



Type of valve with G1/8 consumption on valve body supplied:

GH-...series with integrated electrical connection

G-...series without electrical connection

TECHNICAL CHARACTERISTICS

Ambient temperature: $-20^{\circ} \div 50^{\circ}\text{C}$.
 Fluid temperature: 50°C max.
 Fluid: filtered air $50 \mu\text{m}$ with or without lubrication (not dehumidified or neutral gases)
 Switching system: spool.
 Body: die-cast zamak.
 Valve function: 5/2-5/3-3/2+3/2.
 Pressure $1,5 \div 9$ bar.
 Flow rate: 770 NI/min 5/2,
 700 NI/min 5/3,
 670 NI/min 3/2+3/2.

Control: indirect electro-pneumatic or pneumatic.

Return: mechanical spring, pneumatic spring

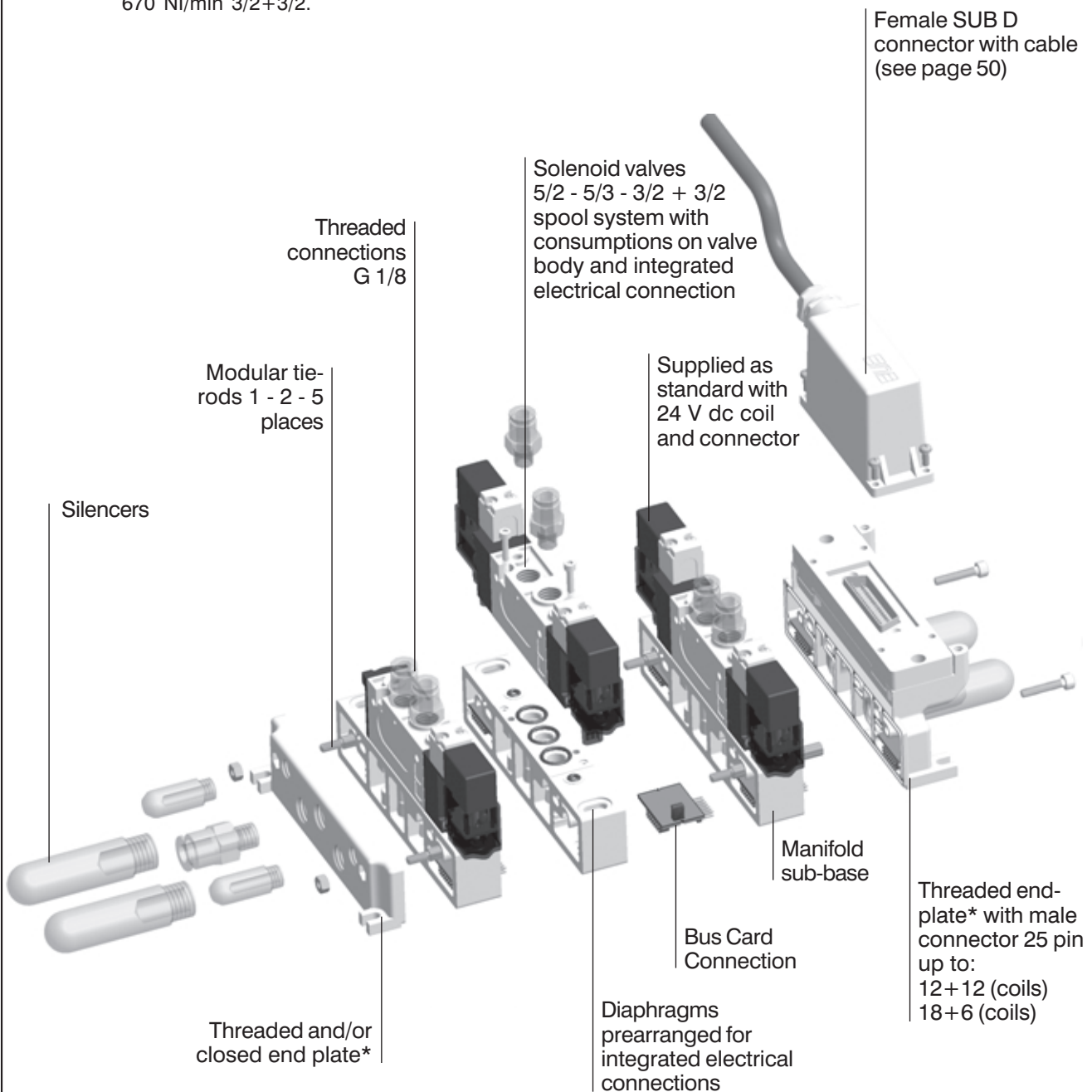
Seals: nitrile rubber

Coils: GH series: 24 Vdc-2 W standard;
 12 Vdc-2,5 W upon request.

G series: see codification key on page 40.

Protection: IP65.

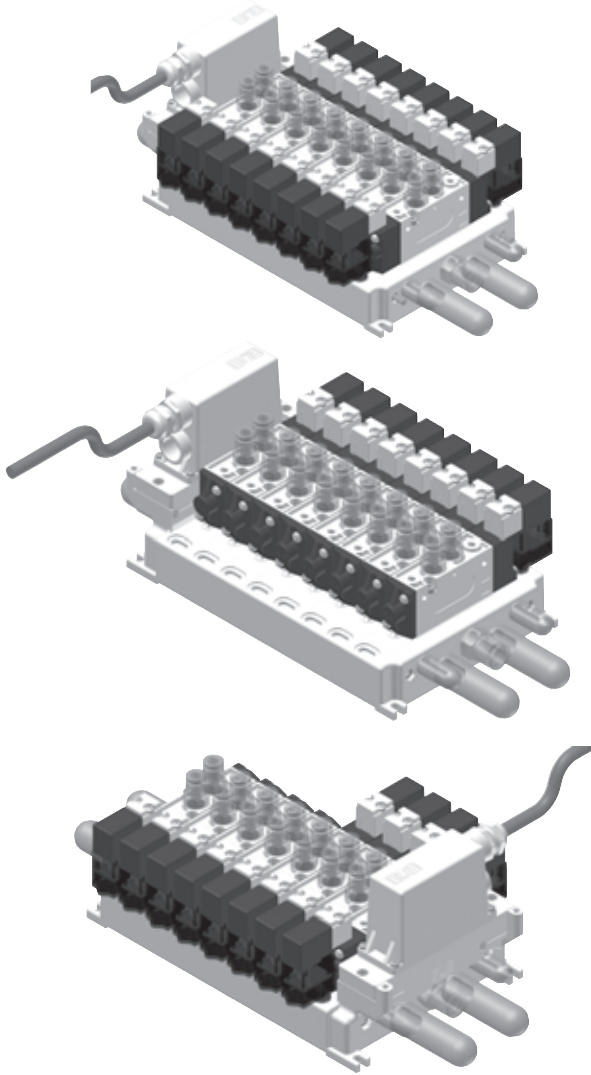
Manifold sub-base and end plates in self-extinguishing plastic IXEF.



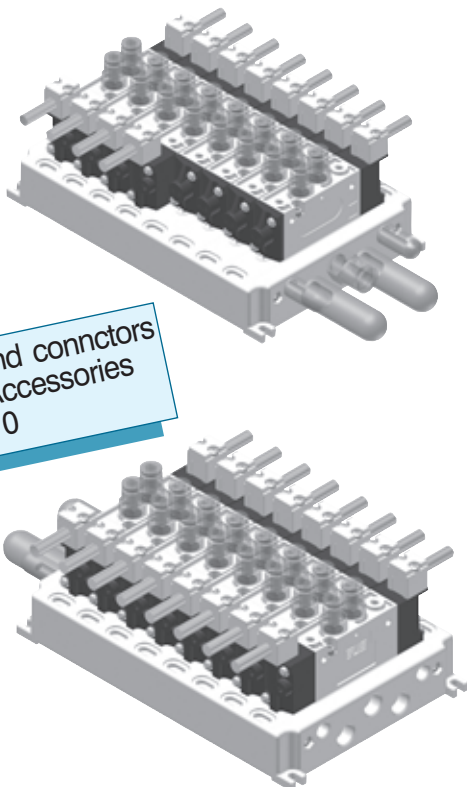
* It is advisable to use fittings with cylindrical thread with tightening torque 3 Nm for G 1/8 and 10 Nm for G 1/4.



GH series

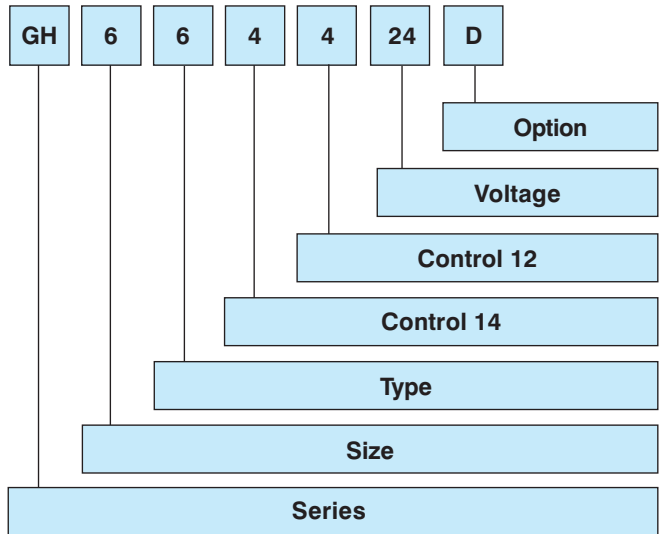


G series



Coils and connectors
Sect. Accessories
page 10

Codification key



SERIES

GH = Solenoid valve with G 1/8 consumptions on valve body with integrated electrical connection standard (coils and connectors included).

G = Valves and solenoid valves with G 1/8 consumption on valve body (coils and connectors to be ordered separately).

SIZE

6 = Side 20 mm

TYPE

- 2** = 5/2
- 3** = 5/3 closed centres
- 4** = 5/3 open centres
- 5** = 5/3 pressurized centres
- 6** = 3/2+3/2 NC-NC
- 7** = 3/2+3/2 NC-NO
- 8** = 3/2+3/2 NO-NO

CONTROL 14

- 3** = pneumatic amplified (G series)
- 4** = electrical amplified only d.c. solenoid 15x15 (GH series)
- 5** = electrical amplified d.c. and a.c. solenoid 15x15 (G series)
- 6** = electrical amplified only d.c. solenoid 10x10 (G series)

CONTROL 12

- 0** = pneumomechanical spring
- 1** = mechanical spring
- 2** = pneumatic not amplified
- 3** = pneumatic amplified
- 4** = electrical amplified only d.c. solenoid 15x15 (GH series)
- 5** = electrical amplified d.c. and a.c. solenoid 15x15 (G series)
- 6** = electrical amplified only d.c. solenoid 10x10 (G series)
- 7** = electrical not amplified only d.c. solenoid 15x15 (GH series)
- 8** = electrical not amplified d.c. and a.c. solenoid 15x15 (G series)
- 9** = electrical not amplified only d.c. solenoid 10x10 (G series)

VOLTAGE (excluded G series)

- 24 Vdc (standard)
- 12 Vdc (upon request)

OPTION

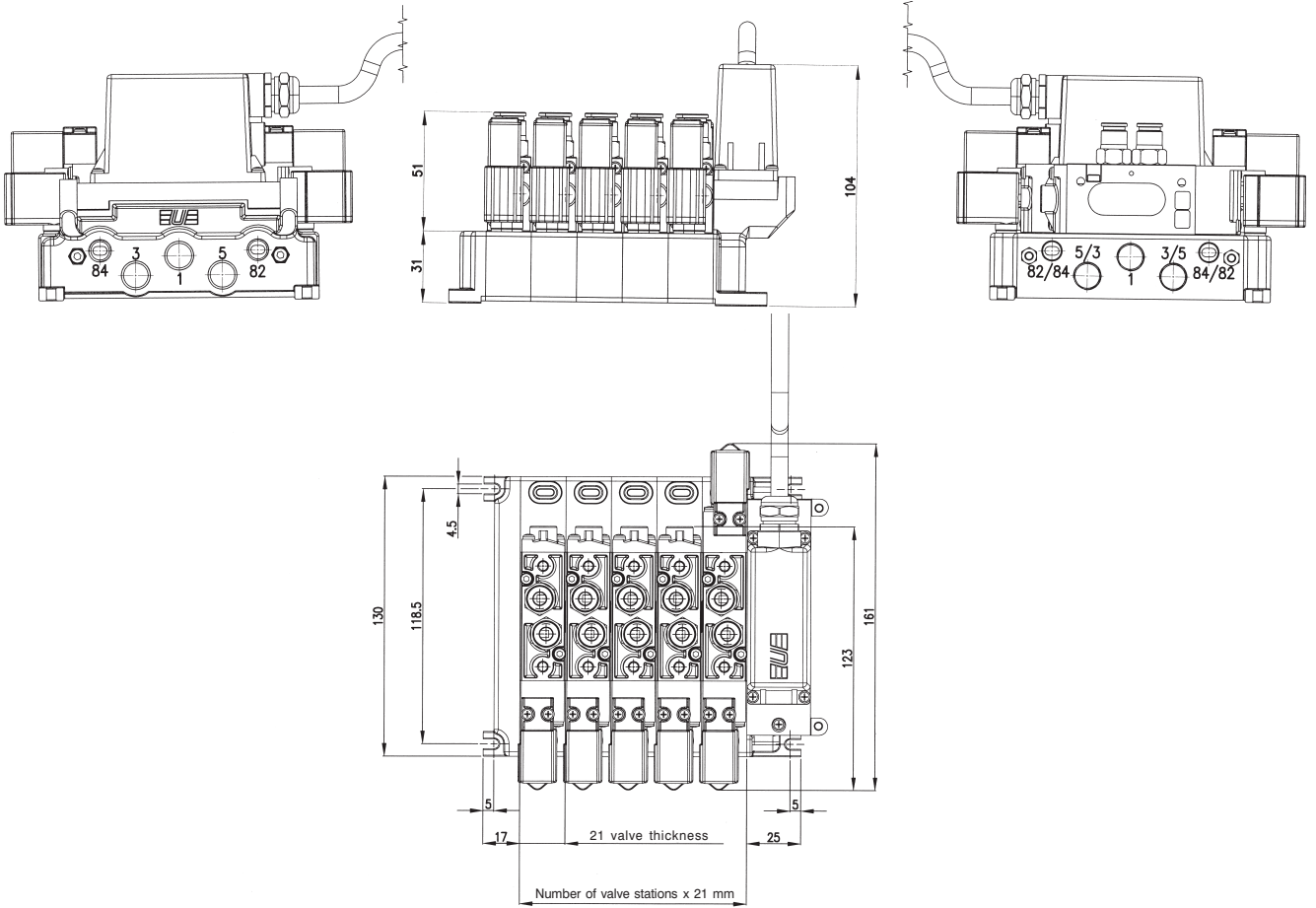
D = external servoassistance of solenoid on the valve body.



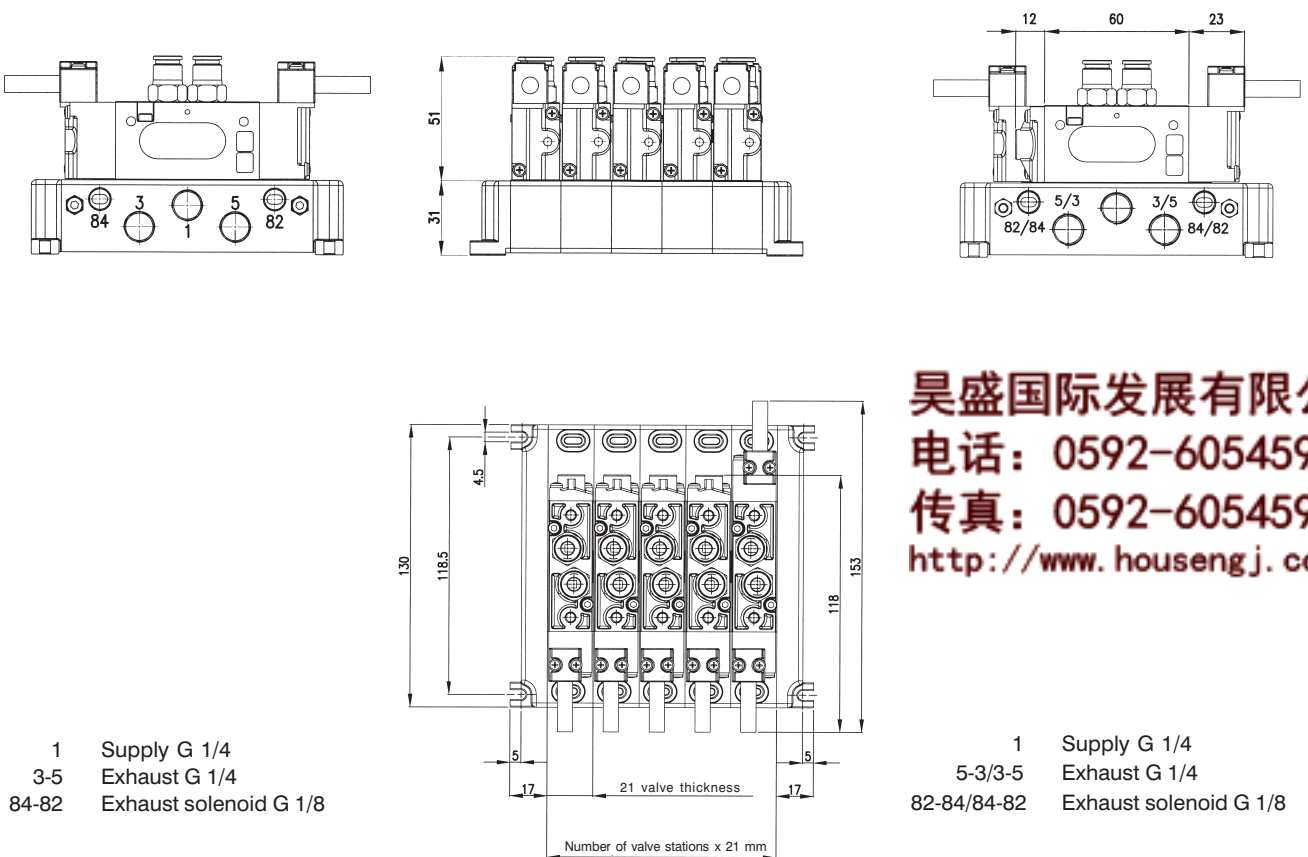
Symbol	Control		Ø mm	Flow NI/min.	Pressure bar (supply pipe Ø 6)	Time ms		Manual override	Mass kg	Part number	Ciols	
	14	12				energ. 14-12	de-energ. 14-12					
5/2 Single - double pneumatic impulse												
	pneumatic amplified on body	pneumo-mechanical spring	5	770	1,5 ÷ 10	7	16	-	0,092	G-6230	-	
	pneumatic amplified on body	mechanical spring	5	770	0,9 ÷ 10	6	18	-	0,092	G-6231	-	
	pneumatic amplified on body	Pneum. amplified on body	5	770	0,7 ÷ 10	5	5	-	0,103	G-6233	-	
5/2 Single - double electric impulse												
	electrical amplified	pneumo-mechanical spring	5	770	1,5 ÷ 9	21	30	↑	0,112	G-6240	DD-...	
					1,5 ÷ 8	25	56	↑	0,092	G-6260	DE-...	
	electrical amplified	mechanical spring	5	770	1,5 ÷ 9	21	30	↑	0,137	GH-624024	-	
					1,5 ÷ 8	22	90	↑	0,112	G-6241	DD-...	
	electrical amplified	electrical amplified	5	770	1,5 ÷ 9	18	64	↑	0,092	G-6261	DE-...	
					1,5 ÷ 8	22	90	↑	0,137	GH-624124	-	
	electrical amplified	electrical amplified	5	770	0,6 ÷ 9	16	16	↑	0,143	G-6244	DD-...	
					1,5 ÷ 8	18	18	↑	0,123	G-6266	DE-...	
	electrical amplified	electrical amplified	5	770	0,6 ÷ 9	16	16	↑	0,193	GH-624424	-	
					1,5 ÷ 8	18	18	↑	0,123	G-6266	DE-...	
5/3 Closed centres, open centres, pressurized centres												
	Closed centres		5	700	1,5 ÷ 9	16	47	↑	0,148	G-6344	DD-...	
	Electrical	Electrical			2,1 ÷ 8	20	65	↑	0,128	G-6366	DE-...	
Electrical			Electrical	5	700	1,5 ÷ 9	16	47	↑	0,198	GH-634424	-
		Open centres		5	700	2,4 ÷ 9	16	47	↑	0,148	G-6444	DD-...
Electrical		Electrical	2,0 ÷ 9 supply pipe Ø 8-10									
			Electrical			Electrical	2,4 ÷ 8	20		75	↑	0,128
2,0 ÷ 8 supply pipe Ø 8-10												
Electrical	Electrical	5	700	2,4 ÷ 9	16	47	↑	0,198	GH-644424	-		
		2,0 ÷ 9 supply pipe Ø 8-10										
	Pressurized centres		5	700	1,5 ÷ 9	16	47	↑	0,148	G-6544	DD-...	
	Electrical	Electrical			2,1 ÷ 8	20	75	↑	0,128	G-6566	DE-...	
Electrical			Electrical	5	700	1,5 ÷ 9	16	47	↑	0,198	GH-654424	-
	3/2 + 3/2 Amplified electrical control											
	3/2NC+3/2NC		5	670	1,5 ÷ 9	14	17	↑	0,140	G-6644	DD-...	
	Electrical	Electrical			1,5 ÷ 8	18	43	↑	0,122	G-6666	DE-...	
Electrical			Electrical	5	670	1,5 ÷ 9	14	17	↑	0,190	GH-664424	-
		3/2NC+3/2NO		5	670	1,5 ÷ 9	14	17	↑	0,140	G-6744	DD-...
Electrical		Electrical	1,5 ÷ 8			18	43	↑	0,122	G-6766	DE-...	
	Electrical		Electrical	5	670	1,5 ÷ 9	14	17	↑	0,190	GH-674424	-
		3/2NO+3/2NO		5	670	1,5 ÷ 9	14	17	↑	0,140	G-6844	DD-...
	Electrical	Electrical	1,5 ÷ 8			18	43	↑	0,122	G-6866	DE-...	
Electrical			Electrical	5	670	1,5 ÷ 9	14	17	↑	0,190	GH-684424	-
	↑ = Impulse not protruding											



GH... Series



G... Series

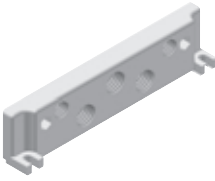
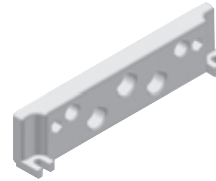
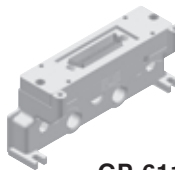
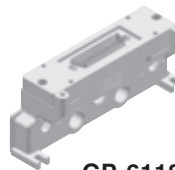
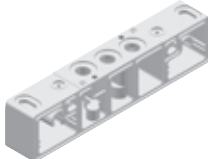
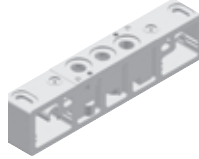
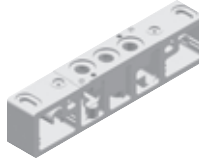
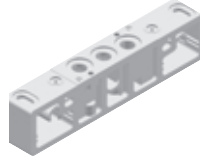
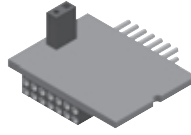
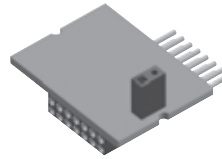
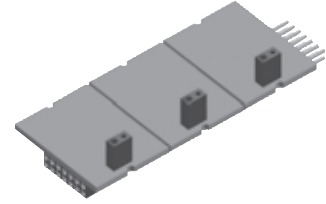



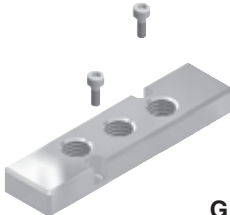
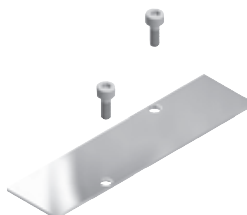


- 1 Supply G 1/4
- 3-5 Exhaust G 1/4
- 84-82 Exhaust solenoid G 1/8


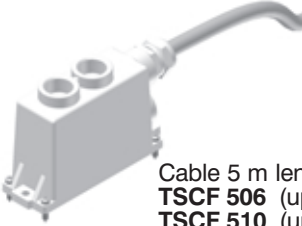

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<http://www.housengj.com>

- 1 Supply G 1/4
- 5-3/3-5 Exhaust G 1/4
- 82-84/84-82 Exhaust solenoid G 1/8



<p>Threaded end plates Mass kg. 0,046</p>  <p>GP-6100</p>	<p>Blank end plate Mass kg. 0,050</p>  <p>GP-6110</p>	<p>End plate with male connector 25 poles (excluded G series)</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="715 264 986 544"> <p>Mass kg. 0,100</p>  <p>GP-611212 12+12 coils control 12-14</p> </div> <div data-bbox="1114 264 1422 544"> <p>Mass kg. 0,102</p>  <p>GP-611806 18 (coils) control 14 6 (coils) control 12</p> </div> </div> <p style="text-align: right;">(only fol control 14 more than 12 coils max. 18)</p>	
<p>Sub-base with diaphragms all open Mass kg. 0,060</p>  <p>GP-6310 without electrical connection prearranged for integrated electrical connection: GP-6311 monostable GP-6312 bistable</p>	<p>Sub-base with diaphragms all closed Mass kg. 0,062</p>  <p>GP-6320 without electrical connection prearranged for integrated electrical connection: GP-6321 monostable GP-6322 bistable</p>	<p>Sub-base with supply closed and exhausts open Mass kg. 0,062</p>  <p>GP-6330 without electrical connection prearranged for integrated electrical connection: GP-6331 monostable GP-6332 bistable</p>	<p>Sub-base with supply open and exhausts closed Mass kg. 0,062</p>  <p>GP-6340 without electrical connection prearranged for integrated electrical connection: GP-6341 monostable GP-6342 bistable</p>
<p>BUS connection card (excluded G series) Mass kg. 0,003 for each place</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="239 1198 430 1332">  <p>control side 12 with 12 pin GP-6512-01 MF (1 place) GP-6512-02 MF (2 places) GP-6512-03 MF (3 places) GP-6512-05 MF (5 places) GP-6512-06 MF (6 places)</p> </div> <div data-bbox="678 1187 901 1344">  <p>control side 14 with 12 pin GP-6514-01 MF (1 place) GP-6514-02 MF (2 places) GP-6514-03 MF (3 places) GP-6514-05 MF (5 places) GP-6514-06 MF (6 places)</p> </div> <div data-bbox="1069 1142 1396 1344">  <p>control side 14 with 18 pin GP-651418 (only 12 places)</p> <p>For manifold assemblies with control 14 with more than 12 coils up to 18 coils use card GP-651418 and then GP-6514-...</p> </div> </div> <p>A richiesta soluzioni personalizzate fino a 12 posti</p>			
<p>Modular tie-rods (package 100 pcs.)</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="135 1668 399 1758"> <p>GP-6400-1 1 valve places Mass kg. 0,004</p>  </div> <div data-bbox="542 1668 845 1758"> <p>GP-6400-2 2 valve places Mass kg. 0,010</p>  </div> <div data-bbox="997 1668 1444 1803"> <p>GP-6400-5 5 valve place Mass kg. 0,022</p>  </div> </div> <p>AZ4-VN0416 screw M04x16 for tie-rods package 100 pcs. AZ4-SN004A hexagonal nut M4 package 100 pcs.</p>			
<p>Intermediate supply plate Mass kg. 0,036</p>  <p>GP-6380</p> <p>To be used only with sub-bases GP-63...</p>	<p>Closing plate for unused station Mass kg. 0,018</p>  <p>GP-6385</p>		



<p>Connectors without cable</p>  <p style="text-align: center;">TSCF 000</p>	<p>Flying female connector sub D single cable according to CEI 20-22 II O.R. standard</p>  <p>Cable 5 m length TSCF 506 (up to 6 coils) TSCF 510 (up to 10 coils) TSCF 520 (up to 20 coils) Cable 10 m length TSCF 106 (up to 6 coils) TSCF 110 (up to 10 coils) TSCF 120 (up to 20 coils)</p>	<p>Flying female connector sub D double cable according to CEI 20-22 II O.R. standard (upon request)</p>  <p>Cable 5 m length TSCF 533 (3+3 coils) TSCF 555 (5+5 coils) TSCF 511 (10+10 coils) Cable 10 m length TSCF 133 (3+3 coils) TSCF 155 (5+5 coils) TSCF 111 (10+10 coils)</p>
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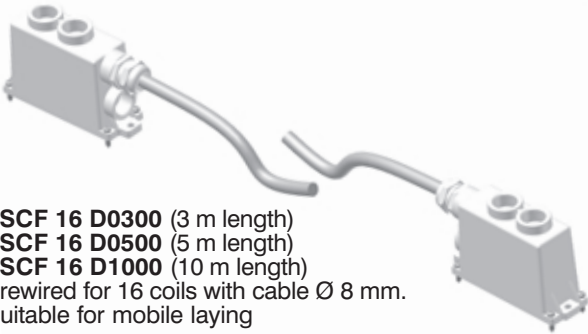
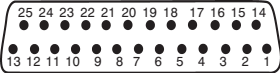
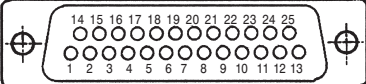
<p>Flying female connector sub D according to CEI 20-22 II O.R. standard</p>  <p>TSCF 16 S0300 (3 m length) TSCF 16 S0500 (5 m length) TSCF 16 S1000 (10 m length) Prewired for 18 coils with cable Ø 8 mm. Suitable for mobile laying</p> <p>Upon request TSCF 24 S0300 TSCF 24 S0500 TSCF 24 S1000 Prewired for 24 coils</p>	<p>Flying male/female connector sub D according to CEI 20-22 II O.R. standard</p>  <p>TSCF 16 D0300 (3 m length) TSCF 16 D0500 (5 m length) TSCF 16 D1000 (10 m length) Prewired for 16 coils with cable Ø 8 mm. Suitable for mobile laying</p>
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Table relating to electric connections

Manifold side PIN-coil matching					Cable side PIN-cable colour matching										
 <p>Male connector</p>					 <p>Female connector</p>										
PIN num	coil	Coil operation				Cable colours									
		side 14	side 12	side 14	side 12	CN1 Pin	Function TSCF24S	TSCF24S	Function TSCF16_	TSCF16S TSCF16D	Function TSCF5_	TSCF520 up to 20 coils	TSCF510 up to 10 coils	TSCF506 up to 6 coils	
1	1	1	-	1	-	1	signal 1	white	signal 1	white	signal 1	white	white	white	
2	2	-	2	-	2	2	signal 2	brown	signal 2	brown	signal 2	brown	brown	brown	
3	3	3	-	3	-	3	signal 3	green	signal 3	green	signal 3	green	green	green	
4	4	-	4	-	4	4	signal 4	grey	signal 4	grey	signal 4	yellow	yellow	yellow	
5	5	5	-	5	-	5	signal 5	pink	signal 5	pink	signal 5	grey	grey	grey	
6	6	-	6	-	6	6	signal 6	blue	signal 6	blue	signal 6	pink	pink	pink	
7	7	7	-	7	-	7	signal 7	violet	signal 7	violet	signal 7	blue	blue	-	
8	8	-	8	-	8	8	signal 8	grey-pink	signal 8	grey-pink	signal 8	red	red	-	
9	9	9	-	9	-	9	signal 9	red-blue	signal 9	red-blue	signal 9	black	black	-	
10	10	-	10	-	10	10	signal 10	white-green	signal 10	white-green	signal 10	violet	violet	-	
11	11	11	-	11	-	11	signal 11	brown-green	signal 11	brown-green	signal 11	grey-pink	-	-	
12	12	-	12	-	12	12	signal 12	white-yellow	signal 12	white-yellow	signal 12	red-blue	-	-	
13	13	13	-	13	-	13	signal 13	yellow-brown	signal 13	yellow-brown	signal 13	white-green	-	-	
14	14	-	14	14	-	14	signal 14	white-grey	signal 14	white-grey	signal 14	brown-green	-	-	
15	15	15	-	15	-	15	signal 15	grey-brown	signal 15	grey-brown	signal 15	white-yellow	-	-	
16	16	-	16	16	-	16	signal 16	white-pink	signal 16	white-pink	signal 16	yellow-brown	-	-	
17	17	17	-	17	-	17	signal 17	pink-brown	signal 17	pink-brown	signal 17	white-grey	-	-	
18	18	-	18	18	-	18	signal 18	white-blue	signal 18	white-blue	signal 18	grey-brown	-	-	
19	19	19	-	19	-	19	signal 19	black-white	com. GND	black	signal 19	white-pink	-	-	
20	20	-	20	20	-	20	signal 20	yellow			signal 20	pink-brown	-	-	
21	21	21	-	21	-	21	signal 21	red	-	red	-	n.c.	-	-	
22	22	-	22	22	-	22	signal 22	brown-blue	-		-	n.c.	-	-	
23	23	23	-	23	-	23	signal 23	brown-red	com. GND	yellow	com. GND	white-red	grey-pink	blue	
24	common	n.c.	n.c.	n.c.	-	24	com. GND	black-shield			com. GND	brown-red	red-blue	red	
25	24	-	24	24	-	25	signal 24	white-red	shield	shield	shield	shield	shield	shield	

n.c. = not connected.