



4. CONTROL MODULES

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4. CONTROL MODULES

4.1 CONTROL SECTION LS PROP. / LS ON-OFF; 1x LS WITH CAVITIY: 1x PS06-6

	CMV	A	-	MA06	-		-	D0	-		-		-	V	-		-	X5	-		#	
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Material
A Aluminium

Modul function
MA06 1x LS with cavity: 1x PS06-6

Connections for actuators A+B
Threaded BSP 3/8" connections with CMV-06 interface for additional functions ☐ A
Threaded connections BSP 1/2" without interface ☐ B

Seal type
D0 NBR

Proportional or on off
Proportional solenoid ☐ P
Medium (or switch) ☐ M

Designation of symbols acc. to table

Forward flow control

Nominal volume flow rate Q_N at Δp 10 bar

4 l/min	☐ 04
16 l/min	☐ 16
32 l/min	☐ 32
48 l/min	☐ 48

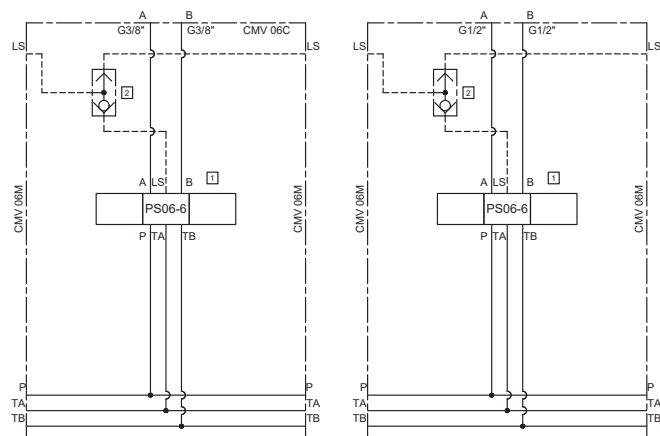
Coil without coil (standard) ☐ X5

Manual override Actuating pin integrated in the anchor tube (standard) ☐

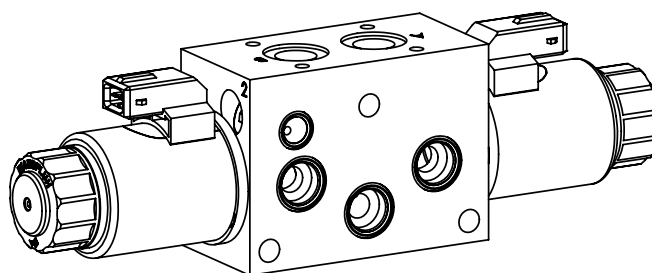
Design index (subject to change)

4.0-10_MA06

HYDRAULIC DIAGRAM



3D-MODEL

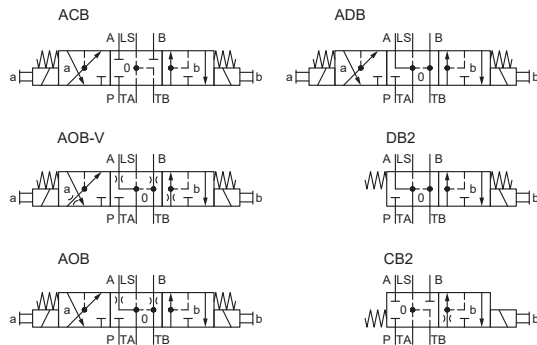


AVAILABLE VALVES FOR CAVITY PS06-6, POS. 1

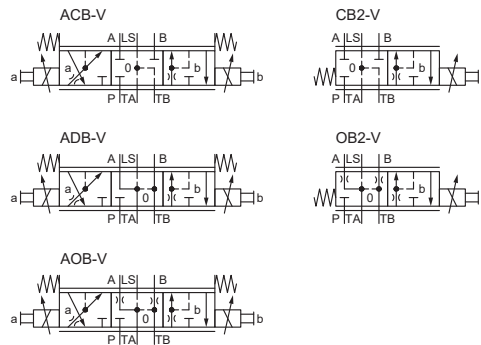
Designation	Link	Data sheet no.
CMVA-MA06-...-M	MA06-M	4.1-15
CMVA-MA06-...-P	MA-06-P	4.1-10

PS06-6

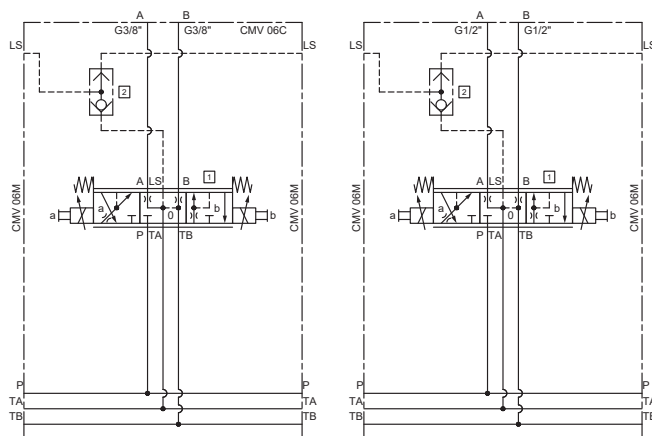
solenoid operated spool valve M



prop. solenoid operated spool valve P



EXEMPLARY DIAGRAM



4.2 CONTROL SECTION LS PROP. / LS ON-OFF; IDW 1x LS WITH CAVITIES: 1x PS06-6; 1x PU12-3S

	CMV	A	-	MC06	-		-	D0	-		-		-	V	-		-		-	X5	-	#	
--	-----	---	---	------	---	--	---	----	---	--	---	--	---	---	---	--	---	--	---	----	---	---	--

Material
A Aluminium

Modul function
MC06 IDW 1x LS with cavities: 1x PS06-6; 1x PU12-3S

Connections for actuators A+B
Threaded BSP 3/8" connections with CMV-06 interface for additional functions ☐ A
Threaded connections BSP 1/2" without interface ☐ B

Seal type
D0 NBR

Proportional or on off
Proportional solenoid ☐ P
Medium (or switch) ☐ M

Designation of symbols acc. to table

Forward flow control

Nominal volume flow rate Q_N at Δp 10 bar

4 l/min	☐ 04
16 l/min	☐ 16
32 l/min	☐ 32
48 l/min	☐ 48

Pressure range pressure compensator

5 bar	☐ 05
10 bar	☐ 10
15 bar	☐ 15
adjustable 5 to 15 bar	☐ 05/15

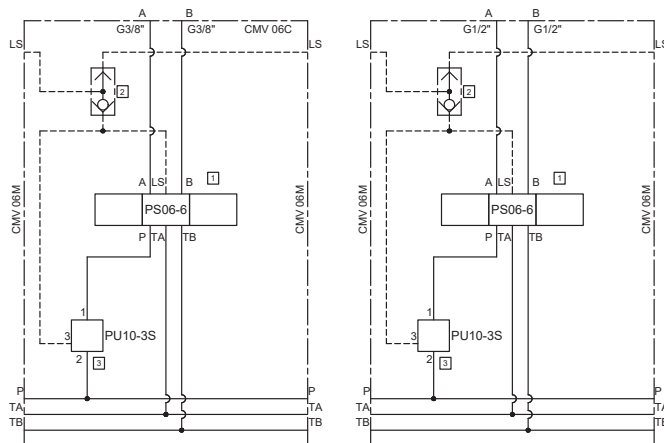
Coil without coil (standard) ☐ X5

Manual override Actuating pin integrated in the anchor tube (standard) ☐

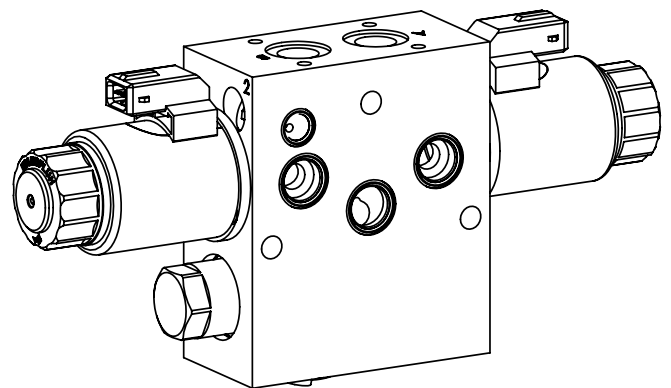
Design index (subject to change)

4.0-10_MC06

HYDRAULIC DIAGRAM

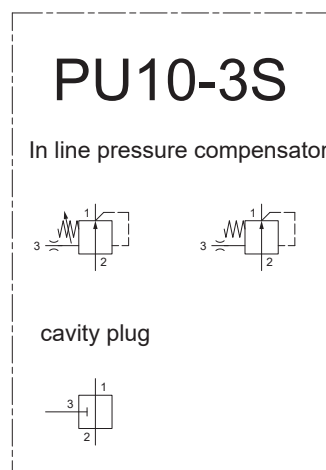


3D-MODEL



AVAILABLE VALVES FOR CAVITY PU10-3S, POS. 3

Designation	Link	Data sheet no.
Inline pressure compensator valve	UI_PU10	2.5-672

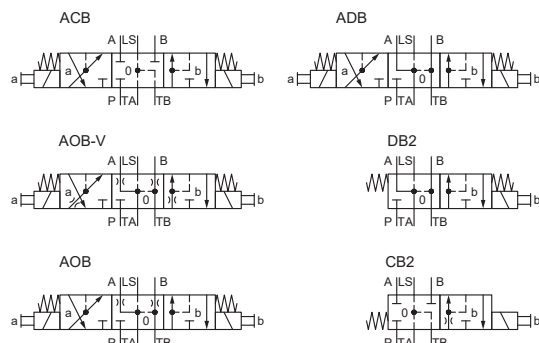


AVAILABLE VALVES FOR CAVITY PS06-6, POS. 1

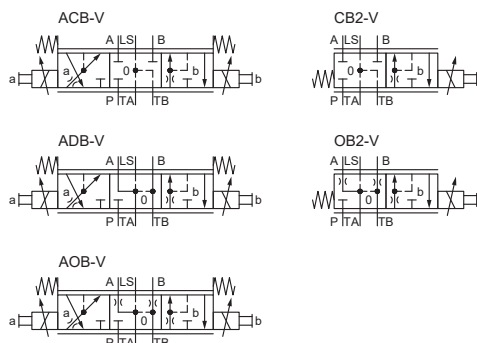
Designation	Link	Data sheet no.
CMVA-MA06-...-M	MA06-M	4.1-15
CMVA-MA06-...-P	MA-06-P	4.1-10

PS06-6

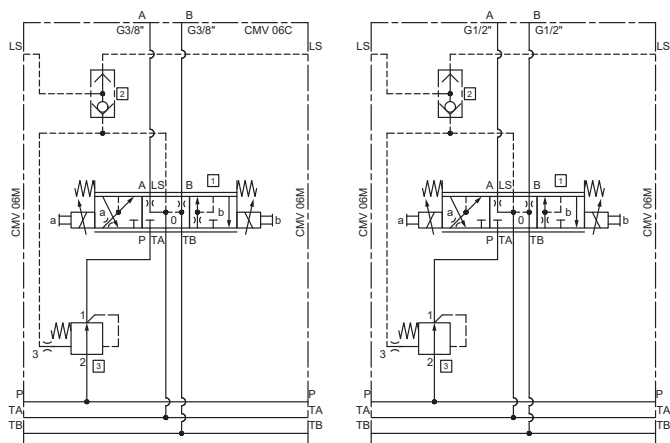
solenoid operated spool valve M



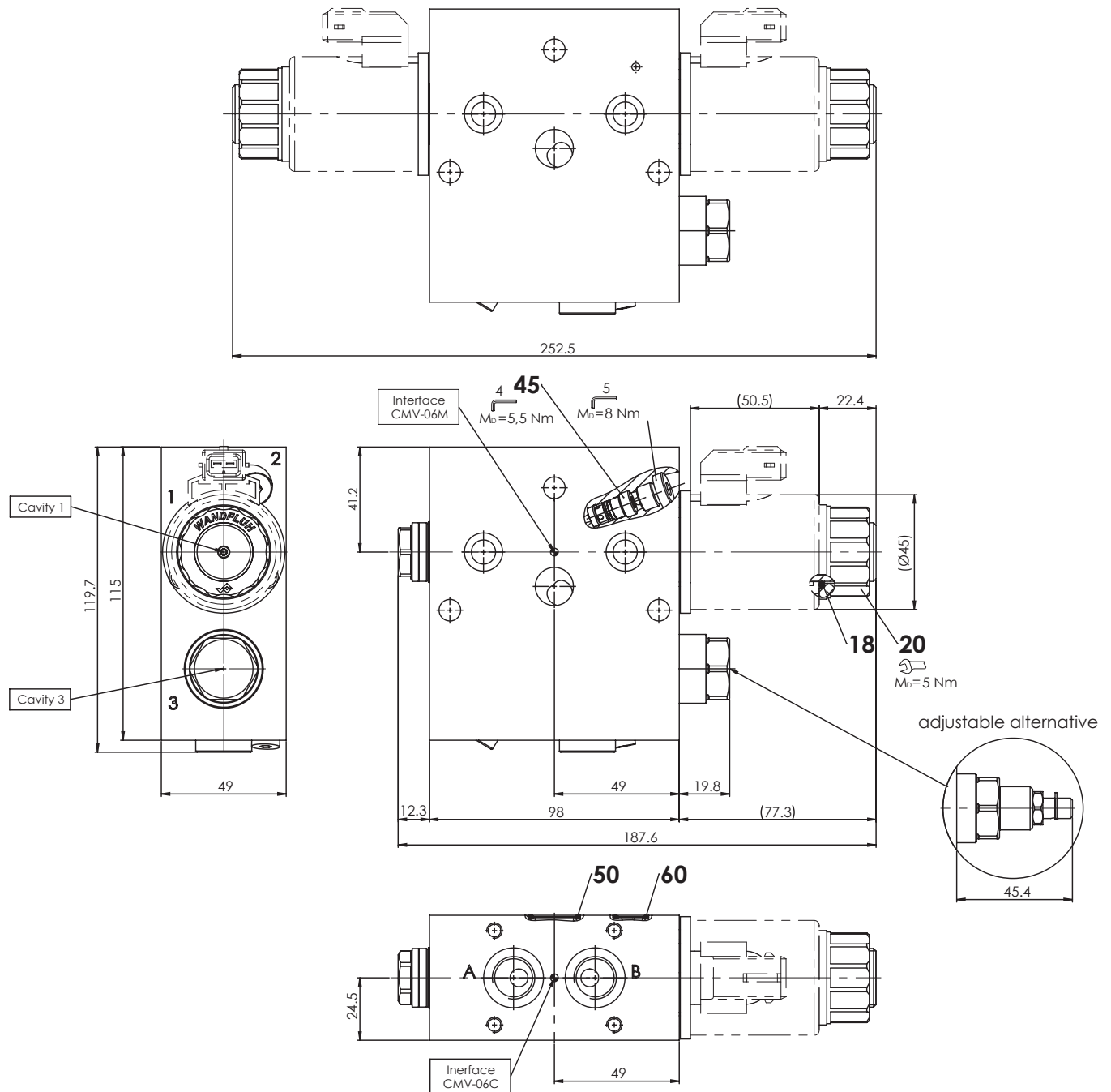
prop. solenoid operated spool valve P



EXEMPLARY DIAGRAM

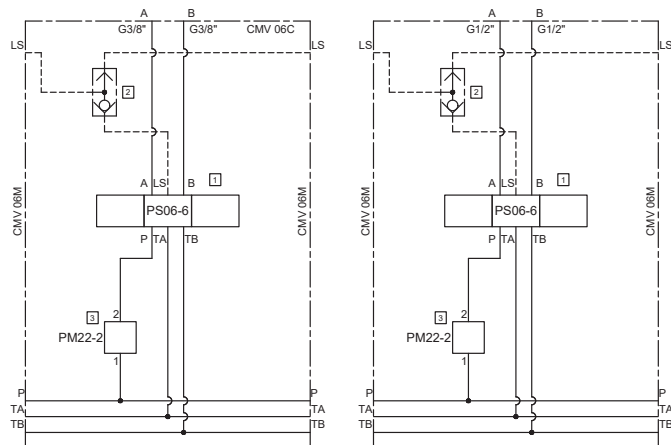
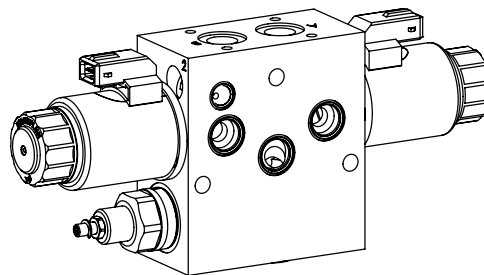


DIMENSIONS

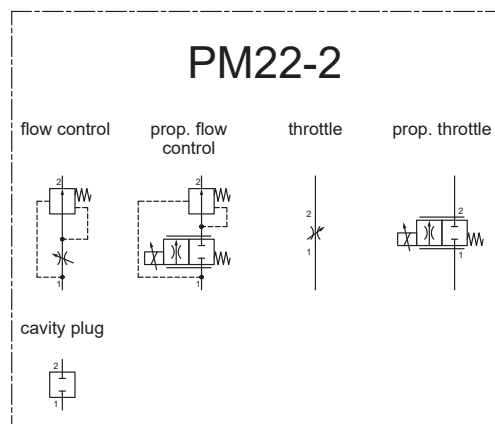


4.3 CONTROL SECTION LS PROP. / ON-OFF; SR 1x LS WITH CAVITIES: 1x PS06-6; 1x PM22-2

Material A Aluminium		CMV	A	-	MD06	-		-	D0	-		-		-	V	-		-		-	X5	-	#	
Modul function MD06 SR 1x LS with cavities: 1x PS06-6; 1x PM22-2																								
Connections for actuators A+B Threaded BSP 3/8" connections with CMV-06 interface for additional functions Threaded connections BSP 1/2" without interface		A B																						
Seal type D0 NBR																								
Proportional or on off Proportional solenoid Medium (or switch)		P M																						
Designation of symbols acc. to table PS06-6																								
Forward flow control																								
Nominal volume flow rate Q_N at Δp 10 bar		4 l/min		16 l/min		32 l/min		48 l/min																
Valve for cavity 3		Q_PPM22		D_PPM22		QZ_PM22		DN_PM22																
Coil		without coil (standard)		X5																				
Manual override		Actuating pin integrated in the anchor tube (standard)																						
Design index (subject to change)																								
4.0-10_MD06																								

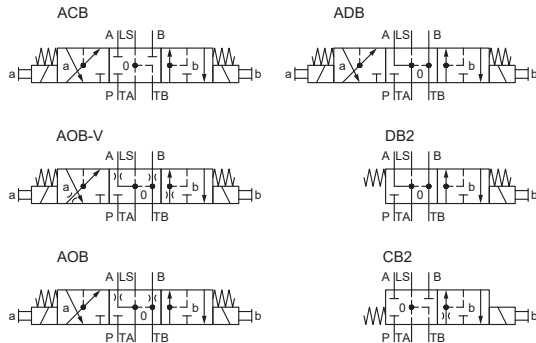
HYDRAULIC DIAGRAM

3D-MODEL

AVAILABLE VALVES FOR CAVITY PM22-2, POS 3

Designation	Link	Data sheet no.
Proportional 2-way flow control cartridge	Q_PPM22	2.6-631
Proportional throttle cartridge	D_PPM22	2.6-531
2-way flow control cartridge	QZ_PM22	2.5-535
Throttle cartridge	DN_PM22	2.4-532

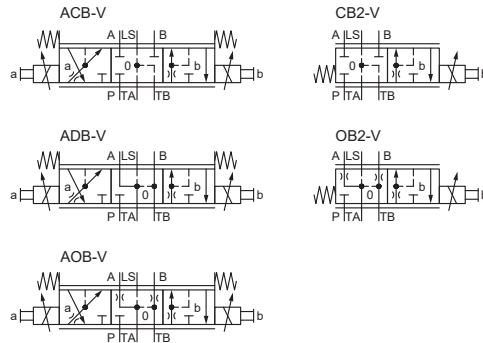


PS06-6

solenoid operated spool valve M



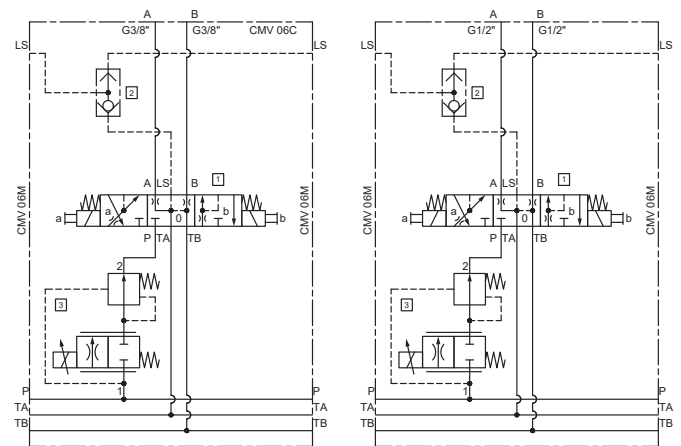
prop. solenoid operated spool valve P



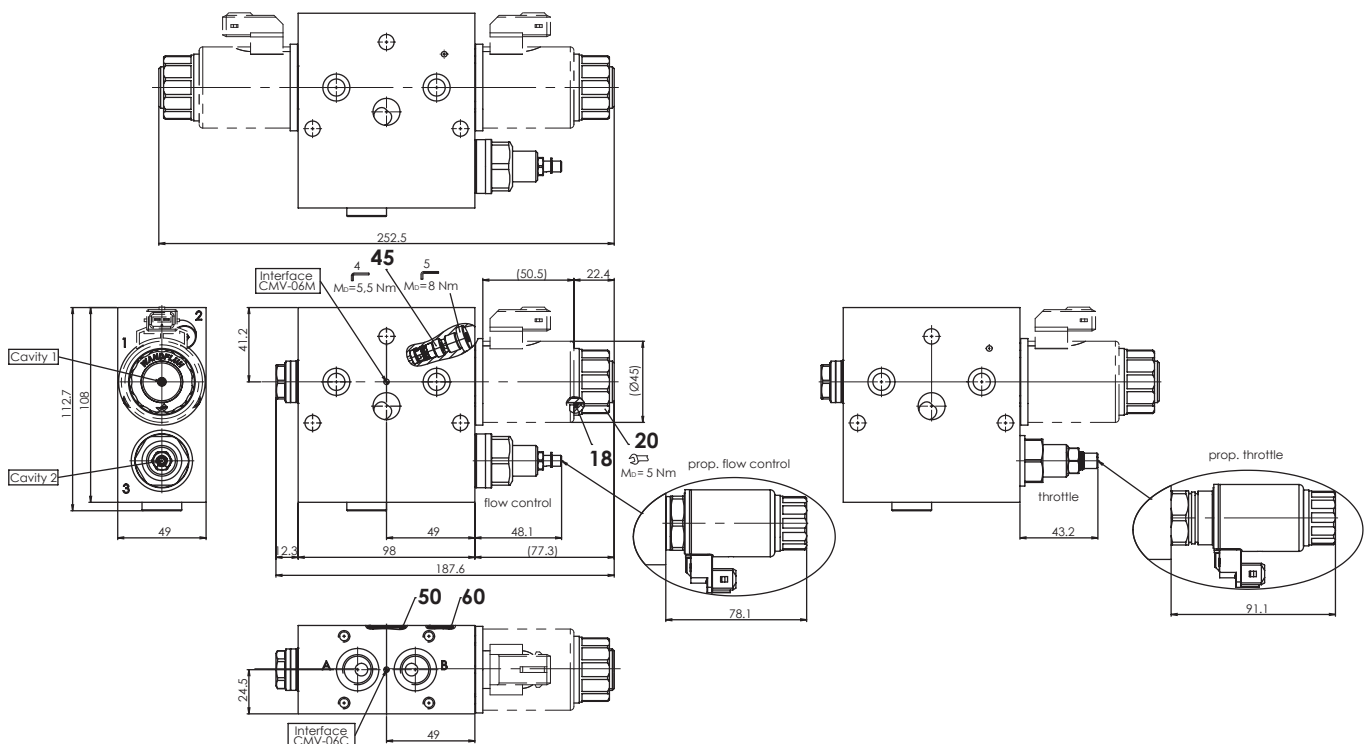
AVAILABLE VALVES FOR CAVITY PS06-6, POS.1

Designation	Link	Data sheet no.
CMVA-MA06-...-M	MA06-M	4.1-15
CMVA-MA06-...-P	MA06-P	4.1-10

EXEMPLARY DIAGRAM



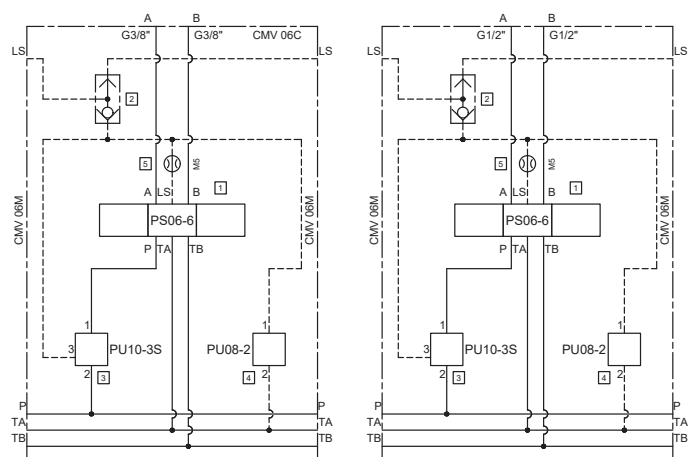
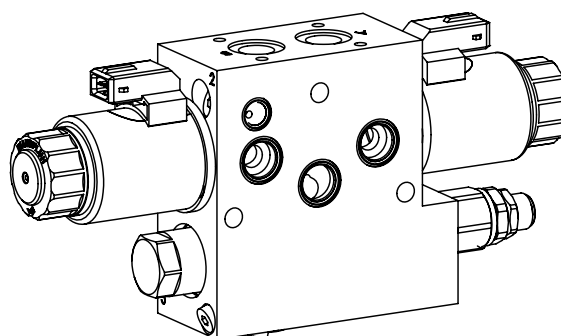
DIMENSIONS



4.4 CONTROL SECTION LS PROP. / ON-OFF; IDW BDW 1x LS WITH CAVITIES: 1x PS06-6; 1x PU12-3S; 1x PU08-2

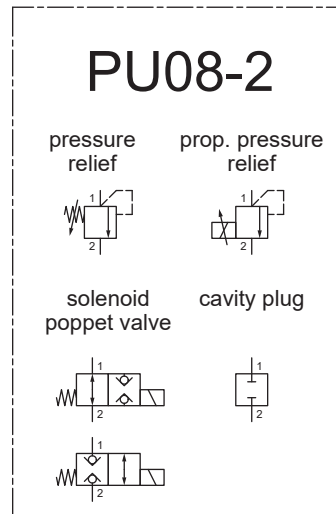
		CMV	A	-	MF06	-		-	D0	-		-		-	V	-		-		-		-	X5	-	#	
Material																										
A		Aluminium																								
Modul function																										
MF06		IDW BDW 1xLS w. cavities: 1x PS06-6, 1x PU12-3S, 1x PU08																								
Connections for actuators A+B																										
Threaded BSP 3/8" connections with CMV-06 interface for additional functions		A																								
Threaded connections BSP 1/2" without interface		B																								
Seal type																										
D0		NBR																								
Proportional or on off																										
Proportional solenoid		P																								
Medium (or switch)		M																								
Designation of symbols acc. to table PS06-6																										
Forward flow control																										
Nominal volume flow rate Q_N at Δp 10 bar		4 l/min		04																						
		16 l/min		16																						
		32 l/min		32																						
		48 l/min		48																						
Pressure range pressure compensator		5 bar		05																						
		10 bar		10																						
		15 bar		15																						
		adjustable 5 to 15 bar		05/15																						
Valve for cavity 4		BESPU08		A																						
		BDPPU08		B																						
		SDEPU08		C																						
Coil		without coil (standard)		X5																						
Manual override		Actuating pin integrated in the anchor tube (standard)																								
Design index (subject to change)																										

4.0-10_MF06

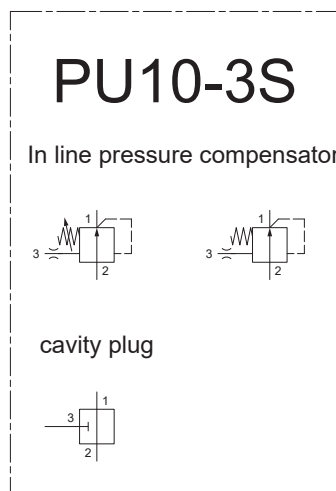
HYDRAULIC DIAGRAM

3D-MODEL


AVAILABLE VALVES FOR CAVITY PU08-2, POS. 4

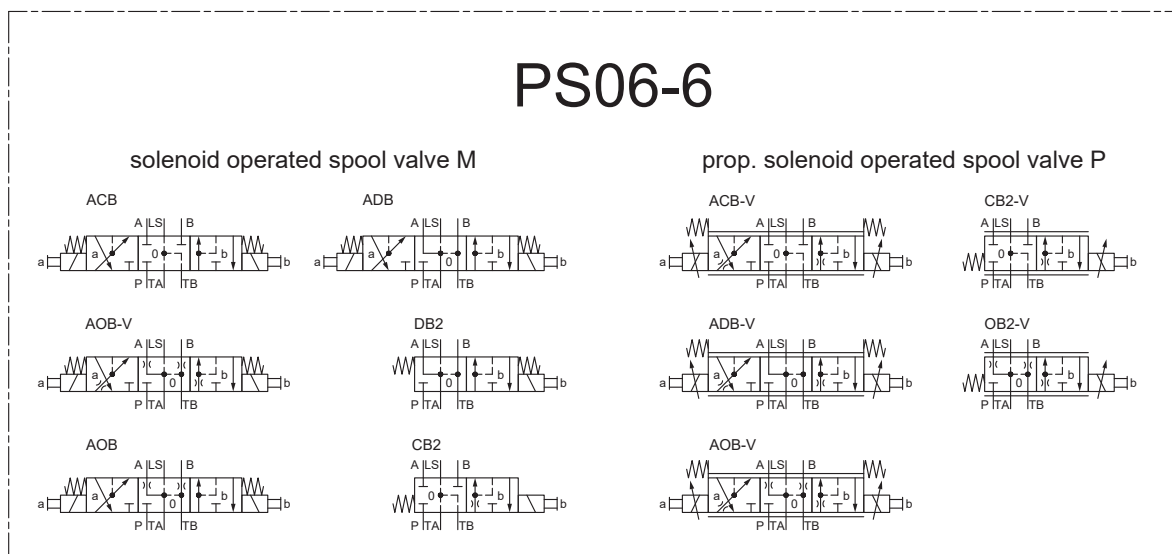
Designation	Link	Data sheet no.
Pressure relief cartridge direct operated, leakage free	BESPU08	2.3-525
Proportional pressure relief cartridge direct operated	BDPPU08	2.6-551
Poppet valve direct operated	SDEPU08	1.11-205B


AVAILABLE VALVES FOR CAVITY PU10-3S, POS. 3

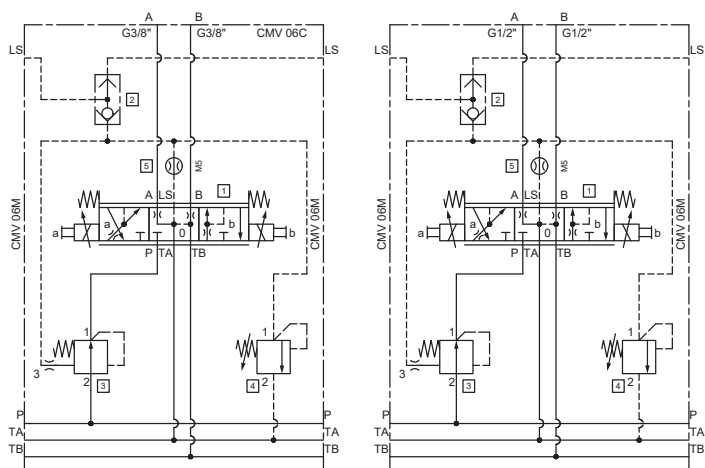
Designation	Link	Data sheet no.
Inline pressure compensator valve	UI_PU10	2.5-672


AVAILABLE VALVES FOR CAVITY PS06-6. POS.1

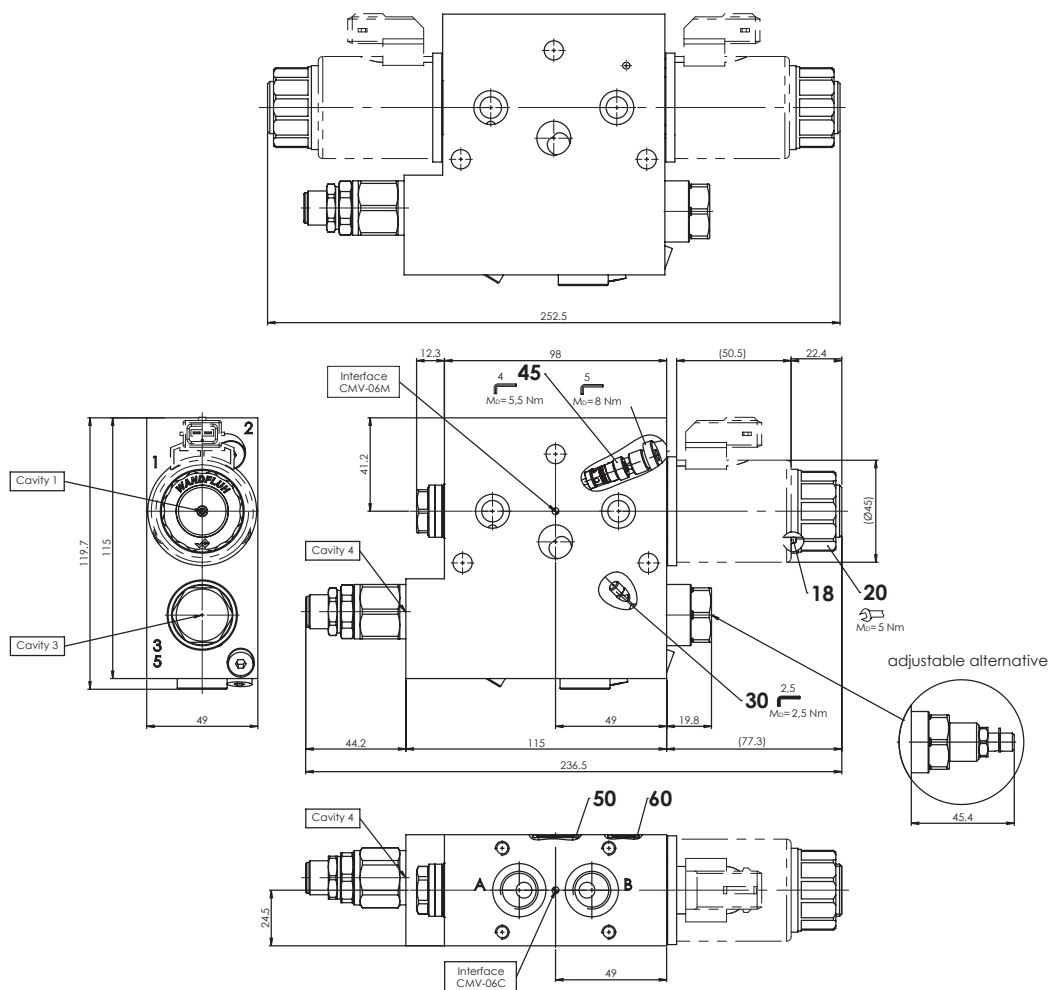
Designation	Link	Data sheet no.
CMVA-MA06-...-M	MA06-M	4.1-15
CMVA-MA06-...-P	MA06-P	4.1-10



EXEMPLARY DIAGRAM



DIMENSIONS



4.5 CONTROL SECTION LS PROP. / ON-OFF; IDW 1x LS 06M TO 06N WITH CAVITIES: 1x PS06-6; 1x PU12-3S

	CMV	A	-	MG06	-		-	D0	-		-		-	V	-		-		-	X5	-	#	
--	-----	---	---	------	---	--	---	----	---	--	---	--	---	---	---	--	---	--	---	----	---	---	--

Material
A Aluminium

Modul function
MG06 IDW 1x LS 06M to 06N with cavities:
1x PS06-6, 1x PU12-3S

Connections for actuators A+B
Threaded BSP 3/8" connections with CMV-06 interface for additional functions ☐ A
Threaded connections BSP 1/2" without interface ☐ B

Seal type
D0 NBR

Proportional or on off
Proportional solenoid ☐ P
Medium (or switch) ☐ M

Designation of symbols acc. to table PS06-6

Forward flow control

Nominal volume flow rate Q_N at Δp 10 bar

4 l/min	☐ 04
16 l/min	☐ 16
32 l/min	☐ 32
48 l/min	☐ 48

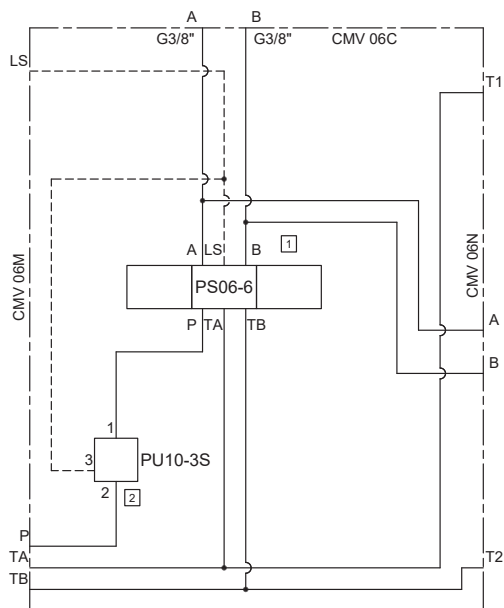
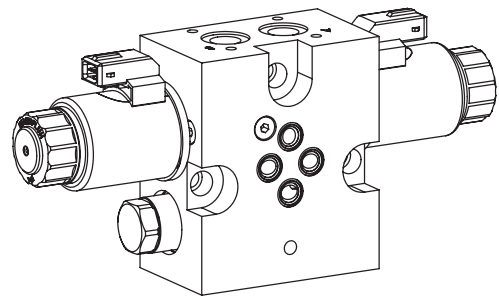
Pressure range pressure compensator

5 bar	☐ 05
10 bar	☐ 10
15 bar	☐ 15
adjustable 5 to 15 bar	☐ 05/15

Coil without coil (standard) ☐ X5

Manual override Actuating pin integrated in the anchor tube (standard) ☐

Design index (subject to change)

HYDRAULIC DIAGRAM

3D-MODEL


AVAILABLE VALVES FOR CAVITY PU10-3S, POS. 2

Designation	Link	Data sheet no.
Inline pressure compensator valve	UI_PU10	2.5-672

PU10-3S

In line pressure compensator



cavity plug

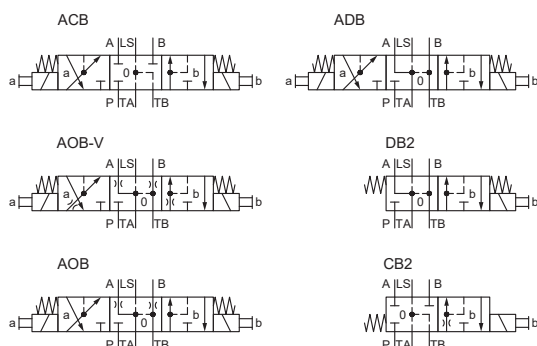


AVAILABLE VALVES FOR CAVITY PS06-6. POS.1

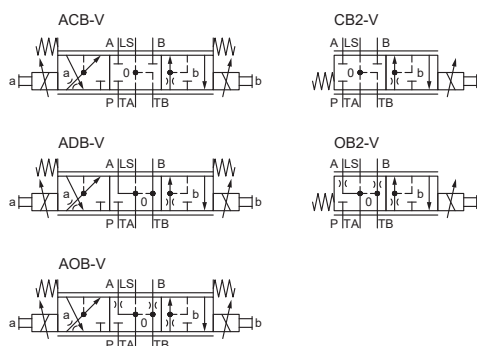
Designation	Link	Data sheet no.
CMVA-MA06-...-M	MA06-M	4.1-15
CMVA-MA06-...-P	MA-06-P	4.1-10

PS06-6

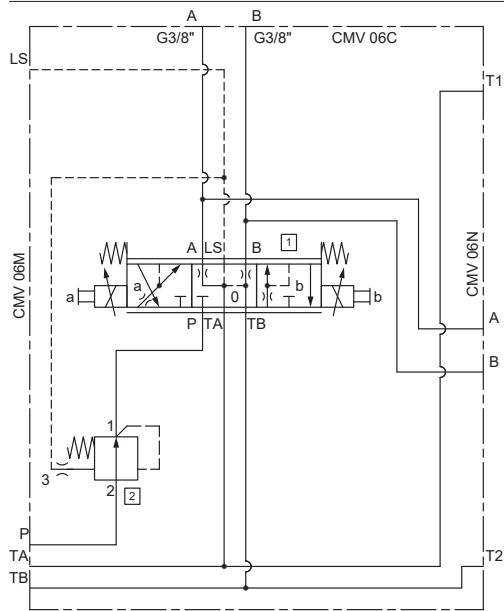
solenoid operated spool valve M



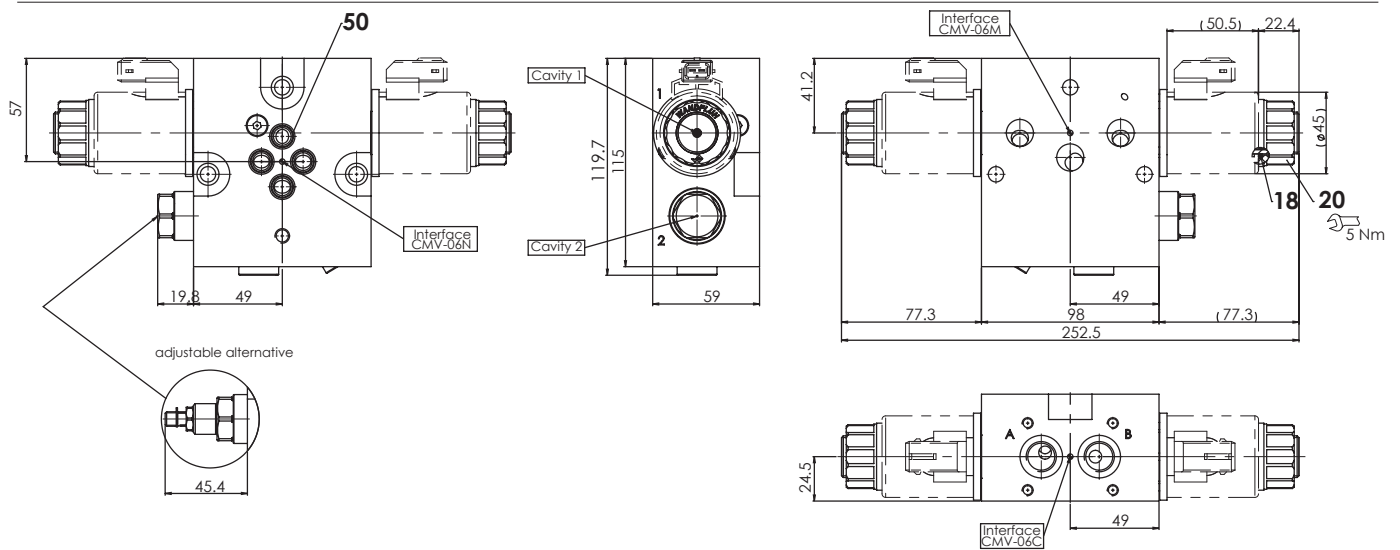
prop. solenoid operated spool valve P



EXEMPLARY DIAGRAM



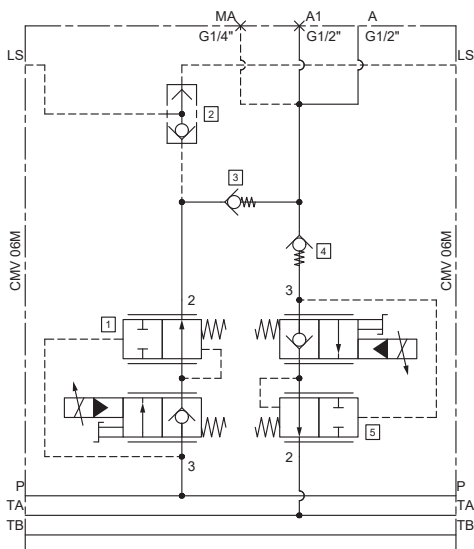
DIMENSIONS



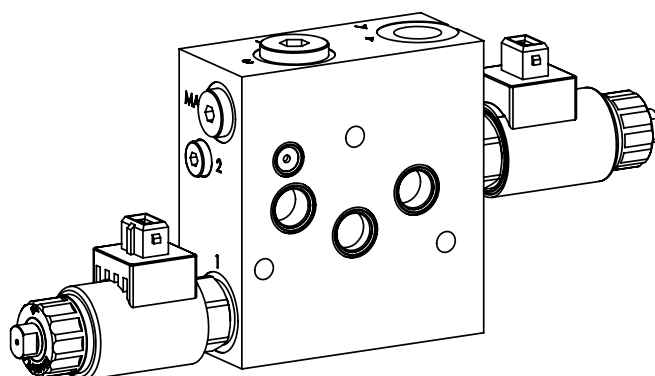
4.6 CONTROL SECTION LS PROP. LIFT AND LOWER

	CMV	A	-	ML06	-		-	D0	-		-	V	-		-	X5	-	#	
Material																			
A	Aluminium																		
Modul function																			
ML06	Lift and lower																		
Connections for actuators A+B																			
Threaded BSP 3/8" connections with CMV-06 interface for additional functions																			
Threaded connections BSP 1/2" without interface																			
Seal type																			
D0	NBR																		
Proportional or on off																			
Proportional solenoid																			
Medium (or switch)																			
Forward flow control																			
Nominal volume flow rate Q_N at Δp 10 bar																			
	4 l/min	04																	
	16 l/min	16																	
	32 l/min	32																	
	48 l/min	48																	
Coil																			
	without coil (standard)																		
	X5																		
Manual override																			
	Actuating pin integrated in the anchor tube (standard)																		
Design index (subject to change)																			
4.0-10_ML06																			

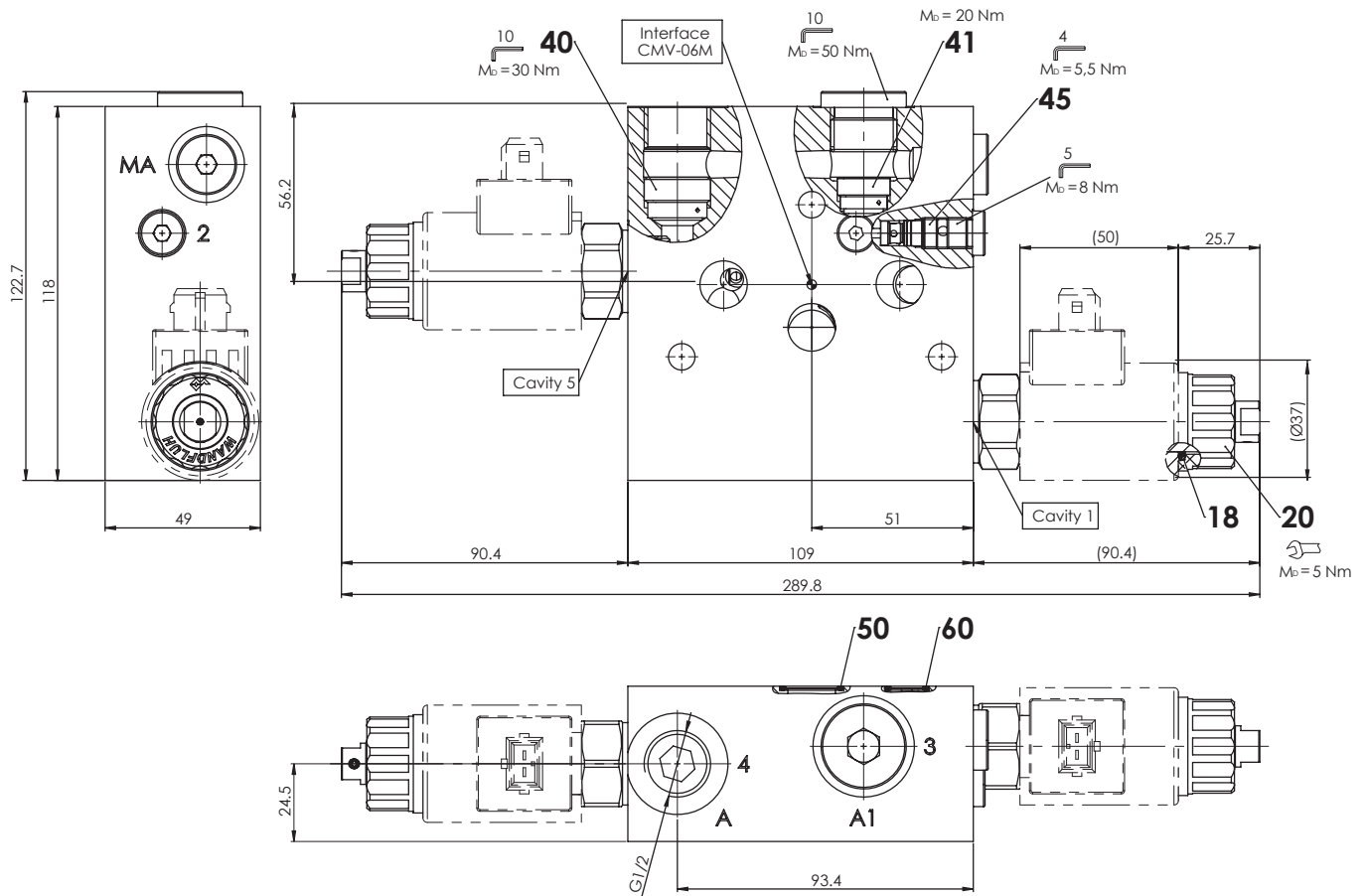
HYDRAULIC DIAGRAM



3D-MODEL



DIMENSIONS



4.7 CONTROL SECTION 2x SV WITH CAVITIES: 2x PU08-2

CMV A - NS04 - A - 04N - 04N - A - A - D0 # 1

Material

A Aluminium
S Steel

Module design

NS04 Control Section

Module function

A 2x SV with cavities: 2x PU08-2

Module interface lateral right

04N CMV 04N

Module interface lateral left

04N CMV 04N

Port connections

A A1, B1 = G3/8"
A2, B2 = G1/8" (CMV 04N)

Surface protection

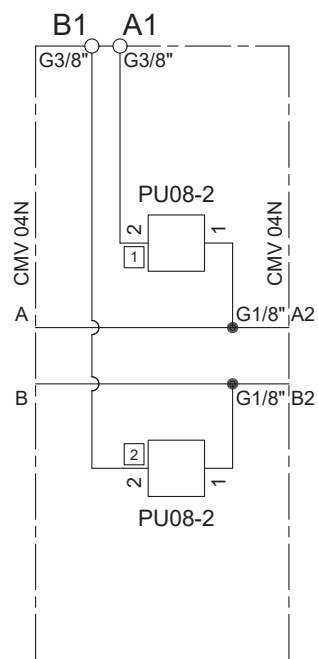
A Alu without protection

Seal type

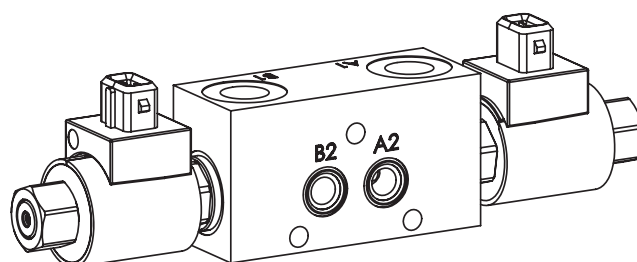
D0 NBR

Design index (subject to change)

HYDRAULIC DIAGRAM



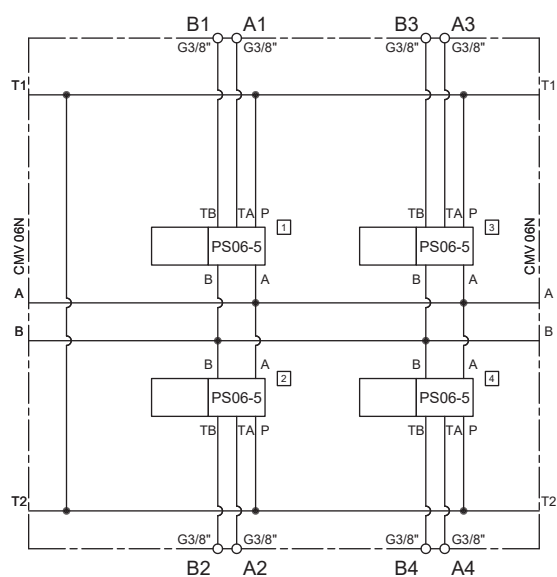
3D-MODEL



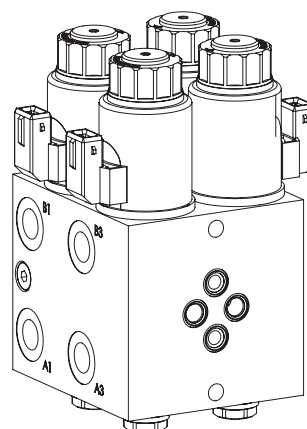
4.8 CONTROL MONO 4x OC WITH CAVITIES: 4x PS06-5

	CMV	A	-	MM06	-	A	-	06N	-	06N	-	A	-	A	-	D0	#	1
Material																		
A		Aluminium																
S		Steel																
Module design																		
NM06		Control Mono																
Module function																		
A		4x OC with cavities: 4x PS06-5																
Module interface lateral right																		
06N		CMV 06N																
Module interface lateral left																		
06M		CMV 06N																
Port connections																		
A		A1...A4, B1...B4 = G3/8"																
Surface protection																		
A		Alu without protection																
Seal type																		
D0		NBR																
Design index (subject to change)																		

HYDRAULIC DIAGRAM

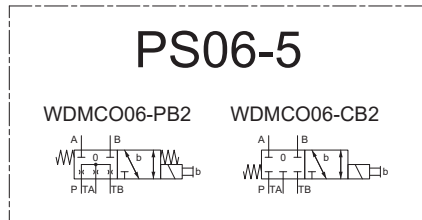
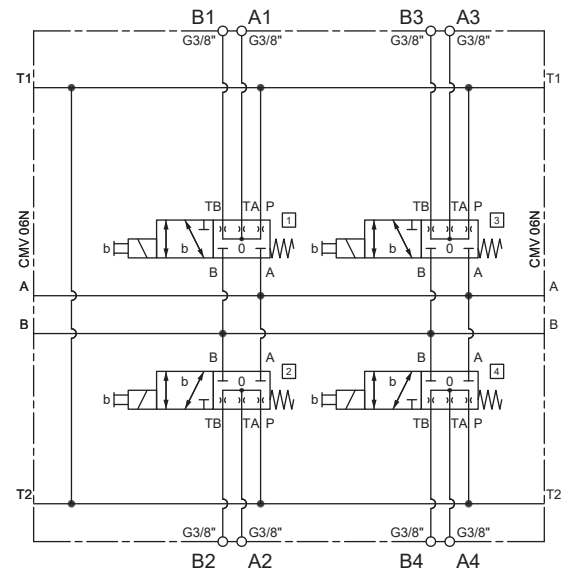
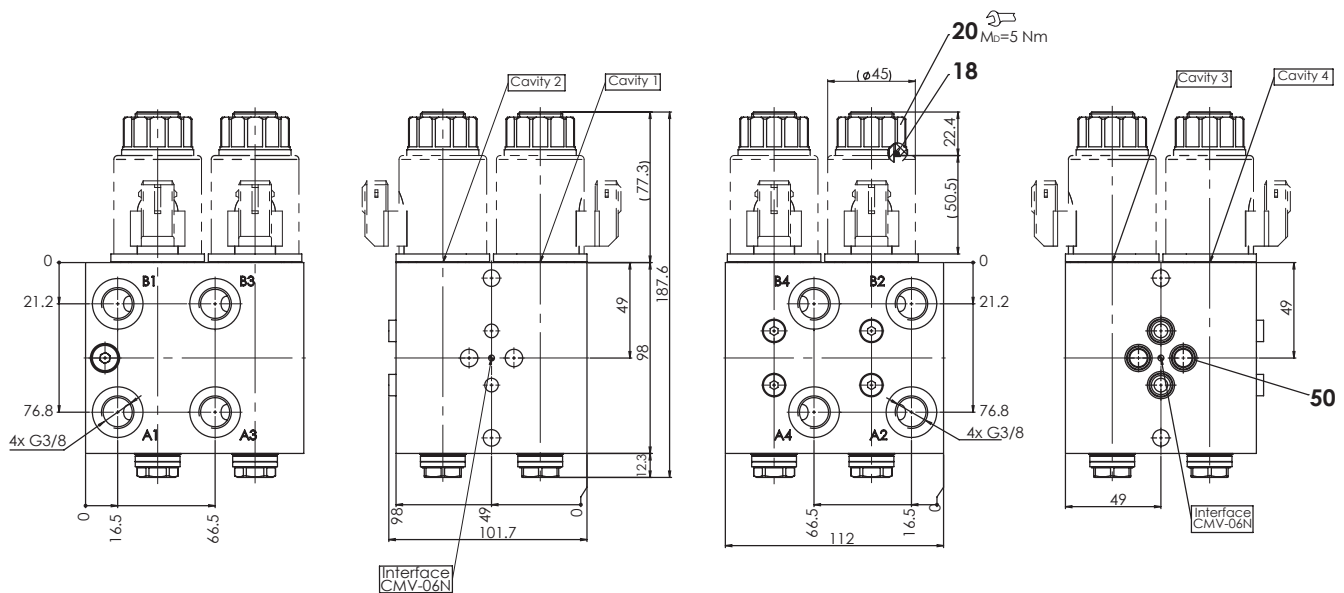


3D-MODEL



AVAILABLE VALVES FOR CAVITY PS06-5, POS. 1 TO 4

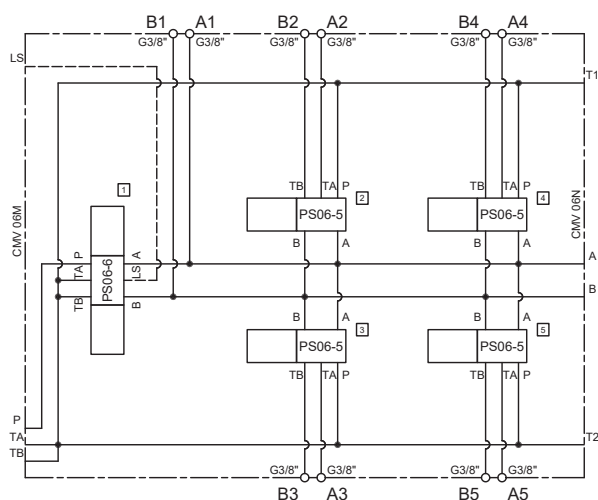
Designation	Link	Data sheet no.
CMVA-MA06-...-M	MA06-M	4.1-15
CMVA-MA06-...-P	MA-06-P	4.1-10


EXEMPLARY DIAGRAM

DIMENSIONS


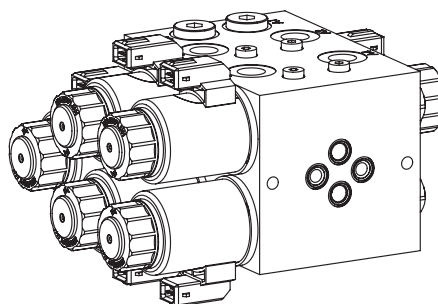
4.9 CONTROL MONO LS SWITCH 4x OC WITH CAVITIES: 1x PS06-6; 4x PS06-5

	CMV	A	-	MM06	-	B	-	06N	-	06M	-	A	-	A	-	D0	#	1
Material																		
A		Aluminium																
S		Steel																
Module design																		
MM06		Control Mono																
Module function																		
B		LS switch 4x OC with cavities: 1x PS06-6, 4x PS06-5																
Module interface lateral right																		
06N		CMV 06N																
Module interface lateral left																		
06M		CMV 06M																
Port connections																		
A		A1...A5, B1...B5 = G3/8"																
Surface protection																		
A		Alu without protection																
Seal type																		
D0		NBR																
Design index (subject to change)																		

HYDRAULIC DIAGRAM



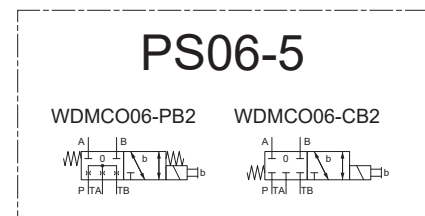
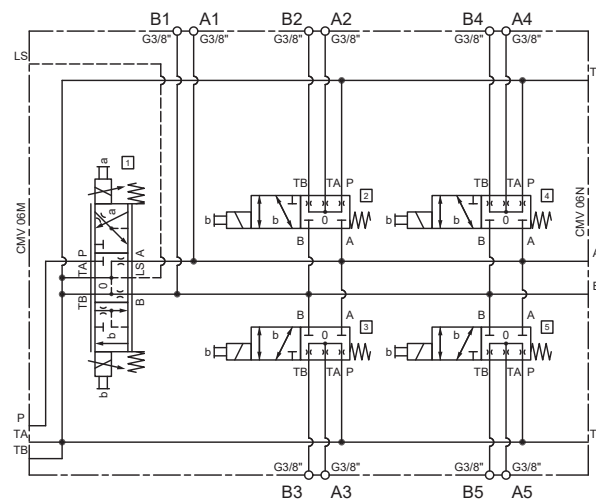
3D-MODEL



AVAILABLE VALVES FOR CAVITY PS06-5, POS. 2 TO 5

Designation	Link	Data sheet no.
CMVA-MA06-...-M	MA06-M	4.1-15
CMVA-MA06-...-P	MA06-P	4.1-10

EXEMPLARY DIAGRAM

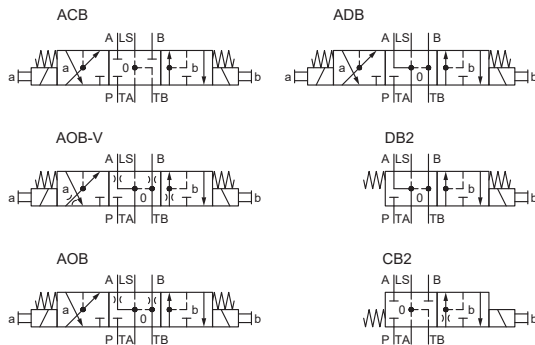


AVAILABLE VALVES FOR CAVITY PS06-6. POS.1

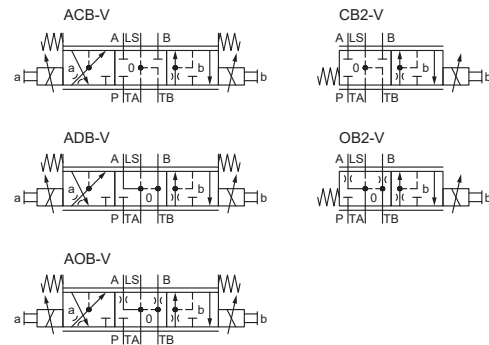
Designation	Link	Data sheet no.
CMVA-MA06-...-M	MA06-M	4.1-15
CMVA-MA06-...-P	MA06-P	4.1-10

PS06-6

solenoid operated spool valve M



prop. solenoid operated spool valve P



DIMENSIONS

