

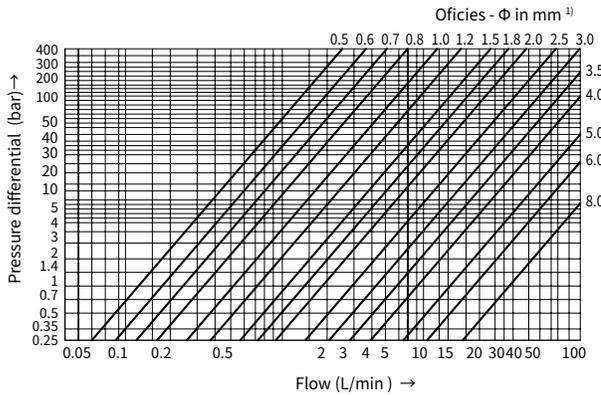
NO. HL-EN-L-LFA... 06/2024

5.1-2

2-way cartridge valves -directional function

Control covers Type L-LFA...

Characteristic curves for selection of orifices



¹⁾ Possible orifice - Φ in relation to the thread size

Thread	orifice - Φ (mm)
ZM6	0.5 to 3.0
ZM8	0.5 to 4.0
R3/8	0.8 to 6.0
R1/2	1.0 to 8.0

Ordering detail of orifice and plug

Nominal size	Thread		Ordering code			
	Orifice Φ mm		ZM6	ZM8	R3/8	R1/2
	0.5		ZM6-05	ZM8-05	-	-
	0.6		ZM6-06	ZM8-06	-	-
	0.7		ZM6-07	ZM8-07	-	-
16	0.8		ZM6-08	ZM8-08	R3/8-08	-
25	1		ZM6-10	ZM8-10	R3/8-10	R1/2-10
32	1.2		ZM6-12	ZM8-12	R3/8-12	R1/2-12
40	1.5		ZM6-15	ZM8-15	R3/8-15	R1/2-15
50	1.8		ZM6-18	ZM8-18	R3/8-18	R1/2-18
63	2		ZM6-20	ZM8-20	R3/8-20	R1/2-20
	2.5		ZM6-25	ZM8-25	R3/8-25	R1/2-25
	3		ZM6-30	ZM8-30	R3/8-30	R1/2-30
	3.5		-	ZM8-35	R3/8-35	R1/2-35
	4		-	ZM8-40	R3/8-40	R1/2-40
	5		-	-	R3/8-50	R1/2-50
	6		-	-	R3/8-60	R1/2-60
	8		-	-	-	R1/2-80
Plug			LT02.20.004	LT02.20.006	R3/8JB/ZQ4446	R1/2JB/ZQ4446

Fixing screws

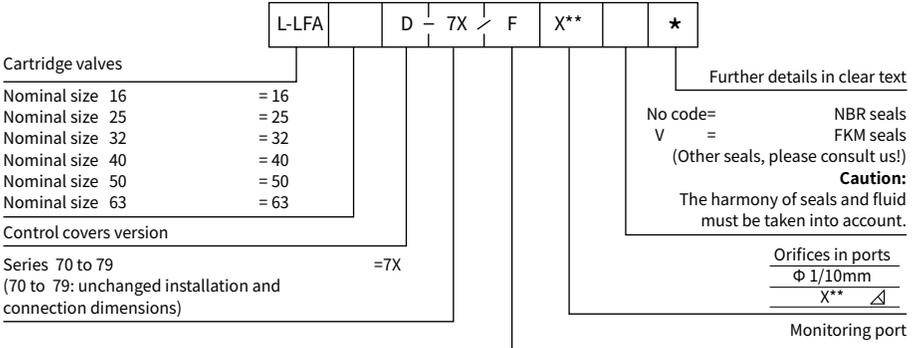
Internal hexagon according to GB/T 70.1-10.9 (Included in supply list)

Size	Type of control covers	Dimension	QTY	Tighting torque M_A (Nm)	Nominal size	Type of control covers	Dimension	QTY	Tighting torque M_A (Nm)
16	D	M8×40	4	32	40	D	M20×70	4	520
	G	M8×40				G	M20×70		
	GWA, GWB	M8×45				GWA, GWB	M20×70		
	H1, H2	M8×40				H1, H2	M20×110		
						R, RF	M20×70		
	KWA, KWB	M8×45				KWA, KWB	M20×70		
	WEA, WEB	M8×45				WEA, WEB	M20×70		
	WECA	M8×40				WECA	M20×70		
	WEMA, WEMB	M8×70				WEMA, WEMB	M20×70		
	25	D				M12×50	4		
G		M12×50	G	M20×80					
GWA, GWB		M12×50	GWA, GWB	M20×80					
H1, H2		M12×50	H2	M20×120					
R, RF		M12×50	R, RF	M20×80					
KWA, KWB		M12×50	KWA, KWB	M20×80					
WEA, WEB		M12×50	WEA, WEB	M20×80					
WECA		M12×50	WECA	M20×80					
WEMA, WEMB		M12×50	WEMA, WEMB	M20×80					
32		D, G, R, RF GWA, GWB, KWA, KWB, WEA, WEB, WECA, WEMA, WEMB	M16×60	4	270	63		D, G, R, RF GWA, GWB, KWA, KWB, WEA, WEB, WECA, WEMA, WEMB	M30×100
	H1, H2	M16×80	H2				M30×150		

Control covers with remote control

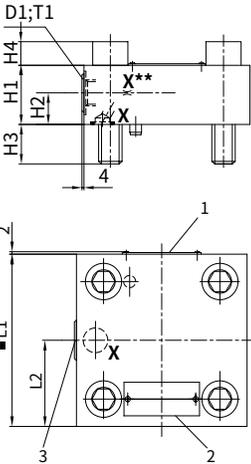
(Dimensions in mm)

·Type..D... (Nominal sizes 16 to 63)



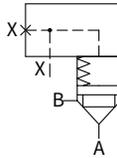
If need, please provide the size of orifices, for example: X12 = orifice Φ1.2mm. standard orifice see page 10/28 of this chapter.

05

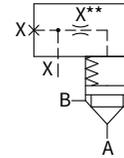


- 1 Nameplate used for sizes 16, 25 and 32
- 2 Nameplate used for sizes 40, 50 and 63
- 3 Optional port X used as threaded connection

L-LFA.D.../F



L-LFA.D.../FX**



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
H3	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 detail of orifice, see page 10/28 of this chapter.

Control covers with stroke limiter and remote control

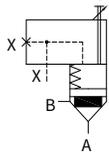
(Dimensions in mm)

• Type..H... (Nominal sizes 16 to 40)

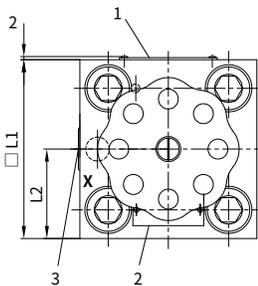
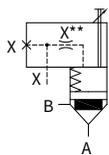
	L-LFA	H	- 7X / F	X**	★	
Cartridge valves						Further details in clear text
Nominal size 16	= 16					No code = NBR seals
Nominal size 25	= 25					V = FKM seals
Nominal size 32	= 32					(Other seals, please consult us!)
Nominal size 40	= 40					Caution:
Control covers version						The harmony of seals and fluid must be taken into account.
Adjustment handle	=1					Orifices in ports
Adjustment screw bolt	=2					Φ 1/10mm
Series 70 to 79			=7X			X**
(70 to 79: unchanged installation and connection dimensions)						Monitoring port

△ If need, please provide the size of orifices, for example: X12 = orifice Φ1.2mm. standard orifice see page 10/28 of this chapter.

L-LFA.D.../F

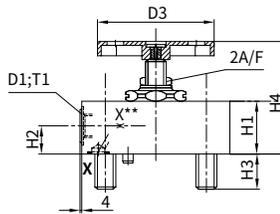


L-LFA.D.../FX**



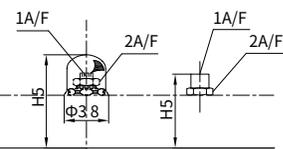
- 1 Nameplate used for sizes 16, 25 and 32
- 2 Nameplate used for sizes 40
- 3 Optional port X used as threaded connection

Adjustment unit '1'



Adjustment unit '2'

Sizes 16 and 25 Sizes 32 and 40



Size	16	25	32	40
D1	G1/8	G1/4	G1/4	G1/2
X** ¹⁾	ZM6	ZM6	ZM6	ZM8
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
□ L1	65	85	100	125
L2	32.5	42.5	50	72
T1	8	12	12	14
1A/F ²⁾	6	6	10	14
2A/F	21	22	27	46
Weight kg	1.3	2.3	5.5	11.2

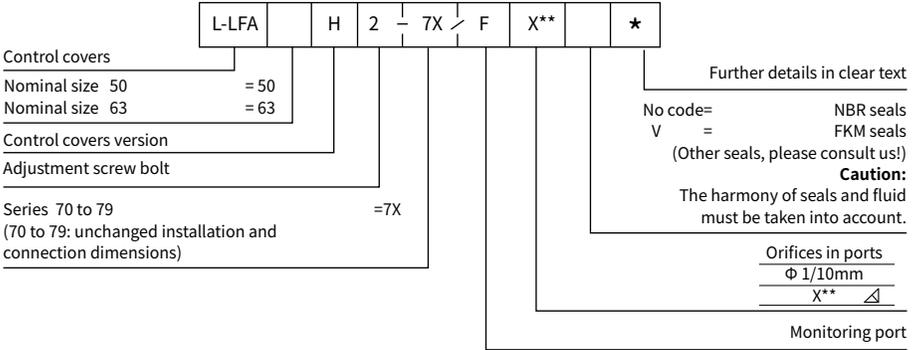
¹⁾Ordering detail of orifice , see page 10/28 of this chapter

²⁾Internal hexagon

Control covers with stroke limiter and remote control

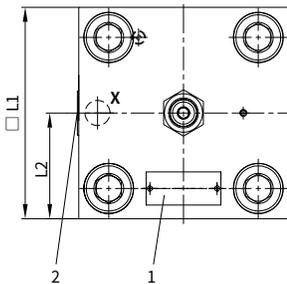
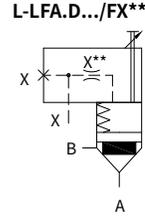
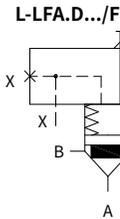
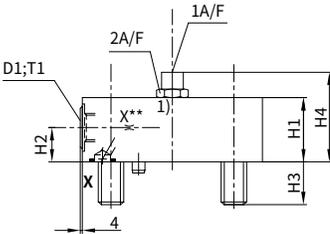
(Dimensions in mm)

· Type..H... (Nominal sizes 50 to 63)



△ If need, please provide the size of orifices, for example: X12 = orifice Φ1.2mm. standard orifice see page 10/28 of this chapter.

Adjustment unit '2'



- 1 Nameplate
- 2 Optional port X used as threaded connection

Size	50	63
D1	G1/2	G3/4
X** ¹⁾	ZM8	R3/8
H1	110	125
H2	32	40
H3	34	50
H4max	156	175
□ L1	140	180
L2	80	90
T1	14	16
1A/F2)	17	24
2A/F	55	65
Weight kg	15.8	30.2

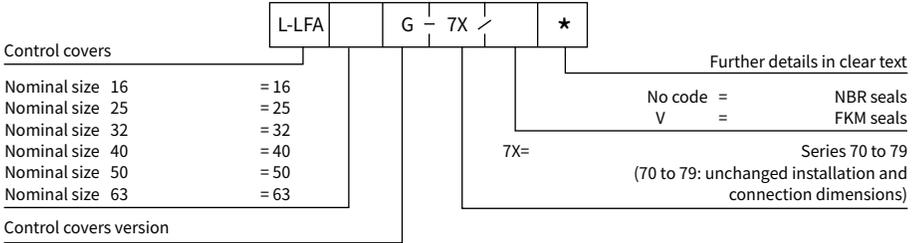
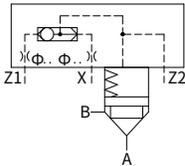
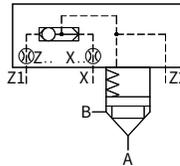
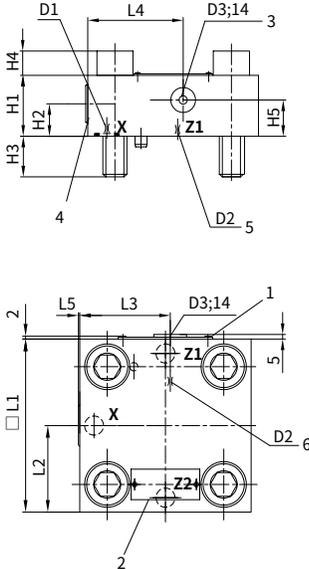
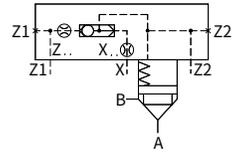
¹⁾ Ordering detail of orifice, see page 10/28 of this chapter

²⁾ Internal hexagon

Control cover with built-in shuttle valve

(Dimensions in mm)

• Type..G... (Nominal sizes 16 to 63)

L-LFA.G...
Nominal sizes 16 to 32L-LFA.G...
Nominal sizes 40L-LFA.G...
Nominal sizes 50 and 63

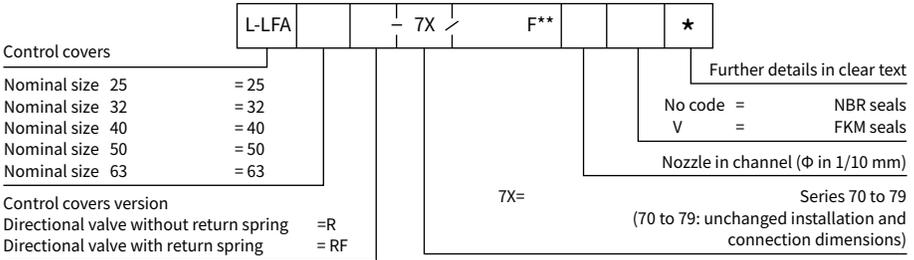
Size	16	25	32	40	50	63
D1 ²⁾	Φ1.2	Φ1.5	Φ2.0	M6	M8×1	M8×1
D2 ²⁾	Φ1.2	Φ1.5	Φ2.0	M6	M8×1	M8×1
D3	-	-	-	-	G1/2	G1/2
H1	35	30	35	60	68	82
H2	17	17	21.5	30	32	42
H3	15	24	28	32	34	50
H4	-	12	16	-	-	-
H5	-	-	-	-	32	40
L1	65	85	100	125	140	180
L2	36.5	45.5	50	62.5	70	90
L3	-	-	-	-	72	81
L4	-	-	-	-	72	90
L5	4.5	4	1	-	6	4

- 1 Nameplate used for sizes 16, 25, 32
- 2 Nameplate used for sizes 40, 50, 63
- 3 Optional port Z1 and Z2 used as threaded connection for sizes 25, 32, 50 and 63
- 4 Shuttle valve
- 5 D2 for nominal sizes 16 to 40
- 6 D2 for nominal sizes 50 and 63

Control cover with built-in directional poppet valve

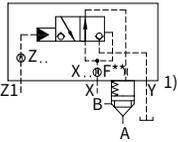
(Dimensions in mm)

· Types..R...;.RF... (Nominal sizes 25 to 63)

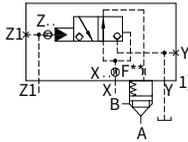


△ If need, please provide the size of orifices, for example: F12 = orifice Φ1.2mm. standard orifice see page 10/28 of this chapter.

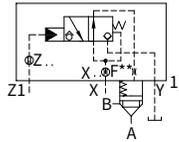
L-LFA.R...
Nominal sizes 25 to 50



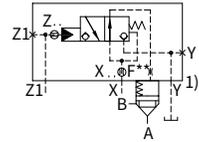
L-LFA.R...
Nominal size 63



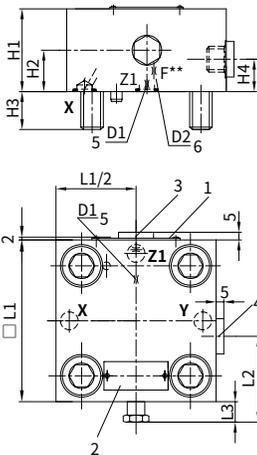
L-LFA.RF...
Nominal sizes 25 to 50



L-LFA.RF...
Nominal sizes 63



$$\text{Area ratio } \frac{A_{Z1}}{A_x} = \frac{3}{1}$$



Size	Type	25	32	40	50	63
F** 2)		ZM6	ZM6	ZM8	ZM8	ZM8
H1		40	50	60	68	82
H2		20	26	30	34	40
H3		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	-
	RF	18	18	25	25	16
Weight	kg	2.1	3.6	6.7	9.5	18.3

1) Max. pressure inPort Y: 5bar

2) Ordering detail of orifice, see page 10/28 of this chapter.

- 1 Nameplate used for sizes 16, 25 and 32
- 2 Nameplate used for sizes 40, 50 and 63
- 3 Optional port Z1 used as threaded connection for size 63
- 4 Optional port Y used as threaded connection for size 63
- 5 D1 for nominal sizes 25 to 50
- 6 D1 for nominal size 63

Control cover for mounting directional spool or directional poppet valve (Dimensions in mm)

· Types ...WEA..., ..WEB.. (Nominal size 63)

L-LFA	63	-	7X	A**	B**	P**	T**	*
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Control covers

Nominal size

Control covers version

Normally closed =WEA

Normally open =WEB

Series 70 to 79 (70 to 79: unchanged installation and connection dimensions) =7X

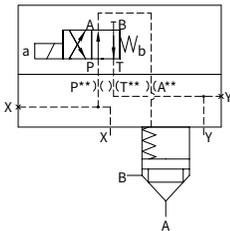
Further details in clear text

No code = NBR seals
 V = FKM seals
 (Other seals, please consult us!)
Caution:
 The harmony of seals and fluid must be taken into account.

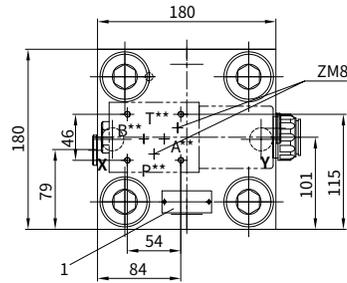
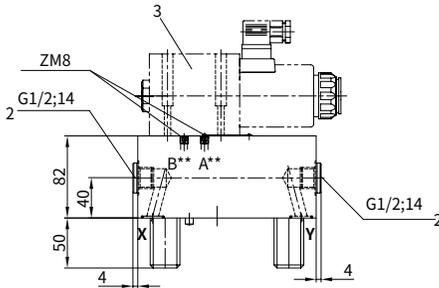
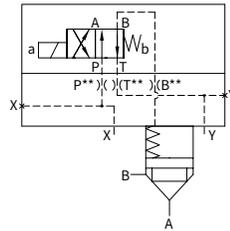
Control version	Orifices in ports (Φ 1/10 mm)			
WEA	A**		P**	T**
WEB		B**	P**	T**

△ If need, please provide the size of orifices, for example: A12 = orifice Φ1.2mm. standard orifice see page 10/28 of this chapter.

L-LFA.WEA...
Directional valve: 4WE10D



L-LFA.WEB...
Directional valve: 4WE10D



A**, B**	ZM8
T**, p** 1)	

1) Ordering detail of orifice, see page 10/28 of this chapter.

- 1 Nameplate
- 2 Optional port X and Y used as threaded connection
- 3 Directional valve:4WE10D...
 Valve fixing screws:
 GB/T 70.1-M6×40-10.9,
 must be ordered separately.
 Weight (kg): 18.6

Control cover for mounting directional spool or directional poppet valve (Dimensions in mm)

• Types ...WEMA..., ..WEMB.. (Nominal sizes 16 to 50)

Control covers	L-LFA	- 7X	P**	T**	F**	*
Nominal size 16 = 16						
Nominal size 25 = 25						
Nominal size 32 = 32						
Nominal size 40 = 40						
Nominal size 50 = 50						
Control covers version						
Normally closed =WEMA						
Normally open =WEMB						
Series 70 to 79 =7X						
(70 to 79: unchanged installation and connection dimensions)						

Further details in clear text

No code = NBR seals
V = FKM seals
(Other seals, please consult us!)

Caution:
The harmony of seals and fluid must be taken into account.

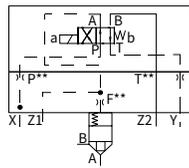
Orifices in ports (Φ 1/10 mm)		
P**	T**	F**

△ If need, please provide the size of orifices, for example: P12 = orifice Φ1.2mm. standard orifice see page 10/28 of this chapter.

L-LFA.WEMA...

Nominal sizes 16 to 32

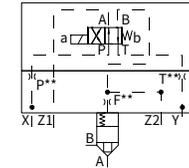
Directional valve: 4WE6D



L-LFA..WEMB...

Nominal sizes 16 to 32

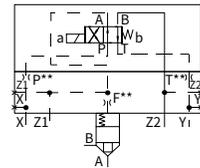
Directional valve: 4WE6D...



L-LFA.WEMA...

Nominal sizes 40 and 50

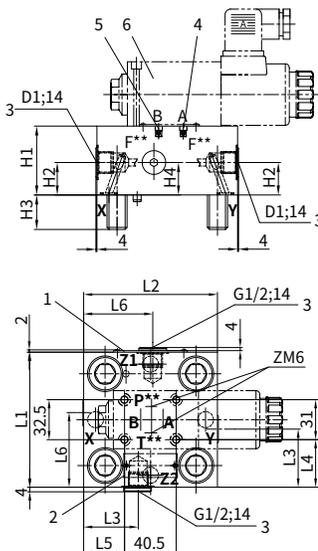
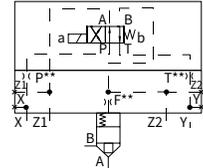
Directional valve: 4WE6D...



L-LFA.WEMB...

Nominal sizes 40 and 50

Directional valve: 4WE6D...



Size	16	25	32	40	50
D1	-	-	-	G1/2	G1/2
H1	65	40	50	60	68
H2	-	-	-	30	32
H3	15	24	28	32	34
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	-	-	-	72	80
P**, T**	ZM6	ZM6	ZM6	ZM6	ZM6
F** 1)	2.3	2.1	3.6	6.6	9.3

¹⁾ Ordering detail of orifice, see page 10/28 of this chapter

- 1 Nameplate used for sizes 16, 25 and 32
- 2 Nameplate used for sizes 40 and 50
- 3 Optional port X, Y, Z1 and Z2 used as threaded connection for sizes 40 and 50
- 4 Plug ZM6 used for: ...WEMB.. (Port B fixed with or without orifice F**, port A with plug)
- 5 Plug ZM6 used for: ...WEMA.. (Port A fixed with or without orifice F**, port B with plug)
- 6 Directional valve: 4WE6D... Valve fixing screws: GB/T 70.1-M5×50-10.9, must be ordered separately.

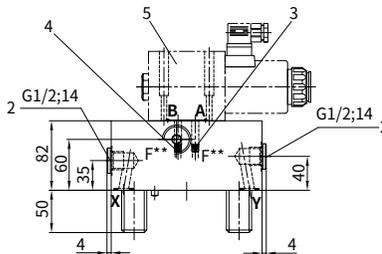
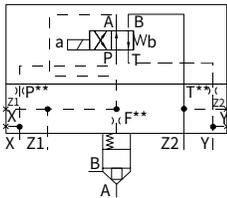
Control cover for mounting directional spool or directional poppet valve (Dimensions in mm)

• Types ...WEMA..., ..WEMB.. (Nominal size 63)

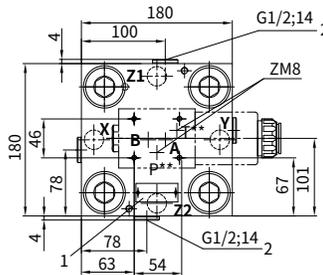
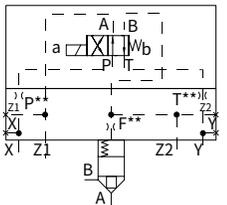
Control covers	L-LFA	63	-	7X	P**	T**	F**			*
Nominal size										
Control covers version										
Normally closed	=WEMA									
Normally open	=WEMB									
Series 70 to 79 (70 to 79: unchanged installation and connection dimensions)	=7X									
										Further details in clear text
										No code = NBR seals V = FKM seals (Other seals, please consult us!) Caution: The harmony of seals and fluid must be taken into account.
										Orifices in ports (Φ 1/10 mm)
										P** T** F**

△ If need, please provide the size of orifices,
for example: P20 = orifice Φ2mm.
standard orifice see page 10/28 of this chapter.

L-LFA.WEMA...
Directional valve: 4WE10D



L-LFA.WEMB...
Directional valve: 4WE10D



- 1 Nameplate
- 2 Optional port X, Y, Z1 and Z2 used as threaded connection
- 3 Plug ZM8 used for: ...WEMB..
(Port B fixed with or without orifice F**, port A with plug)
- 4 Plug ZM8 used for: ...WEMA..
(Port A fixed with or without orifice F**, port B with plug)
- 5 Directional valve: 4WE10D...
Valve fixing screws: GB/T 70.1-M6×40-10.9,
must be ordered separately.
Weight (kg): 18.6

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

¹⁾ Ordering detail of orifice,
see page 10/28 of this chapter.

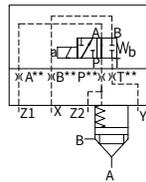
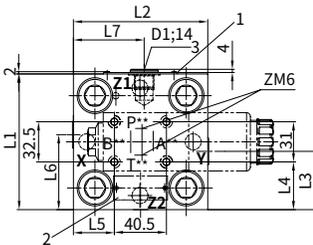
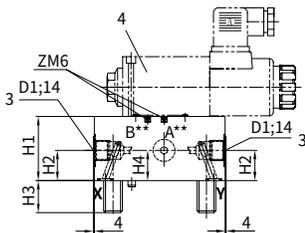
Control cover for mounting directional spool valve

(Dimensions in mm)

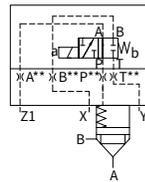
• Types ..WECA.. (Nominal sizes 16 to 50)

	L-LFA	WECA	7X	A**	B**	P**	T**	*
Control covers								
Nominal size 16	= 16							
Nominal size 25	= 25							
Nominal size 32	= 32							
Nominal size 40	= 40							
Nominal size 50	= 50							
Control covers version								
Series 70 to 79	=7X							
(70 to 79: unchanged installation and connection dimensions)								Further details in clear text
								No code = NBR seals V = FKM seals (Other seals, please consult us!)
								Caution: The harmony of seals and fluid must be taken into account.
								Orifices in ports (Φ 1/10 mm)
								A** B** P** T**

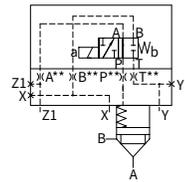
△ If need, please provide the size of orifices, for example: A12 = orifice Φ 1.2mm. standard orifice see page 10/28 of this chapter.



L-LFA16WECA...
Directional valve: 3WE6A



L-LFA...WECA...
Nominal sizes 25 and 32
Directional valve: 3WE6A



L-LFA...WECA...
Nominal sizes 40 and 50
Directional valve: 3WE6A

¹⁾ Ordering detail of orifice, see page 10/28 of this chapter.

- 1 Nameplate used for sizes 16, 25 and 32
- 2 Nameplate used for sizes 40 and 50
- 3 Optional port X, Y and Z1 used as threaded connection for sizes 40 and 50
- 4 Directional valve: 3WE6A...
Valve fixing screws: GB/T 70.1-M5×50-10.9, must be ordered separately.

Size	16	25	32	40	50
D1	-	-	-	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⁾	ZM6	ZM6	ZM6	ZM6	ZM6
Weight kg	1.5	2.1	3.6	6.6	9.3

Control cover for mounting directional spool valve

(Dimensions in mm)

· Types ..WECA.. (Nominal size 63)

L-LFA	63	WECA	- 7X /	A**	B**	P**	T**	★
-------	----	------	--------	-----	-----	-----	-----	---

Control covers
 Nominal size
 Control covers version
 Series 70 to 79
 (70 to 79: unchanged installation and connection dimensions)

=7X

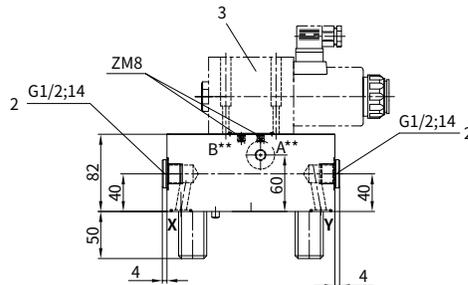
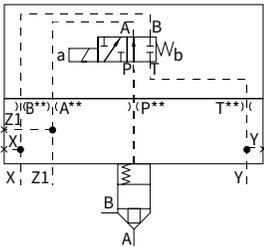
Further details in clear text
 No code = NBR seals
 V = FKM seals
 (Other seals, please consult us!)
Caution:
 The harmony of seals and fluid must be taken into account.

Orifices in ports (Φ 1/10 mm)			
A**	B**	P**	T**

⚠ If need, please provide the size of orifices, for example: A20= orifice Φ2mm, standard orifice see page 10/28 of this chapter.

L-LFA63WECA...

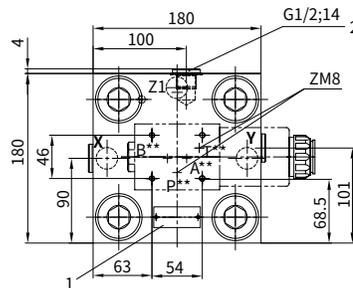
Directional valve: 3WE10A...



A**, B**	1)	ZM8
P**, T**		

¹⁾ Ordering detail of orifice, see page 10/28 of this chapter.

- 1 Nameplate
- 2 Optional port X, Y and Z1 used as threaded connection
- 3 Directional valve: 3WE10A...
 Valve fixing screws: GB/T 70.1-M6×40-10.9 must be ordered separately
 Weight (kg): 18.6



Control cover for mounting directional spool or poppet valve

(Dimensions in mm)

• Types ..GWA, ..GWB.. (Nominal sizes 16 to 50)

	L-LFA	- 7X /	A**	B**	P**	T**	*
--	-------	--------	-----	-----	-----	-----	---

Control covers

Nominal size 16 = 16
 Nominal size 25 = 25
 Nominal size 32 = 32
 Nominal size 40 = 40
 Nominal size 50 = 50

Control covers version

Normally closed =GWA
 Normally open =GWB

Series 70 to 79 =7X
 (70 to 79 unchanged installation and connection dimensions)

Further details in clear text

No code= NBR seals
 V = FKM seals
 (Other seals, please consult us!)

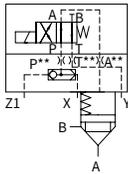
Caution:
 The harmony of seals and fluid must be taken into account.

Control version	Orifices in ports (Φ1/10 mm)			
GWA	A**	P**	T**	
GWB	B**	P**	T**	

△ If need, please provide the size of orifices, for example: A12= orifice Φ1.2mm, standard orifice see page 10/28 of this chapter.

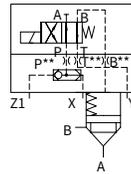
L-LFA.GWA...

Nominal sizes 16 to 32
 Directional valve: 4WE6D



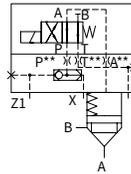
L-LFA..GWB...

Nominal sizes 16 to 32
 Directional valve: 4WE6D



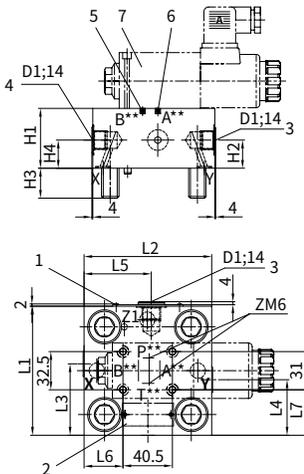
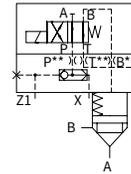
L-LFA.GWA...

Nominal sizes 40 and 50
 Directional valve: 4WE6D



L-LFA.GWB...

Nominal sizes 40 and 50
 Directional valve: 4WE6D



Size	16	25	32	40	50
D1	-	-	-	G1/2	G1/2
H1	40	40	50	60	68
H2	-	-	-	30	32
H3	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)	ZM6	ZM6	ZM6	ZM6	ZM6
Weight kg	1.5	2.1	3.6	6.6	9.3

1) Ordering detail of orifice, see page 10/28 of this chapter.

- 1 Nameplate used for sizes 16, 25 and 32
- 2 Nameplate used for sizes 40 and 50
- 3 Optional port Y and Z1 used as threaded connection for sizes 40 and 50
- 4 Shuttle valve
- 5 Plug ZM6 used for: ...GWA..(Port B fixed with plug, port A without plug)
- 6 Plug ZM6 used for: ...GWB..(Port A fixed with plug, port B without plug)
- 7 Directional valve: 4WE6D..Valve fixing screws: GB/T 70.1-M5×50-10.9, must be ordered separately

Control cover for mounting directional spool or poppet valve

(Dimensions in mm)

· Types ..GWA, ..GWB.. (Nominal size 63)

	L-LFA	63		- TX /	A**	B**	P**	T**		★
--	-------	----	--	--------	-----	-----	-----	-----	--	---

Control covers

Nominal size

Control covers version

Normally closed =GWA

Normally open =GWB

Series 70 to 79 (70 to 79: unchanged installation and connection dimensions) =TX

Further details in clear text

No code = NBR seals

V = FKM seals

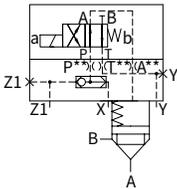
(Other seals, please consult us!)

Caution:
The harmony of seals and fluid must be taken into account.

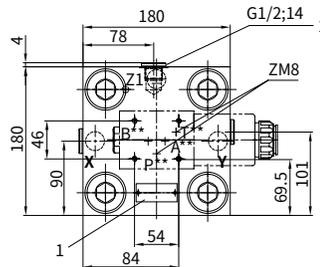
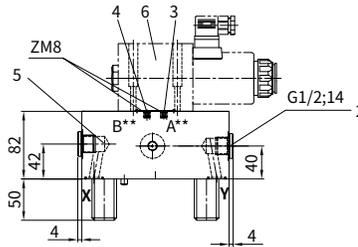
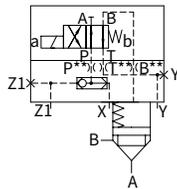
Orifices in ports (Φ 1/10 mm)			
A**	B**	P**	T**

△ If need, please provide the size of orifices, for example: A20= orifice Φ2mm
standard orifice see page 10/28 of this chapter.

L-LFA63GWA...
Directional valve: 4WE10D



L-LFA63GWB...
Directional valve: 4WE10D



- 1 Nameplate
- 2 Optional port Y and Z1 used as threaded connection
- 3 Plug ZM8 used for: ..GWB..
(Port A fixed with plug, port B without plug)
- 4 Plug ZM8 used for: ..GWA..
(Port B fixed with plug, port A without plug)
- 5 Shuttle valve
- 6 Directional valve: 4WE10D...
Valve fixing screws: GB/T 70.1-M6×40-10.9, must be ordered separately
Weight (kg): 18.6

A**	B**	ZM8
P**	T** 1)	

¹⁾ Ordering detail of orifice, see page 10/28 of this chapter

Control cover for mounting directional spool or poppet valve

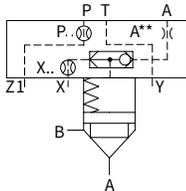
(Dimensions in mm)

• Types ..KWA, ..KWB.. (Nominal sizes 16 to 50)

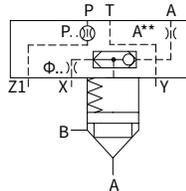
L-LFA		- 7X / A** B**		★	
Control covers				Further details in clear text	
Nominal size 16	= 16			No code =	NBR seals
Nominal size 25	= 25			V =	FKM seals
Nominal size 32	= 32			(Other seals, please consult us!)	
Nominal size 40	= 40			Caution:	
Nominal size 50	= 50			The harmony of seals and fluid must be taken into account.	
Control covers version				Control version	
Normally closed	=KWA			Orifices in ports (Φ 1/10 mm)	
Normally open	=KWB			KWA	A **
Series 70 to 79 (70 to 79: unchanged installation and connection dimensions)		=7X		KWB	B **

△ If need, please provide the size of orifices, for example: A12= orifice Φ1.2mm standard orifice see page 10/28 of this chapter.

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

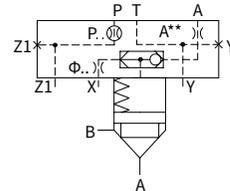
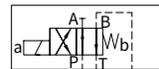


L-LFA16KWA...
(Directional valve see foregoing paragraphs)

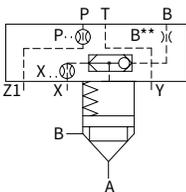


L-LFA .KWA...
Sizes 25 and 32
(Directional valve see foregoing paragraphs)

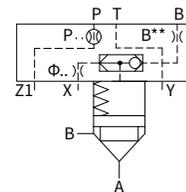
4WE6D
(Only for L-LFA.KWA...)



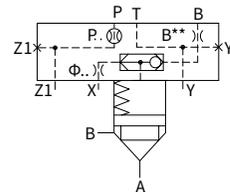
L-LFA .KWA...
Sizes 40 and 50
(Directional valve see foregoing paragraphs)



L-LFA16KWB...
(Directional valve see foregoing paragraphs)



L-LFA .KWB...
Sizes 25 and 32
(Directional valve see foregoing paragraphs)

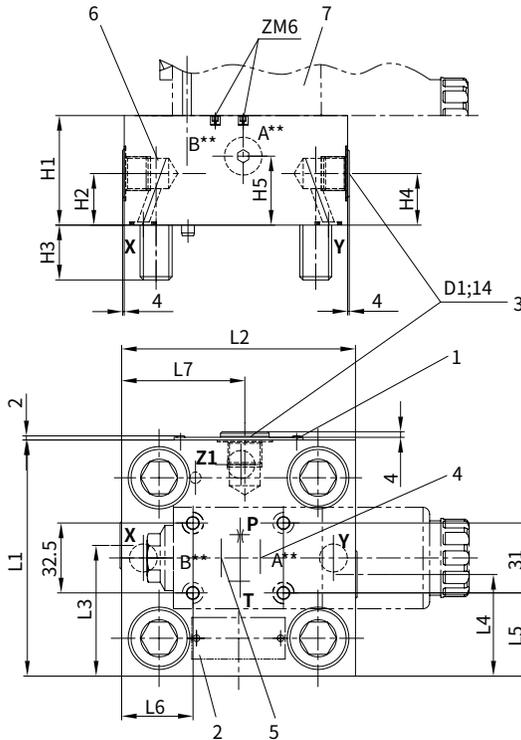


L-LFA .KWB...
Sizes 40 and 50
(Directional valve see foregoing paragraphs)

Control cover for mounting directional spool or poppet valve

(Dimensions in mm)

· Types ..KWA, ..KWB.. (Nominal sizes 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
H3	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⁾	ZM6	ZM6	ZM6	ZM6	ZM6
Weight kg	1.5	2.1	3.6	6.6	9.3

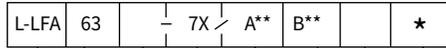
- 1 Nameplate for size 16, 25 and 32
- 2 Nameplate for size 40 and 50
- 3 Optional port Y and Z1 used as threaded connection for sizes 40 and 50.
- 4 Plug ZM6 used for: ...KWB.. (Port A fixed with plug, port B without plug)
- 5 Plug ZM6 used for: ...KWA.. (Port B fixed with plug, port A without plug)
- 6 Shuttle valve
Valve fixing screws: GB/T 70.1-M5×10-1.9 must be ordered separately

¹⁾ Orifice ordering code see page 10/28 of this chapter.

Control cover for mounting directional spool or poppet valve

(Dimensions in mm)

• Types ..KWA,..KWB.. (Nominal size 63)



Control covers	
Nominal size	63
Control covers version	
Normally closed	=KWA
Normally open	=KWB
Series 70 to 79	=7X
(70 to 79: unchanged installation and connection dimensions)	

Further details in clear text

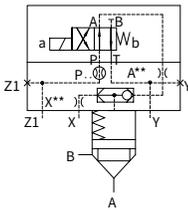
No code = NBR seals
 V = FKM seals
 (Other seals, please consult us!)

Caution:
 The harmony of seals and fluid must be taken into account.

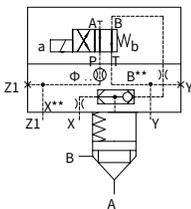
Control version	Orifices in ports (Φ 1/10 mm)
KWA	A **
KWB	B **

△ If need, please provide the size of orifices, for example: A20= orifice Φ2mm standard orifice see page 10/28 of this chapter.

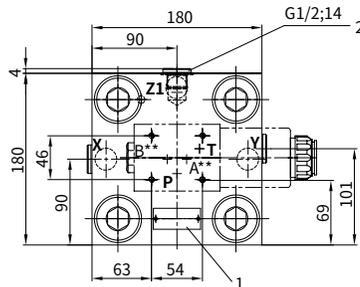
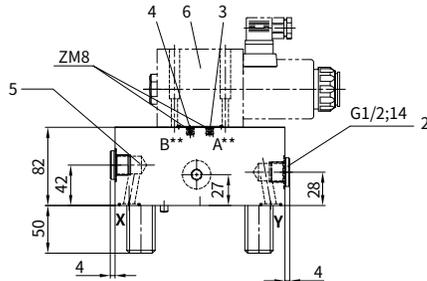
L-LFA63 KWA...
Directional valve: 4WE10D



L-LFA63 KWB...
Directional valve: 4WE10D



- 1 Nameplate
- 2 Optional port Y and Z1 used as threaded connection
- 3 Plug used for: ...KWB..
- 4 Plug used for: ...KWA..
- 5 Shuttle valve
- 6 Directional valve:4WE10D...
 Valve fixing screws: GB/T 70.1-M6×40-10.9 must be ordered separately
 Weight (kg): 18.6



A **, B ** 1) ZM8

¹⁾ Orifice ordering code see page 10/28 of this chapter. .

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Japan

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