

Valve island with quick-connect fittings IM11 – Ø 4, 6, 8 mm

ORIGA – simply the first


HOERBIGER
because performance counts



IM11 – the modular valve island

The high-performance valve islands IM 11 are the ideal solution for all applications. The modular construction makes it possible to use very different types of valves with different nominal diameters.

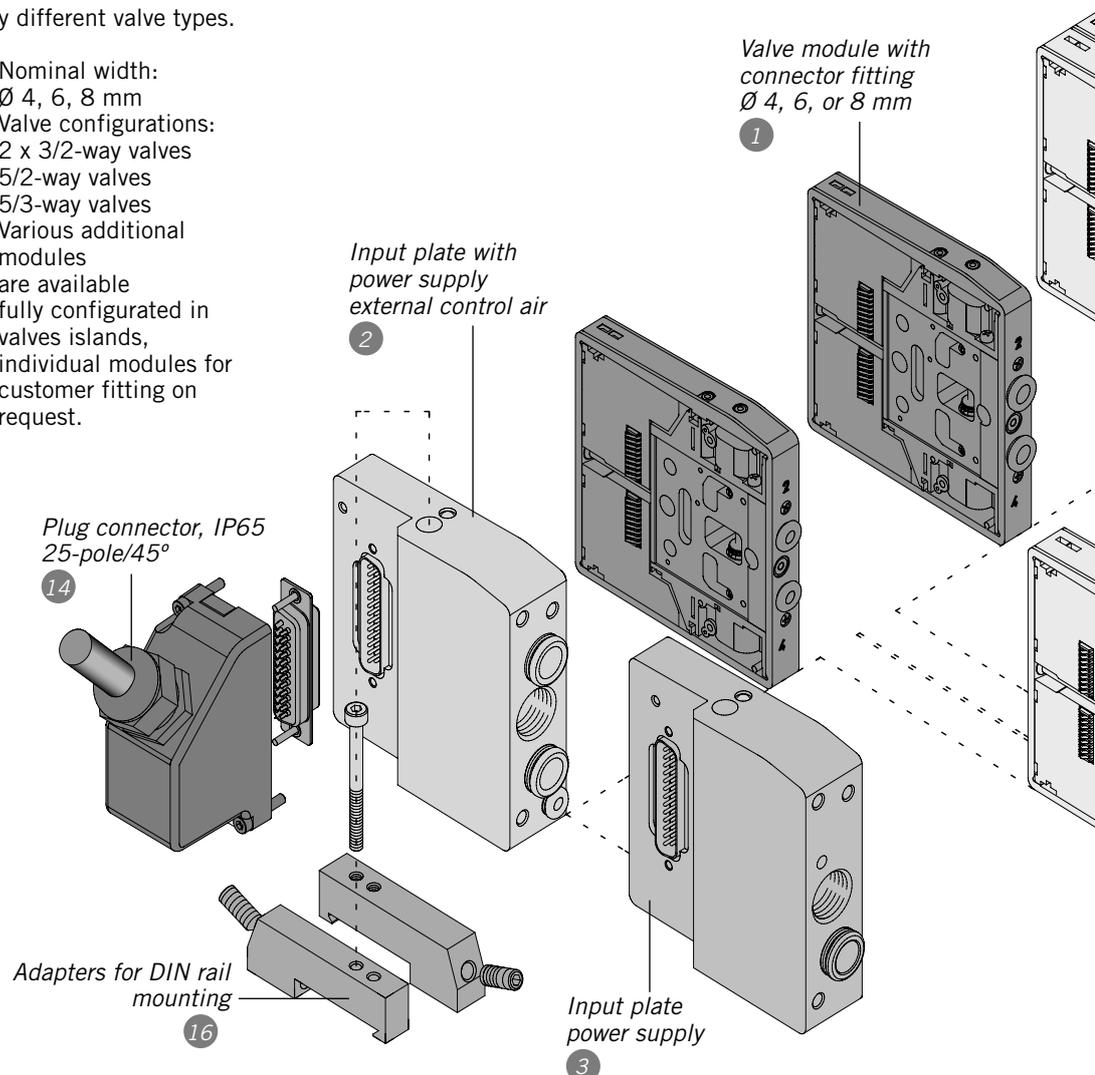
IM11 valve islands are characterised by

- rugged, aesthetically pleasing, dirt-repelling design
- compact dimensions
- time required for re-fitting is very short
- electric connection internal via contact plug
- 3 very different nominal sizes can be used in 1 valve island
- low power input
- protection rating IP65
- valve islands with from 2 - 16 valves
- quick-connect fittings Ø 4, 6, 8 mm accessible from one side
- all instructions regarding functions are together on one side
- many fitting options

Configurations

IM11 valve islands can be configured from any of 3 different nominal sizes and very different valve types.

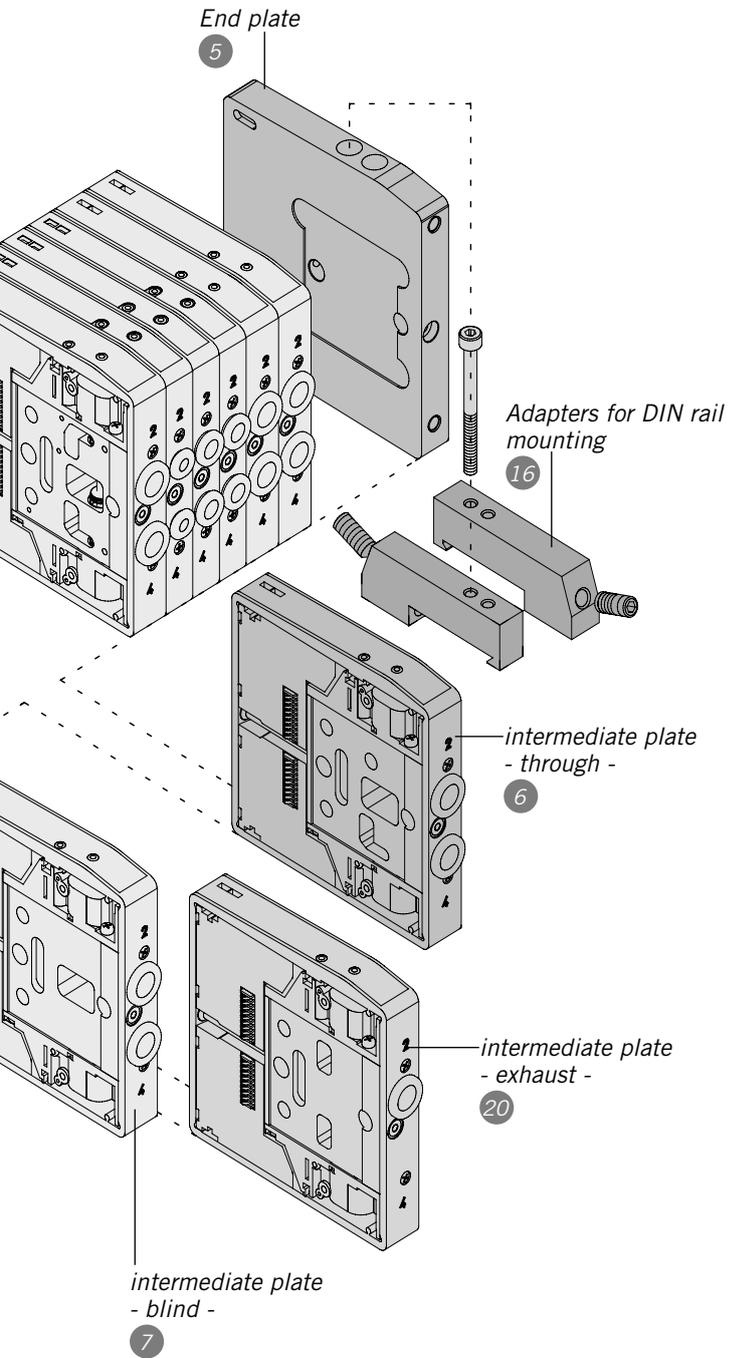
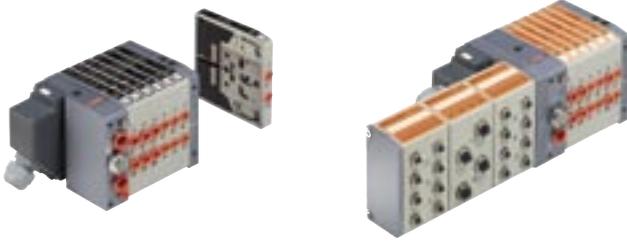
- Nominal width: Ø 4, 6, 8 mm
- Valve configurations: 2 x 3/2-way valves, 5/2-way valves, 5/3-way valves
- Various additional modules
- are available fully configured in valve islands, individual modules for customer fitting on request.



The position numbers on the elements allow fast identification of function and assembly position of the individual elements illustrated.

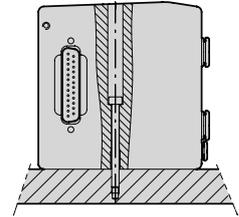
**Standard
Valve island
IM11**

**Option
Valve island IM11 with
CM valve system**

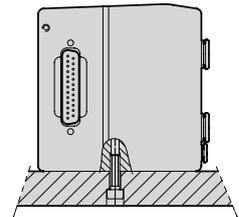


Fitting options

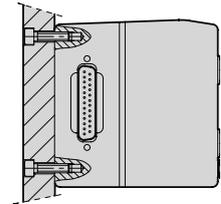
Fitting method A:
Input plate 1 or 1-11 and end plate is used for fitting.



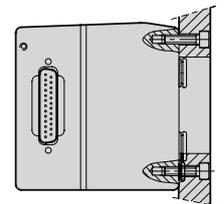
Fitting method B:
Input plate 1 or 1-11 and end plate is used for fitting via the M5 threaded hole in the base.



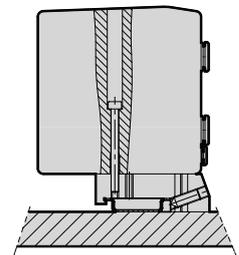
Fitting method C:
Input plate 1 or 1-11 and end plate is used for fitting via the M5 threaded hole on the side



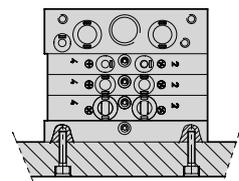
Fitting method D:
Input plate 1 or 1-11 and end plate is used for fitting via the threaded hole on the side. An opening for air supply hoses must be provided in the plate.



Fitting method E:
Input plate 1 or 1-11 and end plate is used for fitting on DIN rail, using the adapter PD 49586 (pos.-no. 16)



Fitting method F:
Lateral fitting on the end plate using the M4 threaded holes on the side.



Valve island

Series IM11

Connection size can be configured:
with valves

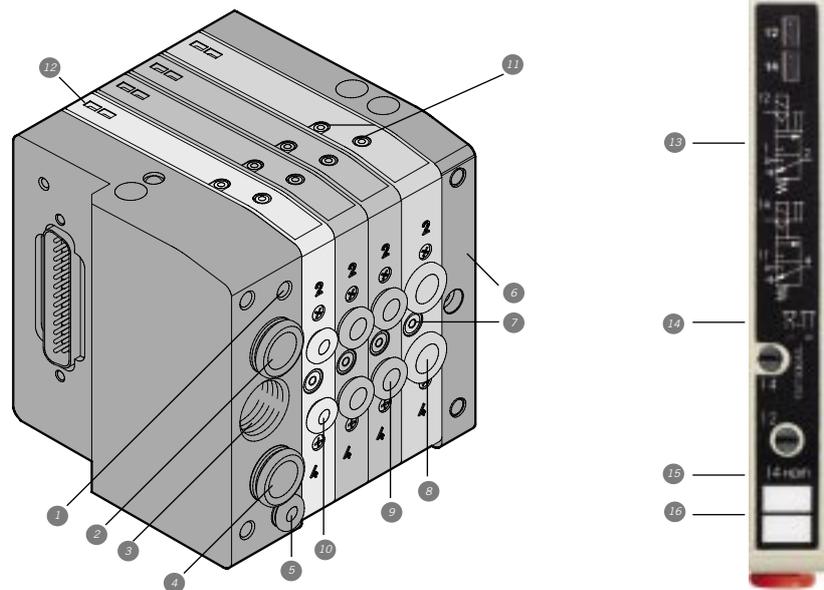
- NW Ø 4
- NW Ø 6
- NW Ø 8

Characteristics

Characteristics	Symbol	Unit	Description
General			
Connection size			
- Connection 2, 4		mm	quick-connect fitting Ø 4, 6, 8
- Connection 1, 11		mm	quick-connect fitting Ø 10
- Connection 3, 5			G3/8
- Connection X		mm	quick-connect fitting Ø 4
Maximum number of control items			16
Maximum number of valves			16 (identical with the max. number of control items)
Range of ambient and medium temperature	T_{min} T_{max}	°C °C	-10 +60 Note: Before using below freezing point (°C) customers are requested to consult with us.
Medium			filtered and un-oiled compressed air; if oiled, then continuous
Pneumatic characteristics			
Nominal pressure	p_n	bar	6
Operating pressure range			
- input plate 1	$p_{min/max}$	bar	2 to 7 valve connections 1+11
- input plate 1-11	$p_{min/max}$	bar	2 to 7 control connections X valve connections 1+11
	$p_{min/max}$	bar	-0.9 to 10 valve connections 1+11
Throughput rating	Q_N	l/min	Ø 4: 200 Ø 6: 500 Ø 8: 800
Electric characteristics			
Voltage range		VDC	24 ± 10%
Power consumption		W	0.6
Drive control			PNP or NPN
Insulation class			F155
Protection rating		IP65	with exhaust air connected
Duty cycle	ED	%	100

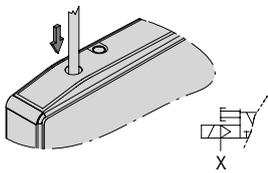
Technical overview

- ① Exhaust - drive control 82/84
- ② Valve connection 1
- ③ Exhaust - threaded connection 3/5
- ④ Valve connection 11
- ⑤ Control air connection X
- ⑥ End plate
- ⑦ Screw for valve connection
- ⑧ Working connection for hose Ø 8 mm
- ⑨ Working connection for hose Ø 6 mm
- ⑩ Working connection for hose Ø 4 mm
- ⑪ Manual override
- ⑫ LED (LED = ON, valve is activated)
- ⑬ pneumatic switch symbol
- ⑭ Identification for pushbutton override or locking override
- ⑮ Type designation of valve
- ⑯ free area for labelling



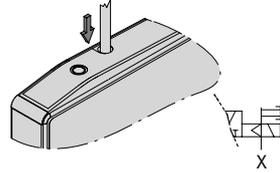
Description of manual override function

Manual pushbutton override



for connection 2

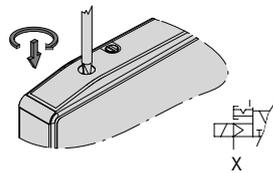
- Press the pushbutton fully down...
 - Keep the manual device in the pushed-down position (not required with the bi-stable valve of type K)
 - Let go the manual device:
- On the valve types I, W, L, V, F the manual device returns to the home position and the valve resets itself.
- On the valve type K the manual device remains in position and the valve remains switched over.
- On the valve type O the manual device does not fully return to the home position but the valve resets itself



for connection 4

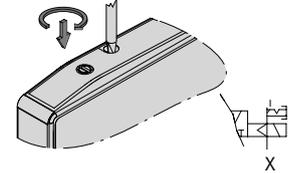
- Press the pushbutton fully down
 - Keep the manual device in the pushed-down position (not required with the bi-stable valve of type K)
 - Let go the manual device:
- The manual device returns to the home position.
- The valves of type I, W, L, O reset themselves.
- The valve of type K remains switched over.
- The valves of type V and F do not have this manual device.

Manual locking override



for connection 2

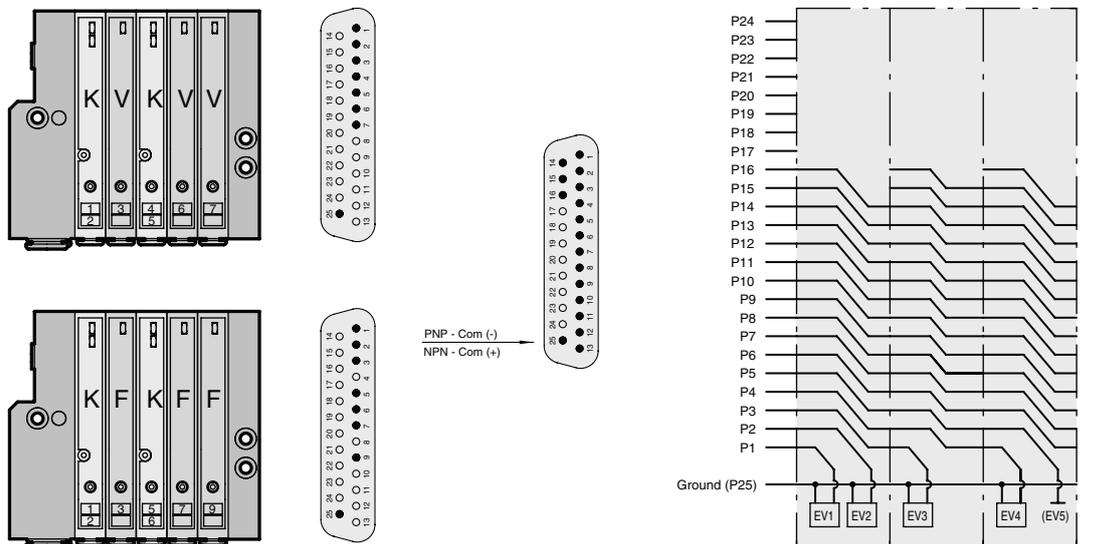
- Press the pushbutton fully down and then turn clockwise up to the stop.
 - Leave the manual device in that position.
 - Turn the manual device anti-clockwise up to the stop and then let go.
- On the valve types I, W, L, V, F the manual device returns to the home position and the valve resets itself.
- On the valve type K the manual device remains in position and the valve remains switched over.
- On the valve type O the manual device does not fully return to the home position but the valve resets itself.



for connection 4

- Press the pushbutton fully down and then turn clockwise up to the stop.
 - Leave the manual device in that position.
 - Turn the manual device anti-clockwise up to the stop and then let go.
- The manual device returns to the home position.
- The valves of type I, W, L, O reset themselves.
- The valve of type K remains switched over.
- The valves of type V and F do not have this manual device.

Assignment of terminals



Note: Type F of the mono-stable valves uses one pin only (as does V) but occupies 2 signals

Dimensions of valve modules see pages 6 – 9, order data see pages 13 – 14, accessories see pages 11 – 12

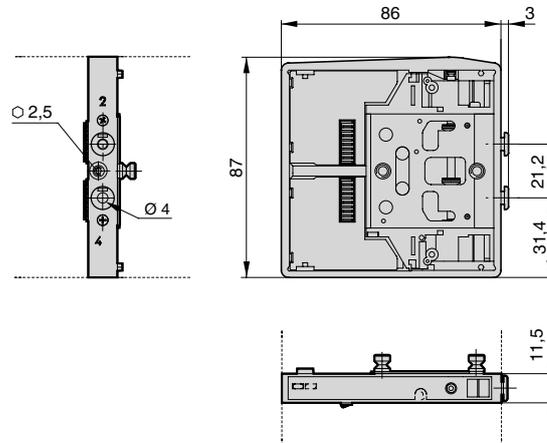
Dimensions in mm

Valve island

Series IM11

Valve module
with quick-connect
fitting
Ø 4 mm

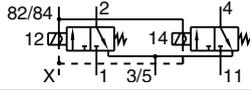
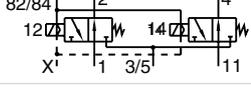
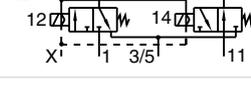
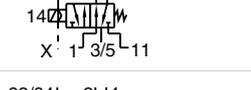
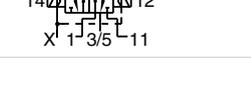
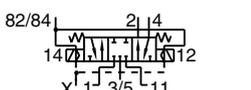
Dimensions – Valve modules IM11 Ø 4
Pos. No. ①



Weight (mass)

Valve version	Weight (kg)
I4T/I4R	0.130
W4T/W4R	0.130
L4T/L4R	0.130
V4T/V4R	0.115
F4T/F4R	0.115
K4T/K4R	0.130
O4T/O4R	0.130

Type overview – Valve modules IM11 Ø 4

Valve code no.	Description	Manual override	Symbol
I4T	2x3/2-way valve, NG* mono-stable	pushbutton override	
I4R	2x3/2-way valve, NG* mono-stable	locking override	
W4T	2x3/2-way valve, NO* mono-stable	pushbutton override	
W4R	2x3/2-way valve, NO* mono-stable	locking override	
L4T	2x3/2-way valve, NO*+NG* mono-stable	pushbutton override	
L4R	2x3/2-way valve, NO*+NG* mono-stable	locking override	
V4T	5/2-way valve mono-stable (1PIN)	pushbutton override	
V4R	5/2-way valve mono-stable (1PIN)	locking override	
F4T**	5/2-way valve mono-stable (2PIN)	pushbutton override	
F4R**	5/2-way valve mono-stable (2PIN)	locking override	
K4T	5/2-way valve bi-stable	pushbutton override	
K4R	5/2-way valve bi-stable	locking override	
O4T	5/3-way valve centre position blocked, spring return to middle position	pushbutton override	
O4R	5/3-way valve centre position blocked, spring return to middle position	locking override	

* NG = normally closed

* NO = normally open

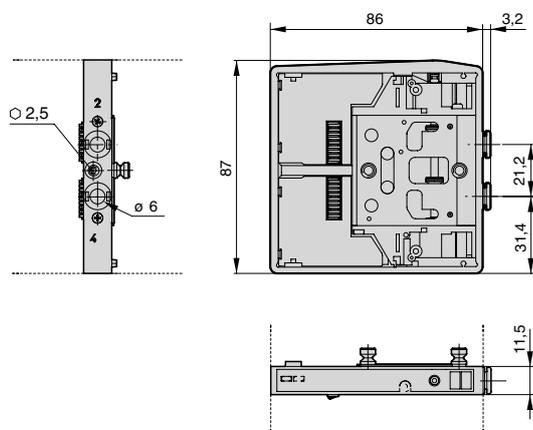
** uses one PIN only (as type V) and occupies 2 signals

Order details see pages 13 – 14

Accessories see pages 11 – 12

Dimensions in mm

Dimensions – Valve modules IM11 Ø 6
Pos. No. 1

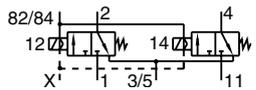
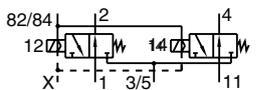
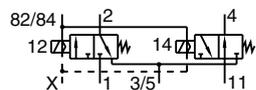
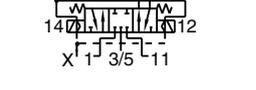
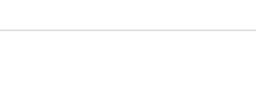


Valve island

Series IM11

Valve module
with quick-connect
fitting
Ø 6 mm

Type overview – Vales modules IM11 Ø 6

Valve code no.	Description	Manual override	Symbol
I6T	2x3/2-way valve, NG* mono-stable	pushbutton override	
I6R	2x3/2-way valve, NG* mono-stable	locking override	
W6T	2x3/2-way valve, NO* mono-stable	pushbutton override	
W6R	2x3/2-way valve, NO* mono-stable	locking override	
L6T	2x3/2-way valve, NO*+NG* mono-stable	pushbutton override	
L6R	2x3/2-way valve, NO*+NG* mono-stable	locking override	
V6T	5/2-way valve mono-stable (1PIN)	pushbutton override	
V6R	5/2-way valve mono-stable (1PIN)	locking override	
F6T**	5/2-way valve mono-stable (2PIN)	pushbutton override	
F6R**	5/2-way valve mono-stable (2PIN)	locking override	
K6T	5/2-way valve bi-stable	pushbutton override	
K6R	5/2-way valve bi-stable	locking override	
O6T	5/3-way valve centre position blocked, spring return to middle position	pushbutton override	
O6R	5/3-way valve centre position blocked, spring return to middle position	locking override	

* NG = normally closed

* NO = normally open

** uses one PIN only (as type V) and occupies 2 signals

Order details see pages 13 – 14

Accessories see pages 11 – 12

Dimensions in mm

Weight (mass)

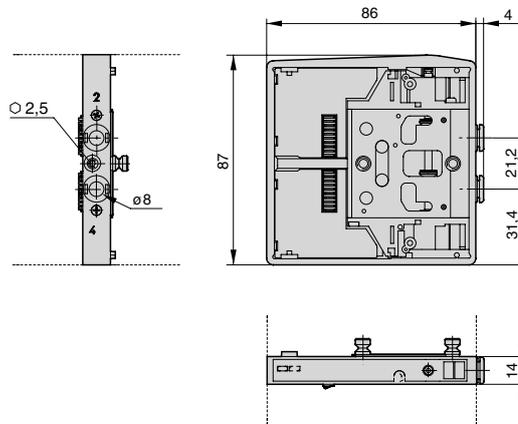
Valve version	Weight (kg)
I6T/I6R	0.130
W6T/W6R	0.130
L6T/L6R	0.130
V6T/V6R	0.115
F6T/F6R	0.115
K6T/K6R	0.130
O6T/O6R	0.130

Valve island

Series IM11

Valve module
with quick-connect
fitting
Ø 8 mm

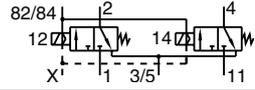
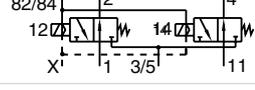
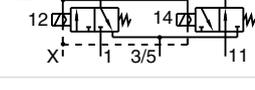
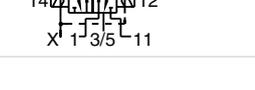
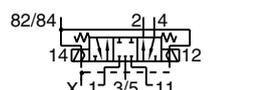
Dimensions – Valve modules IM11 Ø 8
Pos. No. 1



Weight (mass)

Valve version	Weight (kg)
I8T/I8R	0.130
W8T/W8R	0.130
L8T/L8R	0.130
V8T/V8R	0.115
F8T/F8R	0.115
K8T/K8R	0.130
O8T/O8R	0.130

Type overview – Valve modules IM11 Ø 8

Valve code no.	Description	Manual override	Symbol
I8T	2x3/2-way valve, NG* mono-stable	pushbutton override	
I8R	2x3/2-way valve, NG* mono-stable	locking override	
W8T	2x3/2-way valve, NO* mono-stable	pushbutton override	
W8R	2x3/2-way valve, NO* mono-stable	locking override	
L8T	2x3/2-way valve, NO*+NG* mono-stable	pushbutton override	
L8R	2x3/2-way valve, NO*+NG* mono-stable	locking override	
V8T	5/2-way valve mono-stable (1PIN)	pushbutton override	
V8R	5/2-way valve mono-stable (1PIN)	locking override	
F8T**	5/2-way valve mono-stable (2PIN)	pushbutton override	
F8R**	5/2-way valve mono-stable (2PIN)	locking override	
K8T	5/2-way valve bi-stable	pushbutton override	
K8R	5/2-way valve bi-stable	locking override	
O8T	5/3-way valve centre position blocked, spring return to middle position	pushbutton override	
O8R	5/3-way valve centre position blocked, spring return to middle position	locking override	

* NG = normally closed

* NO = normally open

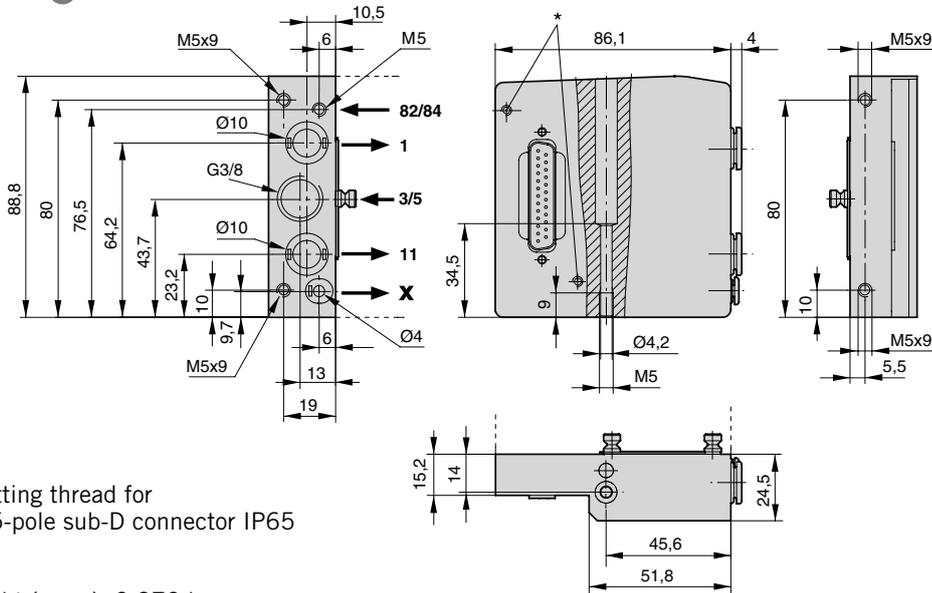
** uses one PIN only (as type V) and occupies 2 signals

Order details see pages 13 – 14

Accessories see pages 11 – 12

Dimensions in mm

Dimensions – input plate for separate air supply
Type: 1-11-25D
Pos. No. 2



* Fitting thread for
 25-pole sub-D connector IP65

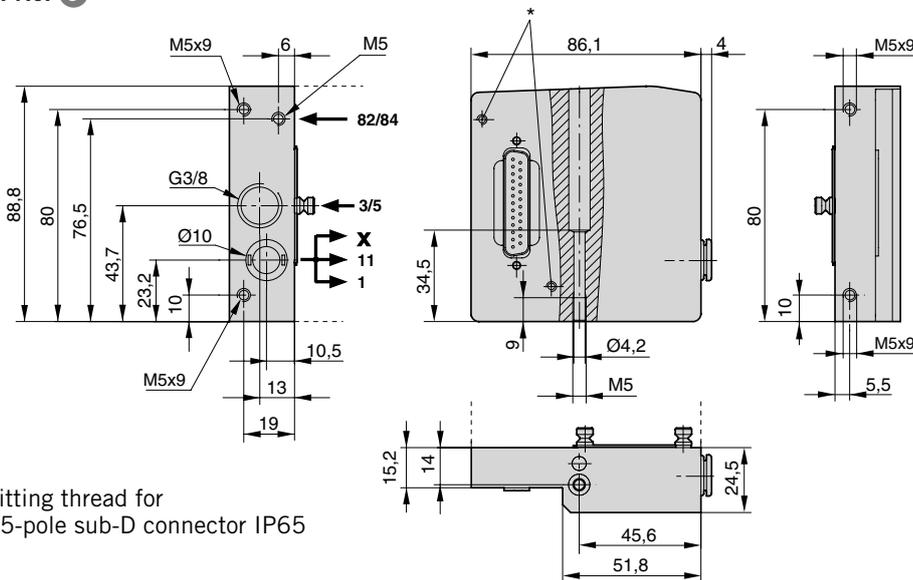
Weight (mass): 0.370 kg

Valve island

Series IM11

- Input plate for separate air supply
- Input plate for combined air supply

Dimensions – input plate for combined air supply
Type: 1-25D
Pos. No. 3



* Fitting thread for
 25-pole sub-D connector IP65

Weight (mass): 0.370 kg

Order details see pages 13 – 14
 Accessories see pages 11 – 12

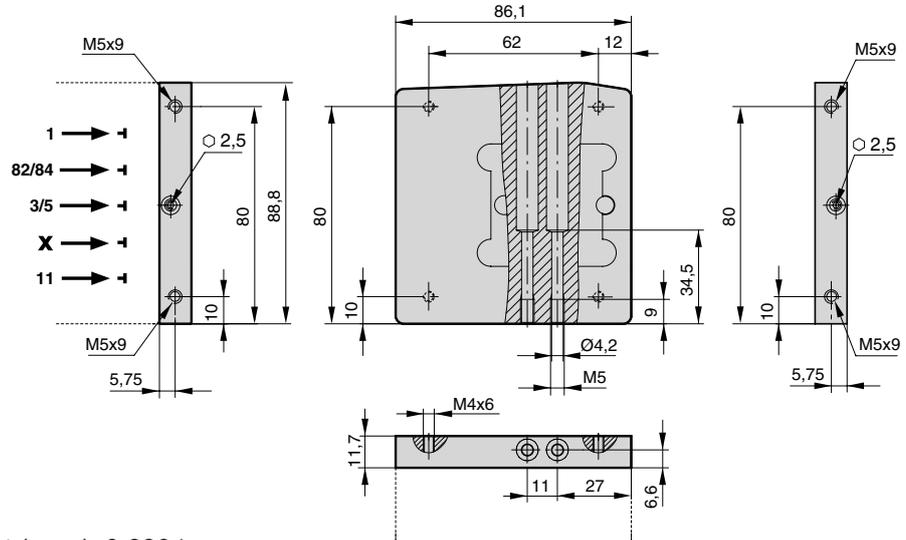
Dimensions in mm

Valve island

Series IM11

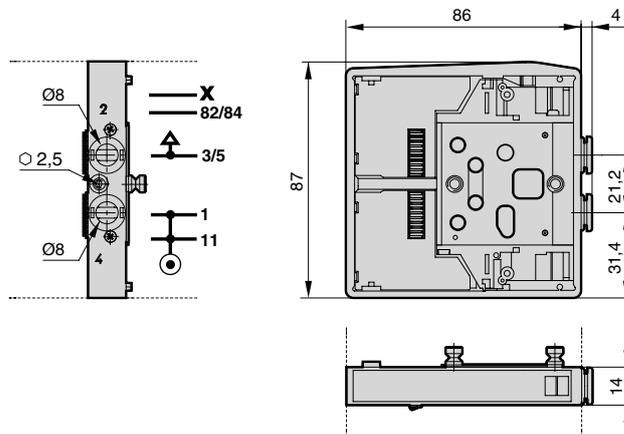
- End plate (without connection)
- Intermediate plate - through -

Dimensions – End plate (without connection)
Pos. No. 5



Weight (mass): 0.230 kg

Dimensions – Intermediate plate - through -
Pos. No. 6

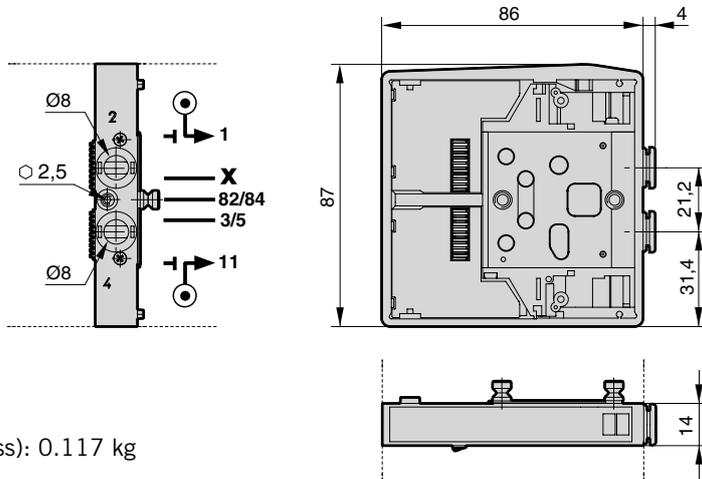


Weight (mass): 0.120 kg

Order details see pages 13 – 14
Accessories see pages 11 – 12

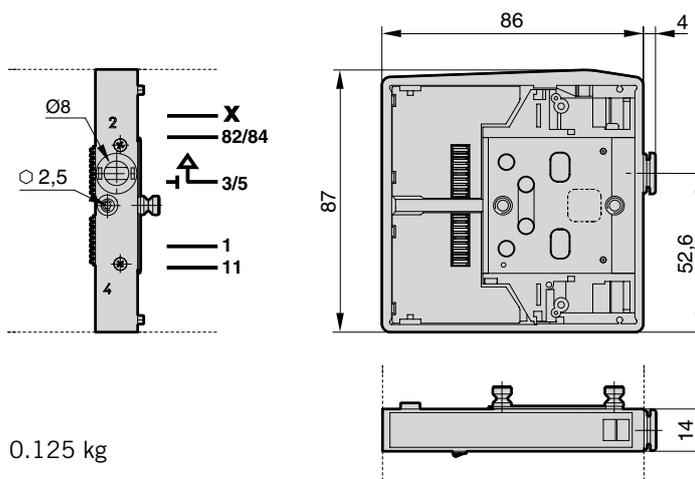
Dimensions in mm

**Dimensions – intermediate plate - blind -
Pos. No. 7**



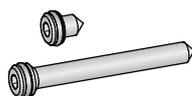
Weight (mass): 0.117 kg

**Dimensions – intermediate plate - exhaust -
Pos. No. 20**



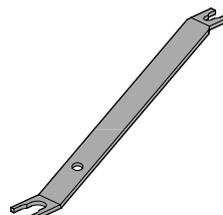
Weight (mass): 0.125 kg

**Stud bolts
(set)**



Packaging unit: 1 piece each

**Tool for detaching the hose
type: RL17**



Length: 140 mm

Valve island

Series IM11

- Intermediate plate - blind -
- Intermediate plate - exhaust -

Accessories
- stud bolts
- tools

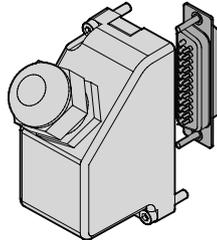
Valve island

Series IM11

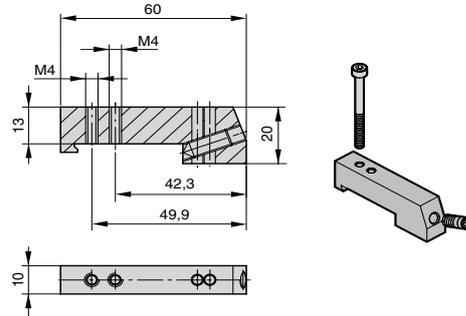
Accessories

- Sub-D connector 25-pole
- Adapter for DIN rail mounting
- Connecting cable with plug
- Silencer for quick-connect fitting

Sub-D connector, IP65
25-pole / 45°
pos. no. 14

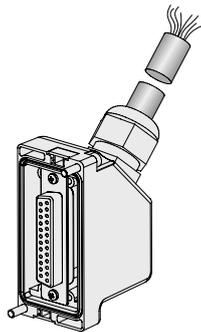


Adapter for DIN rail mounting
pos. no. 16



The adapters should be ordered in pairs.

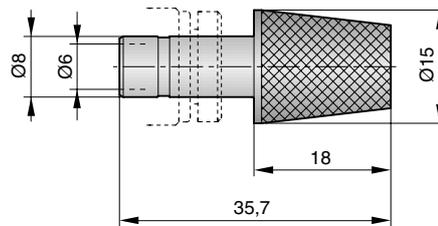
Connecting cable with Sub-D connector, IP65
25-pole / 45°



Cable length:
1 m, 2.5 m, 5.0 m, 10 m

Assignment of terminals for cables with Sub-D connectors					
No. of electrical contact	Colour of associated conductor	No. of electrical contact	Colour of associated conductor	No. of electrical contact	Colour of associated conductor
1	blue/black	10	brown/white	19	yellow/black
2	red/brown	11	red/orange	20	white
3	white/black	12	light blue	21	blue/white
4	red/blue	13	yellow/white	22	brown
5	black/orange	14	yellow	23	green/white
6	yellow/red	15	red/green	24	red
7	black/brown	16	orange	25	green/black
8	white/red	17	orange/white	26	
9	red/black	18	green	27	

Silencer for quick-connect fitting Ø 8



Order details see page 14

Dimensions in mm

Order instructions – Valve island IM11

Order No.							
P	A	1	0	5	7	0	-
							Number of valve places

Valve assignment																					
Input plate	Valve positions 1 – 20																			End plate	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		20
																					5

Valve places
01
02
03
04
05
06
▼
20

Order code for input plates		
Code	Description	Page
3	Input plate 1-25D	9
2	Input plate 1-11-25D	9

Code	Description	Manual override	Page
I8T	2x3/2-way valve, NG*, mono-stable	pushb. override	8
I8R	2x3/2-way valve, NG*, mono-stable	locking override	8
W8T	2x3/2-way valve, NO*, mono-stable	pushb. override	8
W8R	2x3/2-way valve, NO*, mono-stable	locking override	8
L8T	2x3/2-way valve, NO*+NG*, mono-stable	pushb. override	8
L8R	2x3/2-way valve, NO*+NG*, mono-stable	locking override	8
V8T	5/2-way valve, mono-stable (1PIN)	pushb. override	8
V8R	5/2-way valve, mono-stable (1PIN)	locking override	8
F8T	5/2-way valve, mono-stable (2PIN)	pushb. override	8
F8R**	5/2-way valve, mono-stable (2PIN)	locking override	8
K8T**	5/2-way valve, bi-stable	pushb. override	8
K8R	5/2-way valve, bi-stable	locking override	8
O8T	5/3-way valve, centre position blocked, spring return to middle position	pushb. override	8
O8R	5/3-way valve, centre position blocked, spring return to middle position	locking override	8
6	Intermediate plate - through -		10
7	Intermediate plate - blind -		11
20	Intermediate plate - exhaust -		11

* NG = Normally closed

* NO = Normally open

** use one PIN only (as type V) and occupies 2 signals

It is possible to have an even or an uneven number of valve positions! Please make sure to state the codes for the required valve types and intermediate plates.

When assigning valve positions it is important to remember that the max. number of drive controls available!

Order code for valves and sandwich plates

Code	Description	Manual override	Page
I4T	2x3/2-way valve, NG*, mono-stable	pushb. override	6
I4R	2x3/2-way valve, NG*, mono-stable	locking override	6
W4T	2x3/2-way valve, NO*, mono-stable	pushb. override	6
W4R	2x3/2-way valve, NO*, mono-stable	locking override	6
L4T	2x3/2-way valve, NO*+NG*, mono-stable	pushb. override	6
L4R	2x3/2-way valve, NO*+NG*, mono-stable	locking override	6
V4T	5/2-way valve, mono-stable (1PIN)	pushb. override	6
V4R	5/2-way valve, mono-stable (1PIN)	locking override	6
F4T	5/2-way valve, mono-stable (2PIN)	pushb. override	6
F4R**	5/2-way valve, mono-stable (2PIN)	locking override	6
K4T**	5/2-way valve, bi-stable	pushb. override	6
K4R	5/2-way valve, bi-stable	locking override	6
O4T	5/3-way valve, centre position blocked, spring return to middle position	pushb. override	6
O4R	5/3-way valve, centre position blocked, spring return to middle position	locking override	6
I6T	2x3/2-way valve, NG*, mono-stable	pushb. override	7
I6R	2x3/2-way valve, NG*, mono-stable	locking override	7
W6T	2x3/2-way valve, NO*, mono-stable	pushb. override	7
W6R	2x3/2-way valve, NO*, mono-stable	locking override	7
L6T	2x3/2-way valve, NO*+NG*, mono-stable	pushb. override	7
L6R	2x3/2-way valve, NO*+NG*, mono-stable	locking override	7
V6T	5/2-way valve, mono-stable (1PIN)	pushb. override	7
V6R	5/2-way valve, mono-stable (1PIN)	locking override	7
F6T	5/2-way valve, mono-stable (2PIN)	pushb. override	7
F6R**	5/2-way valve, mono-stable (2PIN)	locking override	7
K6T**	5/2-way valve, bi-stable	pushb. override	7
K6R	5/2-way valve, bi-stable	locking override	7
O6T	5/3-way valve, centre position blocked, spring return to middle position	pushb. override	7
O6R	5/3-way valve, centre position blocked, spring return to middle position	locking override	7

Single modules for fitting by customer are available on request

Valve island

Series IM11

Accessories

Order instructions

Order instructions - Accessories

Description	Pos. No.	Order instruction	
		Type	Order No.
Sub-D connector, 25-pole, 45°	14		PD 49585
Adapter for DIN rail mounting	16		PD 49586
Connecting cable with plug, IP65, 25-pole, 45°, cable length 1 m			PD 49581
Connecting cable with plug, IP65, 25-polig, 45°, Kabellänge 2.5 m			PD 49582
Connecting cable with plug, IP65, 25-pole, 45°, cable length 5.0 m			PD 49583
Connecting cable with plug, IP65, 25-pole, 45°, cable length 10 m			PD 49584
Silencer for quick-connect fittings			PD 49587
Stud bolts (set)			PD 49588
Hose detaching tool Ø 3 to Ø 10 mm		RL17	PD 49589

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Importance of EU Directives

Various Directives have been issued by the EU Commission in the course of the unification of the single European market; the following Directives are in part of significance for ORIGA products:

- Simple pressure vessels (87/404/EWG, amended by 90/488/EWG and 93/68/EWG)
- Low-voltage electrical equipment (73/23/EWG, amended by 93/68/EWG)
- Machinery Directive (89/392/EWG, amended by 91/368/EWG, 93/44/EWG and 98/37/EG)
- Pressure Equipment Directive (97/23/EWG)
- Equipment and protective systems intended for use in potentially explosive atmospheres (ATEX Directive, 94/9/EG)
- Electromagnetic Compatibility Directive (EMV Directive, 89/336/EWG, amended by 92/31/EWG)

If a product comes within the scope of application of one of these Guidelines, then an EU Declaration of Conformity with CE mark (CE for Communauté Européenne) is required. This CE marking does not represent a quality feature but verifies that the conformity assessment procedure specified has been concluded successfully and the protective requirements of the relevant EU Directives have been observed.

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The following harmonized standards are applied in the design of ORIGA components and systems:

- DIN EN ISO 12100 Safety of machinery
- DIN EN 60204.1 Electrical equipment of machines
- DIN EN 983 Safety requirements for fluid power systems and their components

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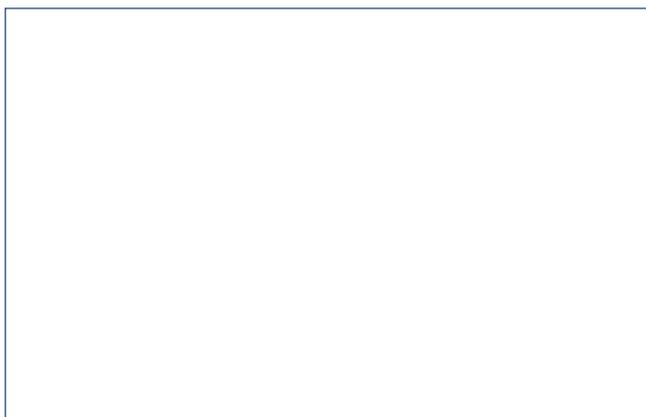
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