

Valve Islands

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Series IM20-G1/8 Series IM20-G1/4



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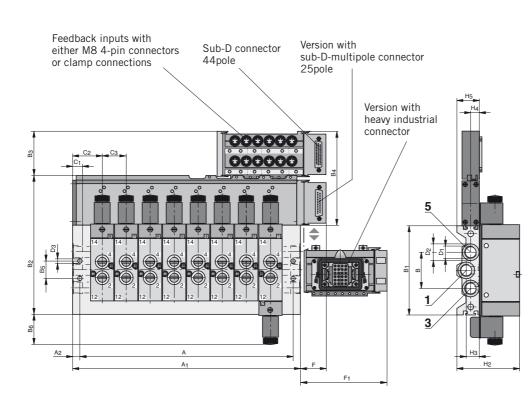
Valve Islands with Multipole Connector

valve islanus with withtipole	Connector				
Characteristics	Symbol	Unit	Description		
General Features					
Туре			IM20-1/8		IM20-1/4
Mounting			4 Screws – see drawing		4 Screws – see drawing
Port size					
- air supply and exhaust			G1/4 both sides		G3/8 both sides
 valve outlets 			G1/8		G1/4
Size for valve positions			22		33
Installation			In any position		
Ambient and medium temperature range	T T _{max}	°C ℃	-10 Note: Please +50	e consult us for c	perating temperatures below 0° C
Medium			Filtered compressed air		
Lubrication			With or without oil mist (We recommend the use		vpe VG 32 to ISO 3448)
Material					
– Base plate			AI		
- Valve housing			AI		
– Seals			NBR		
Durability of valves			10 x 10 ⁶ operations		
No. of valves positions			4 - 6 - 8 - 10 - 12 - 14	4–16 (1	
No. of switching outputs			max. 24		
No. of sensor inputs			max. 32		
Pneumatic characteristics					
Nominal pressure	p _n	bar	6		
Operating pressure range	p _{min} p _{max}	bar bar	2.5 10		
Nominal flow	Q _n	l/min	500		1300 (2
Actuation					
Electrical			By control system		
Voltage type			Direct current		
Nominal voltage	U _n	V	24 ±10%		
Power consumption		W	2.5		
Mass/ground			Minuspol		
Electrical protection		IP	IP65 (applise only to th	e electrically par	t)
– Input clamps		IP	IP20		
– Input plug		IP	IP65		
Connection					
- Multipole Connector			25-pin sub-D connector	or 24-pin indus	trial connector
– Sensor inputs			Ladder clamps or M8 x	14-pin connecto	rs
Status indication			LED		
Protective circuit			Integrated		
⁽¹ other numbers of values ca	n ha fittad	via tha ua	of blanking plates		

 $^{(1)}$ other numbers of valves can be fitted via the use of blanking plates. $^{(2)}$ Version "middle position vented" 1000 l/min



Multipole Island with sub-D-multipole connector 25pole (or heavy industrial connector) and 16 M8 4-pin feedback inputs with 44pin sub-D connector



Dimension Table (mm)

Valve Islands	Dimen	Dimension										
	А	A_1	A ₂	В	B_1	B ₂	B ₃	B_4	B ₅	B ₆	B ₇	C_1
IM20-1/8		30 + x C ₃	6	43	99	166	62.5	132	20.5	42.5	60	11

Valve Islands	Dimen	Dimension									
	C ₂	C ₃	D_1	ØD ₂	$\mathrm{ØD}_{_3}$	F	F_1	H_2	H_3	H_4	H ₅
IM20-1/8	26	23	G1/4	19x0.2	5.5	40	126	68	12	9	25

 $x C_3$ = Dimension C₃ multiplied with number of valves

For order instructions see page 91, 135

Dimensions in mm

Valve Islands with **Multipole** Connection Series IM20

G1/8

Multipole islands can be equipped with following valves.

- 5/2 Way Valves with
 - spring return
- 5/2 Way Impulse Valves - 5/3 Way Valves
- with spring return to middle position
- middle position closed
- middle position exhausted
- middle position pressurized

Versions:

- Connection
- with sub-D connector
- Connection with heavy
- industrial connector - With or without sensor
- inputs - With multi-connection for
- sensor inputs (via 44pole sub-D connector)

Accessories See page 92

- Cable
- with sub-D plug
- Heavy industrial connector
- Straight plug M8 4pole

Connection with sub-D connector



Connection with heavy industrial connector



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Valve Islands with **Multipole** Connection Series IM20

G1/4

Multipole islands can be equipped with following valves:

- 5/2 Way Valves with spring return
- 5/2 Way Impulse Valves - 5/3 Way Valves
- with spring return
- to middle position
- middle position closed
- middle position exhausted
- middle position pressurized

Versions:

- Connection

- with sub-D connector
- Connection with heavy duty industrial connector
- With or without sensor inputs
- With multi-connection for sensor inputs (via 44-pin sub-D connector)

Accessories See page 92

- Cable

- with sub-D plug - Heavy duty industrial connector
- Straight M8 4-pin connector

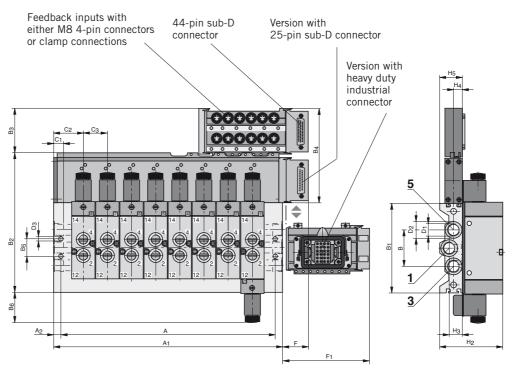
Connection with sub-D connector



Connection with heavy duty industrial connector



Multipole Island with 25-pin sub-D connector (or heavy duty industrial connector) and 16 M8 4-pin feedback inputs with 44-pin sub-D connector



Dimension Table (mm)

Valve Islands	Dimen	Dimension										
	А	A_1	A ₂	В	B_1	B ₂	B ₃	B ₄	B ₅	B ₆	B ₇	C_1
IM20-1/4	17 + x C ₃		6	50	123	190	62.5	132	24	42.5	73.5	12

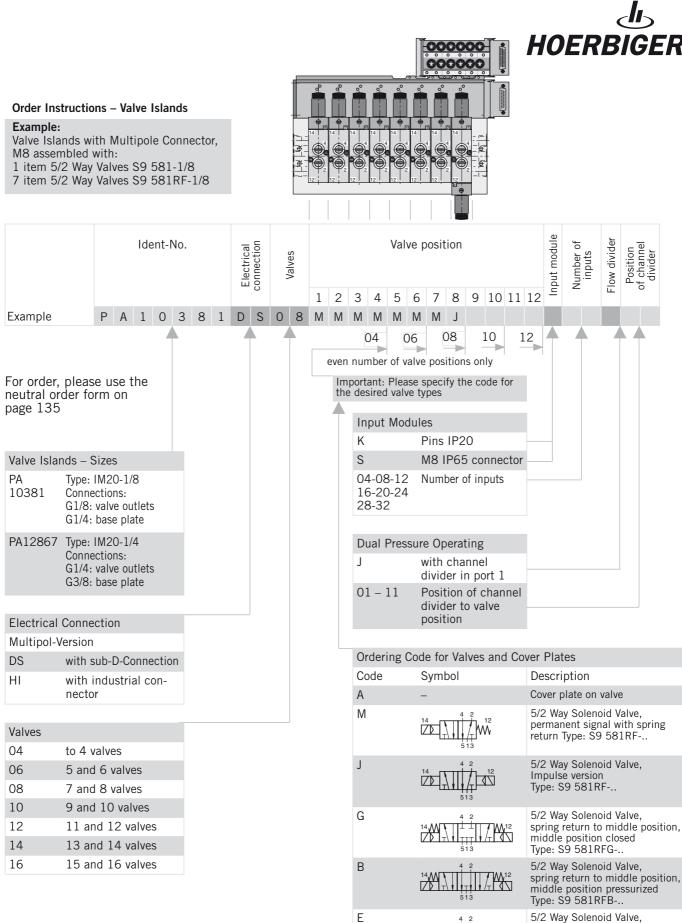
Valve Islands	Dimen	Dimension									
	C ₂	C ₃	D_1	ØD ₂	OD_3	F	F_1	H ₂	H_3	H_4	H ₅
IM20-1/4	31	33	G3/8	23x0.5	6.2	40	126	86	18.5	12	31
0 0	· •										

 $x C_3$ = Dimension C₃ multiplied by number of valves

For order instructions see page 91, 135

Dimensions in mm

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5/2 Way Solenoid Valve, spring return to middle position, middle position exhausted Type: S9 581RFE-..

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Accessories for Valve Islands IM20

with Multipole Connector

- Cable with sub-D plug
- Heavy duty industrial connector

- Straight plug M8 4pole

Cable with sub-D plug

Number of	Cable length	Order Instructions		Figure
poles		Туре	Order No.	
25	1.0 m	GSK-25-1	KL9012	
25	3.0 m	GSK-25-3	KL9013	in in
25	5.0 m	GSK-25-5	KL9014	100
44	5.0 m	GSK-44-5	KL9005	~

Heavy duty industrial connector with cable

Number	Cable length	Order Instructions	Figure		
of poles		Туре	Order No.		
24	5.0 m	K-IST-24	KL9003		

Straight plug M8 for inputs

		• . • • • • • • •			
	Number of	Use	Order Instructions	Figure	
1	poles		Туре	Order No.	
4	4	for own packing	K-M8-4	KL9011	