2-way Logic Cartridge Valves Directional Function

Model: LC...7X (logic cartridge valves) LFA...7X (control cover)



◆ Maximum working pressure 420 bar

ГИДРООТВЕТ доступная гидравлика

◆ Maximum working flow 3000 L/min

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Features

- Valve poppet with or without damping nose
- 2 area ratios
- 4 types of springs
- 4 stroke limitations
- Control cover with integrated seat valve
- Control cover with integrated shuttle valve
- Control cover for set-up of directional spool valves with or without installed shuttle valve
- Control cover for set-up of directional seat valves with or without installed shuttle valve

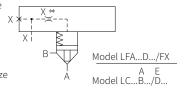
Function

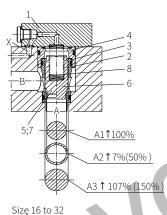
The function of 2-way logic cartridge valves depends on the pressure. Therefore, there are three important pressure-bearing areas A1, A2, A3 for actuation of the valve. The area of the valve seat A1 is taken as 100%. Depending on the type, the annulus area A2 is 7% or 50% of the area A1. Therefore, the area ratio A1:A2 is either 14.3:1 or 2:1. The area A3 is equal to A1+A2. Due to the different area ratios A1:A2, the annulus area A2 is also different. The area A3 may be 107% or 150% when 100% area at seat A1.

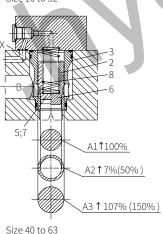
Basic application

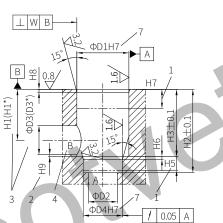
The areas A1 and A2 are operated in the opening direction. The area A3 and the spring are operated in the closing direction. The effective direction generated by the combination of the opening and closing directions determines the position of the spool of the 2-way logic cartridge valve.

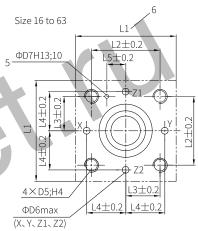
The oil can flow from A to B or B to A through the 2-way logic cartridge valve. When the area A3 is compressed by the pilot oil of channel B or external pilot oil supply, the channel A is closed without leakage."











1 Depth of fit

2 Reference dimension

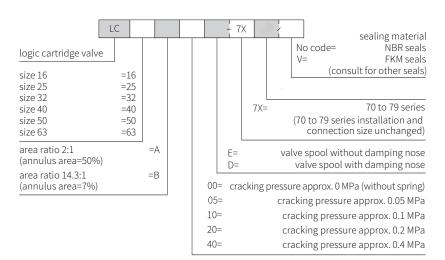
3 If the diameter of port B is not Φ D3 or $(\Phi D3^*)$, then the distance from the cover support surface to the center of the hole must be calculated. 4 Port B can be installed around the central axis of port A, but it must be ensured that the installation hole and pilot hole are not damaged 5 Locating pin hole 6 The length L1 (x-y axis of the hole) of

the control cover (with directional valve) is 80mm for size 16. 7 If D ≤ 45mm, H8 is allowed to be

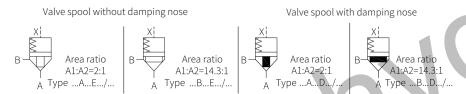
installed.

Size	16	25	32	40	50	63
ΦD1	32	45	60	75	90	120
ΦD2	16	25	32	40	50	63
ΦD3	16	25	32	40	50	63
ΦD4	25	34	45	55	68	90
ΦD5	M8	M12	M16	M20	M20	M30
ΦD6	4	6	8	10	10	12
ФD7	4	6	6	6	8	8
H1	34	44	52	64	72	95
(H1*)	29.5	40.5	48	59	65.5	96.5
H2	56	72	85	105	122	155
Н3	43	58	70	87	100	130
H4	20	25	35	45	45	65
H5	11	12	13	15	17	20
H6	2	2.5	2.5	3	3	4
H7	20	30	30	30	35	40
Н8	2	2.5	2.5	3	4	4
Н9	0.5	1	1.5	2.5	2.5	3
L1	65/80	85	102	125	140	180
L2	46	58	70	85	100	125
L3	23	29	35	42.5	50	62.5
L4	25	33	41	50	58	75
L5	10.5	16	17	23	30	38
W	0.05	0.05	0.1	0.1	0.1	0.2

Logic cartridge valves models and specifications



Logic cartridge valves functional symbols



Technical parameters

Maximum	without directional valve	e bar	420
working	port A, B, X, Z1, Z2	bar	315;350; 420 (dependent on the attached directional valve)
pressure	port Y bar		Depending on the return oil pressure of the directional valve
December of division			Mineral oil - for NBR seal or FKM seal
riessule III	Pressure medium		Phosphate ester - for FKM seal
Draceura	Pressure medium temperature range °C		-30 to +80 (NBR seal)
Pressure III			-20 to +80 (FKM seal)
Viscosity ra	nge	mm²/s	2.8 to 380
Cleanliness	s of oil		The maximum allowable pollution level of oil is ISO4406 Class 20 / 18 / 15 10

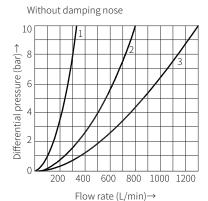
¹⁾The oil must meet the cleanliness degree requested by the components in the hydraulic system. Effective oil filtration can prevent failure and increase the service life of the components.

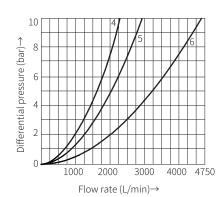
Technical parameters

2-way logic cartridge valves-directional function

A	Madal		Size							
Area	Model	16	25	32	40	50	63			
A1 cm ²	LCA	1.89	4.26	6.79	11.1	19.63	30.2			
AI CIII	LCB	2.66	5.73	9.51	15.55	26.42	41.28			
	LCA	0.95	1.89	3.39	5.52	8.64	14			
A2 cm ²	LCB	0.18	0.43	0.67	1.07	1.85	2.90			
A3 cm ²	LCA	2.84	6.16	10.18	16.62	28.27	44.2			
A3 CITI*	LCB	2.84	6.16	10.18	16.62	28.27	44.2			
Charles	LCE	0.9	1.17	1.4	1.7	2.1	2.3			
Stroke cm	LC,.D.	0.9	1.17	1.4	1.9	2.3	2.8			
Bil i l	LCE	2.56	7.21	14.3	28.3	59.4	102			
Pilot volume cm ³	LCD	2.56	7.21	14.3	31.6	65.0	124			
Theoretical pilot	LCE	15.4	43.3	86	170	356	612			
Flow 1) (L/min)	LCD	15.4	43.3	86	190	390	744			
Weight kg	Logic cartridge valves LC	0.25	0.5	1.1	1.9	3.9	7.2			
	LCA 00	0.02	0.02	0.05	0.05	0.05	0.07			
	LCA 05	0.35	0.35	0.36	0.35	0.37	0.31			
Cracking pressure	LCA 10	0.70	0.68	0.72	0.71	0.67	0.64			
bar	LCA 20	2.03	2.18	2.12	2.02	2.01	2			
	LCA 30	_	_	_	_	_	_			
	LCA 40	3.50	3.90	3.80	4.0	4.11	3.8			
	LCB 00	0.01	0.02	0.04	0.04	0.04	0.05			
Direction of flow	LCB 05	0.25	0.26	0.26	0.25	0.28	0.23			
A to B	LCB 10	0.49	0.50	0.51	0.51	0.48	0.47			
Atob	LCB 20	1.44	1.62	1.52	1.44	1.5	1.5			
	LCB 30	_	_	_	_	_	_			
	LCB 40	2.48	2.90	2.70	2.86	3.05	2.8			
	LCA 00	0.04	0.05	0.1	0.1	0.1	0.14			
	LCA 05	0.69	0.78	0.72	0.7	0.84	0.68			
	LCA 10	1.38	1.53	1.42	1.43	1.47	1.37			
Cracking pressure	LCA 20	4.05	4.91	4.25	4.06	4.57	4.33			
bar	LCA 30	_	_	_	_	_	_			
	LCA 40	6.96	8.74	7.6	8.05	9.34	8.15			
	LCB 00	0.24	0.25	0.5	0.5	0.5	0.8			
	LCB 05	3.69	3.4	3.64	3.64	3.95	3.27			
Direction of flow B to A	LCB 10	7.43	6.69	7.24	7.37	6.88	6.62			
BIOA	LCB 20	21.3	21.5	21.6	20.9	21.4	20.9			
	LCB 30	_	_	_	-	_	_			
	LCB 40	36.6	38.3	38.6	41.5	43.6	39.4			

(Measured when using HLP46, $\vartheta_{\rm oi}$ =40°C \pm 5°C)

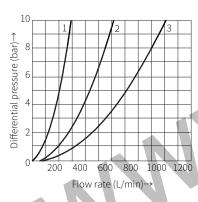


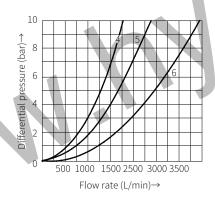


- 1 Size 16 2 Size 25
- 3 Size 32

4 Size 40 5 Size 50 6 Size 63

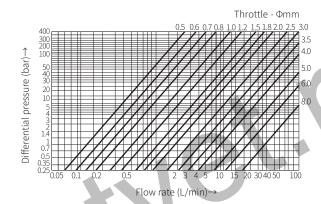
With damping nose





1 Size 16 2 Size 25 3 Size 32

4 Size 40 5 Size 50 6 Size 63



	Thread	Throttle-Φmm
١	ZM6	0.5 to 3.0
V	ZM8	0.5 to 4.0
	R3/8	0.8 to 6.0
	R1/2	1.0 to 8.0

Ordering code for throttle

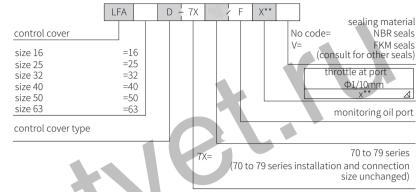
Nominal size	Thread	Ordering code					
NOMINAL SIZE	Throttle Φ mm	ZM6	ZM8	R3/8	R3/8		
	0.5	ZM6×1-Φ0.5	ZM8×1-Φ0.5	_	_		
	0.6	ZM6×1-Φ0.6	ZM8×1-Φ0.6	_	-		
	0.7	ZM6×1-Φ0.7	ZM8×1-Φ0.7	_	-		
16	0.8	ZM6×1-Φ0.8	ZM8×1-Φ0.8	R3/8-Ф0.8	_		
25	1	ZM6×1-Φ1.0	ZM8×1-Φ1.0	R3/8-Ф1.0	R1/2-Ф1.0		
32	1.2	ZM6×1-Φ1.2	ZM8×1-Φ1.2	R3/8-Ф1.2	R1/2-Ф1.2		
40	1.5	ZM6×1-Φ1.5	ZM8×1-Φ1.5	R3/8-Φ1.5	R1/2-Ф1.5		
50	1.8	ZM6×1-Φ1.8	ZM8×1-Φ1.8	R3/8-Ф1.8	R1/2-Ф1.8		
63	2	ZM6×1-Φ2.0	ZM8×1-Φ2.0	R3/8-Ф2.0	R1/2-Ф2.0		
	2.5	ZM6×1-Φ2.5	ZM8×1-Φ2.5	R3/8-Φ2.5	R1/2-Ф2.5		
	3	ZM6×1-Φ3.0	ZM8×1-Φ3.0	R3/8-Ф3.0	R1/2-Ф3.0		
	3.5	_	ZM8×1-Φ3.5	R3/8-Ф3.5	R1/2-Ф3.5		
	4	_	ZM8×1-Φ4.0	R3/8-Ф4.0	R1/2-Ф4.0		
	5	_	_	R3/8-Ф5.0	R1/2-Ф5.0		
	6	_	_	R3/8-Ф6.0	R1/2-Ф6.0		
	8	_		_	R1/2-Ф8.0		

Infernal hexagon according to GB/T70.1-10.9 grade (included in the supply list)

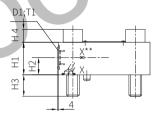
Size	Control cover type	Dimension	Quantity	Tightening torqueM _x (Nm)	Size	Control cover type	Dimension	Quantity	Tightening torqueM _x (Nm)
	D	M8×40				D	M20×70		
	G	M8×40				G	M20×70		
	GW A,GW B	M8×45				GW A,GW B	M20×70		
	H1,H2	M8×40	1			H1,H2	M20×110		
16			4	34.3	40	R,RF	M20×70	4	373
	KW A,KW B	M8×45				KW A,KW B	M20×70		
	W E A,WEB	M8×45				W E A,WEB	M20×70		
	W ECA	M8×40				W ECA	M20×70		
	WEMA,WEMB	M8×70				WEMA,WEMB	M20×70		
	D	M12×50				D	M20×80		
	G	M12×50				G	M20×80		
	GW A,GW B	M12×50				GW A,GW B	M20×80		
	H1,H2	M12×50				H2	M20×120		
25	R,RF	M12×50	4	95	50	R,RF	M20×80	4	373
	KW A,KW B	M12×50				KW A,KW B	M20×80		
	WEA,WEB	M12×50				WEA,W EB	M20×80		
	W ECA	M12×50				W EC A	M20×80		
	WEMA,WEMB	M12×50				WEMA,WEMB	M20×80		
32	D,G,R,RF GW A,GW B, KW A,KW B, W EA,W EB, W ECA, W EMA,W EM B	M16×60	4	196	63	D,G,R,RF GW A,GW B, KW A,KW B, W EA,W EB, W ECA, W EMA,W EMB	M30×100	4	1315
	H1,H2	M16×80				H2	M30×150		

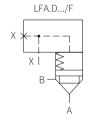
Control cover "D" with remote control

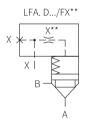
Size 16 to 63

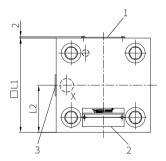


If necessary, please provide specifications of the throttle e.g. X12= throttle Φ 1.2mm Standard throttle see page 07/24









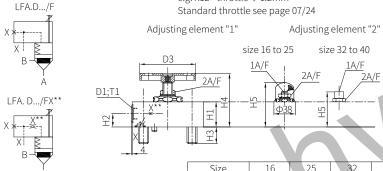
Size	16	25	32	40	50	63
D1	G1/8	G1/4	G1/4	G1/2	G1/2	G3/4
X**1)	ZM6	ZM6	ZM6	ZM8	ZM8	R3/8
H1	27	30	35	60	68	82
H2	12	16	16	30	32	40
НЗ	15	20	25	32	34	50
H4	6	12	16	_	_	_
L1	65	85	100	125	140	180
L2	32.5	42.5	50	72	80	90
T1	8	12	12	14	14	16
Weight kg	0.9	1.7	2.7	6.6	9.4	18.7

- 1) Ordering code of throttle see page 07/24
- 1 Name plate for size 16/25/32
- 2 Name plate for size 40/50/63

3 Optional port X used as threaded connection port

Size 16 to 40

If necessary, please provide specifications of the throttle e.g. X12= throttle Φ 1.2mm



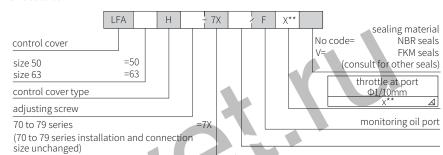
À	SIZE	10	23	32	40
А	D1	G1/8	G1/4	G1/4	G1/2
1	X**1)	ZM6	ZM6	ZM6	ZM8
N 1	D3	60	80	80	100
	H1	35	40	75	95
	H2	12	16	16	30
	H3	15	24	28	32
	H4max	90	95	120	160
	H5max	76	80	100	146
N N N N N N N N N N N N N N N N N N N	□L1	65	85	100	125
	L2	32.5	42.5	50	72
	T1	8	12	12	14
	1A/F ²⁾	6	6	10	14
3 2	2A/F	21	22	27	46
	Weight kg	1.3	2.3	5.5	11.2

2) Internal hexagon

- 1 Name plate for size 16/25/32
- 2 Name plate for size 40
- 3 Optional port X used as threaded connection port

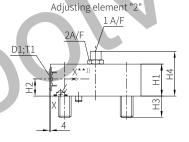
Control cover "H" with stroke limitation and remote control

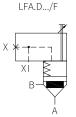
Size 50 to 63

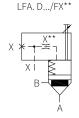


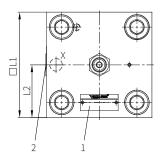
If necessary, please provide specifications of the throttle e.g. X12= throttle Φ 1.2mm

Standard throttle see page 07/24









Size	50	63
D1	G1/2	G3/4
X**1)	ZM8	R3/8
H1	110	125
H2	32	40
НЗ	34	50
H4max	156	175
□L1	140	180
L2	80	90
T1	14	16
1A/F ²⁾	17	24
2A/F	55	65
Weight kg	15.8	30.2

- 1) Ordering code of throttle see page 07/24
- 2) Internal hexagon

- 1 Name plate
- 2 Optional port X used as threaded connection port

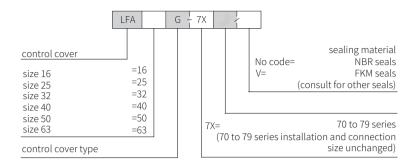
0851

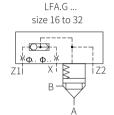
0850

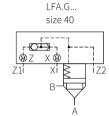
¹⁾ Ordering code of throttle see page 07/24

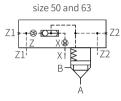
Control cover "G" with integrated shuttle valve

Size 16 to 63

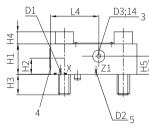








LFA.G ...



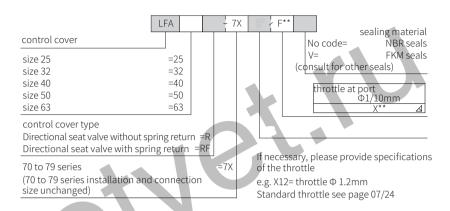
2	<u>L5</u>	L3	D3;:	14 ¹	
		(T)×	Z1		
	17		- 72		D2 6

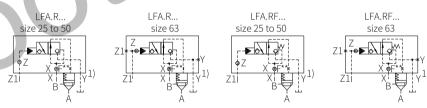
16	25	32	40	50	63
Ф1.2	Ф1.5	Ф2.0	M6	M8×1	M8×1
Ф1.2	Ф1.5	Ф2.0	M6	$M8 \times 1$	M8×1
_	_	+		G1/2	G1/2
35	30	35	60	68	82
17	17	21.5	30	32	42
15	24	28	32	34	50
	12	16		_	-
= = =	<u> </u>	_	-	32	40
65	85	100	125	140	180
36.5	45.5	50	62.5	70	90
71		_	_	72	81
-	_	_	_	72	90
4.5	4	1	_	6	4
	Φ1.2 Φ1.2 — 35 17 15 — 65 36.5 —	Φ1.2 Φ1.5 Φ1.2 Φ1.5 — — — 35 30 17 17 15 24 — 12 — — 65 85 36.5 45.5	Φ1.2 Φ1.5 Φ2.0 Φ1.2 Φ1.5 Φ2.0 - - - 35 30 35 17 17 21.5 15 24 28 - 12 16 - - - 65 85 100 36.5 45.5 50 - - - - - -	Φ1.2 Φ1.5 Φ2.0 M6 Φ1.2 Φ1.5 Φ2.0 M6 — — — — 35 30 35 60 17 17 21.5 30 15 24 28 32 — 12 16 — — — — — 65 85 100 125 36.5 45.5 50 62.5 — — — —	Φ1.2 Φ1.5 Φ2.0 M6 M8×1 Φ1.2 Φ1.5 Φ2.0 M6 M8×1 — — — G1/2 35 30 35 60 68 17 17 21.5 30 32 15 24 28 32 34 — 12 16 — — — — — 32 32 65 85 100 125 140 36.5 45.5 50 62.5 70 — — — — 72 — — — — 72

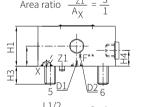
- 1 Name plate for size 16/25/32
- 2 Name plate for size 40/50/63
- 3 Optional ports Z1 and Z2 used as threaded connection ports for size 25/32/50/63
- 4 Shuttle valve
- 5 D2 for size 16 to 40

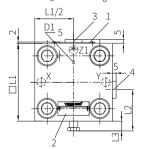
Control cover "R" and "RF" with integrated directional seat valve

Size 25 to 63





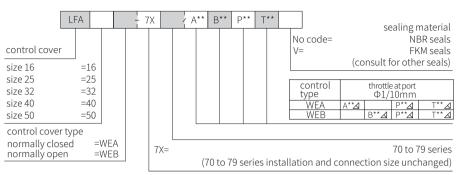




C: .	т	25	32	40	50	63
Size	Туре	25	32	40	50	03
F**2)		ZM6	ZM6	ZM8	ZM8	ZM8
H1		40	50	60	68	82
H2		20	26	30	34	40
Н3		24	28	32	34	50
H4		15.5	26	30	34	40
□L1		85	100	125	140	180
L2		50	50	65.7	70	78.5
L3	R	3	3	4	4	-
LS	RF	18	18	25	25	16
Weight	kg	2.1	3.6	6.7	9.5	18.3

- 1) Maximum working pressure at port Y 5 bar
- 2) Ordering code of throttle see page 07/24
- 1 Name plate for size 16/25/32
- 2 Name plate for size 40/50/63
- 3 Optional port Z1 used as threaded connection port for size 25 to 63
- 4 Optional port Z1 used as threaded connection port for size 25 to 63
- 5 D1 for size 25 to 50
- 6 D1 for size 63

05



Control cover "WEA" and "WEB" for set-up of a directional spool or diretional seat valve

▲ If necessary, please provide specifications of the throttle e.g. X12= throttle Φ 1.2mm Standard throttle see page 07/24

I FA.WFA... size 16 to 32 Direction spool valve model: 4WE6D



I FA.WFB...

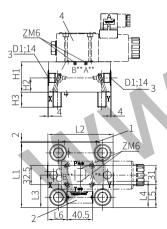






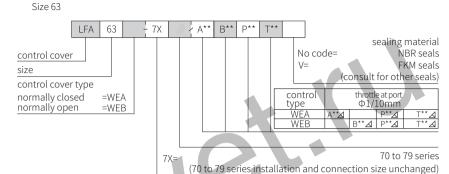


51. 4VVLUD	IIIOUEI. 4WLOD
XII W _b	acz X Wb.
X Y	χi
В	B-

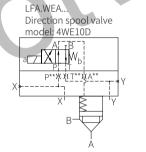


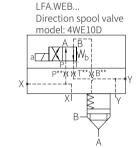
Size	16	25	32	40	50
D1	-	_	_	G1/2	G1/2
H1	40	40	50	60	68
H2	W -			30	32
НЗ	15	24	28	32	34
L1	65	85	100	125	140
L2	80	85	100	125	140
L3		_	_	72	80
L4	_	_	_	53	60
L5	17	27	34.5	47	54.5
L6	7	23.5	31	43.5	51
A**B** T**P**1)	ZM6	ZM6	ZM6	ZM6	ZM6
Weight kg	1.5	2.1	3.6	6.6	9.3

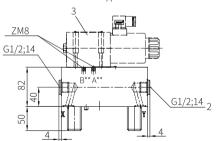
- 1) Ordering code of throttle see page 07/24
- 1 Name plate for size 16/25/32
- 2 Nameplate for size 40/50
- 3 Optional ports X and Y used as threaded connection ports for size 40/50
- 4 Direction spool valve 4WE6D and screw
- M5x50-10.9 GB T70.1 must be ordered separately

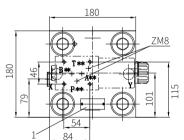


△ If necessary, please provide specifications of the throttle e.g. X12= throttle Φ 1.2mm Standard throttle see page 07/24











- 1 Name plate
- 2 Optional ports X and Y used as threaded connection ports
- 3 Direction spool valve 4WE10D and screw M6x40-10.9 GB T70.1 must be ordered separately Weight (kg): 18.6
- 1) Ordering code of throttle see page 07/24

Control cover "WEMA" and "WEMB" for set-up of a directional spool or diretional seat valve

△ If necessary, please provide specifications of the throttle e.g. X12= throttle Φ 1.2mm Standard throttle see page 07/24

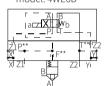
LFA.WEMA... size 16 to 32 Direction spool valve model: 4WE6D

normally open

=WEMB



LFA.WEMB... LFA.WEMA... size 16 to 32 size 40 to 50 Direction spool valve Direction spool valve model: 4WE6D



r = Al	В	1 -
acz X	<u>I</u> w̄b	l a
,- LPI	U-+-	Lı –ı –
Z1P**	T**1/Z2	Ż1P**
X Y	F** <u>M</u>	<u> </u>
X ¹ Z1 ¹	Z2l Yı	X' Z1'
₽\□	,	

5	6 H	4	
3 D1;14	F**	F**	
1	L2	G1/:	D1;14_3 - 2;14 ₃

	-	-1-4	-		-4	
7	1		L2		4	2;14 ₃
		(1)	1 P***			ZM6
_	932.		B ∏A T**			31
4]-	(<u>()</u>		((*)	/0.14	77
	2	L5_	40.5	61	/2;14	

Size	16	25	32	40	50
D1	_	4		G1/2	G1/2
H1	65	40	50	60	68
H2	_	1	_	30	32
H3	15	24	28	32	34
L1	65	85	100	125	140
L2	80	85	100	125	140
L3	\vdash	_		53	60
L4	17	27	34.5	47	54.5
L5	7	23.5	31	43.5	51
L6		_	_	72	80
P** T**	ZM 6	ZM 6	ZM 6	ZM 6	ZM 6
F**	2.3	2.1	3.6	6.6	9.3

LFA.WEMB...

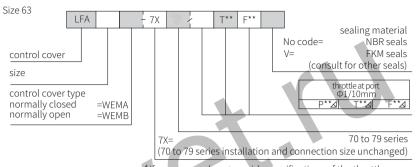
size 40 to 50

model: 4WE6D

Direction spool valve

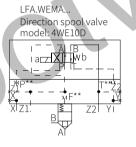
1) Ordering code of throttle see page 07/24

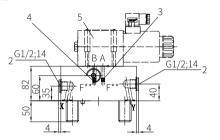
- 1 Name plate for size 16/25/32
- 2 Name plate for size 40/50
- 3 2 Optional ports X and Y used as threaded connection ports for size 40/50
- 4 Plug ZM6 for model: ..WEMB...
- (port B with or without throttle F * *, port A with plug)
- 5 Plug ZM6 for model: ..WEMA... (port A with or without throttle F * *, port B with plug)
- 6 Direction spool valve 4WE6D and screw M5x50-10.9 GB T70.1 must be ordered separately

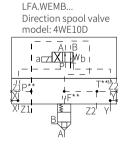


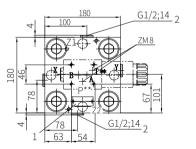
△ If necessary, please provide specifications of the throttle e.g. X12= throttle Φ 1.2mm

Standard throttle see page 07/24







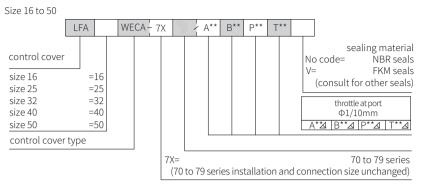


P**,T**,F** ¹⁾	ZM8
---------------------------	-----

¹⁾Ordering code of throttle see page 07/24

- 1 Name plate
- 2 Optional ports X/Y/Z1/Z2 used as threaded connection ports
- 3 Plug ZM8 for model: ..WEMB... (port B with or without throttle F * *, port A with plug)
- 4 Plug ZM8 for model: ..WEMA... (port A with or without throttle F * *, port B with plug)
- 5 Direction spool valve 4WE10D and screw M6x40-10.9 GB T70.1 must be ordered separately Weight (kg): 18.6

Control cover "WECA" for set-up of a directional spool valve



LFA16WECA...

△If necessary, please provide specifications of the throttle e.g. X12= throttle Φ 1.2mm Standard throttle see page 07/24

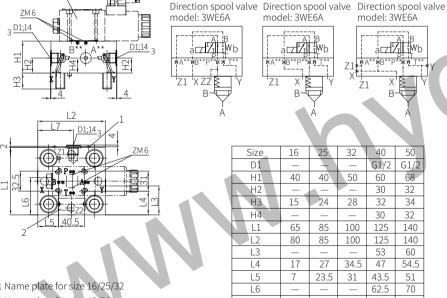
LFA...WECA...

size 25 and 32

LFA...WECA...

size 40 and 50

model: 3WE6A



1 Name	plate	for	size	16/2	5/32

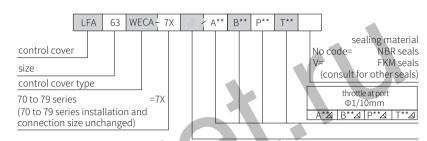
- 2 Name plate for size 40/50
- 3 Optional ports X/Y/Z1 used as threaded connection ports for size 40 and 50
- 4 Direction spool valve 3WE6A and screw M5x50-10.9 GB T70.1 must be ordered separately

		W			74
Size	16	25	32	40	50
D1	_	7	_	G1/2	G1/2
H1	40	40	50	60	68
H2		_	_	30	32
H3	15	24	28	32	34
H4		_	_	30	32
L1	65	85	100	125	140
L2	80	85	100	125	140
L3	_	_	_	53	60
L4	17	27	34.5	47	54.5
L5	7	23.5	31	43.5	51
L6	_	_	_	62.5	70
L7	_	_	_	72	80
A**B** P**T**1)	ZM 6				
Weight kg	1.5	2.1	3.6	6.6	9.3

¹⁾ Ordering code of throttle see page 07/24

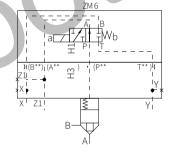
Control cover "WECA" for set-up of a directional spool valve

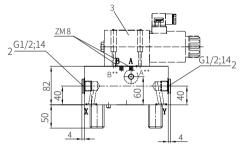
Size 63



△ If necessary, please provide specifications of the throttle e.g. X12= throttle Φ 1.2mm Standard throttle see page 07/24

LFA63WFCA. Direction spool valve model: 3WE10A

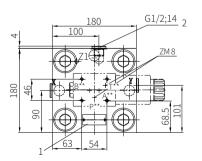




A**B**	7140	
D** T**1)	ZIVI8	
F , I 1)	1 1	

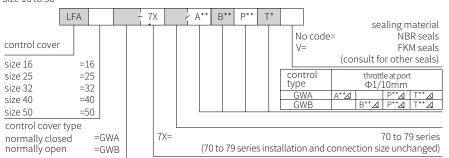
1) Ordering code of throttle see page 07/24

- 1 Name plate
- 2 Optional ports X/Y/Z1/Z2 used as threaded connection ports
- 3 Direction spool valve 3WE10A and screw M6x40-10.9 GB T70.1 must be ordered separately



0858

Size 16 to 50



Control cover "GWA" and "GWB" for set-up of a directional spool or directional seat valve

△ If necessary, please provide specifications of the throttle e.g. X12= throttle Φ 1.2mm Standard throttle see page 07/24

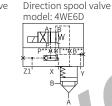
LFA.GWA... size 16 to 32 Direction spool valve model: 4WE6D



LFA.GWB... size 16 to 32 Direction spool valve model: 4WE6D

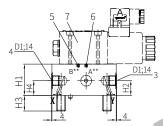


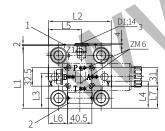
LFA.GWA... size 40 and 50 Direction spool valve



LFA.GWB...

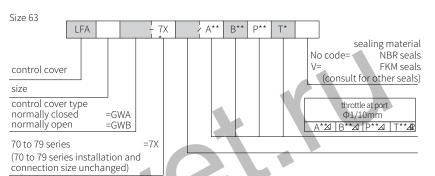
size 40 and 50





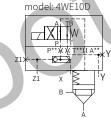
Size	16	25	32	40	50
D1	_			G1/2	G1/2
H1	40	40	50	60	68
H2	_	_ `	-	30	32
Н3	15	24	28	32	34
H4	17	17	21.5	30	32
L1	65	85	100	125	140
L2	80	85	100	125	140
L3	36.5	45.5	50	62.5	72
L4		_	_	53	60
L5	_	_	_	62.5	70
L6	7	23.5	31	43.5	51
L7	17	27	34.5	47	54.5
A**B** P**T**1)	ZM 6	ZM 6	ZM 6	ZM 6	ZM 6
Weight kg	1.5	2.1	3.6	6.6	9.3

- 1 Name plate for size 16/25/32
- 2 Name plate for size 40/50
- 3 Optional ports Y and Z1 used as threaded connection ports for size 40/50
- 4 Shuttle valve
- 5 Plug ZM6 for model: ..GWA...(port B with plug only)
- 6 Plug ZM6 for model: ..GWB...(port A with plug only)
- 7 Direction spool valve 4WE6D and screw M5x50-10.9 GB T70.1 must be ordered separately



△ If necessary, please provide specifications of the throttle e.g. X12= throttle Φ 1.2mm

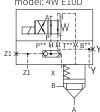
Standard throttle see page 07/24

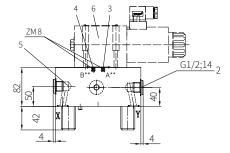


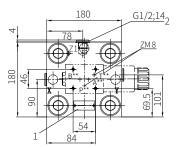
LFA.63GWA..

Direction spool valve

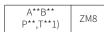
LFA.63GWB.. Direction slide valve model: 4W E10D







- 1 Name plate
- 2 Optional ports Y and Z1 used as threaded connection ports for size 40/50
- 3 Plug ZM8 for model: ..GWB...(port A with plug only)
- 4 Plug ZM8 for model: ..GWA...(port B with plug only)
- 5 Shuttle valve
- 6 Direction spool valve 4WE10D and screw M5x50-10.9 GB T70.1 must be ordered separately Weight (kg): 18.6



¹⁾Ordering code of throttle see page 07/24

0860

LFA control cover

size 16 =16 size 25 =25 size 32 =32 =40 size 40

=50 size 50 =KWA

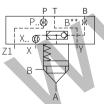
control cover type normally closed normally open =KWB

7X= (70 to 79 series installation and connection size unchanged) △ If necessary, please provide specifications of the throttle e.g. X12= throttle Φ 1.2mm

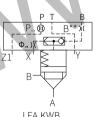
4WE6D (Only for LFA.KWA...)

7X

LFA16KWA... (see above model 4WE6D...)



LFA16KWB... (see above model 4WE6D...)



LFA.KWA...

size 25 and 32

(see above model 4WE6D...

Control cover "KWA" and "KWB" for set-up of a directional spool or directional seat valve

A** B**

Standard throttle see page 07/24

No code= V=

control

KWA

KWB

type

LFA.KWB... size 25 and 32 (see above model 4WE6D...)



sealing material NBR seals

(consult for other seals)

throttle at port

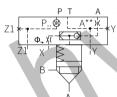
Φ1/10mm

A**⊿

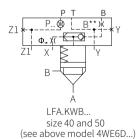
FKM seals

70 to 79 series

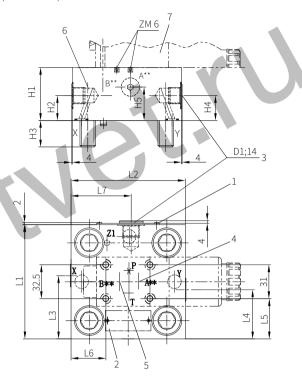
B******⊿



LFA.KWA... size 40 and 50 (see above model 4WE6D...)



Model ..KWA/..KWB..(size 16 to 50)

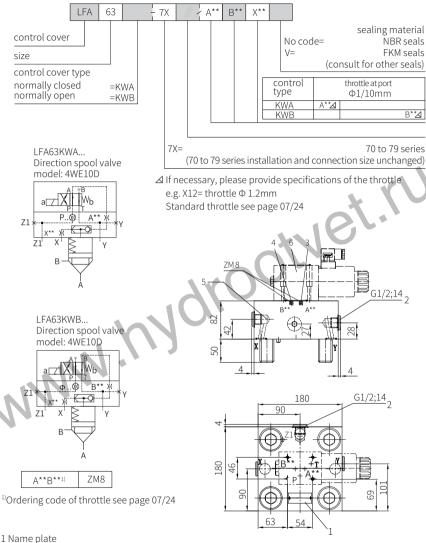


Size	16	25	32	40	50
D1	_	_	_	G1/2	G1/2
H1	40	40	50	60	68
H2	17	17	21.5	30	32
Н3	15	24	28	32	34
H4	_	_	_	30	32
H5	_	_	_	30	50
L1	65	85	100	125	140
L2	80	85	100	125	140
L3	36.5	45.5	50	62.5	72
L4	_	_	_	53	60
L5	17	27	34.5	47	54.5
L6	7	23.5	31	43.5	51
L7	_	_	_	62.5	70
A**B**1)	ZM 6				
Weight kg	1.5	2.1	3.6	6.6	9.3

¹⁾Ordering code of throttle see page 07/24

- 1 Name plate for size 16/25/32
- 2 Name plate for size 40/50
- 3 optional ports Y and Z1 used as threaded connection ports for size 40/50
- 4 Plug ZM6 for model ..KWB...(port A with plug only)
- 5 Plug ZM6 for model ..KWA...(port B with plug only)
- 6 Shuttle valve
- 7 Direction spool valve 4WE6D and screw M5x50-10.9 GB T70.1 must be ordered separately

Size 63



- 2 Optional ports Y and Z1 used as threaded connection ports for size 40/50
- 3 Plug for model ..KWB...
- 4 Plug for model ..KWA...
- 5 Shuttle valve
- 6 Direction spool valve 4WE10D and screw M6x40-10.9 GB T70.1 must be ordered separately Weight (kg): 18.6