PROFIBUS-DP

Connector:2xM12 5-pin / 1 x7/8" 5-pin

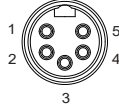
PROFIBUS



Communication connector:M12 5-PIN D-coded

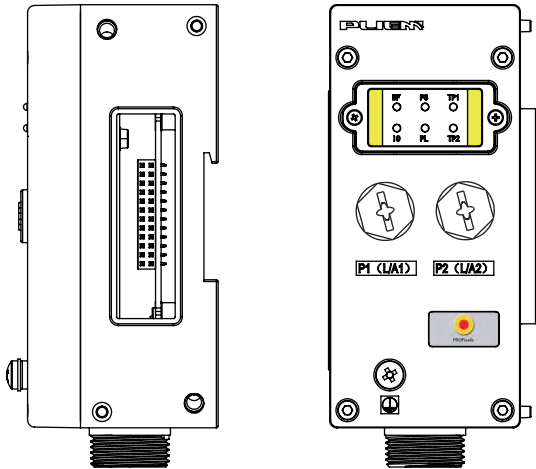
Cable distribution	NO.	Signal
	1	+5V
	2	DP-B
	3	RTS
	4	DP-A
	5	GND

Power connector:7/8"-M 5-PIN

Cable distribution	NO.	Function
	1	0 V DC power voltage, for valve and output
	2	0 V DC power supply voltage for electronic components and sensors
	3	FE
	4	24 V DC load power supply voltage, for electronic components and sensors
	5	24 V DC load power supply voltage, for valve and output

Communication module:PROFIsafe

Connector:2xM12 4-pin / 1 x7/8" 5-pin



Communication connector:M12 4-PIN D-coded

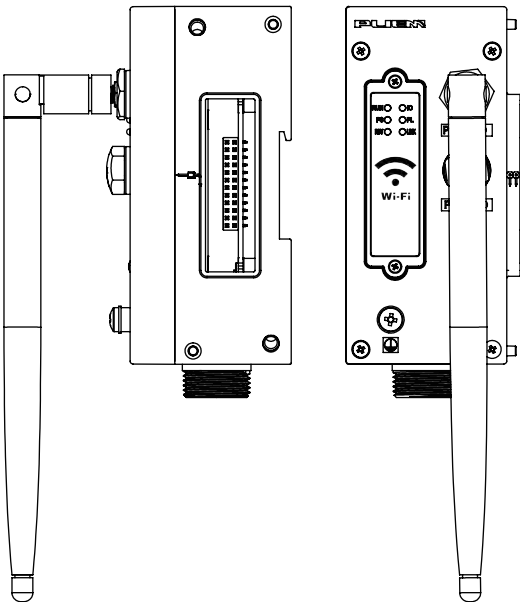
Cable distribution	NO.	Signal
	1	Transmission data+ (TD+)
	2	Receiving data+ (RD+)
	3	Transmission data- (TD-)
	4	Receiving data- (RD-)

Power connector:7/8"-M 5-PIN

Cable distribution	NO.	Function
	1	0 V DC power voltage, for valve and output
	2	0 V DC power supply voltage for electronic components and sensors
	3	FE
	4	24 V DC load power supply voltage, for electronic components and sensors
	5	24 V DC load power supply voltage, for valve and output

Communication module:WIFI

onconnector:1 x7/8" 5-pin



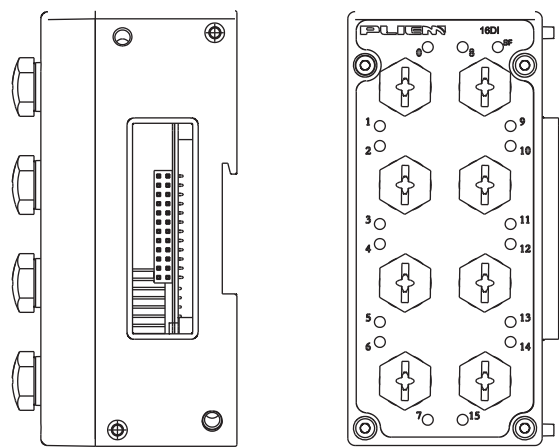
Power connector:7/8"-M 5-PIN

Cable distribution	NO.	Function
	1	0 V DC power voltage, for valve and output
	2	0 V DC power supply voltage for electronic components and sensors
	3	FE
	4	24 V DC load power supply voltage, for electronic components and sensors
	5	24 V DC load power supply voltage, for valve and output

Digital input module-16DI

Signal type	Number of input signals	Attended mode
PNP	Two signals per channel, 8 channels	8 x M12 5-pin

※ For industrial Ethernet component parts and assembly instructions, please consult our technical services



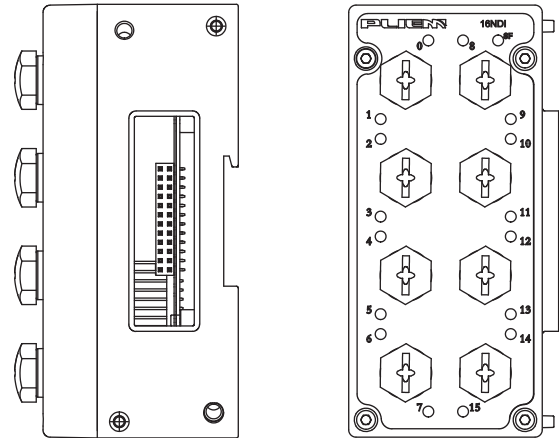
Input Module

Cable distribution	No.	Signal
	1	24V power supply
	2	Digital input 2
	3	0V supply
	4	Digital input 1
	5	FE

Digital input module-16NDI

Signal type	Number of input signals	Attended mode
NPN	Two signals per channel, 8 channels	8 x M12 5-pin

※ For industrial Ethernet component parts and assembly instructions, please consult our technical services



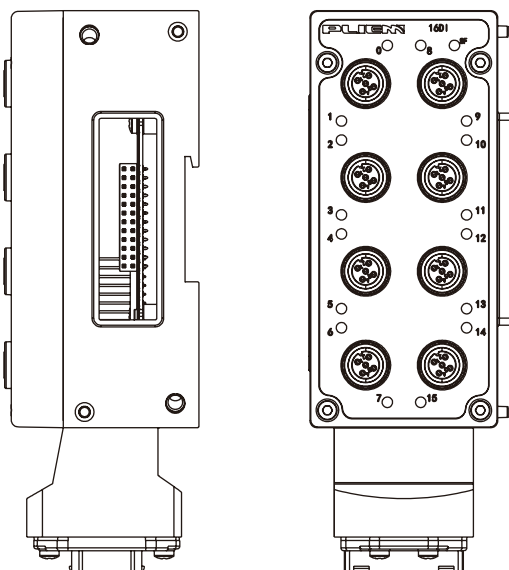
Input Module

Cable distribution	No.	Signal
	1	24V power supply
	2	Digital input 2
	3	0V supply
	4	Digital input 1
	5	FE

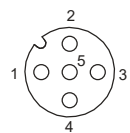
Digital input module -16DIPP

Signal type	Number of input signals	Attended mode
PNP	Two signals per channel, 8 channels	8xM12-5pin

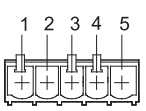
※ For industrial Ethernet component parts and assembly instructions, please consult our technical services



Input Module

Cable distribution	No.	Signal
	1	24V power supply
	2	Digital input 2
	3	0V supply
	4	Digital input 1
	5	FE

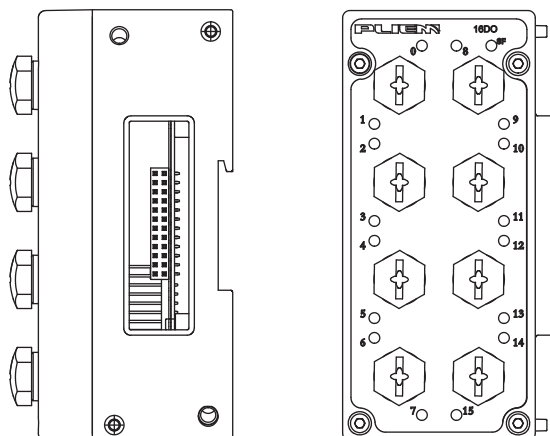
Power connector:Push-pull 5-PIN

Cable distribution	NO.	Function
	1	24 V DC load power supply voltage, for electronic components and sensors
	2	0 V DC power supply voltage for electronic components and sensors
	3	24 V DC load power supply voltage, for valve and output
	4	0 V DC power voltage, for valve and output
	5	FE

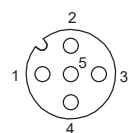
Digital output module -16DO

Signal type	Number of output signals	Attended mode
PNP	Two signals per channel, 8 channels	8 x M12 5-pin

※ For industrial Ethernet component parts and assembly instructions, please consult our technical services



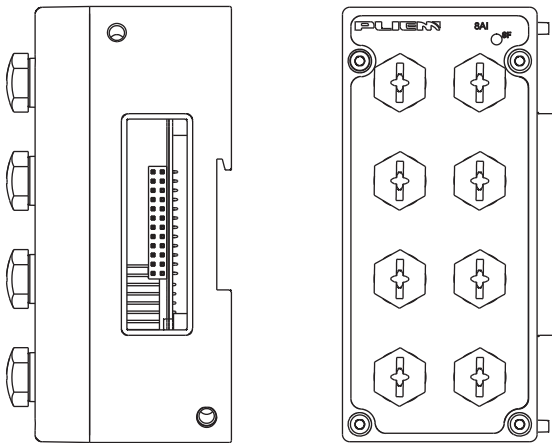
Output Module

Cable distribution	No.	Signal
	1	-
	2	Digital output 2
	3	0V supply
	4	Digital output 1
	5	FE

Analog input module -8AI

Signal type	Number of input signals	Attended mode
AI module	8 channels	8x M12-5pin

※ For industrial Ethernet component parts and assembly instructions, please consult our technical services



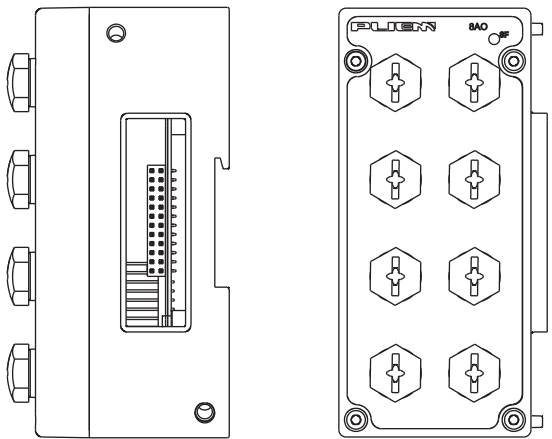
Input Module

Cable distribution	No.	Signal
	1	24V power supply
	2	Uin
	3	0V supply
	4	Iin
	5	FE

Analog output module -8AO

Signal type	Number of output signals	Attended mode
AO module	8 channels	8x M12-5pin

※ For industrial Ethernet component parts and assembly instructions, please consult our technical services

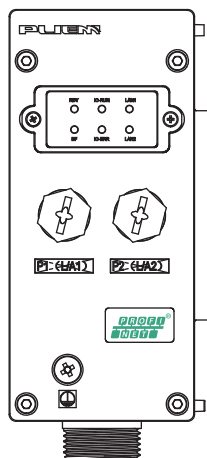


Output Module

Cable distribution	No.	Signal
	1	24V power supply
	2	Uout
	3	0V supply
	4	Iout
	5	FE

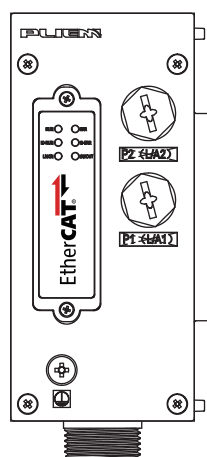
► MAIN CHARACTERISTICS—ELECT- RICAL SPECIFICATIONS

Communication module: PROFINET IRT



Model		SVTM-PN (7/8 interface)	SVTM-PN1 (Push-pull and RJ45 interface)	SVTM-PN2(fiber)
Communication specification	Protocol Name	PROFINETIO		PROFINETIO
	Signaling speed	100Mbps		
	Configuration file	GSDMLdocument		
	Fast Start Up (communication connection time)	•		•
	MRPcorresponding	•		•
	System Redundancy S2	•		•
Internal consumption current (control and input power)		Below 120mA		
Output for communication errors		HOLD/CLEAR ON		
Defensive function		Built-in short circuit protection circuit		
Levels of protection		IP67 (when connected to the bus valve island)		
Standard		CE/UL		
Weight		390g		
Power supply		24V DC		

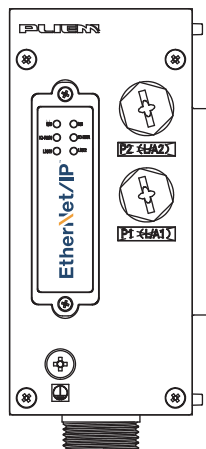
Communication module: EtherCAT



Model		EtherCAT bus
Communication specification	Protocol Name	EtherCAT
	Signaling speed	100Mbps
	Configuration file	XMLdocument
Internal consumption current (control and input power)		Below 120mA
Power supply		24V DC
Defensive function		Built-in short circuit protection circuit
Levels of protection		IP67 (when connected to the bus valve island)
Standard		CE/UL
Weight		390g

Communication module:EtherNet/IP

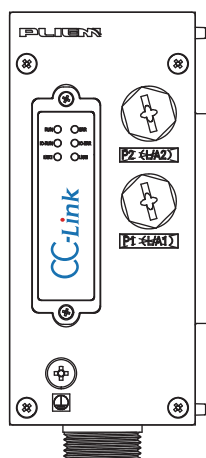
EtherNet/IP™



Model		EtherNet/IP bus
Communication specification	Protocol Name	EtherNet/IPTM
	Signaling speed	10/100Mbps
	Communication mode	Full duplex half duplex
	Configuration file	EDSdocument
	IP address range	Set through the SI unit switch Through DHCP server: any address
	QuickConnect	•
Internal consumption current (control and input power)		Below 120mA
Power supply		24V DC
Output for communication errors		HOLD/CLEAR ON
Defensive function		Built-in short circuit protection circuit
Levels of protection		IP67 (when connected to the bus valve island)
Standard		CE/UL
Weight		300g

Communication module:CC-Link

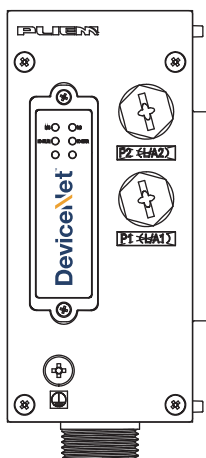
CC-Link



Model		CC-Link bus
Communication specification	Protocol Name	CC-Link IE FieldBasic(Ver.1.10,Ver.2.00)
	Station type	Remote station
	Signaling speed	100Mbps
	Configuration file	CSP+ file note
	Occupied domain (input points/output points)	1/2/3/4/5/6 stations
Internal consumption current (control and input power)		Below 75mA
Power supply		24V DC,2A
Output for communication errors		HOLD/CLEAR ON
Levels of protection		IP67 (when connected to the bus valve island)
Standard		CE/UL
Weight		400g

Communication module:DeviceNet

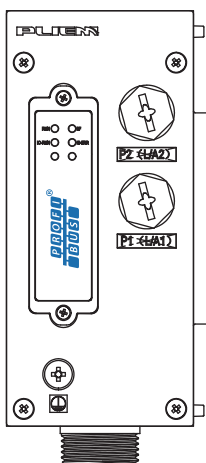
DeviceNet



Model		DeviceNet bus
Communication specification	Protocol Name	DeviceNet
	Signaling speed	125/250/500Kbps
	Configuration file	EDS document
	Occupied domain (input points/output points)	Max(200Bytes/200Bytes)
DeviceNet power supply		DC11~25V (current consumption below 50mA)
Internal consumption current (control and input power)		Below 55mA
Power supply		24V DC,2A
Output for communication errors		HOLD/CLEAR/Force ON
Defensive function		Built-in short circuit protection circuit
Levels of protection		IP67 (when connected to the bus valve island)
Standard		CE/UL
Weight		390g

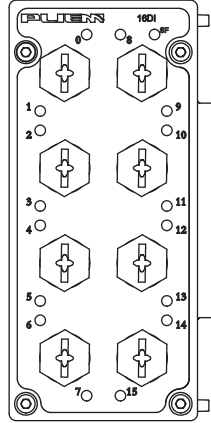
Communication module:PROFIBUS-DP

PROFIBUS



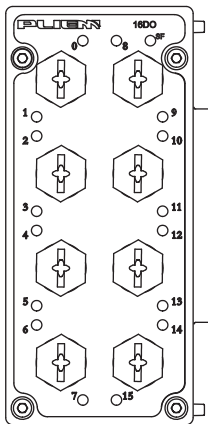
Model		PROFIBUS DP bus
Communication specification	Protocol Name	PROFIBUSDP(DP-VO)
	Device type	PROFIBUS DP slave
	Signaling speed	9.6/19.2/45.45/93.75/187.5/500kbps 1.5/3/6/12Mbps
	Configuration file	GSD document
	Occupied domain (input points/output points)	Max(244Bytes/244Bytes)
Internal consumption current (control and input power)		Below 80mA
Power supply		24V DC
Output for communication errors		HOLD/CLEAR/Force ON
Defensive function		Built-in short circuit protection circuit
Levels of protection		IP67 (when connected to the bus valve island)
Standard		CE/UL
Weight		390g

Digital Input Module -16DI



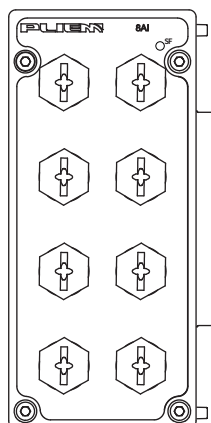
Model		16DI-M12		16DI-M8		16DI-MJ	
Input specification	Input format	PNP	NPN	PNP	NPN	PNP	NPN
	Input connector	M12 (5-pin) socket		M8 (3-pin) socket		Spring terminal block (32 pin)	
	Input points	16points(2points/connector)		16points(2points/connector)		16 points (2 points × 8 blocks)	
	Supply voltage	DC24V					
	Maximum supply current	0.5A /per connector 1.5A/ cell		0.5A /per connector 1.5A/ cell		0.5A/ block 1.5A/ unit	
	Defensive function	Built-in short circuit protection circuit					
	Input current (DC24V)	Below 9mA					/
	Applicable wire	/		/		0.08~1.5mm ² (AWG16~28)	
Consumption current		Below 50mA		Below 55mA			
Levels of protection		IP67 (when connected to the bus valve island)				IP40 (when connected to the bus valve island)	
Standard		CE/UL					
Weight		390g		385g		380g	

Digital Output Module -16DO



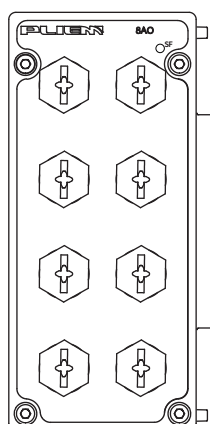
Model		16DO-M12		16DO-D-sub		16DO-MJ	
Output specification	Output format	PNP	NPN	PNP	NPN	PNP	NPN
	Output connector	M12 (5-pin) socket		D-sub (25 pins) socket locking screw: No.4-40		Spring terminal block (32 pins)	
	Output points	16points(2points/connector)		16points		16 points (2 points × 8 blocks)	
	Maximum load current	0.3A per point 1.8A per unit					
	Defensive function	Built-in short circuit protection circuit					
Applicable wire		-		-		0.08~1.5mm ² (AWG16~28)	
Consumption current		Below 50mA					
Levels of protection		IP67 Bus valve island connection		IP40 Bus valve island connection			
Standard		CE/UL					
Weight		390g					

Analog Input Module-8AI



Model		8AI	
Input specification	Input format	Voltage	Current
	Input connector	M12 (5-pin) socket	
	Input channel count	2 channels (1 channel per connector)	
	Supply voltage	24V DC	
	Maximum supply current	Total current: 1.8A (maximum 0.5A per connector)	
	Defensive function	Built-in short circuit protection circuit	
	Input signal range	14-bit resolution	-10V ~ +10V
	Maximum rated input signal	± 15V	-20mA ~ 20mA
	Input impedance	100kΩ	50Ω
Consumption current		Below 70mA	
Levels of protection		IP67 (when connected to the bus valve island)	
Standard		CE/UL	
Weight		390g	

Analog Output Module -8AO



Model		8AO	
Output specification	Output format	Voltage	Current
	Output connector	M12 (5-pin) socket	
	Output channel count	2 channels (1 channel per connector)	
	Supply voltage	24V DC	
	Maximum supply current	Total current: 1.8A (maximum 0.5A per connector)	
	Defensive function	Built-in short circuit protection circuit	
	Output signal range	12-bit resolution	0~10V
	Load impedance	Above1kΩ	0~20mA
Levels of protection		IP67 (when connected to the bus valve island)	
Standard		CE/UL	
Weight		390g	

► Order Data-Electrical Module

Order data-SVTM	Description	Number of order
	PROFINET M12*2	168201 VTX-V2S2-PN-M
	EtherNet/IP M12*2	168202 VTX-V2S2-EP-M
	EtherCAT M12*2	168203 VTX-V2S2-EC-M
	IO-Link	168204 VTX-V2S2-OL-M
	Multipole Sub-D	168205 VTX-V2S2-MP-M
	CC-Link	168206 VTX-V2S2-CC-M
	PROFIBUS-DP	168207 VTX-V2S2-DP-M
	DeviceNet	168208 VTX-V2S2-DN-M
	PROFINET RJ45+Push-pull	168211 VTX-V2S2-RJ45-M
	PROFINET SCRJ+Push-pull	168212 VTX-V2S2-SCRJ-M
	DI 16 module M12*8	530101 VTI-V2S2-D-M
	DIPP 16 module M12*8	530202 VTI-V2S2-D-M-PP
	DO 16 module M12*8	540101 VTO-V2S2-D-M
	NDI 16 module M12*8	550101 VTNI-V2S2-D-M
	DOH 8 module M12*8	540202 VTOH-V2S2-D-M
	AI 8 module M12*8	560101 VTAI-V2S2-D-M
	AO 8 module M12*8	570101 VTAO-V2S2-D-M

► Valve Plate Accessories

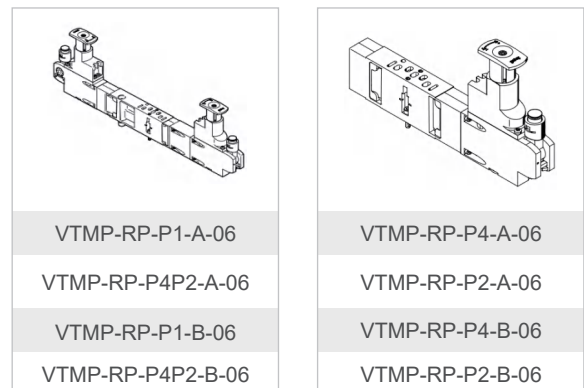
Blanking plate



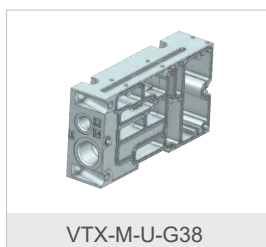
Control plate intermediate



Pressure regulating plate



Auxiliary intake



Pressure Switch



VCC Vacuum Module



► Electrical Accessories

Power Connector

			
Model		Model	
VTCB-7/8-F05T-0050		7/8-F05T	
Order number	720202	Order number	720203

Industrial Ethernet cable

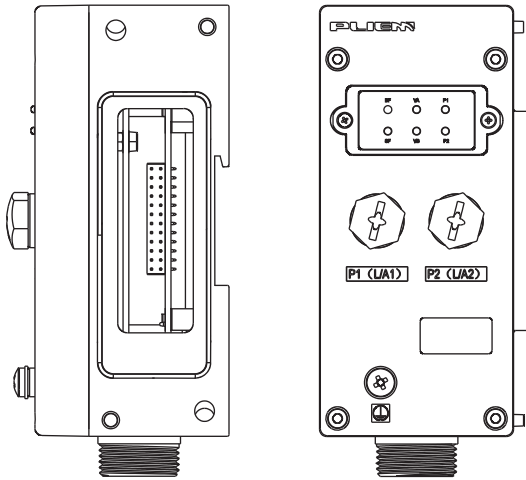
			
Model	Model	Model	Model
VTCB-D-D4P-12M-12M-0050	VTCB-D-D4P-12M-OP-0050	VTCB-D-D4P-12M-RJ-0050	VTCB-RJ-RJ-0050
Order number	720210	Order number	720214
	Order number	720260	

IO Connection Cable and Connector

				
Model	Model	Model	Model	Model
VTCB-A-A4P-12M-12F-0050	VTCB-A-A4P-12DF-OP-0050	VTCB-A-A4P-12DM-OP-0050	M12-M05T	M12-F05T
Order number	720219	Order number	720224	Order number
	720221	720223		720225

		
Model	Model	Model
VTAB-PUSH-PULL-PP	VTAB-SCRJ-PP	VTCB-D-SUB25F-0050
Order number	720262	Order number
	720263	720229

► Special Power Connection Instructions



Power connector:M18 4-PIN

Cable distribution	No.	Function
	1	FE
	2	0V
	3	24 V DC load power supply voltage, for valve and output
	4	24 V DC load power supply voltage, for electronic components and sensors

Power connector:7/8"-M 4-PIN

Cable distribution	No.	Function
	A	0V
	B	FE
	C	24 V DC load power supply voltage, for valve and output
	D	24 V DC load power supply voltage, for electronic components and sensors

Warn

This product is only suitable for industrial compressed air systems. Do not use these products if the pressure and temperature exceed the values listed in the "Technical parameters".

In non-industrial applications, life support systems or other applications not specified in the technical specifications, if a fluid other than specified is to be used, consult Pliem in advance.

In fluid power systems, components may fail through misuse, aging, or malfunction in various ways. System designers must consider failure modes of all components used in these systems and provide adequate protection against personal injury or equipment damage when such failures occur. If sufficient protective measures are not available, system designers must include clear warnings for end-users in the systems user manual. Both system designers and end-users should carefully review the special warnings provided in the product documentation.