

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Казахстан (772)734-952-31

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Россия (495)268-04-70

Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

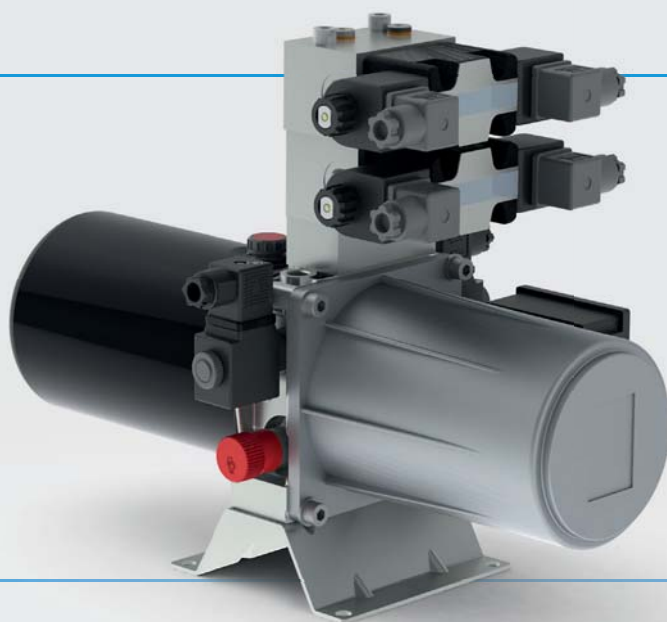
<https://danabrevini.nt-rt.ru/> || dnp@nt-rt.ru



BREVINI®

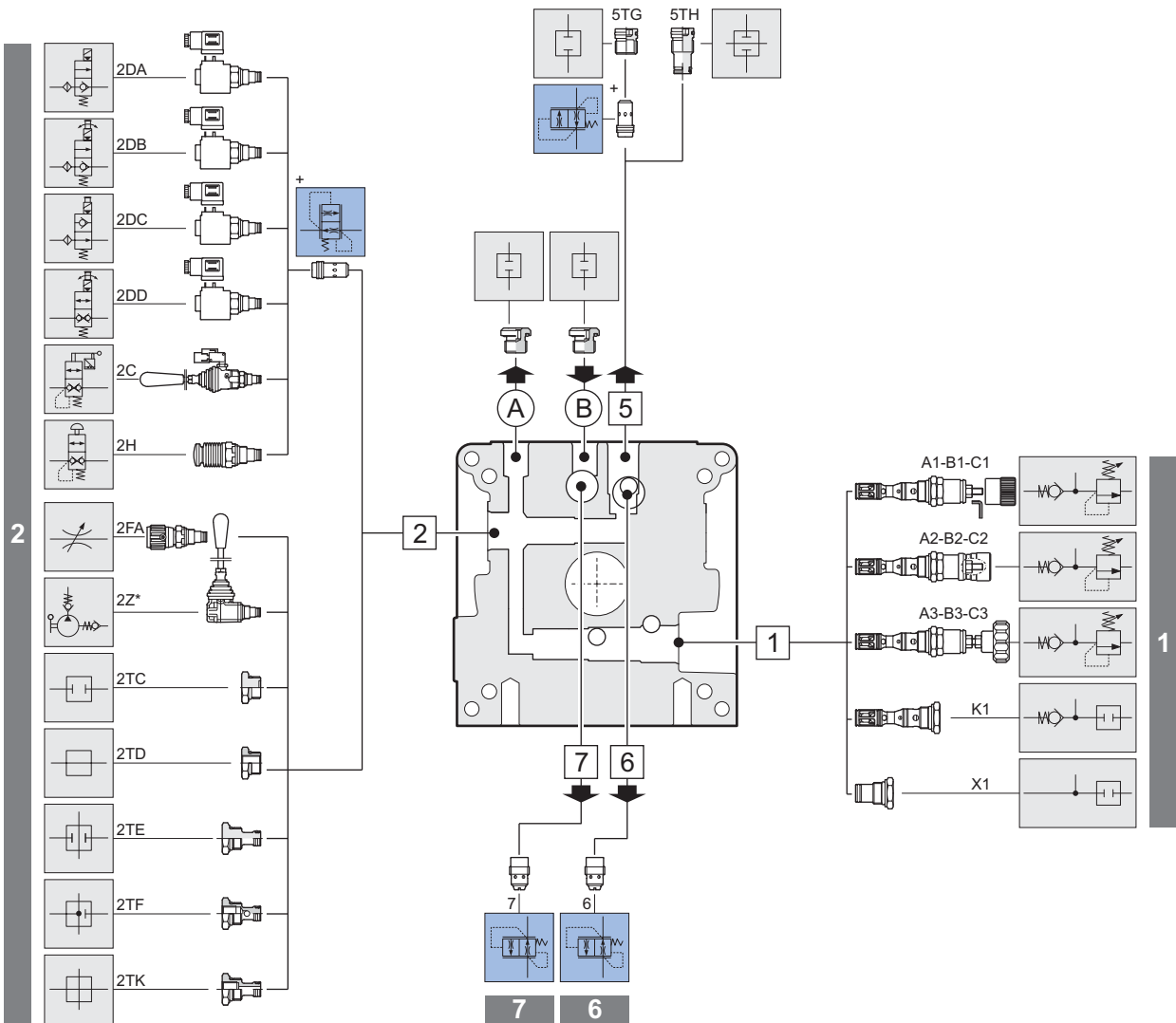
Motion Systems

FP HYDRAULIC POWER PACK

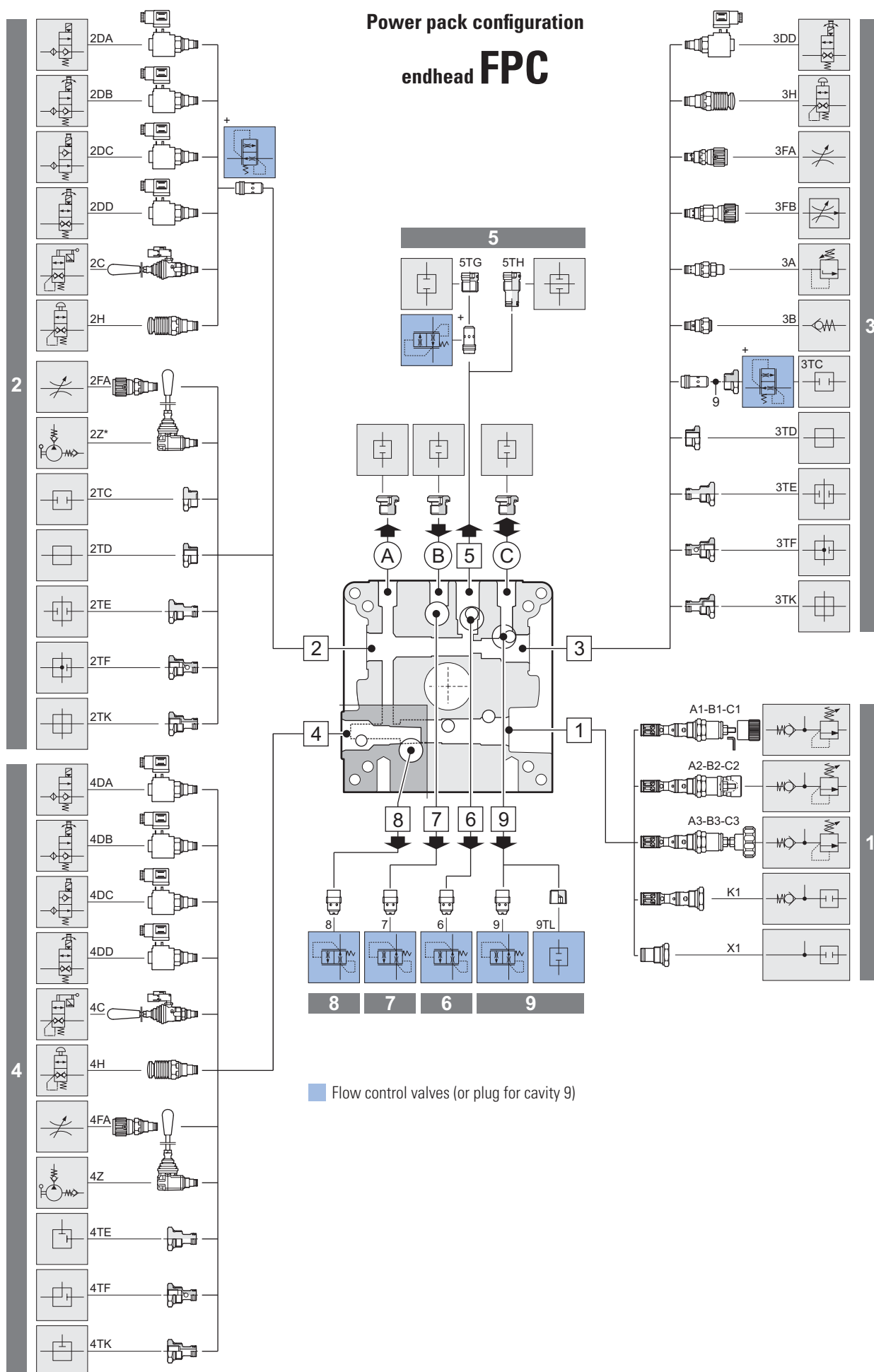


Power pack configuration

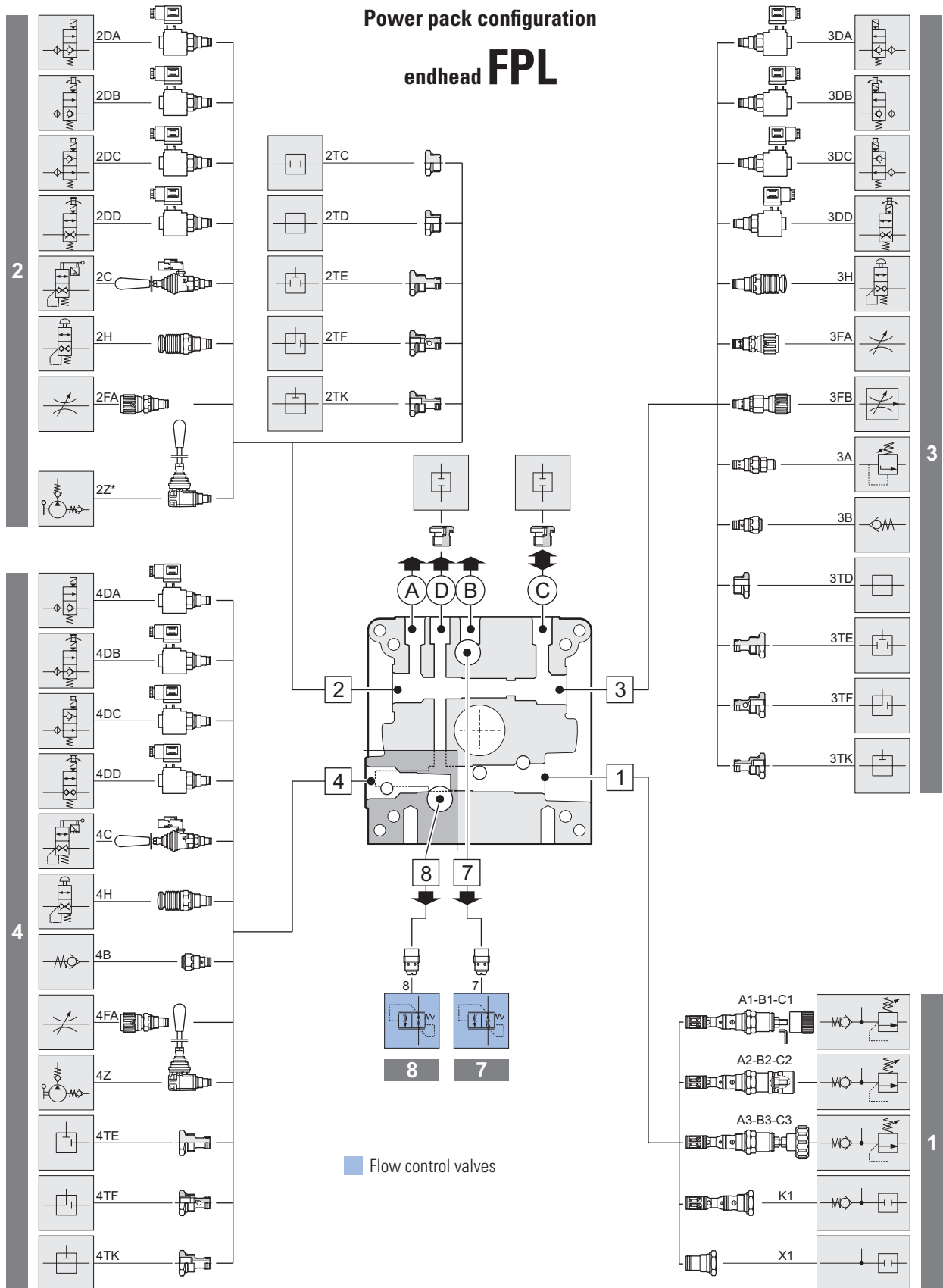
endhead **FPA**



Flow control valves



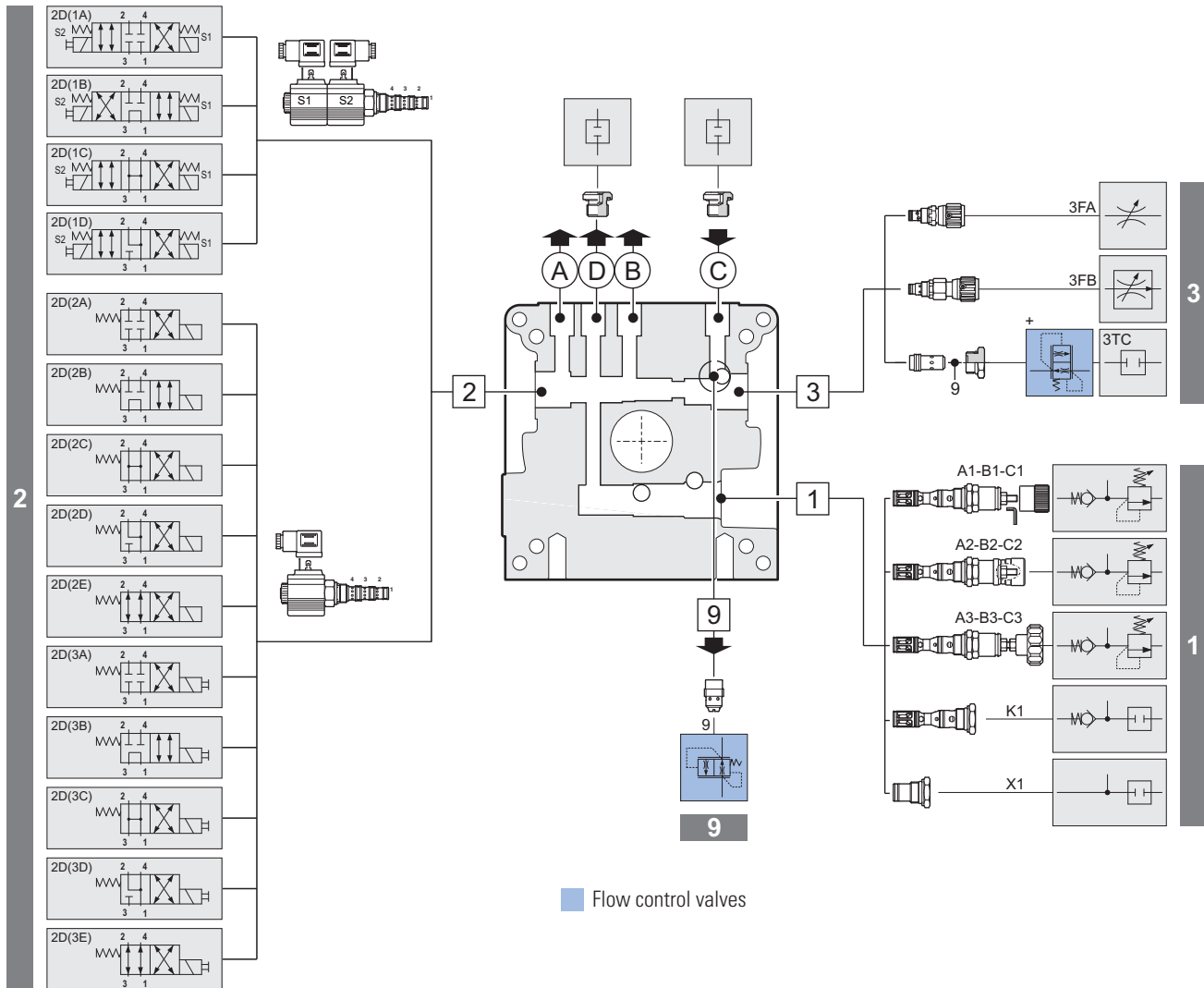
Endhead configuration



Power pack configuration

endhead **FPE**

(for directional control valves)



Endhead overall dimensions

Cavities on endhead:

Cavity	Thread	Endhead type			
		FPA	FPC	FPL	FPE
A Ports	G1/4" (1) G3/8" (2)	•	•	•	•
B Ports	G1/4" (1) G3/8" (2)	•	•	•	•
C Ports	G1/4" (1) G3/8" (2)	—	•	•	•
D Ports	G1/4" (1)	—	—	•	•
1 Peripheral	3/4" 16 UNF	•	•	•	•
2 Peripheral	3/4" 16 UNF	•	•	•	•
3 Peripheral	3/4" 16 UNF	—	•	•	•
4 Peripheral	3/4" 16 UNF	—	•	•	—
5 Peripheral (2)	M16x1.5	•	•	—	—
6 Return	G3/8"	•	•	—	—
7 Return	G3/8"	•	•	•	—
8 Return	G3/8"	—	•	•	—
9 Return	G3/8"	—	•	—	•

1) blocks interface

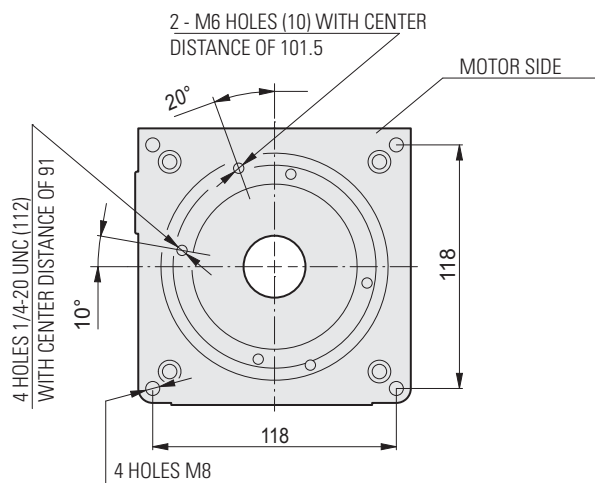
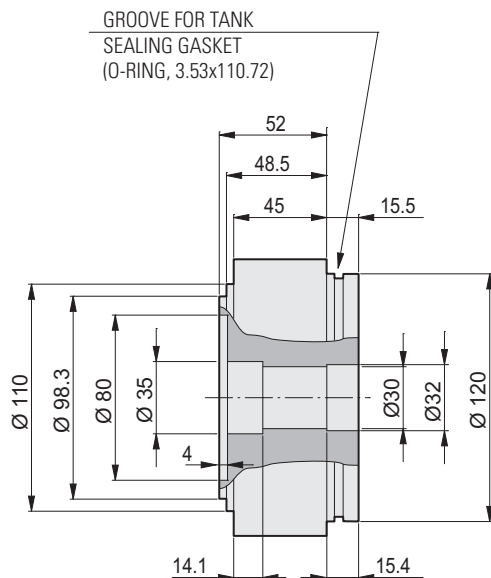
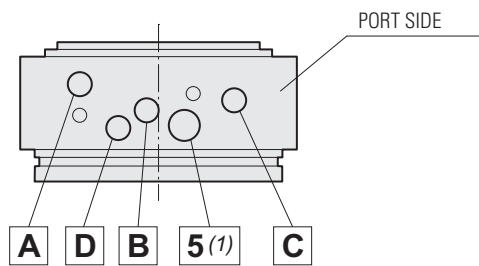
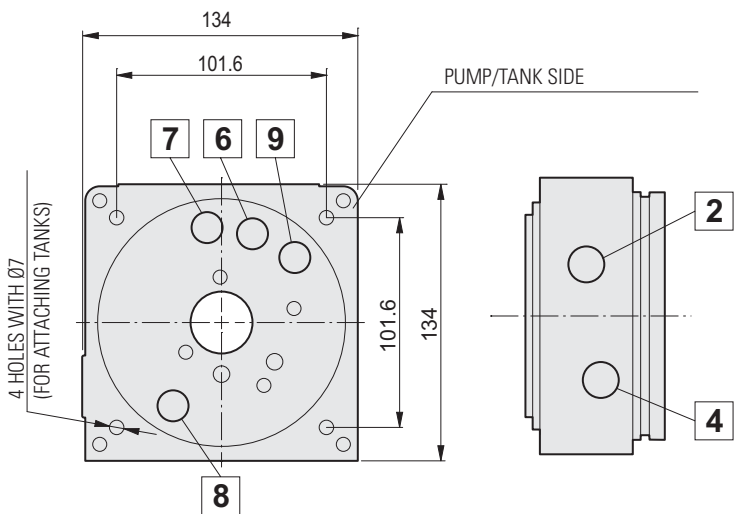
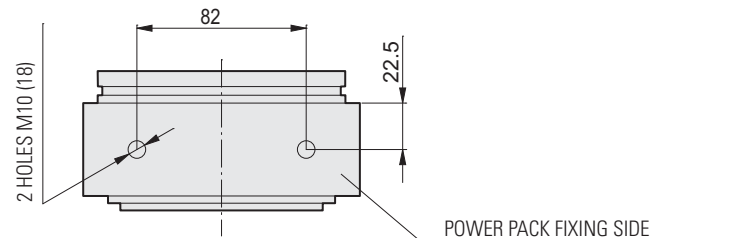
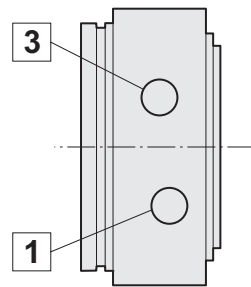
2) available only for FPA - FPC endhead

3) the cavity 5 is not accessible with blocks mounted (section IX).

The number of cavities tooled identify the endhead type:

There are three types of cavities:

- **Peripheral cavities**, which can be accessed externally
- **Return cavities**, inside of the tank.
- **Ports**

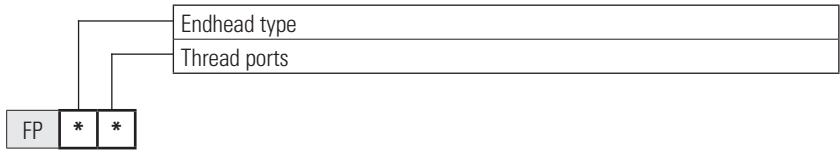


The cavities (1-2-3-4-5) and the ports (A-B-C) are marked on the die-cast endhead. The dimensions on the drawing are the same for all endhead.

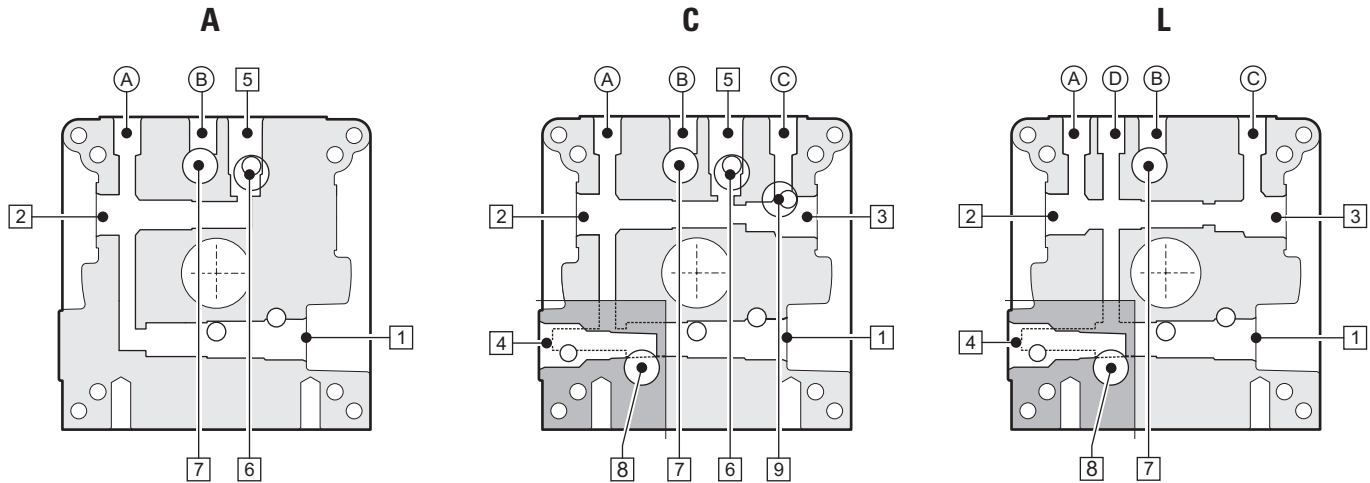
Cavities dimensions

Cavity		Thread	Drawing
1	Peripheral	3/4 16 UNF	CD018013
2	Peripheral (FPA-FPC)	3/4 16 UNF	CD018009
2	Peripheral (FPE)	3/4 16 UNF	CD018001
3	Peripheral	3/4 16 UNF	CD018014
4	Peripheral	3/4 16 UNF	CD018014
5	Peripheral	M16x1.5	
6	Return	G3/8	
7	Return	G3/8	
8	Return	G3/8	
9	Return	G3/8	

Endhead choice

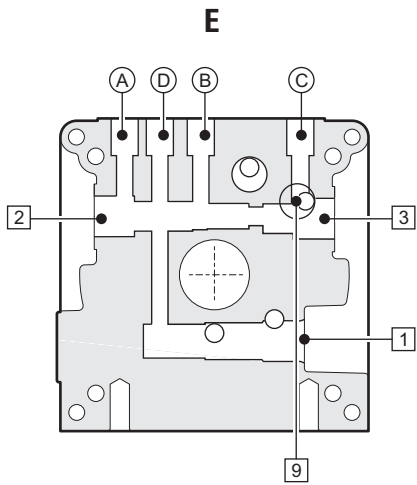


FP



* Endhead type

*	Ports	Peripheral	Return
A	n. 2 (A - B)	n. 3 (1 - 2 - 5)	n. 2 (6 - 7)
C	n. 3 (A - B - C)	n. 5 (1 - 2 - 3 - 4 - 5)	n. 4 (6 - 7 - 8 - 9)
L	n. 4 (A - B - C - D)	n. 4 (1 - 2 - 3 - 4)	n. 2 (7 - 8)
E	n. 4 (A - B - C - D)	n. 3 (1 - 2 - 3)	n. 1 (9)



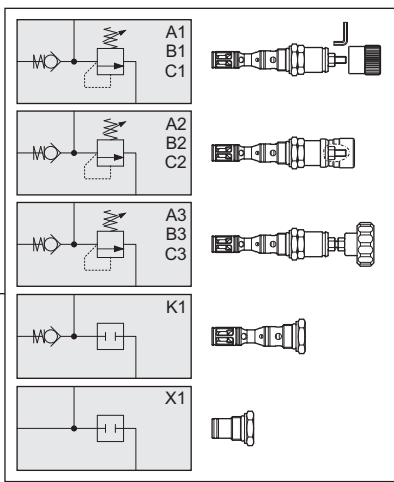
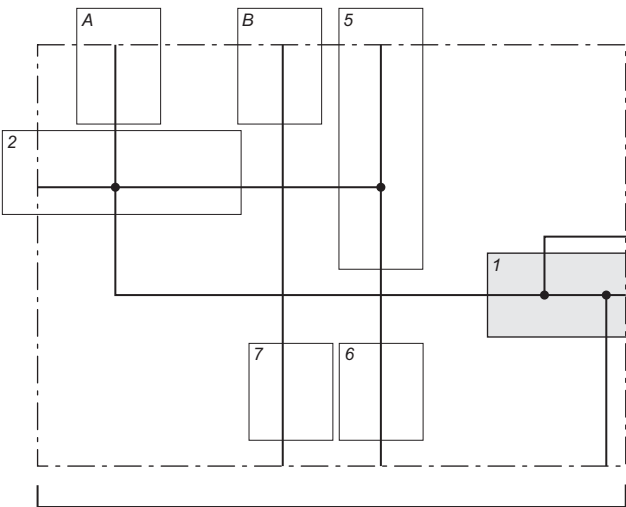
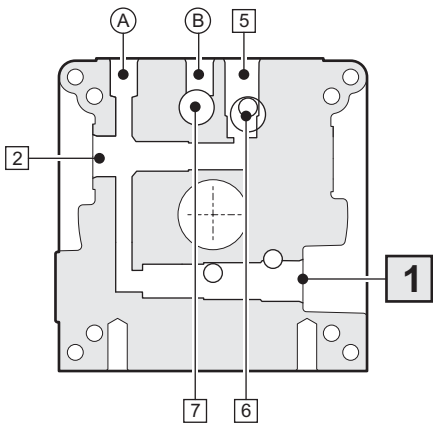
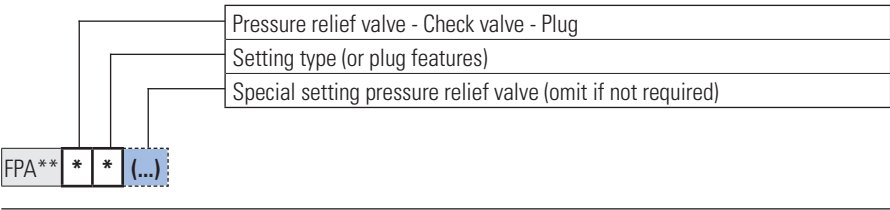
* Thread ports

*	Ports thread		Blocks interface
	G1/4"	G3/8"	
0	YES		YES
1		YES	NO

Endhead codes		
	G1/4"	G3/8"
FPA	78013010.000	78013011.000
FPC	78013014.000	78013015.000
FPL	78013022.000	
FPE	78013016.000	

Sect. I - FPA Cavity 1

FPA
I



* * (...) Pressure relief valve with check valve

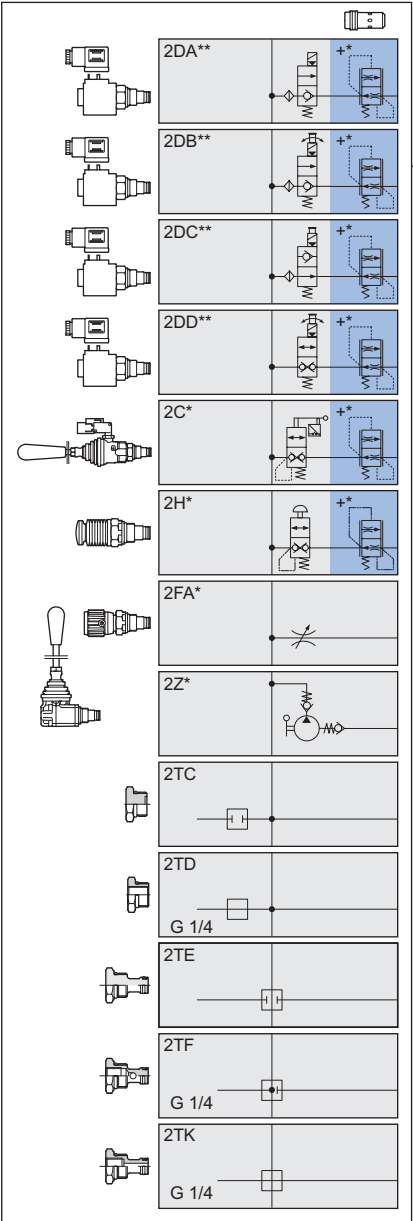
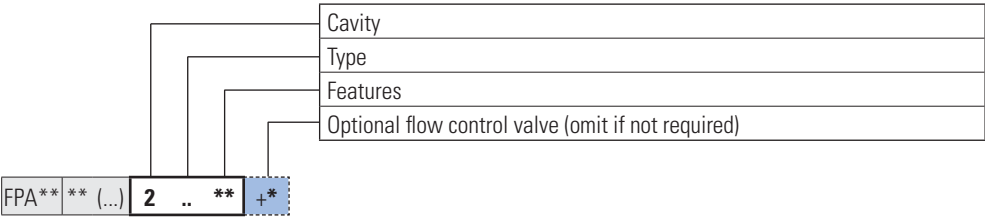
*	*	Pressure (bar)	STD setting (bar)	(...) Special setting (bar)	Setting type	Code	Symbol	Drawing
A	1	10 ÷ 60	50	10 ÷ 60 (5 to 5)	Detachable closing	CMPR04S01001		1
	2				Non removable closing (1)	CMPR04P01001		
	3				Handwheel	CMPR04V01001		
B	1	> 60 ÷ 180	150	65 ÷ 180 (5 to 5)	Detachable closing	CMPR04S02001		2
	2				Non removable closing (1)	CMPR04P02001		
	3				Handwheel	CMPR04V02001		
C	1	> 180 ÷ 320	210	190 ÷ 320 (10 to 10)	Detachable closing	CMPR04S03001		3
	2				Non removable closing (1)	CMPR04P03001		
	3				Handwheel	CMPR04V03001		

1 = Supplied assembled. Unassembled, see accessories page 89.

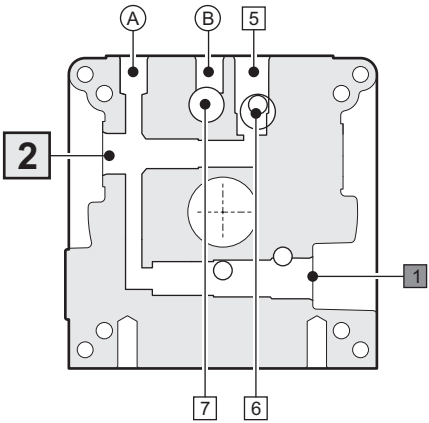
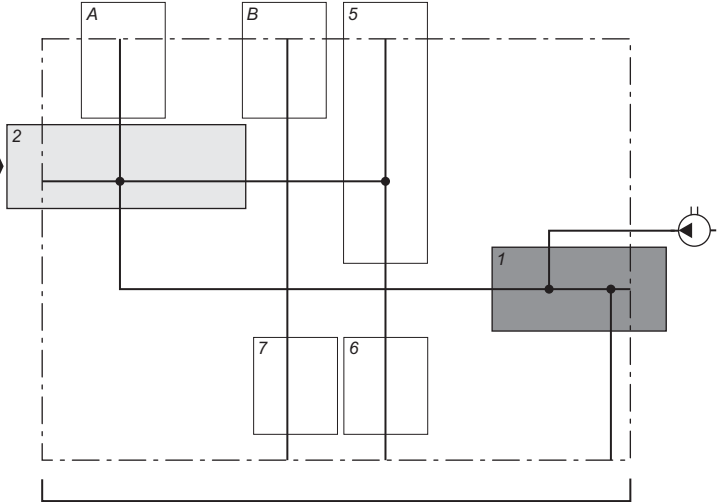
* * Check valve and plug

*	*	Description	Code	Symbol	Drawing
K	1	Check valve - Opening pressure 0.5 bar	CR10400001		
X	1	Plug	R78150100		

Sect. II - FPA Cavity 2



Optional flow control valves



Sect. II - FPA Cavity 2

2 DA ** *Piloted solenoid valves normally closed, without emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NCASL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NCASM003 + V86050002		
AC	Voltage 24 Vac 50 Hz	CRP0418NCASA003 + V86050002		
AD	Voltage 115 Vac 50 Hz	CRP0418NCASJ003 + V86050002		
AE	Voltage 230 Vac 50 Hz	CRP0418NCASI003 + V86050002		

2 DB ** *Piloted solenoid valves normally closed, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NCAEL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NCAEL003 + V86050002		
AC	Voltage 24 Vac 50 Hz	CRP0418NCAEA003 + V86050002		
AD	Voltage 115 Vac 50 Hz	CRP0418NCAEJ003 + V86050002		
AE	Voltage 230 Vac 50 Hz	CRP0418NCAEI003 + V86050002		

2 DC ** *Piloted solenoid valves normally open, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NAAEL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NAAEM003 + V86050002		
AC	Voltage 24 Vac 50/60 Hz (RAC with rectifier)	CRP0418NAAE2003 + V86200002		
AD	Voltage 115 Vac 50 - 120 Vac 60 Hz (RAC with rectifier)	CRP0418NAAEZ003 + V86200002		
AE	Voltage 230 Vac 50 - 240 Vac 60 Hz (RAC with rectifier)	CRP0418NAAEX003 + V86200002		
AF	Voltage 48 Vdc	CRP0418NAAEN003 + V86050002		

2 DD ** *Direct operated solenoid valves normally closed, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRD0418NCAEL002 + V86050002		
AB	Voltage 24 Vdc	CRD0418NCAEM002 + V86050002		

2 C * *Lever operated valve*

**	Description	Code	Symbol	Drawing
A	Without microswitch	CMF04L001		
B	With microswitch	CMF04M001		

2 H * **Button operated valves**

**	Description	Code	Symbol	Drawing
A	Push-button control	CPE04P0001		

2 .. ** **Flow control valves (1)**

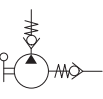
*	Flow	Code	Symbol	Drawing
+B	1.4 l/min	VSC040101		
+C	2.3 l/min	VSC040201		
+E	2.8 l/min	VSC040301		
+G	4.3 l/min	VSC040401		
+J	5.2 l/min	VSC040601		
+L	6.5 l/min	VSC040801		
+N	8.0 l/min	VSC041101		
+Q	11.1 l/min	VSC041601		

(1) The flow control valves can be installed with solenoid valves, with manual controls and with push-button valves.

2 FA * **Bidirectional flow control valves not compensated**

*	Description	Code	Symbol	Drawing
A	Screw adjustment	CSB04C0000		
B	Plastic knob adjustment	CSB04V0000		

2 Z * **Hand pumps**

*	Description	Code	Symbol	Drawing
A	Displacement 1 cc	CPM0410001		
B	Displacement 2 cc	CPM0420001		

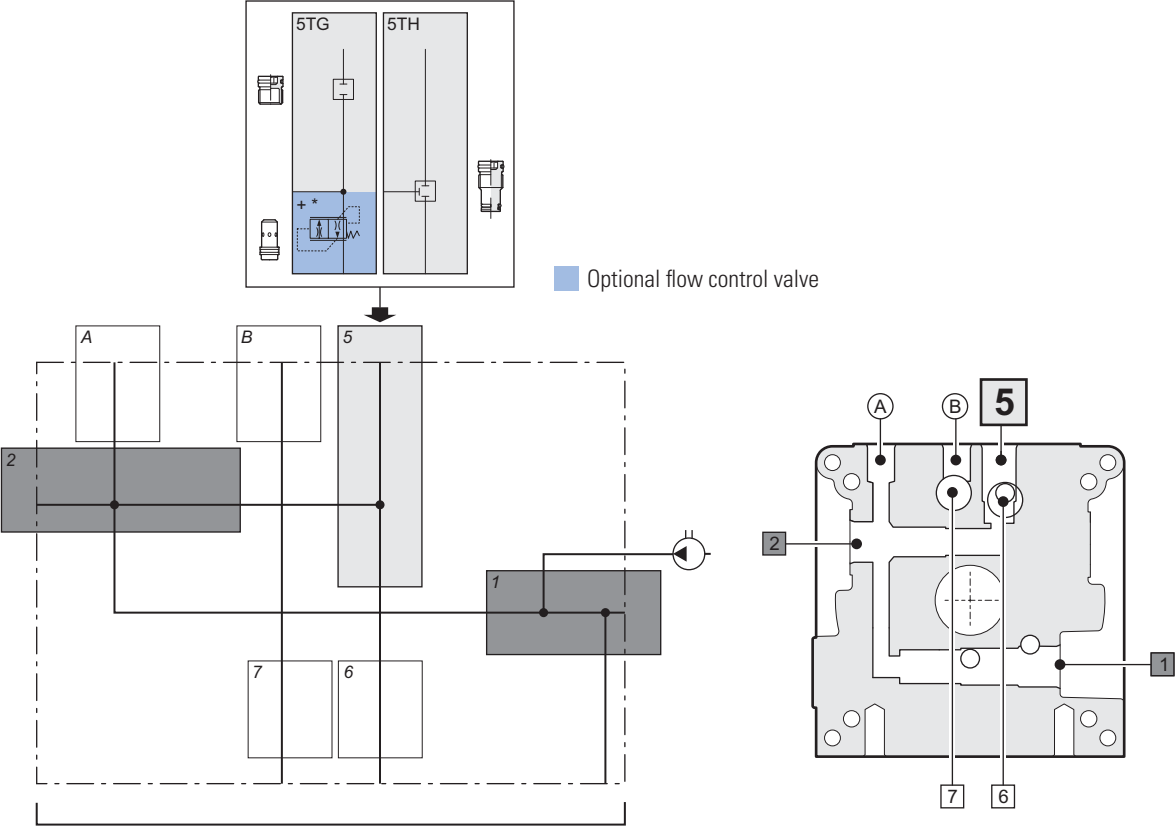
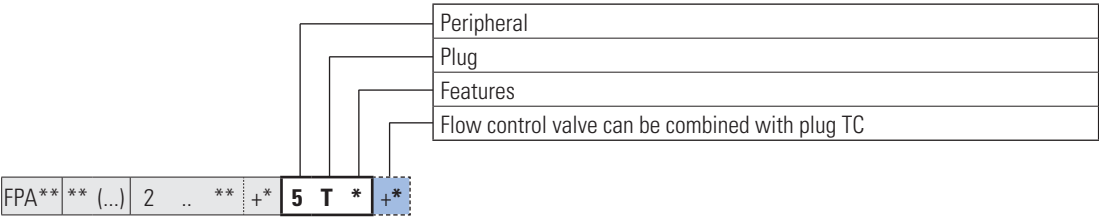
2 T * **Plugs and fittings**

*	Description	Code	Symbol	Drawing
C	Plug 3/4 16 UNF	R78150099		
D	Fitting 3/4 16 UNF - G1/4	20001700		
E	Long plug 3/4 16 UNF	20003800		
F	Fitting 3/4 16 UNF - G1/4	20009400		
K	Fitting 3/4 16 UNF DIN - G1/4	20018000		

Sect. II - FPA Cavity 5

FPA

II



5 T * **Plugs**

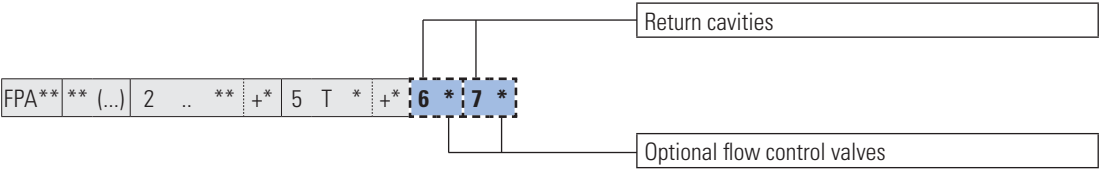
*	Description	Code	Symbol	Drawing
G	Plug M16x1,5 (1)	R78150104		
H	Long plug M16x1,5	R78150101		

5 T G **Flow control valves (1)**

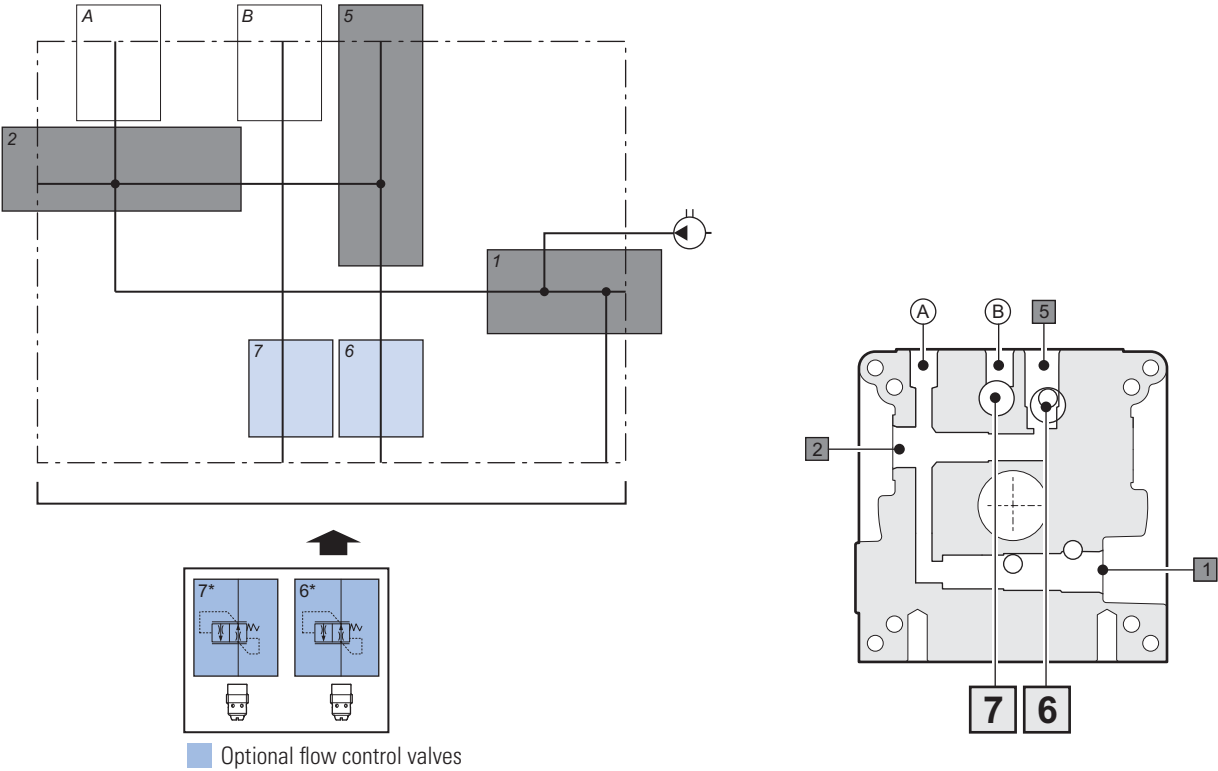
*	Flow	Code	Symbol	Drawing
+B	1.4 l/min	VSC040101		
+C	2.3 l/min	VSC040201		
+E	2.8 l/min	VSC040301		
+G	4.3 l/min	VSC040401		
+J	5.2 l/min	VSC040601		
+L	6.5 l/min	VSC040801		
+N	8.0 l/min	VSC041101		
+Q	11.1 l/min	VSC041601		

(1) Flow control valves can be combined with plug TG.

Sect. II - FPA Cavities 6-7



Return cavity, omit if not required flow control valves



6 *
7

Flow control valves for return cavities "6-7"

*	Nominal flow at 120 bar	Code	Symbol	Drawing
A	0.7 l/min	VSC06100002		
B	1.1 l/min	VSC06120002		
C	2.1 l/min	VSC06130002		
E	3.2 l/min	VSC06150002		
G	4.7 l/min	VSC06190002		
K	6.3 l/min	VSC06220002		
N	7.5 l/min	VSC06240002		
Q	10.0 l/min	VSC06280002		
U	13.2 l/min	VSC06330002		
V	15.7 l/min	VSC06350002		

Sect. II - FPA Ports A-B

Possible combinations plugs on ports

End section II

FPA**

** (...)

2 ..

** +*

5 T *

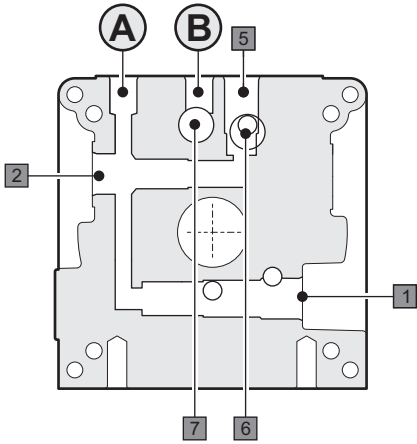
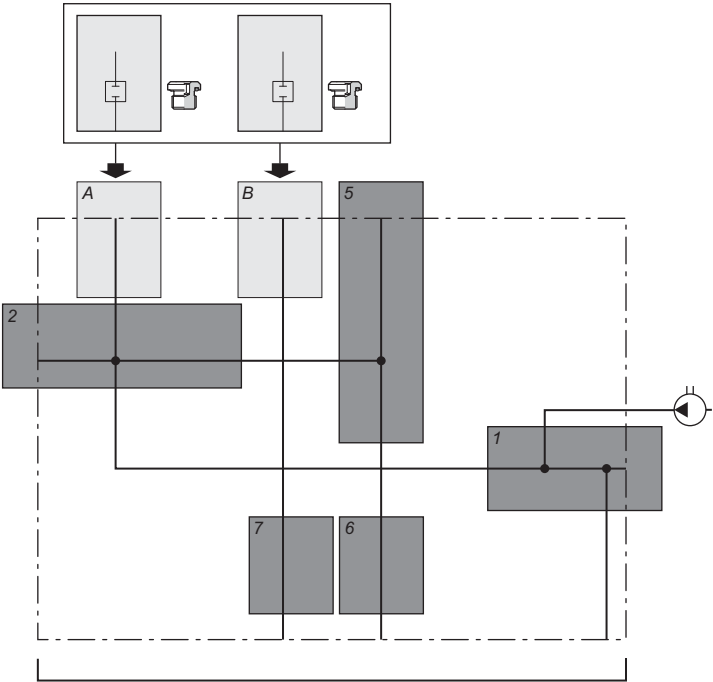
+*

6 *

7 *

_***

-



_***

Possible combinations plugs on ports A-B

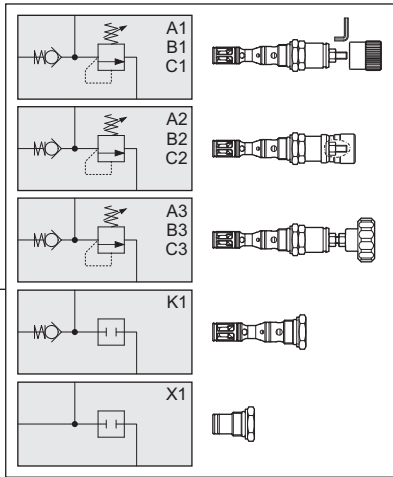
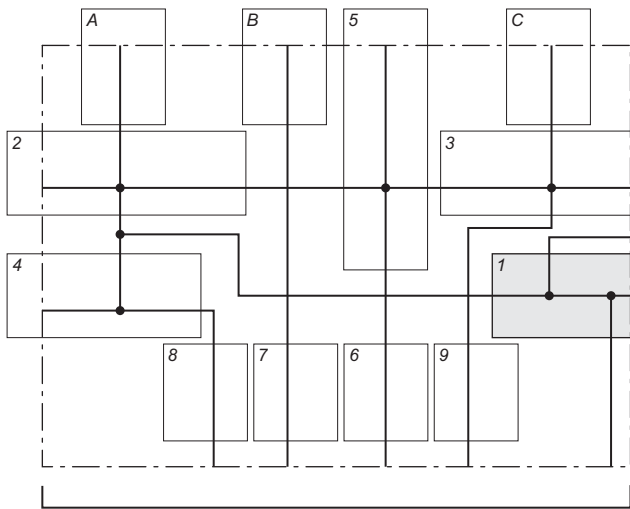
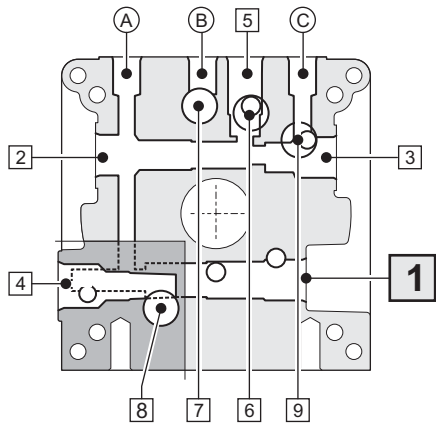
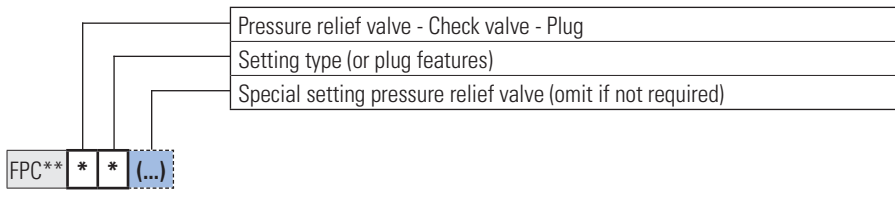
_***	A	B
-00	↑	↑
-02	⊗	↑
-03	↑	⊗
-06	⊗	⊗

Symbols description

Type	Description	Thread	Code	Symbol	Drawing
⊗	Port closed with plug	G 1/4"	20024000		
		G 3/8"	Q26630006 (plug with OR)		
↑	Open port		—	—	—

Combination -00 to use with the standard blocks (page 85)

Sect. I - FPC Cavity 1



FPC
I

* (...) Pressure relief valve with check valve

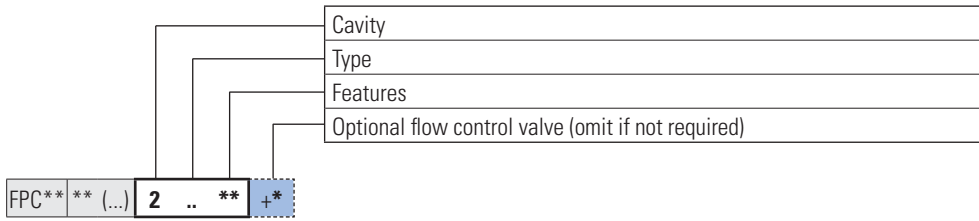
*	*	Pressure (bar)	STD setting (bar)	(...) Special setting (bar)	Setting type	Code	Symbol	Drawing
A	1	10 ÷ 60	50	10 ÷ 60 (5 to 5)	Detachable closing	CMPR04S01001		
	2				Non removable closing (1)	CMPR04P01001		
	3				Handwheel	CMPR04V01001		
B	1	> 60 ÷ 180	150	65 ÷ 180 (5 to 5)	Detachable closing	CMPR04S02001		
	2				Non removable closing (1)	CMPR04P02001		
	3				Handwheel	CMPR04V02001		
C	1	> 180 ÷ 320	210	190 ÷ 320 (10 to 10)	Detachable closing	CMPR04S03001		
	2				Non removable closing (1)	CMPR04P03001		
	3				Handwheel	CMPR04V03001		

1 = Supplied assembled. Unassembled, see accessories page 89.

* * Check valve and plug

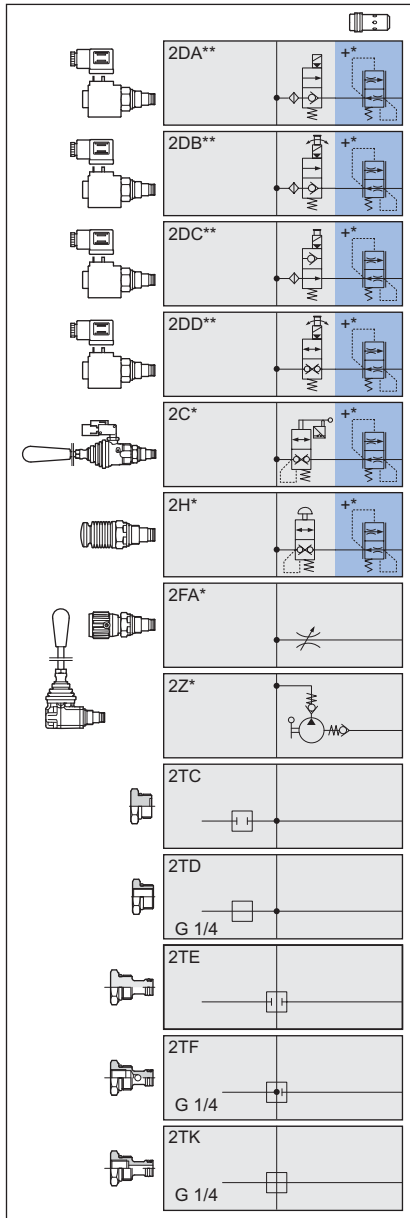
*	*	Description	Code	Symbol	Drawing
K	1	Check valve - Opening pressure 0.5 bar	CR10400001		
X	1	Plug	R78150100		

Sect. II - FPC Cavity 2

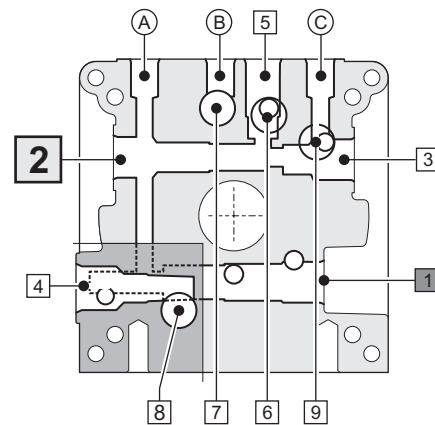
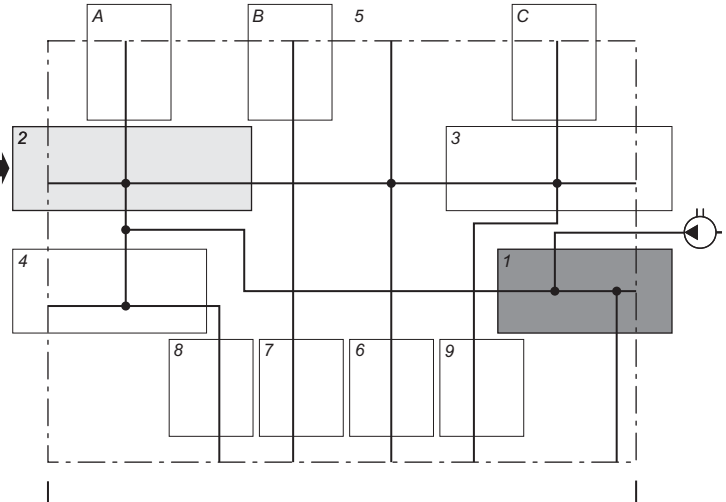


FPC

II



Optional flow control valves



2 DA ** *Piloted solenoid valves normally closed, without emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NCASL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NCASM003 + V86050002		
AC	Voltage 24 Vac 50 Hz	CRP0418NCASA003 + V86050002		
AD	Voltage 115 Vac 50 Hz	CRP0418NCASJ003 + V86050002		
AE	Voltage 230 Vac 50 Hz	CRP0418NCASI003 + V86050002		

2 DB ** *Piloted solenoid valves normally closed, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NCAEL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NCAEL003 + V86050002		
AC	Voltage 24 Vac 50 Hz	CRP0418NCAEA003 + V86050002		
AD	Voltage 115 Vac 50 Hz	CRP0418NCAEJ003 + V86050002		
AE	Voltage 230 Vac 50 Hz	CRP0418NCAEI003 + V86050002		

2 DC ** *Piloted solenoid valves normally open, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NAAEL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NAAEM003 + V86050002		
AC	Voltage 24 Vac 50/60 Hz (RAC with rectifier)	CRP0418NAAE2003 + V86200002		
AD	Voltage 115 Vac 50 - 120 Vac 60 Hz (RAC with rectifier)	CRP0418NAAEZ003 + V86200002		
AE	Voltage 230 Vac 50 - 240 Vac 60 Hz (RAC with rectifier)	CRP0418NAAEX003 + V86200002		
AF	Voltage 48 Vdc	CRP0418NAAEN003 + V86050002		

2 DD ** *Direct operated solenoid valve normally closed, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRD0418NCAEL002 + V86050002		
AB	Voltage 24 Vdc	CRD0418NCAEM002 + V86050002		

2 C * *Lever operated valve*

**	Description	Code	Symbol	Drawing
A	Without microswitch	CMF04L001		
B	With microswitch	CMF04M001		

Sect. II - FPC Cavity 2

2 H * **Button operated valves**

**	Description	Code	Symbol	Drawing
A	Push-button control	CPE04P000.1		

2 .. ** **Flow control valves (1)**

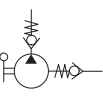
*	Flow	Code	Symbol	Drawing
+B	1.4 l/min	VSC040101		
+C	2.3 l/min	VSC040201		
+E	2.8 l/min	VSC040301		
+G	4.3 l/min	VSC040401		
+J	5.2 l/min	VSC040601		
+L	6.5 l/min	VSC040801		
+N	8.0 l/min	VSC041101		
+Q	11.1 l/min	VSC041601		

(1) The flow control valves can be installed with solenoid valves, with manual controls and with push-button valves.

2 FA * **Bidirectional flow control valves not compensated**

*	Description	Code	Symbol	Drawing
A	Screw adjustment	CSB04C0000		
B	Plastic knob adjustment	CSB04V0000		

2 Z * **Hand pumps**

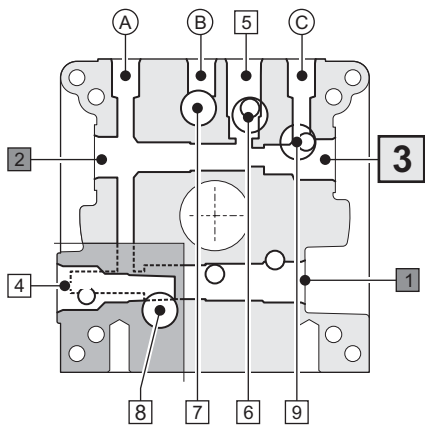
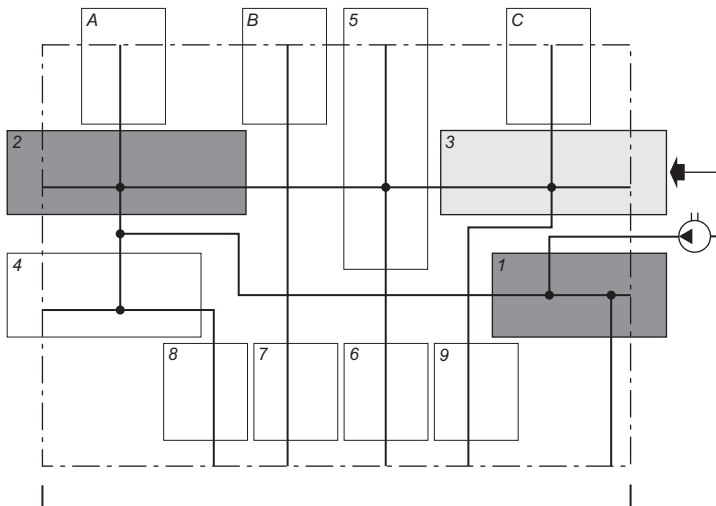
*	Description	Code	Symbol	Drawing
A	Displacement 1 cc	CPM0410001		
B	Displacement 2 cc	CPM0420001		

2 T * **Plugs and fittings**

*	Description	Code	Symbol	Drawing
C	Plug 3/4 16 UNF	R78150099		
D	Fitting 3/4 16 UNF - G1/4	20001700		
E	Long plug 3/4 16 UNF	20003800		
F	Fitting 3/4 16 UNF - G1/4	20009400		
K	Fitting 3/4 16 UNF DIN - G1/4	20018000		

Sect. II - FPC Cavity 3

FPC**	**	(...)	2	..	**	+	*	3	..	**	+	*
												Cavity
												Type
												Features
												Flow control valve can be combined with plug TC



3DD*		
3H*		
3FA*		
3FB*		
3A**		
3B*		
+ *		
3TC		
3TD		
3TE		
3TF		
3TK		

Optional flow control valves

Sect. II - FPC Cavity 3



BREVINI®
Motion Systems

3 DD ** *Piloted solenoid valves normally closed, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRD0418NCAEL002 + V86050002		
AB	Voltage 24 Vdc	CRD0418NCAEM002 + V86050002		

3 H * *Button operated valves*

**	Description	Code	Symbol	Drawing
A	Push-button control	CPE04P000.1		

3 FA * *Bidirectional flow control valves not compensated*

*	Description	Code	Symbol	Drawing
A	Screw adjustment	CSB04C0000		
B	Plastic knob adjustment	CSB04V0000		

3 FB * *Unidirectional flow control valves compensated*

*	Description	Code	Symbol	Drawing
A	Screw adjustment	CSC04C0000		
B	Plastic knob adjustment	CSC04V0000		

3 A ** *Pressure relief valves*

**	Description	Regolazione (bar)	Code	Symbol	Drawing
AA	Short screw adjustment	Min 10 - Max 70	CMP04E1001		
AB		Min 80 - Max 140	CMP04E2001		
AC		Min 100 - Max 330	CMP04E3001		
BA	Screw adjustment	Min 10 - Max 70	CMP04C1001		
BB		Min 80 - Max 140	CMP04C2001		
BC		Min 100 - Max 330	CMP04C3001		
CA	Plastic knob adjustment	Min 10 - Max 70	CMP04V1001		
CB		Min 80 - Max 140	CMP04V2001		
CC		Min 100 - Max 330	CMP04V3001		
DA	Short screw + sealed cap	Min 10 - Max 70	CMP04P1001		
DB		Min 80 - Max 140	CMP04P2001		
DC		Min 100 - Max 330	CMP04P3001		

Sect. II - FPC Cavity 3

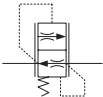
3 B * One-way check valves

*	Opening pressure	Code	Symbol	Drawing
A	0,7 bar (Standard)	CRU0400002		
B	4,5 bar	CRU0404002		
C	10 bar	CRU0410002		

3 T * Plugs and fittings

*	Description	Code	Symbol	Drawing
C	Plug 3/4 16 UNF (1)	R78150099		
D	Fitting 3/4 16 UNF - G1/4	20001700		
E	Long plug 3/4 16 UNF	20003800		
F	Fitting 3/4 16 UNF - G1/4	20009400		
K	Fitting 3/4 16 UNF - DIN G1/4	20018000		

3 T C +* Flow control valves (1)

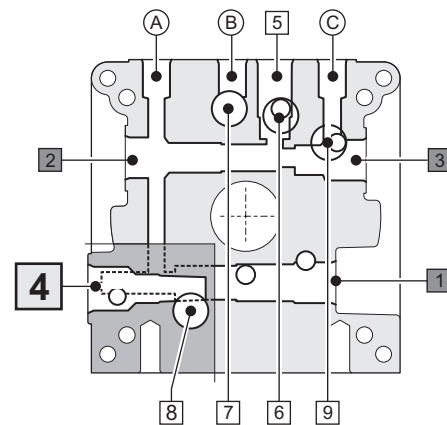
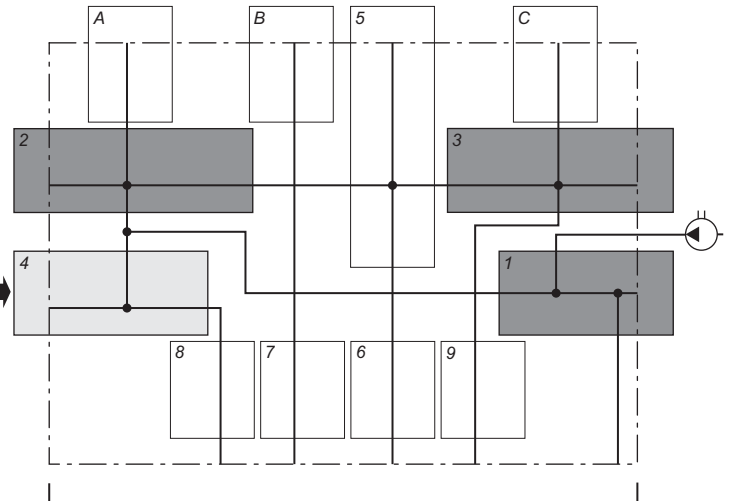
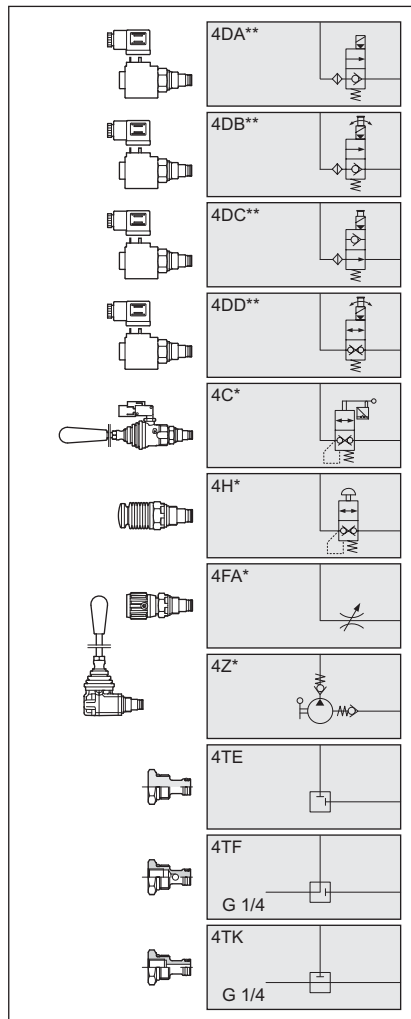
*	Flow	Code	Symbol	Drawing
+B	1.4 l/min	VSC040101		
+C	2.3 l/min	VSC040201		
+E	2.8 l/min	VSC040301		
+G	4.3 l/min	VSC040401		
+J	5.2 l/min	VSC040601		
+L	6.5 l/min	VSC040801		
+N	8.0 l/min	VSC041101		
+Q	11.1 l/min	VSC041601		

(1) I The flow control valves can be installed with the plug TC

												Cavity			
												Type			
												Features			
FPC**	**	(...)	2	..	**	+	*	3	..	**	+	*	4	..	**

FPC

II



Sect. II - FPC Cavity 4



BREVINI®
Motion Systems

4 DA ** *Piloted solenoid valves normally closed, without emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NCASL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NCASM003 + V86050002		
AC	Voltage 24 Vac 50 Hz	CRP0418NCASA003 + V86050002		
AD	Voltage 115 Vac 50 Hz	CRP0418NCASJ003 + V86050002		
AE	Voltage 230 Vac 50 Hz	CRP0418NCASI003 + V86050002		

4 DB ** *Piloted solenoid valves normally closed, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NCAEL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NCAEM003 + V86050002		
AC	Voltage 24 Vac 50 Hz	CRP0418NCAEA003 + V86050002		
AD	Voltage 115 Vac 50 Hz	CRP0418NCAEJ003 + V86050002		
AE	Voltage 230 Vac 50 Hz	CRP0418NCAEI003 + V86050002		

4 DC ** *Piloted solenoid valves normally open, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NAAEL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NAAEM003 + V86050002		
AC	Tensione 24 Vac 50/60 Hz (RAC with rectifier)	CRP0418NAAE2003 + V86200002		
AD	Voltage 115 Vac 50 - 120 Vac 60 Hz (RAC with rectifier)	CRP0418NAAEZ003 + V86200002		
AE	Voltage 230 Vac 50 - 240 Vac 60 Hz (RAC with rectifier)	CRP0418NAAEX003 + V86200002		
AF	Tensione 48 Vdc	CRP0418NAAEN003 + V86050002		

4 DD ** *Direct operated solenoid valve normally closed, with emergency*

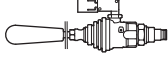
**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRD0418NCAEL002 + V86050002		
AB	Voltage 24 Vdc	CRD0418NCAEM002 + V86050002		

FPC

II

Sect. II - FPC Cavity 4

4 C * *Lever operated valve*

**	Description	Code	Symbol	Drawing
A	Without microswitch	CMF04L0001		
B	With microswitch	CMF04M0001		

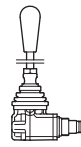
4 H * *Button operated valves*

**	Description	Code	Symbol	Drawing
A	Push-button control	CPE04P000.1		

4 FA * *Bidirectional flow control valves not compensated*

*	Description	Code	Symbol	Drawing
A	Screw adjustment	CSB04C0000		
B	Plastic knob adjustment	CSB04V0000		

4 Z * *Hand pumps*

*	Description	Code	Symbol	Drawing
A	Displacement 1 cc	CPM0410001		
B	Displacement 2 cc	CPM0420001		

4 T * *Plugs and fittings*

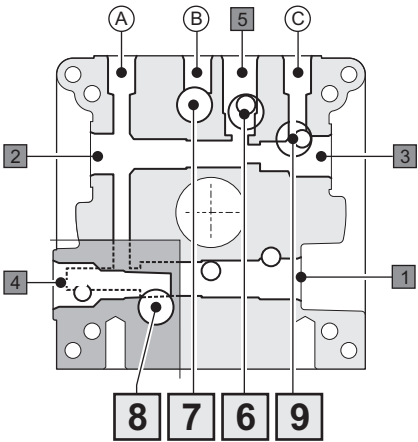
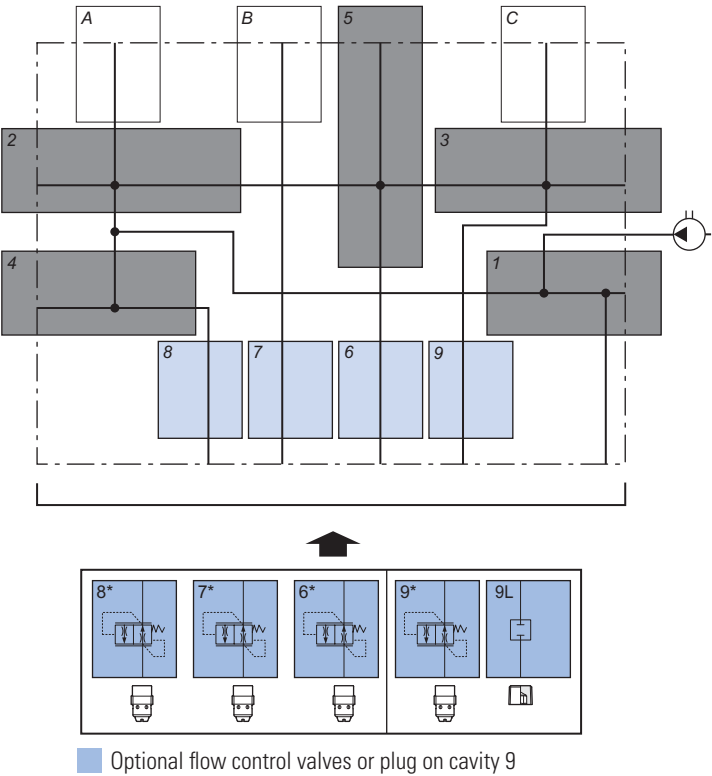
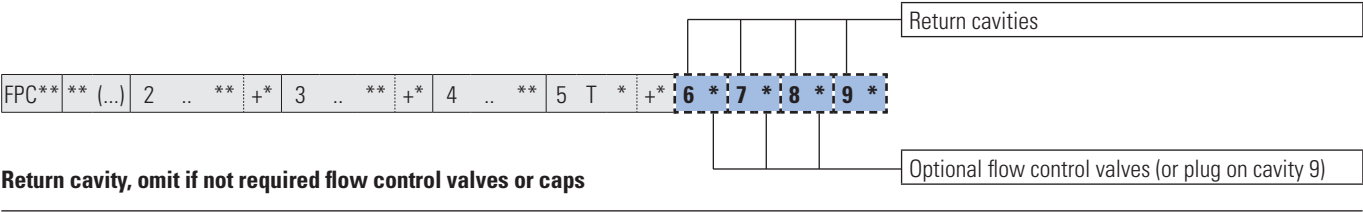
*	Description	Code	Symbol	Drawing
E	Long plug 3/4 16 UNF	20003800		
F	Fitting 3/4 16 UNF - G1/4	20009400		
K	Fitting 3/4 16 UNF DIN - G1/4	20018000		



5	T	G	+	*	Flow control valves (1)
---	---	---	---	---	--------------------------------

(1) The flow control valves can be installed with the plug TG

Sect. II - FPC Cavity 6-7-8-9



6 *

7

8

9

Flow control valves for return cavities "6-7-8-9"

*	Nominal flow at 120 bar	Code	Symbol	Drawing
A	0.7 l/min	VSC06100002		
B	1.1 l/min	VSC06120002		
C	2.1 l/min	VSC06130002		
E	3.2 l/min	VSC06150002		
G	4.7 l/min	VSC06190002		
K	6.3 l/min	VSC06220002		
N	7.5 l/min	VSC06240002		
Q	10.0 l/min	VSC06280002		
U	13.2 l/min	VSC06330002		
V	15.7 l/min	VSC06350002		

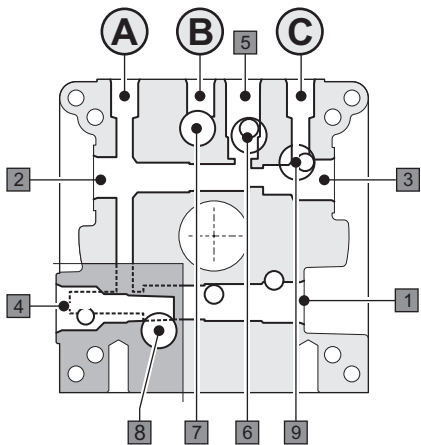
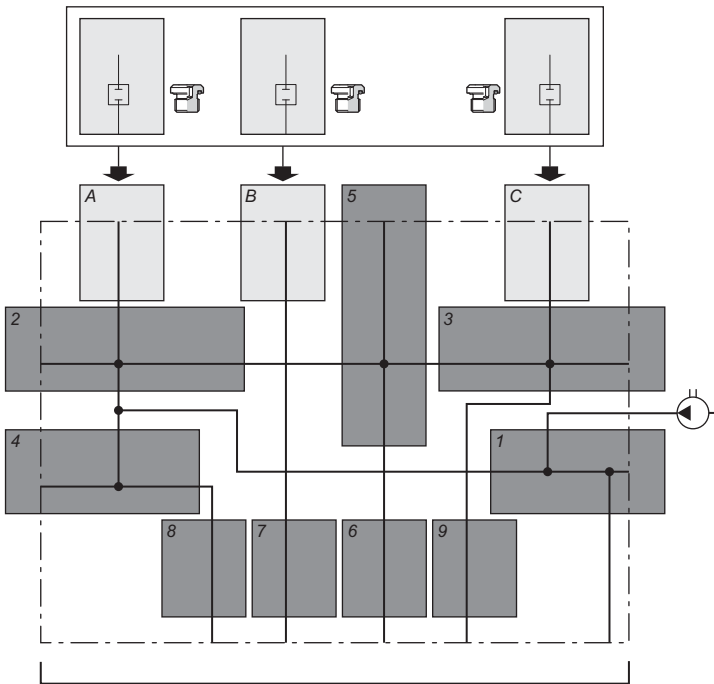
9T *

Plugs for return cavity "9"

*	Description	Code	Symbol	Drawing
M	Conical plug G3/8	Q26620350		

Possible combinations plugs on ports
End section II

FPC** ** (...) 2 .. ** +* 3 .. ** +* 4 .. ** 5 T * +* 6 * 7 * 8 * 9 * -** -



FPC

II

-**

Possible combinations plugs on ports A-B-C

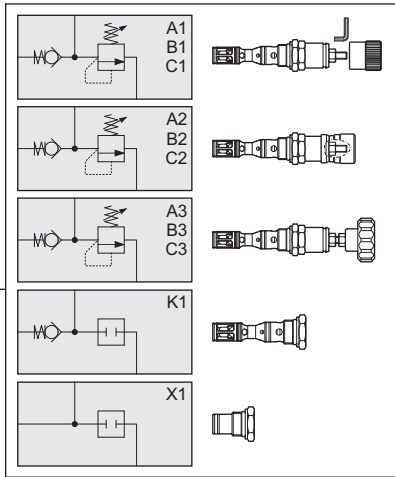
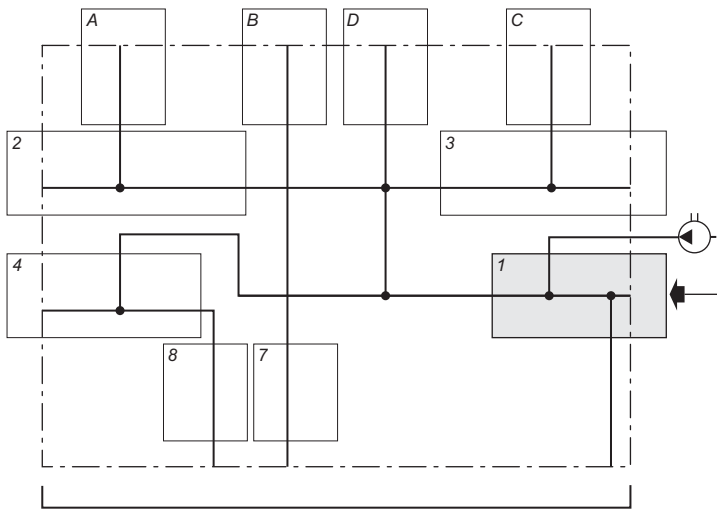
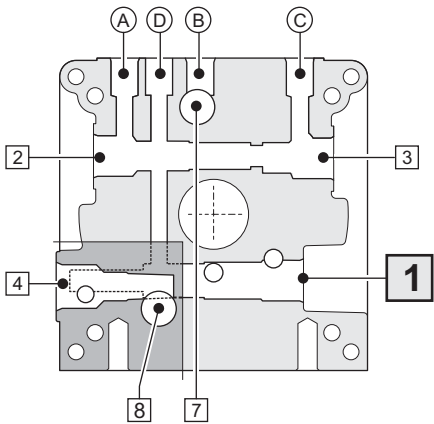
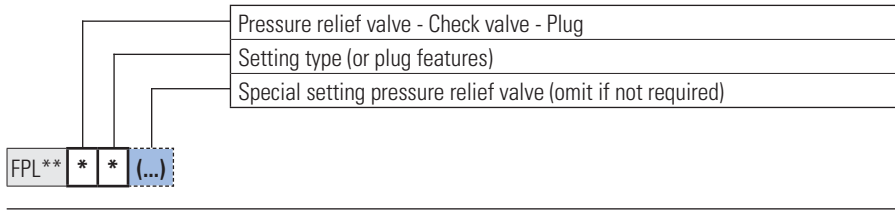
-**	A	B	C
-00	↑	↑	⊗
-01	↑	↑	↑
-02	⊗	↑	↑
-03	↑	⊗	↑
-05	↑	⊗	⊗
-06	⊗	⊗	↑
-07	⊗	↑	⊗
-08	⊗	⊗	⊗

Symbols description

Type	Description	Thread	Code	Symbol	Drawing
⊗	Port closed with plug	G 1/4"	20024000		
		G 3/8"	Q26630006 (plug with OR)		
↑	Open port		—	—	—

Combination -00 to use with the standard blocks (page 85)

Sect. I - FPL Cavity 1



* (...) Pressure relief valve with check valve

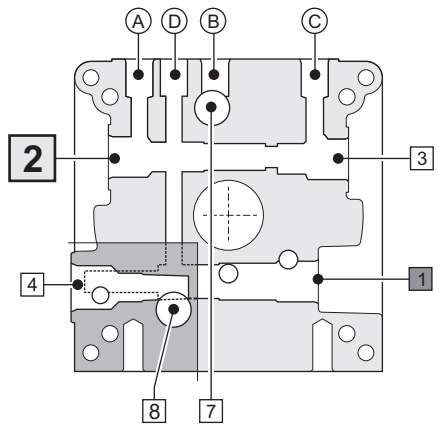
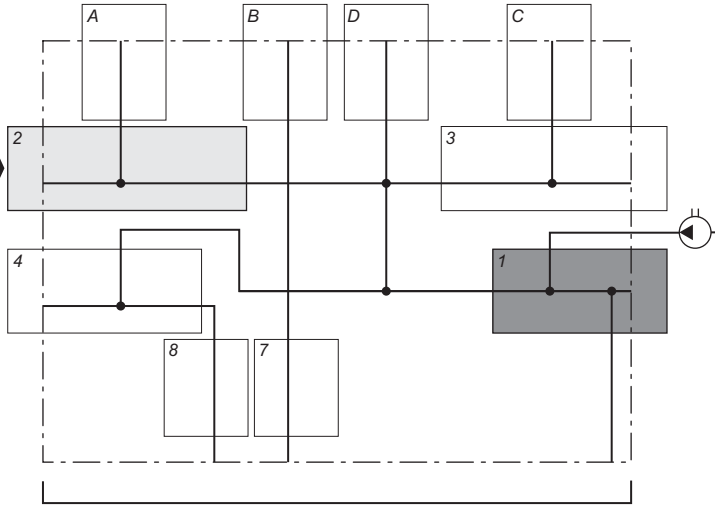
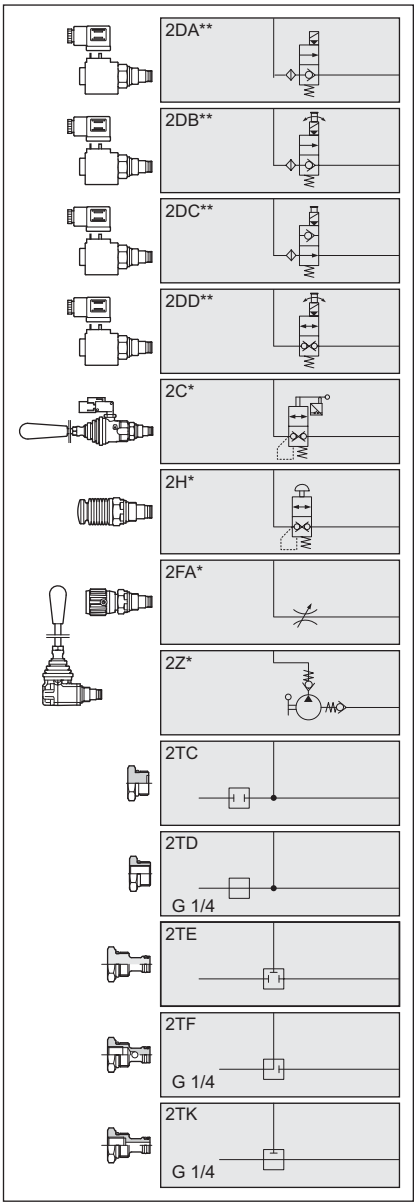
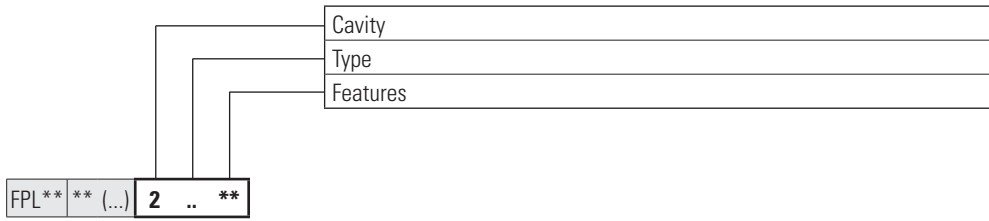
*	*	Pressure (bar)	STD setting (bar)	(...) Special setting (bar)	Setting type	Code	Symbol	Drawing
A	1	10 ÷ 60	50	10 ÷ 60 (5 to 5)	Detachable closing	CMPR04S01001		
	2				Non removable closing (1)	CMPR04P01001		
	3				Handwheel	CMPR04V01001		
B	1	> 60 ÷ 180	150	65 ÷ 180 (5 to 5)	Detachable closing	CMPR04S02001		
	2				Non removable closing (1)	CMPR04P02001		
	3				Handwheel	CMPR04V02001		
C	1	> 180 ÷ 320	210	190 ÷ 320 (10 to 10)	Detachable closing	CMPR04S03001		
	2				Non removable closing (1)	CMPR04P03001		
	3				Handwheel	CMPR04V03001		

1 = Supplied assembled. Unassembled, see accessories page 89.

* * Check valve and plug

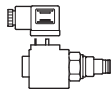
*	*	Description	Code	Symbol	Drawing
K	1	Check valve - Opening pressure 0.5 bar	CR10400001		
X	1	Plug	R78150100		

Sect. II - FPL Cavity 2

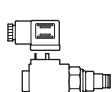


Sect. II - FPL Cavity 2

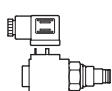
2 DA ** *Piloted solenoid valves normally closed, without emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NCASL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NCASM003 + V86050002		
AC	Voltage 24 Vac 50 Hz	CRP0418NCASA003 + V86050002		
AD	Voltage 115 Vac 50 Hz	CRP0418NCASJ003 + V86050002		
AE	Voltage 230 Vac 50 Hz	CRP0418NCASI003 + V86050002		

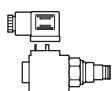
2 DB ** *Piloted solenoid valves normally closed, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NCAEL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NCAEL003 + V86050002		
AC	Voltage 24 Vac 50 Hz	CRP0418NCAEA003 + V86050002		
AD	Voltage 115 Vac 50 Hz	CRP0418NCAEJ003 + V86050002		
AE	Voltage 230 Vac 50 Hz	CRP0418NCAEI003 + V86050002		

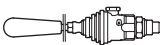
2 DC ** *Piloted solenoid valves normally open, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NAAEL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NAAEM003 + V86050002		
AC	Voltage 24 Vac 50/60 Hz (RAC with rectifier)	CRP0418NAAE2003 + V86200002		
AD	Voltage 115 Vac 50 - 120 Vac 60 Hz (RAC with rectifier)	CRP0418NAAEZ003 + V86200002		
AE	Voltage 230 Vac 50 - 240 Vac 60 Hz (RAC with rectifier)	CRP0418NAAEX003 + V86200002		
AF	Voltage 48 Vdc	CRP0418NAAEN003 + V86050002		

2 DD ** *Direct operated solenoid valve normally closed, with emergency*

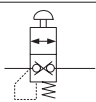
**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRD0418NCAEL002 + V86050002		
AB	Voltage 24 Vdc	CRD0418NCAEM002 + V86050002		

2 C * *Lever operated valve*

**	Description	Code	Symbol	Drawing
A	Without microswitch	CMF04L001		
B	With microswitch	CMF04M001		

Sect. II - FPL Cavity 2

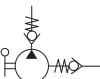
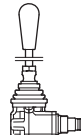
2 H * *Button operated valves*

**	Description	Code	Symbol	Drawing
A	Push-button control	CPE04P000.1		

2 FA * *Bidirectional flow control valves not compensated*

*	Description	Code	Symbol	Drawing
A	Screw adjustment	CSB04C0000		
B	Plastic knob adjustment	CSB04V0000		

2 Z * *Hand pumps*

*	Description	Code	Symbol	Drawing
A	Displacement 1 cc	CPM0410001		
B	Displacement 2 cc	CPM0420001		

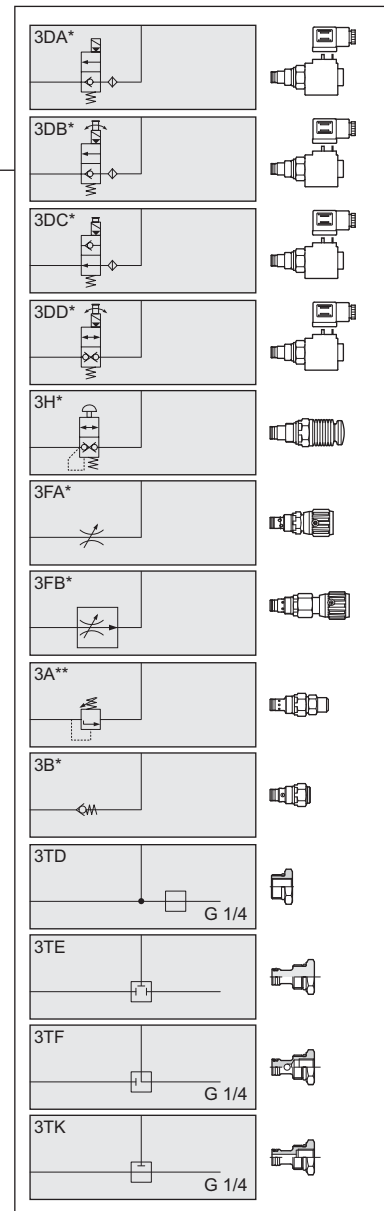
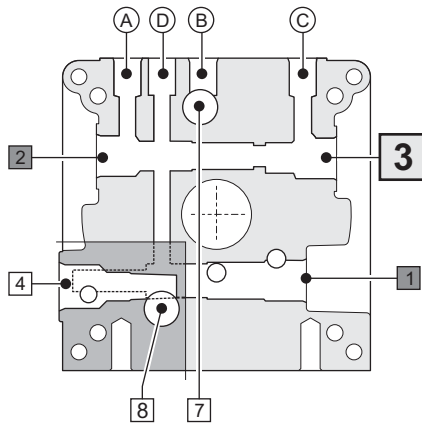
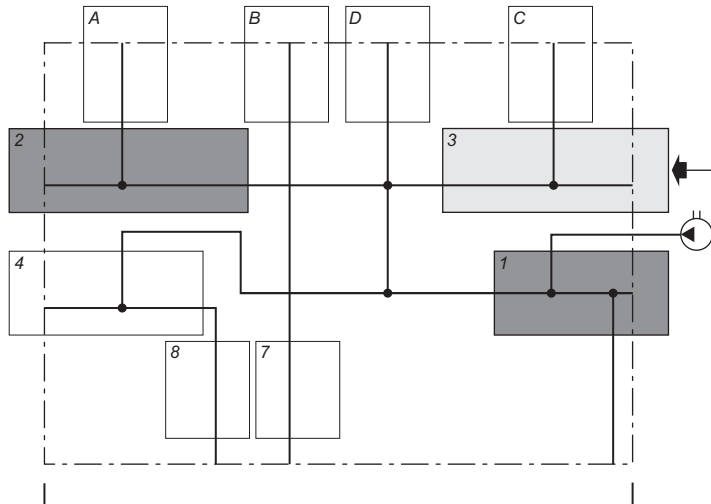
2 T * *Plugs and fittings*

*	Description	Code	Symbol	Drawing
C	Plug 3/4 16 UNF	R78150099		
D	Fitting 3/4 16 UNF - G1/4	20001700		
E	Long plug 3/4 16 UNF	20003800		
F	Fitting 3/4 16 UNF - G1/4	20009400		
K	Fitting 3/4 16 UNF DIN - G1/4	20018000		

Sect. II - FPL Cavity 3

Cavity
Type
Features

FPL ** ** (...) 2 .. ** **3** .. **



3 DA ** *Piloted solenoid valves normally closed, without emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NCASL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NCASM003 + V86050002		
AC	Voltage 24 Vac 50 Hz	CRP0418NCASA003 + V86050002		
AD	Voltage 115 Vac 50 Hz	CRP0418NCASJ003 + V86050002		
AE	Voltage 230 Vac 50 Hz	CRP0418NCASI003 + V86050002		

3 DB ** *Piloted solenoid valves normally closed, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NCAEL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NCAEL003 + V86050002		
AC	Voltage 24 Vac 50 Hz	CRP0418NCAEA003 + V86050002		
AD	Voltage 115 Vac 50 Hz	CRP0418NCAEJ003 + V86050002		
AE	Voltage 230 Vac 50 Hz	CRP0418NCAEI003 + V86050002		

3 DC ** *Piloted solenoid valves normally open, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NAAEL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NAAEM003 + V86050002		
AC	Voltage 24 Vac 50/60 Hz (RAC with rectifier)	CRP0418NAAE2003 + V86200002		
AD	Voltage 115 Vac 50 - 120 Vac 60 Hz (RAC with rectifier)	CRP0418NAAEZ003 + V86200002		
AE	Voltage 230 Vac 50 - 240 Vac 60 Hz (RAC with rectifier)	CRP0418NAAEX003 + V86200002		
AF	Voltage 48 Vdc	CRP0418NAAEN003 + V86050002		

3 DD ** *Piloted solenoid valves normally closed, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRD0418NCAEL002 + V86050002		
AB	Voltage 24 Vdc	CRD0418NCAEM002 + V86050002		

3 H * *Button operated valves*

**	Description	Code	Symbol	Drawing
A	Push-button control	CPE04P000.1		

3 FA * *Bidirectional flow control valves not compensated*

*	Description	Code	Symbol	Drawing
A	Screw adjustment	CSB04C0000		
B	Plastic knob adjustment	CSB04V0000		

Sect. II - FPL Cavity 3



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Motion Systems

3 FB * *Unidirectional flow control valves compensated*

*	Description	Code	Symbol	Drawing
A	Screw adjustment	CSC04C0000		
B	Plastic knob adjustment	CSC04V0000		

3 A ** *Pressure relief valves*

**	Description	Regolazione (bar)	Code	Symbol	Drawing
AA	Short screw adjustment	Min 10 - Max 70	CMP04E1001		
AB		Min 80 - Max 140	CMP04E2001		
AC		Min 100 - Max 330	CMP04E3001		
BA	Screw adjustment	Min 10 - Max 70	CMP04C1001		
BB		Min 80 - Max 140	CMP04C2001		
BC		Min 100 - Max 330	CMP04C3001		
CA	Plastic knob adjustment	Min 10 - Max 70	CMP04V1001		
CB		Min 80 - Max 140	CMP04V2001		
CC		Min 100 - Max 330	CMP04V3001		
DA	Short screw + sealed cap	Min 10 - Max 70	CMP04P1001		
DB		Min 80 - Max 140	CMP04P2001		
DC		Min 100 - Max 330	CMP04P3001		

3 B * *One-way check valves*

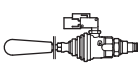
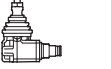
*	Opening pressure	Code	Symbol	Drawing
A	0,7 bar (Standard)	CRU0400002		
B	4,5 bar	CRU0404002		
C	10 bar	CRU0410002		

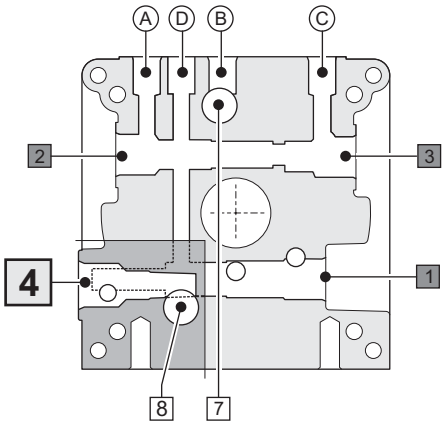
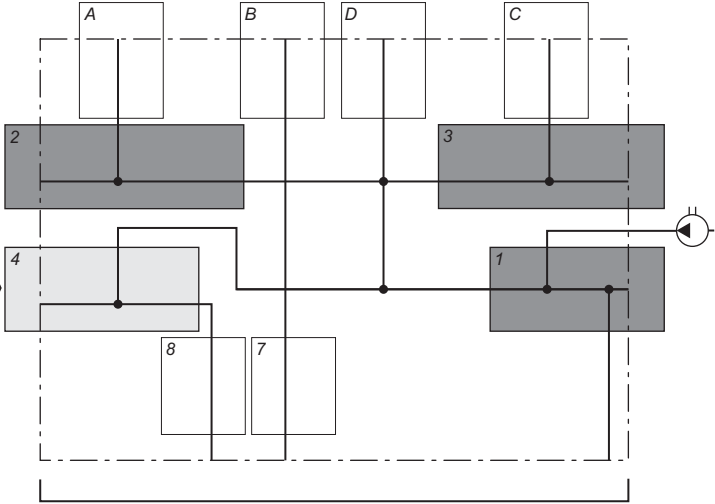
3 T * *Plugs and fittings*

*	Description	Code	Symbol	Drawing
D	Fitting 3/4 16 UNF - G1/4	20001700		
E	Long plug 3/4 16 UNF	20003800		
F	Fitting 3/4 16 UNF - G1/4	20009400		
K	Fitting 3/4 16 UNF - DIN G1/4	20018000		

Sect. II - FPL Cavity 4

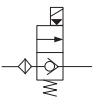
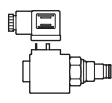
										Cavity		
										Type		
										Features		
FPL	**	**	(...)	2	..	**	3	..	**	4	..	**

	4DA**	
	4DB**	
	4DC**	
	4DD**	
	4C*	
	4H*	
	4B*	
	4FA*	
	4Z*	
	4TE	
	4TF	
	4TK	

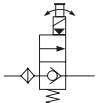
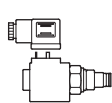


Sect. II - FPL Cavity 4

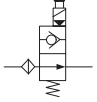
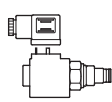
4 DA ** *Piloted solenoid valves normally closed, without emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NCASL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NCASM003 + V86050002		
AC	Voltage 24 Vac 50 Hz	CRP0418NCASA003 + V86050002		
AD	Voltage 115 Vac 50 Hz	CRP0418NCASJ003 + V86050002		
AE	Voltage 230 Vac 50 Hz	CRP0418NCASI003 + V86050002		

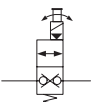
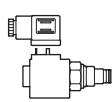
4 DB ** *Piloted solenoid valves normally closed, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NCAEL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NCAEM003 + V86050002		
AC	Voltage 24 Vac 50 Hz	CRP0418NCAEA003 + V86050002		
AD	Voltage 115 Vac 50 Hz	CRP0418NCAEJ003 + V86050002		
AE	Voltage 230 Vac 50 Hz	CRP0418NCAEI003 + V86050002		

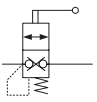
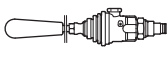
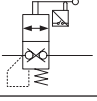
4 DC ** *Piloted solenoid valves normally open, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRP0418NAAEL003 + V86050002		
AB	Voltage 24 Vdc	CRP0418NAAEM003 + V86050002		
AC	Tensione 24 Vac 50/60 Hz (RAC with rectifier)	CRP0418NAAE2003 + V86200002		
AD	Voltage 115 Vac 50 - 120 Vac 60 Hz (RAC with rectifier)	CRP0418NAAEZ003 + V86200002		
AE	Voltage 230 Vac 50 - 240 Vac 60 Hz (RAC with rectifier)	CRP0418NAAEX003 + V86200002		
AF	Tensione 48 Vdc	CRP0418NAAEN003 + V86050002		

4 DD ** *Direct operated solenoid valve normally closed, with emergency*

**	Description	Code (valve + connector)	Symbol	Drawing
AA	Voltage 12 Vdc	CRD0418NCAEL002 + V86050002		
AB	Voltage 24 Vdc	CRD0418NCAEM002 + V86050002		

4 C * *Lever operated valve*

**	Description	Code	Symbol	Drawing
A	Without microswitch	CMF04L0001		
B	With microswitch	CMF04M0001		

Sect. II - FPL Cavity 4



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4 B * *One-way check valves*

*	Opening pressure	Code	Symbol	Drawing
A	0,7 bar (Standard)	CRU0400002		
B	4,5 bar	CRU0404002		
C	10 bar	CRU0410002		

4 H * *Button operated valves*

**	Description	Code	Symbol	Drawing
A	Push-button control	CPE04P000.1		

4 FA * *Bidirectional flow control valves not compensated*

*	Description	Code	Symbol	Drawing
A	Screw adjustment	CSB04C0000		
B	Plastic knob adjustment	CSB04V0000		

4 Z * *Hand pumps*

*	Description	Code	Symbol	Drawing
A	Displacement 1 cc	CPM0410001		
B	Displacement 2 cc	CPM0420001		

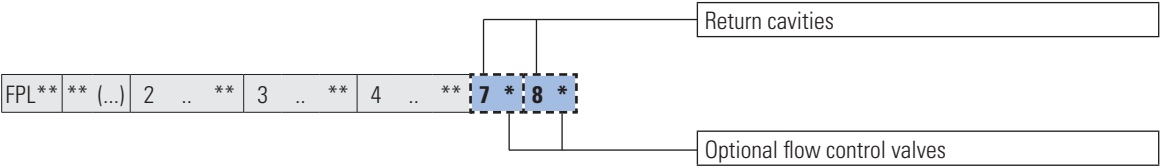
4 T * *Plugs and fittings*

*	Description	Code	Symbol	Drawing
E	Long plug 3/4 16 UNF	20003800		
F	Fitting 3/4 16 UNF - G1/4	20009400		
K	Fitting 3/4 16 UNF DIN - G1/4	20018000		

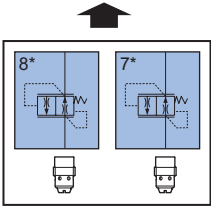
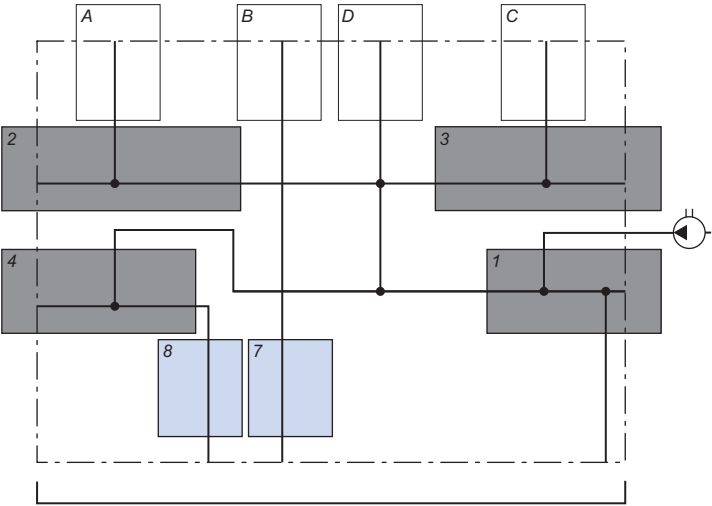
FPL

II

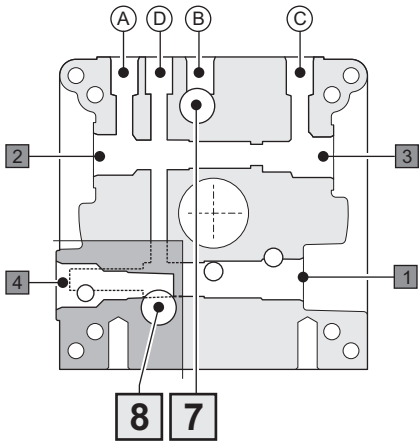
Sect. II - FPL Cavity 7-8



Return cavity, omit if not required flow control valves



Optional flow control valves

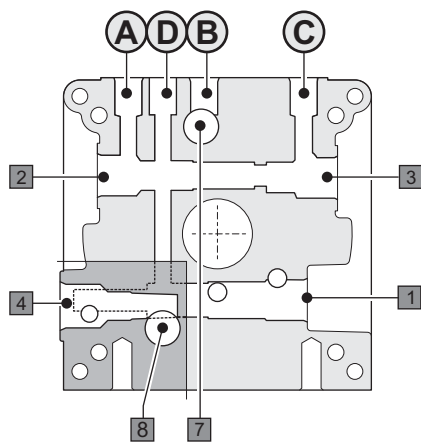
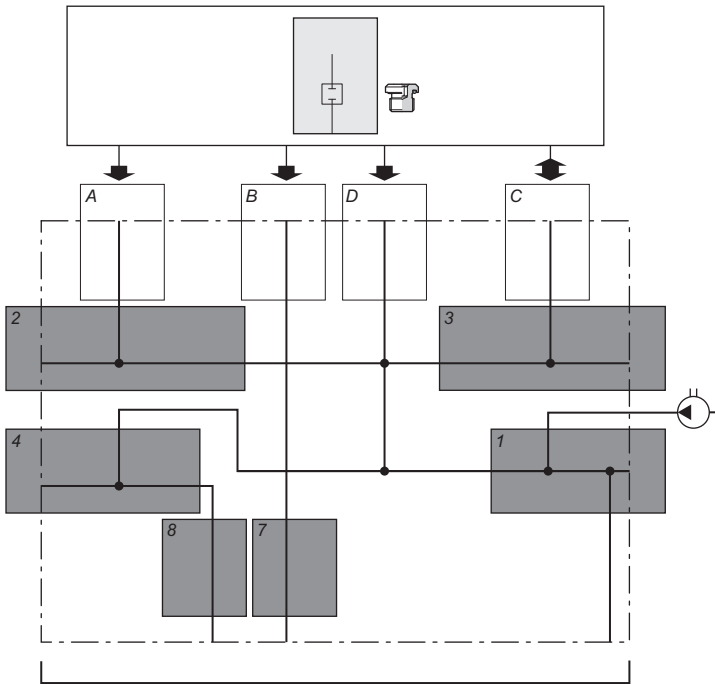


7 *
8 * **Flow control valves for return cavities "7-8"**

*	Nominal flow at 120 bar	Code	Symbol	Drawing
A	0.7 l/min	VSC06100002		
B	1.1 l/min	VSC06120002		
C	2.1 l/min	VSC06130002		
E	3.2 l/min	VSC06150002		
G	4.7 l/min	VSC06190002		
K	6.3 l/min	VSC06220002		
N	7.5 l/min	VSC06240002		
Q	10.0 l/min	VSC06280002		
U	13.2 l/min	VSC06330002		
V	15.7 l/min	VSC06350002		

Possible combinations plugs on ports
End section II

FPL** ** (...) 2 .. ** 3 .. ** 4 .. ** 7 * 8 * -**



FPL

II

-**

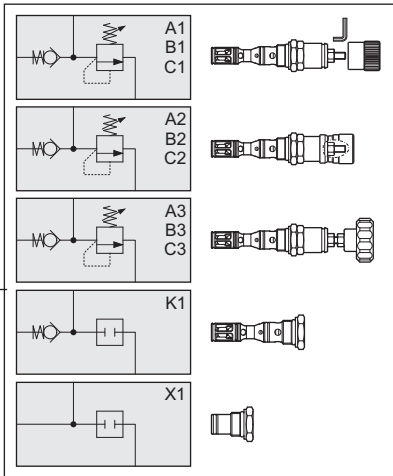
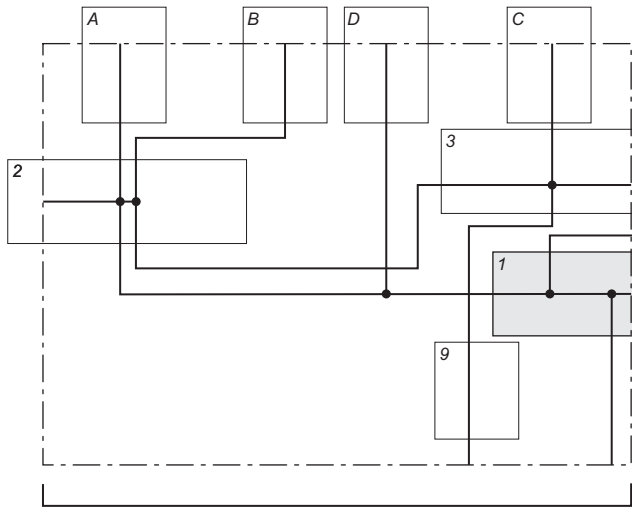
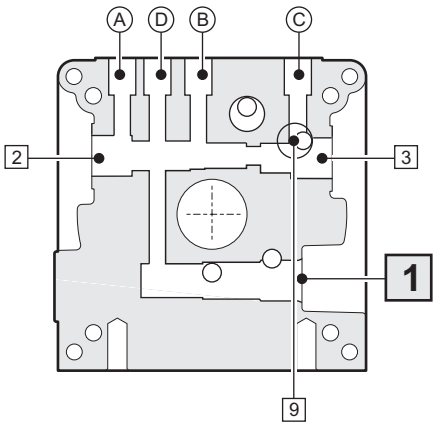
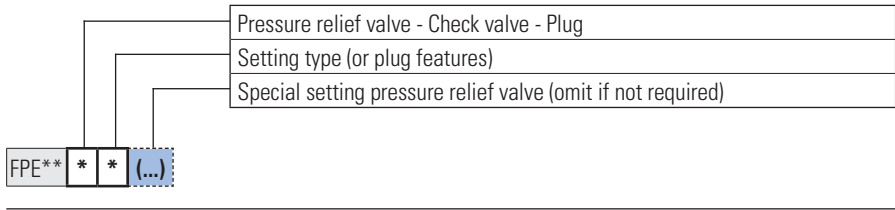
Possible combinations plugs on ports A-B-C-D

-**	A	B	C	D
-00	↑	⊗	↑	⊗
-01	↑	↑	↑	↑
-03	↑	⊗	↑	↑
-04	↑	↑	↑	⊗

Symbols description

Type	Description	Thread	Code	Symbol	Drawing
⊗	Port closed with plug	G 1/4"	20024000		
↑	Open port		—	—	—

Sect. I - FPE Cavity 1



FPE
I

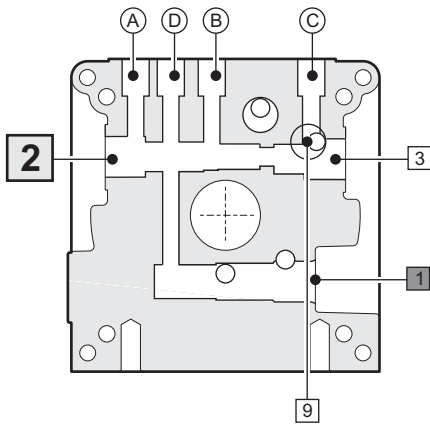
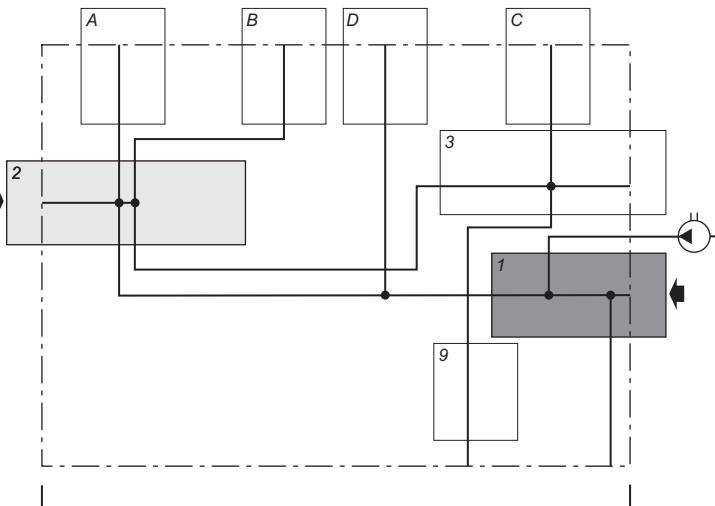
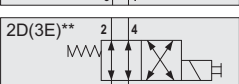
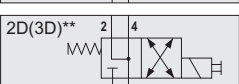
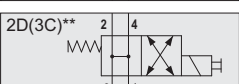
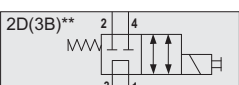
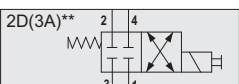
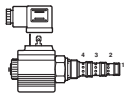
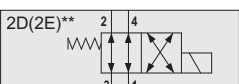
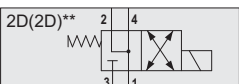
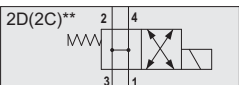
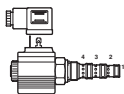
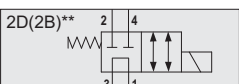
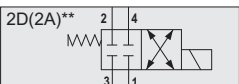
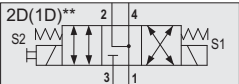
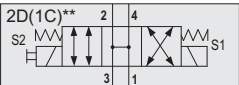
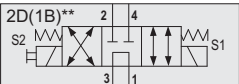
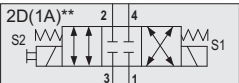
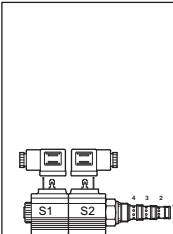
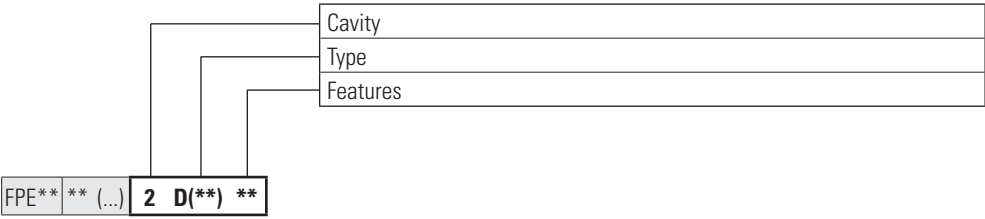
* * (...) Pressure relief valve with check valve

*	*	Pressure (bar)	STD setting (bar)	(...) Special setting (bar)	Setting type	Code	Symbol	Drawing
A	1	10 ÷ 60	50	10 ÷ 60 (5 to 5)	Detachable closing	CMPR04S01001		
	2				Non removable closing (1)	CMPR04P01001		
	3				Handwheel	CMPR04V01001		
B	1	> 60 ÷ 180	150	65 ÷ 180 (5 to 5)	Detachable closing	CMPR04S02001		
	2				Non removable closing (1)	CMPR04P02001		
	3				Handwheel	CMPR04V02001		
C	1	> 180 ÷ 320	210	190 ÷ 320 (10 to 10)	Detachable closing	CMPR04S03001		
	2				Non removable closing (1)	CMPR04P03001		
	3				Handwheel	CMPR04V03001		

1 = Supplied assembled. Unassembled, see accessories page 89.

* * Check valve and plug

*	*	Description	Code	Symbol	Drawing
K	1	Check valve - Opening pressure 0.5 bar	CR10400001		
X	1	Plug	R78150100		



Sect. II - FPE Cavity 2



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Motion Systems

2 D(**) ** Solenoid valves 4 way 3 positions with emergency

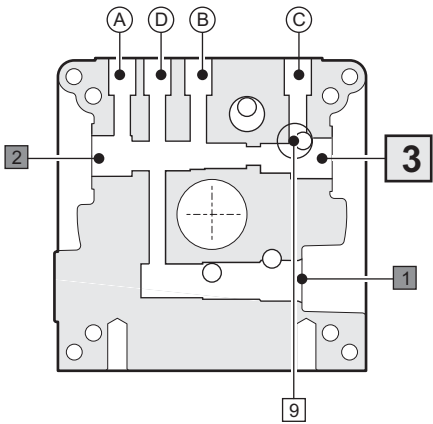
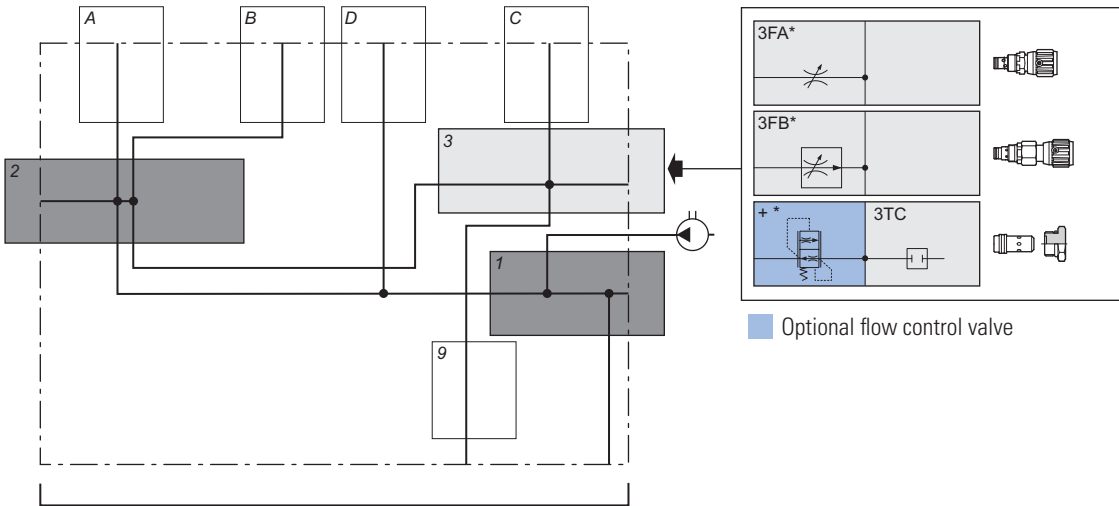
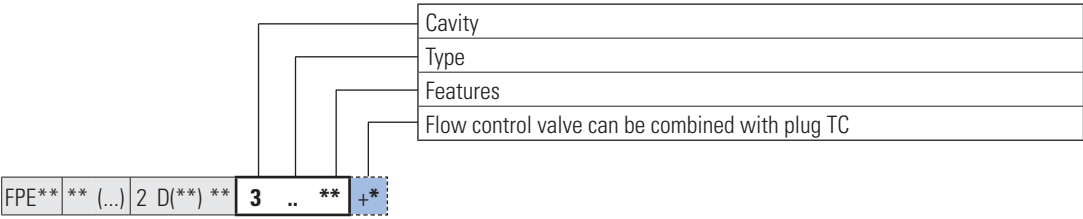
(**) **	Description	Code (valve + connectors)	Symbol	Drawing
(1A)AA	Voltage 12 Vdc (closed centre “C” spool)	C4V0422C3FEL001 + V86050002 (x2)		
(1A)AB	Voltage 24 Vdc (closed centre “C” spool)	C4V0422C3FEM001 + V86050002 (x2)		
(1B)AA	Voltage 12 Vdc (open centre “A” spool)	C4V0422A3FEL001 + V86050002 (x2)		
(1B)AB	Voltage 24 Vdc (open centre “A” spool)	C4V0422A3FEM001 + V86050002 (x2)		
(1C)AA	Voltage 12 Vdc (centre “H” spool)	C4V0422H3FEL001 + V86050002 (x2)		
(1C)AB	Voltage 24 Vdc (centre “H” spool)	C4V0422H3FEM001 + V86050002 (x2)		
(1D)AA	Voltage 12 Vdc (centre “Y” spool)	C4V0422Y3FEL001 + V86050002 (x2)		
(1D)AB	Voltage 24 Vdc (centre “Y” spool)	C4V0422Y3FEM001 + V86050002 (x2)		

2 D(**) ** Solenoid valves 4 way 2 positions without emergency

(**) **	Description	Code (valve + connectors)	Symbol	Drawing
(2A)AA	Voltage 12 Vdc (closed centre "C" spool)	C4V0422C2FSL001 + V86050002		
(2A)AB	Voltage 24 Vdc (closed centre "C" spool)	C4V0422C2FSM001 + V86050002		
(2B)AA	Voltage 12 Vdc (open centre "A" spool)	C4V0422A2FSL001 + V86050002		
(2B)AB	Voltage 24 Vdc (open centre "A" spool)	C4V0422A2FSM001 + V86050002		
(2C)AA	Voltage 12 Vdc (centre "H" spool)	C4V0422H2FSL001 + V86050002		
(2C)AB	Voltage 24 Vdc (centre "H" spool)	C4V0422H2FSM001 + V86050002		
(2D)AA	Voltage 12 Vdc (centre "Y" spool)	C4V0422Y2FSL001 + V86050002		
(2D)AB	Voltage 24 Vdc (centre "Y" spool)	C4V0422Y2FSM001 + V86050002		
(2E)AA	Voltage 12 Vdc (direct "D" spool)	C4V0422D2FSL001 + V86050002		
(2E)AB	Voltage 24 Vdc (direct "D" spool)	C4V0422D2FSM001 + V86050002		

2 D(**) ** Solenoid valves 4 way 2 positions with emergency

(**) **	Description	Code (valve + connectors)	Symbol	Drawing
(3A)AA	Voltage 12 Vdc (closed centre “C” spool)	C4V0422C2FEL001 + V86050002		
(3A)AB	Voltage 24 Vdc (closed centre “C” spool)	C4V0422C2FEM001 + V86050002		
(3B)AA	Voltage 12 Vdc (open centre “A” spool)	C4V0422A2FEL001 + V86050002		
(3B)AB	Voltage 24 Vdc (open centre “A” spool)	C4V0422A2FEM001 + V86050002		
(3C)AA	Voltage 12 Vdc (centre “H” spool)	C4V0422H2FEL001 + V86050002		
(3C)AB	Voltage 24 Vdc (centre “H” spool)	C4V0422H2FEM001 + V86050002		
(3D)AA	Voltage 12 Vdc (centre “Y” spool)	C4V0422Y2FEL001 + V86050002		
(3D)AB	Voltage 24 Vdc (centre “Y” spool)	C4V0422Y2FEM001 + V86050002		
(3E)AA	Voltage 12 Vdc (direct “D” spool)	C4V0422D2FEL001 + V86050002		
(3E)AB	Voltage 24 Vdc (direct “D” spool)	C4V0422D2FEM001 + V86050002		



Sect. II - FPE Cavity 3

3 FA * *Bidirectional flow control valves not compensated*

*	Description	Code	Symbol	Drawing
A	Screw adjustment	CSB04C0000		
B	Plastic knob adjustment	CSB04V0000		

3 FB * *Bidirectional flow control valves compensated*

*	Description	Code	Symbol	Drawing
A	Screw adjustment	CSC04C000		
B	Plastic knob adjustment	CSC04V000		

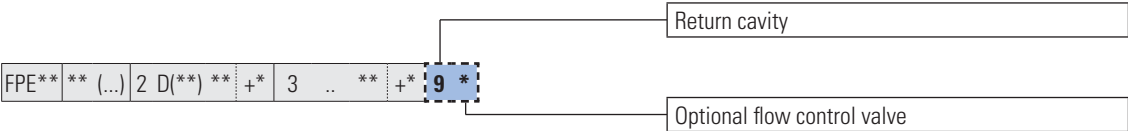
3 T * *Plugs and fittings*

*	Description	Code	Symbol	Drawing
C	Plug 3/4 16 UNF (1)	R78150099		

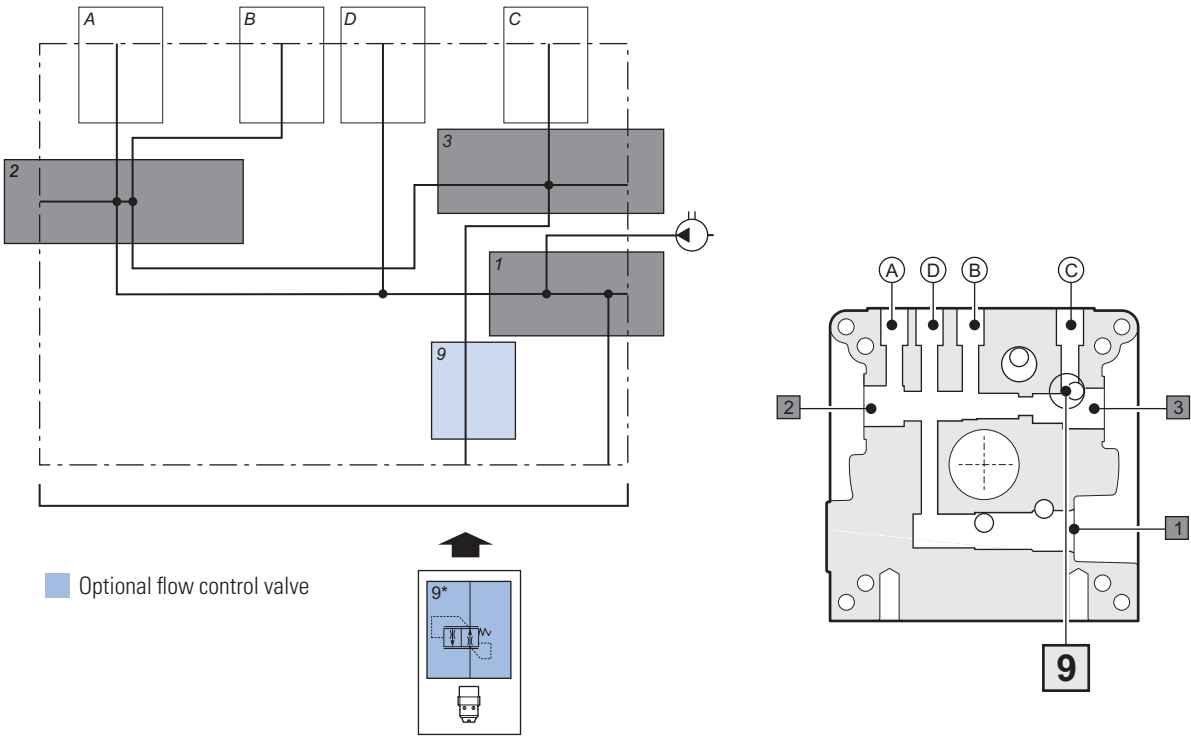
3 T C *Flow control valves (1)*

*	Flow	Code	Symbol	Drawing
+B	1.4 l/min	VSC040101		
+C	2.3 l/min	VSC040201		
+E	2.8 l/min	VSC040301		
+G	4.3 l/min	VSC040401		
+J	5.2 l/min	VSC040601		
+L	6.5 l/min	VSC040801		
+N	8.0 l/min	VSC041101		
+Q	11.1 l/min	VSC041601		

(1) I The flow control valve can be installed with the plug TC



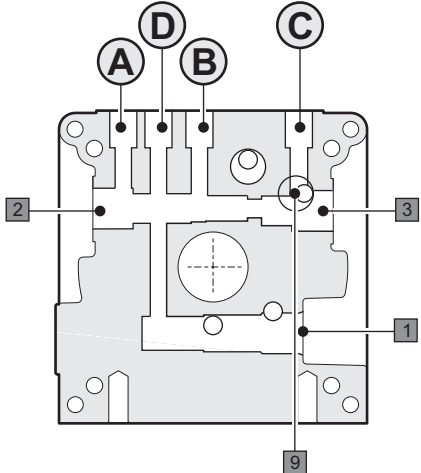
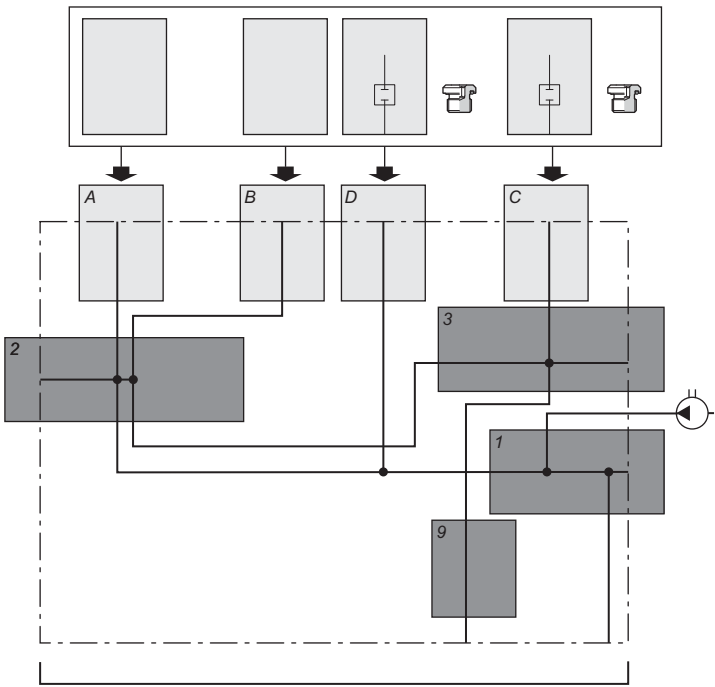
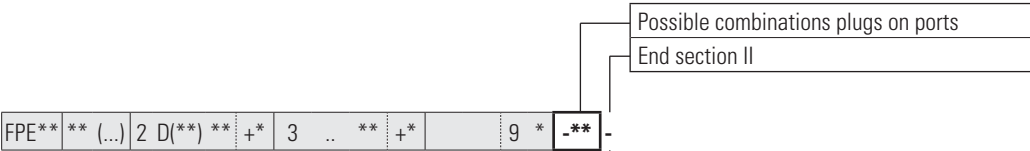
Return cavity, omit if not required flow control valve



9 *

Flow control valves

*	Nominal flow at 120 bar	Code	Symbol	Drawing
A	0.7 l/min	VSC06100002		
B	1.1 l/min	VSC06120002		
C	2.1 l/min	VSC06130002		
E	3.2 l/min	VSC06150002		
G	4.7 l/min	VSC06190002		
K	6.3 l/min	VSC06220002		
N	7.5 l/min	VSC06240002		
Q	10.0 l/min	VSC06280002		
U	13.2 l/min	VSC06330002		
V	15.7 l/min	VSC06350002		



-** Possible combinations plugs on ports A-B-C-D

Symbols description

-**	A	B	C	D	Type	Description	Code	Symbol	Drawing
-00	↑	↑	⊗	↑	⊗	Port closed with plug	20024000		
-01	↑	↑	↑	⊗	↑	Open port	—	—	—
-03	↑	⊗	↑	⊗					
-04	↑	↑	⊗	⊗					

With the FPE hydraulic power pack, cannot be mounted the standard blocks.

- Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
- Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Киргизия (996)312-96-26-47
- Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Казахстан (772)734-952-31
- Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Россия (495)268-04-70
- Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93