

## 2-way Logic Cartridge Valves Pressure Function

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



**ГИДРООТВЕТ**  
доступная гидравлика

- ◆ Size 16/63
- ◆ Maximum working pressure 420 bar
- ◆ Maximum working flow 2500 L/min

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### Features

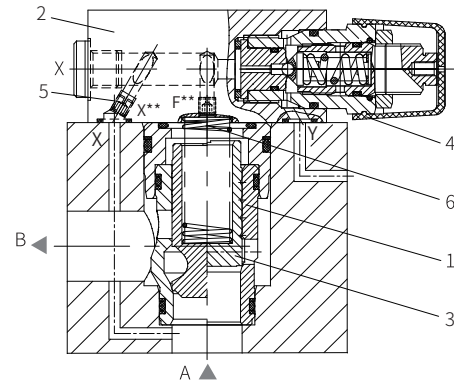
- Cartridge spool and various sleeves to meet relief and reducing function
- One sleeve with multi-spool in cartridge structure
- Area ratio 1:1 and 1.07:1
- Optional throttle
- Different cracking pressures

## General

The 2-way logic cartridge pressure valves are pilot operated poppet valves or spool valves.

The main valve component is a logic cartridge valve (1) which is inserted into the standard hole according to DIN 7368 and sealed with control cover.

The pilot valve (4) is integrated into the control cover (2) or installed as pilot valve onto the control cover (2). Its mounting surface is in accordance with DIN24340(2). The different pressure functions can be realized by combining the logic cartridge valve and control cover.



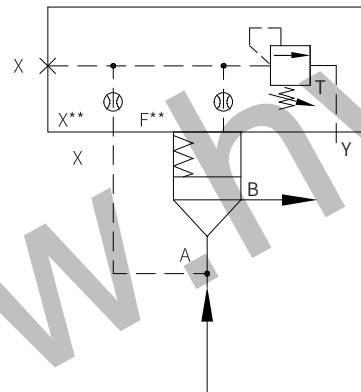
Model LC..DB..D.. Model LC..DB..E..

## Pressure relief function

Control cover LFA... DB...

Logic cartridge valve LC... DB...

The logic cartridge valve (1) (model LC... DB...) with pressure relief function is a seat valve with an area ratio 1:1 (no effective area at port B). The pressure acting at port A is fed to the spring cavity (6) of the main valve through the pilot oil supply orifice (5). When the pressure is lower than the setting pressure of the pilot valve (4), the hydraulic force on the main spool (3) is balanced and the spring force keeps the main valve closed. When the pressure reaches the set value, the main spool opens and limits the pressure at port A according to the pressure-flow characteristics.



Model LFA..DB..

Model LC..DB..

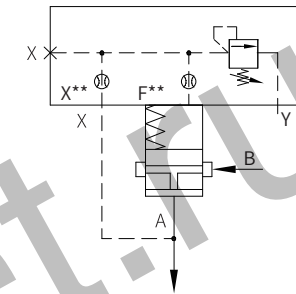
## Pressure reducing function

a) Normally open: Control cover LFA...DB...

Logic cartridge valve LC...DR...

The logic cartridge valve with pressure reducing function is seat valve with an area ratio of 1:1 (no effective area at port B). It adopts the control cover (model LFA...DB...) which has same function with the relief valve as pilot valve.

The pressure acting at port A is fed to the spring cavity of the main valve through the pilot oil supply orifice. When the pressure is lower than the setting pressure of the pilot valve, the hydraulic force on the main spool is balanced and the spring force keeps the main valve spool open. The fluid can flow freely from B to A. When the pressure reaches the set value, the main spool closes and reducing the pressure at port A according to the pressure-flow characteristics.



Model LFA..DB..

e.g. Model LC..DR..

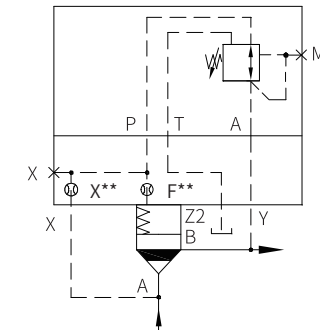
b) Normally closed: Control cover LFA...DR...

Logic cartridge valve LC...DB..D...

For the pressure reducing function with opening characteristics, a logic cartridge pressure relief valve (mode LC...DB..D...) and a control cover (model LFA...DR) with a pressure reducing valve as the pilot valve are used.

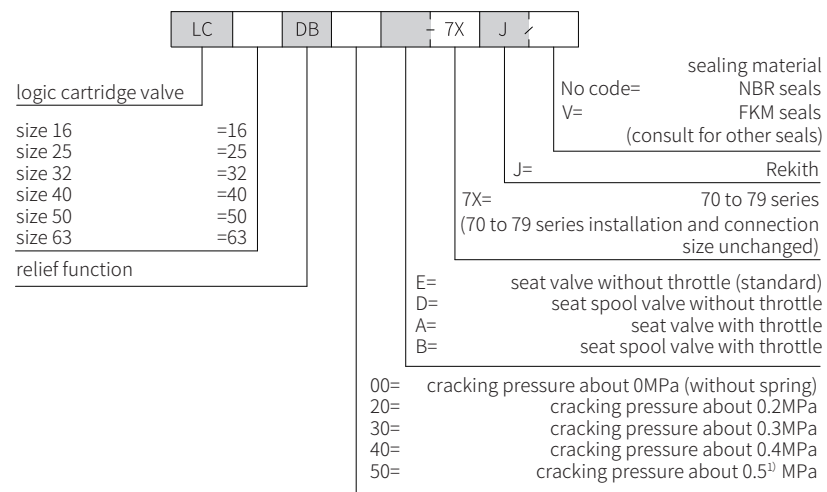
The pilot control oil supplied from port A flows into port B through the pilot oil supply orifice and the opened pilot reducing valve. The main spool is opened to allow freely flow from A to B. When the set pressure is reached, the main spool closes and reduces the pressure at port B according to the pressure-flow characteristics.

If the unexpected pressure increases on the pressure reducing side (port B), pressure relief via the third port of the pilot valve. By installing a directional valve, an additional isolating function can also be attained (model LFA...DRW...).



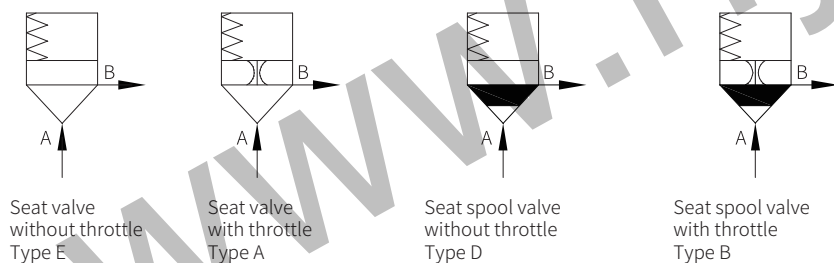
e.g. Model LFA..DR..

Model LC..DB40D..



1) Only for size 16, 25, 32

Logic cartridge valves functional symbols



Working medium	Mineral oil - for NBR seal or FKM seal Phosphate ester - for FKM seal						
Working medium temperature range °C	30 to +80 (NBR seal) 20 to +80 (FKM seal)						
Viscosity range mm <sup>2</sup> /s	2.8 to 380						
Cleanliness of oil	The maximum allowable pollution level of oil is NAS1638 Class 9 and ISO4406 Class 20 / 18 / 15						
2-way logic cartridge valve							
Maximum working pressure-oil port A and B bar						420	
Maximum flow (Recommended)	Size	16	25	32	40	50	63
	Logic cartridge seat valves "E" and "A" L/min	300	450	600	1000	1600	2500
	Logic cartridge spool valves "D" and "B" L/min	175	300	450	700	1400	1750

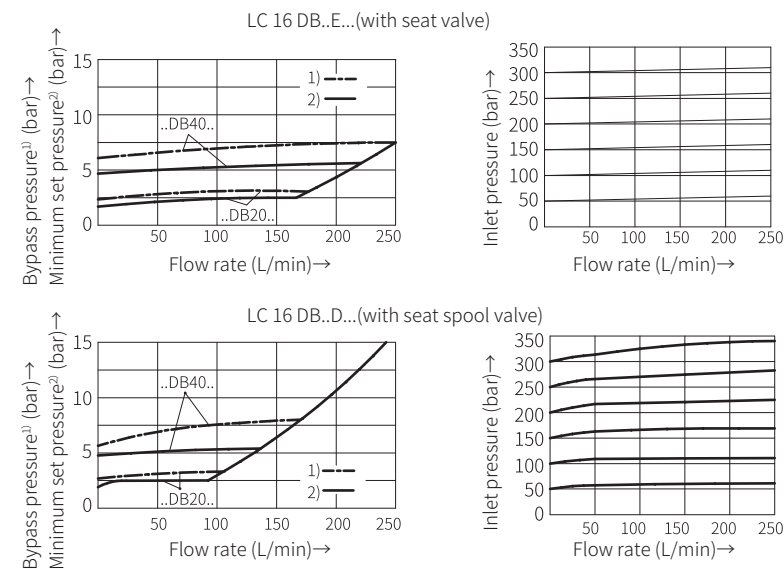
1) The oil must meet the cleanliness degree requested by the components in the hydraulic system. Effective oil filtration can prevent failure and increase the service life of the components.

Characteristic curve

(Measured when using HLP46,  $\vartheta_{oil} = 40^{\circ}C \pm 5^{\circ}C$ )

Size 16

The characteristic curve is measured when the external pilot oil drains at zero pressure. When the internal pilot oil drains, the inlet pressure increases along with the pressure at port B.

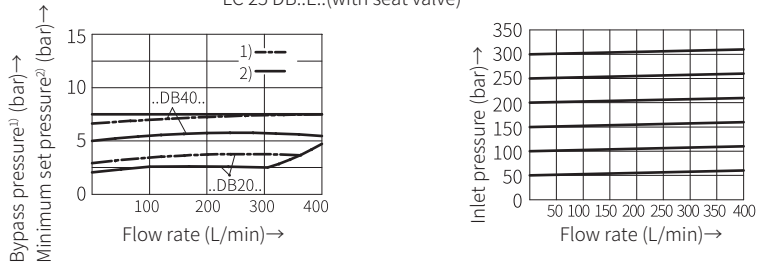


Characteristic curve

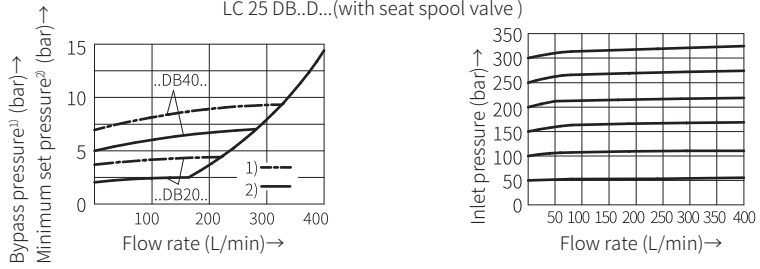
(Measured when using HLP46,  $\vartheta_{oil}=40^{\circ}C \pm 5^{\circ}C$ )

Size 25

The characteristic curve is measured when the external pilot oil drains at zero pressure.  
When the internal pilot oil drains, the inlet pressure increases along with the pressure at port B.  
LC 25 DB..E..(with seat valve)



LC 25 DB..D...(with seat spool valve)

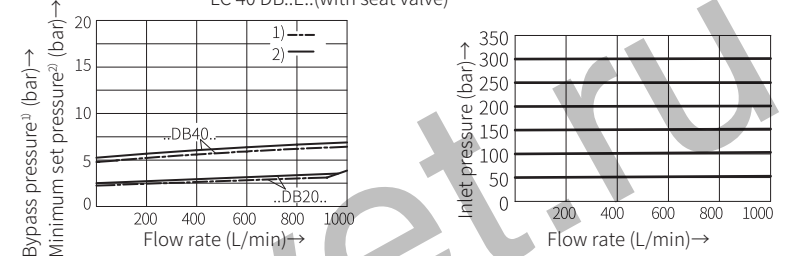


Characteristic curve

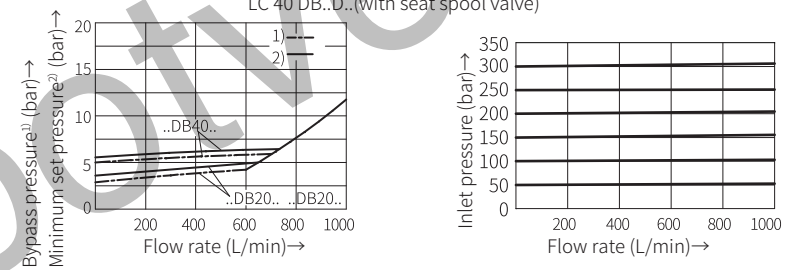
(Measured when using HLP46,  $\vartheta_{oil}=40^{\circ}C \pm 5^{\circ}C$ )

Size 40

The characteristic curve is measured when the external pilot oil drains at zero pressure.  
When the internal pilot oil drains, the inlet pressure increases along with the pressure at port B.  
LC 40 DB..E..(with seat valve)



LC 40 DB..D...(with seat spool valve)

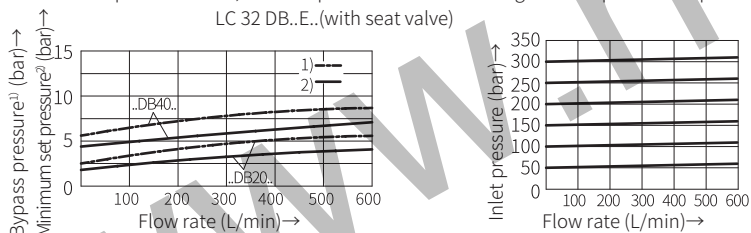


Characteristic curve

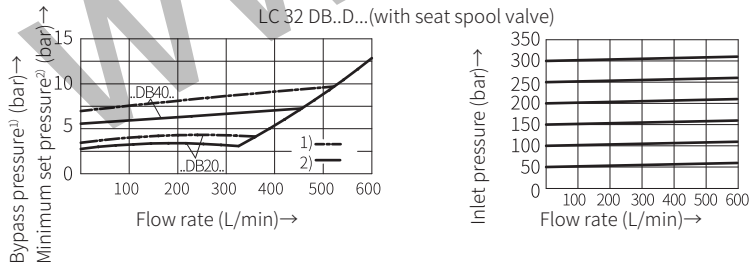
(Measured when using HLP46,  $\vartheta_{oil}=40^{\circ}C \pm 5^{\circ}C$ )

Size 32

The characteristic curve is measured when the external pilot oil drains at zero pressure.  
When the internal pilot oil drains, the inlet pressure increases along with the pressure at port B.  
LC 32 DB..E..(with seat valve)



LC 32 DB..D...(with seat spool valve)

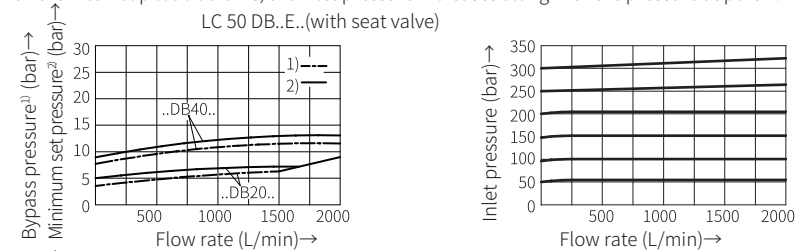


Characteristic curve

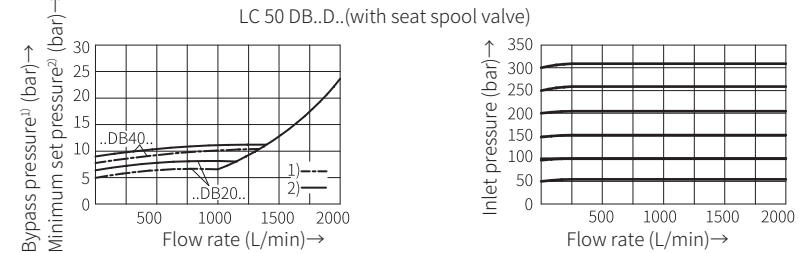
(Measured when using HLP46,  $\vartheta_{oil}=40^{\circ}C \pm 5^{\circ}C$ )

Size 50

The characteristic curve is measured when the external pilot oil drains at zero pressure.  
When the internal pilot oil drains, the inlet pressure increases along with the pressure at port B.  
LC 50 DB..E..(with seat valve)



LC 50 DB..D...(with seat spool valve)



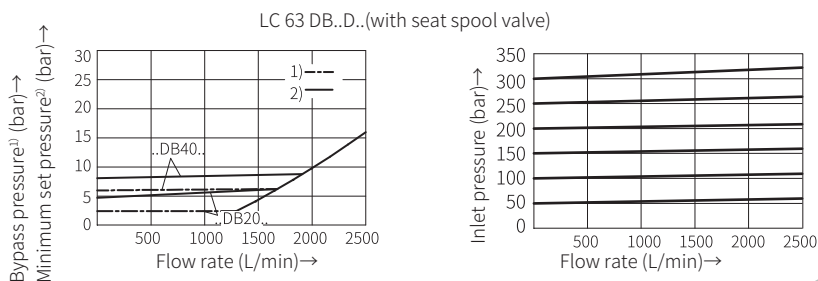
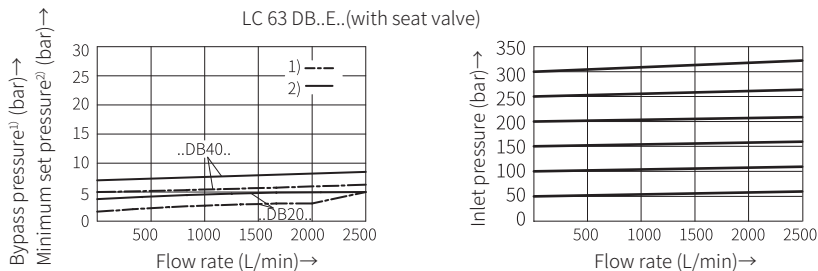
Characteristic curve

(Measured when using HLP46,  $\vartheta_{oil}=40^{\circ}C \pm 5^{\circ}C$ )

Size 63

The characteristic curve is measured when the external pilot oil drains at zero pressure.

When the internal pilot oil drains, the inlet pressure increases along with the pressure at port B.



Technical parameters (model L F A... D B...)

Maximum working pressure bar	420 Note: The maximum working pressure of the pilot valve must be considered!
Working medium	Mineral oil - for NBR seal or FKM seal Phosphate ester - for FKM seal
Working medium temperature range °C	-30 to +80 (NBR seal) -20 to +80 (FKM seal)
Viscosity range mm <sup>2</sup> /s	2.8 to 380
Cleanliness of oil	The maximum allowable pollution level of oil is NAS1638 class 9 and ISO4406 class 20 / 18 / 15

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.

Valve fixing screw (included in the supply list)

GB/T70.1 10.9 grade				GB/T70.1 10.9 grade			
Size	Quantity	Dimension	Tightening torque (Nm)	Size	Quantity	Dimension	Tightening torque (Nm)
16	4	M8×45	32	50	4	M20×80	520
25		M12×50	110	63		M30×100	1800
32		M16×60	270	80		M24×120	900
40		M20×70	520	100		M30×120	1800

Technical parameters (Max. working pressure of pilot valve)

	Control cover		Maximum working pressure Y, T bar			Remark
	Size	Model	x	Pressure limitation	Static	
D BD.2K-20/... <sup>1)</sup>	16 to 32	DB, DBW, DBWD	420	Zero pressure (up to about 2 bar)	315	Supply included
D BD.6K10/... <sup>2)</sup>	40 to 63	DBU2, DBBU3D, DBS	400		315	
.WE6...			350		21(=); 16(~)	Order separately

1) Possible pressure: 25, 50, 100, 200, 315, 400

2) Possible pressure: 25, 50, 100, 200, 315, 400

Control cover "DB" with manual pressure regulation

.. DB... Type (size 16 to 63)

LFA DB - 7X J

control cover

size 16 =16  
size 25 =25  
size 32 =32  
size 40 =40  
size 50 =50  
size 63 =63

control cover type

adjusting element =1  
rotary knob =1  
hexagonal sleeve with protective cap =2  
lockable rotary knob with scale =3  
rotary knob with scale =4

sealing material  
No code= NBR seals  
V= FKM seals  
(consult for other seals)

Pressure rating

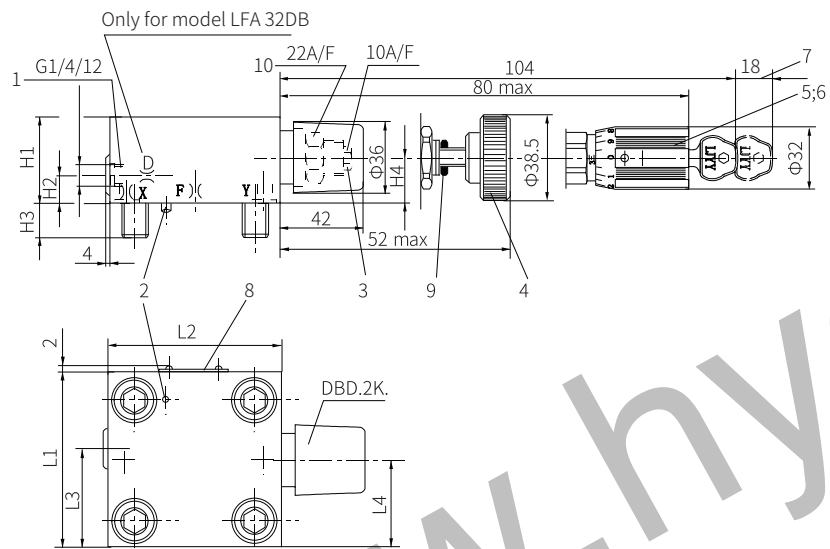
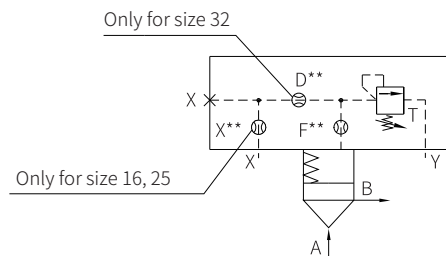
Size 16, 25, 32		Size 40, 50, 63	
025=	2.5MPa	025=	2.5MPa
050=	5MPa	050=	5MPa
100=	10MPa	100=	10MPa
200=	20MPa	200=	20MPa
315=	31.5MPa	315=	31.5MPa
420=	42MPa	400=	40MPa

J= Rekish  
7X= 70 to 79 series  
(70 to 79 series installation and connection size unchanged)

Control cover "DB" with manual pressure regulation

..DB..type (size 16, 25 and 32)

LFA..DB..-7X/..  
Size 16, 25 and 32



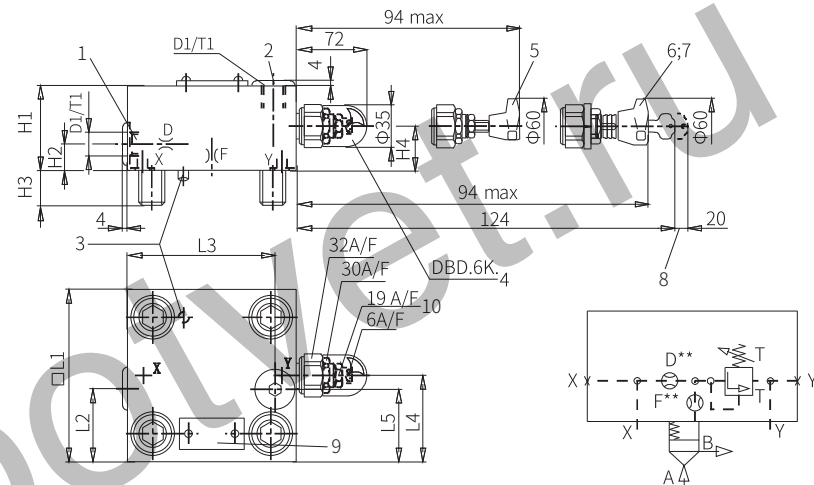
Size	16	25	32
H1	40	40	50
H2	17	19	26
H3	15	24	28
H4	19	19	26
L1	65	85	100
L2	80	85	100
L3	36.5	49	56.5
L4	32.5	45.5	53
Weight Kg	1.7	2.1	3.8

- 1 Optional port X used as threaded hole
- 2 Locating pin
- 3 Adjustment form "2"
- 4 Adjustment form "1"
- 5 Adjustment form "3"
- 6 Adjustment form "4"
- 7 Space required to remove the key
- 8 Name plate
- 9 Locking nut

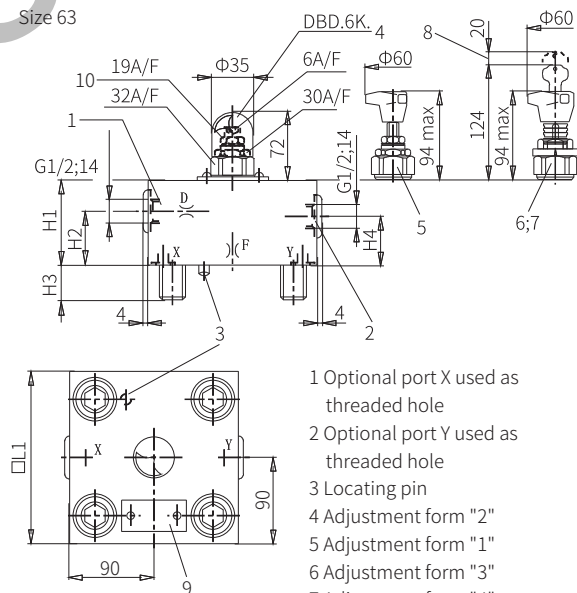
Control cover "DB" with manual pressure regulation

..DB..type (size 40, 50 and 63)

Size 40, 50



Size 63



- 1 Optional port X used as threaded hole
- 2 Optional port Y used as threaded hole
- 3 Locating pin
- 4 Adjustment form "2"
- 5 Adjustment form "1"
- 6 Adjustment form "3"
- 7 Adjustment form "4"
- 8 Space required to remove the key
- 9 Name plate
- 10 Locking nut

Size	40	50	63
D1	G1/4	G1/2	
H1	60	68	82
H2	28	19.5	30
H3	32	34	50
H4	27	35	50
□L1	125	140	180
L2	69	80	
L3	89	105	
L4	76	84	
L5	60	70	
T1	12	14	
Weight Kg	6.8	9.6	18.9

LFA..DB..-7X/..  
Size 40, 50 and 63







Control cover "DBWD" with manual pressure regulation and isolation function

..DBWD...type (size 16 to 63)

LFA	DBWD	7X	J		
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control cover

size 16 =16  
size 25 =25  
size 32 =32  
size 40 =40  
size 50 =50  
size 63 =63

control cover type

adjusting element

rotary knob =1  
hexagonal sleeve with protective cap =2  
lockable rotary knob with scale =3  
rotary knob with scale =4

No code= sealing material NBR seals  
V= FKM seals  
(consult for other seals)

Pressure rating  
(Maximum allowable pressure of pilot valve must be considered)

Size 16, 25, 32		Size 40, 50, 63	
025=	2.5MPa	025=	2.5MPa
050=	5MPa	050=	5MPa
100=	10MPa	100=	10MPa
200=	20MPa	200=	20MPa
315=	31.5MPa	315=	31.5MPa
420=	42MPa	400=	40MPa

J= Rekitch  
7X= 70 to 79 series  
(70 to 79 series installation and connection size unchanged)

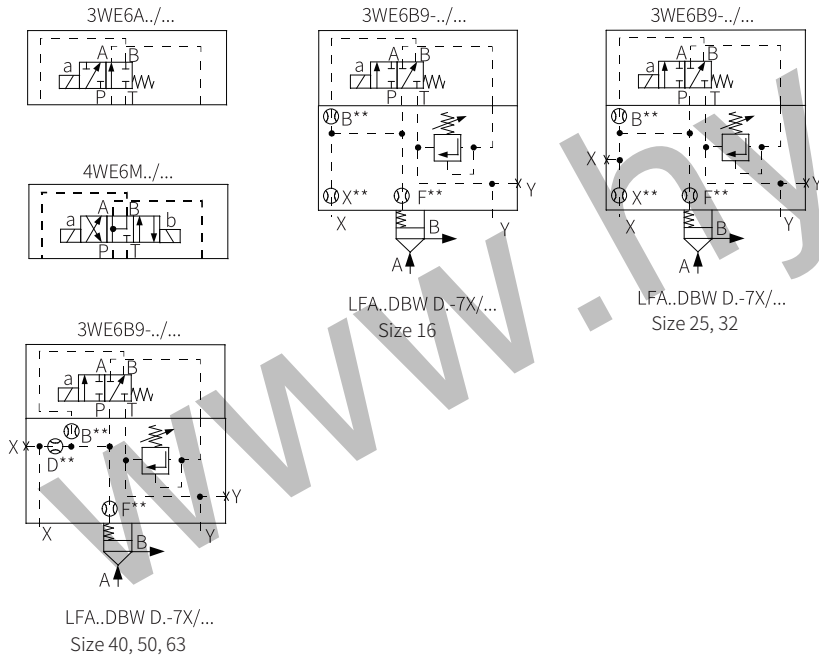
Control cover "DBWD" with manual pressure regulation and isolation function

.. DBWD... type (size 16, 25, 32, 40, 50)

Directional spool valve.WE6... Size 16, 25, 32

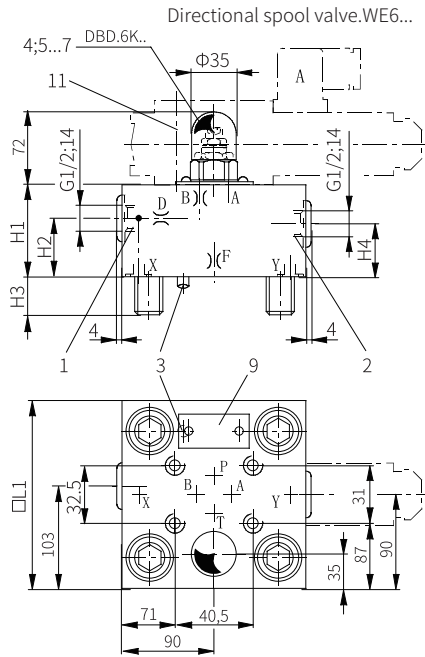
Directional spool valve.WE6... Size 40, 50

- Optional port X used as threaded hole
- Optional port Y used as threaded hole
- Locating pin
- Adjustment form "2"
- Adjustment form "1"
- Adjustment form "3"
- Adjustment form "4"
- Space required to remove the key
- Name plate
- Locking nut
- Directional spool valve WE6 and screw M5x50 -10.9 GB/T70.1 must be ordered separately



Control cover "DBWD" with manual pressure regulation and isolation function

.. DBWD... type (size 63)



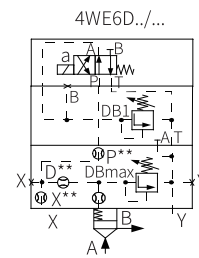
Size	16	25	32	40	50	63
D1				G1/4	G1/2	
H1	40	40	50	60	68	82
H2		19	26	46	50	55
H3	15	24	28	32	34	50
H4	19	19	26	27	35	45
H5	28	28	37	16	20	
L1	65	85	100			
DL1				125	140	180
L2	80	85	100			
L3		49	56.5	62.5	70	
L4	32.5	45.5	53	76	84	
L5	35	36	57	68	75	
L6	7	8	31	43.5	51	
L7	17	27	34.5	47	54.5	
T1				12	14	
L8						

Control cover "DBU2A" and "DBU2B" with two manual pressure regulation by electric selection

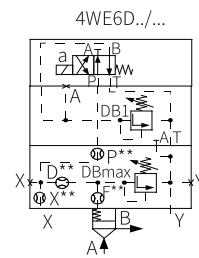
.. DBU2A...; DBU2B type (size 16 to 63)

	LFA		-7X	J	A...	
control cover					DBmax DB1	No code= V= sealing material NBR seals FKM seals (consult for other seals)
size 16	=16					Pressure rating (Maximum allowable pressure of pilot valve must be considered)
size 25	=25					
size 32	=32					
size 40	=40					
size 50	=50					
size 63	=63					
control cover type						
De-energized -DB1(4WE.. D)					=DBU2A	
De-energized - Open (4WE.. H)					=DBU2B	
De-energized -DBmax (4WE.. D)					=DBU2B	
(See symbols)						
adjusting element						Rekith
rotary knob					=1	
hexagonal sleeve with protective cap					=2	
lockable rotary knob with scale					=3	
rotary knob with scale					=4	
				J=		70 to 79 series (70 to 79 series installation and connection size unchanged)
				7X=		

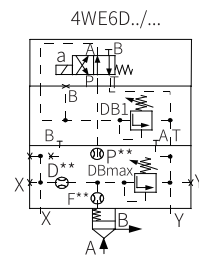
Size 16, 25, 32		Size 40, 50, 63	
025=	2.5MPa	025=	2.5MPa
050=	5MPa	050=	5MPa
100=	10MPa	100=	10MPa
200=	20MPa	200=	20MPa
315=	31.5MPa	315=	31.5MPa
420=	42MPa	400=	40MPa



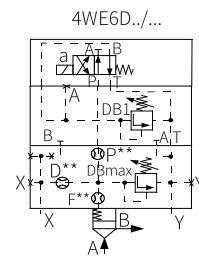
LFA..DBU2A..-7X/...  
Size 16, 25, 32



LFA..DBU2B..-7X/...  
Size 16, 25, 32



LFA..DBU2A..-7X/...  
Size 40, 50, 63

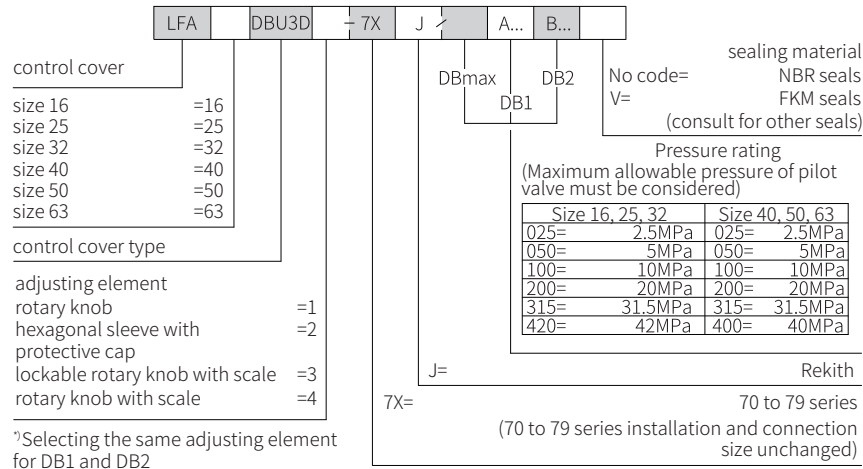


LFA..DBU2B..-7X/...  
Size 40, 50, 63



Control cover "DBU3D" with three manual pressure regulation by electric selection

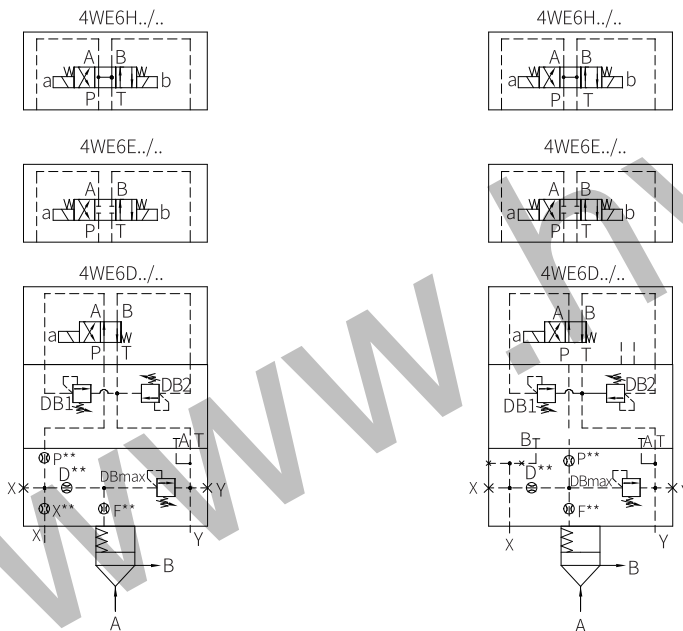
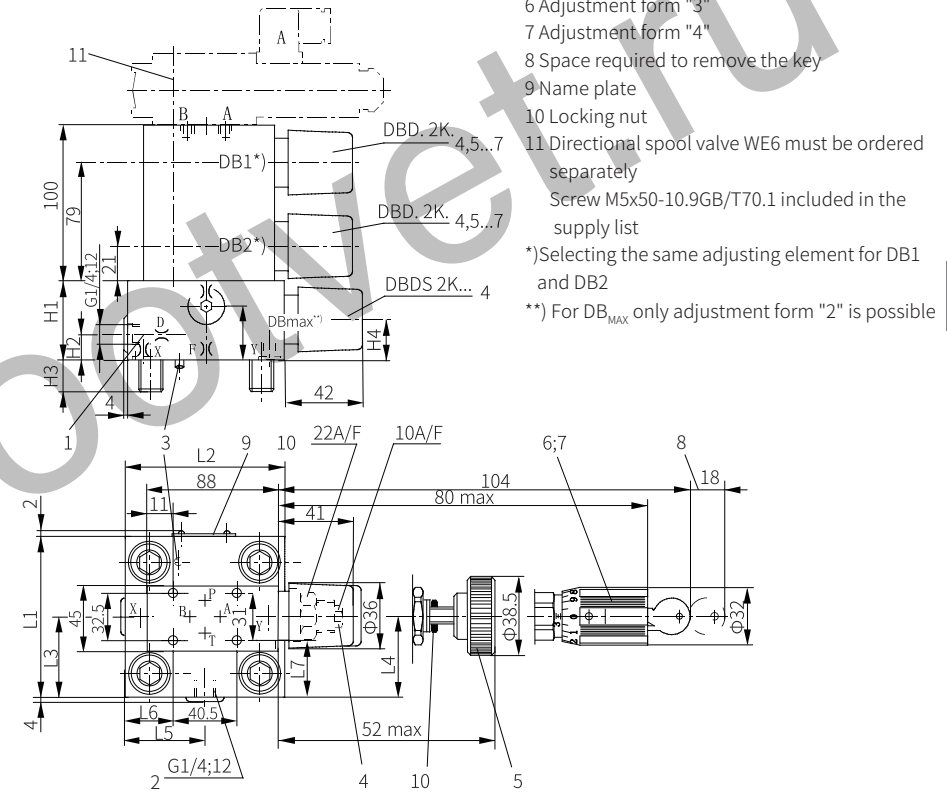
.. DBU3D... type (size 16 to 32)



Control cover "DBU3D" with three manual pressure regulation by electric selection

.. DBU3D... type (size 16 to 32)

Directional spool valve 4WE6...



LFA..DBU3D..-7X/...  
Size 16, 25, 32

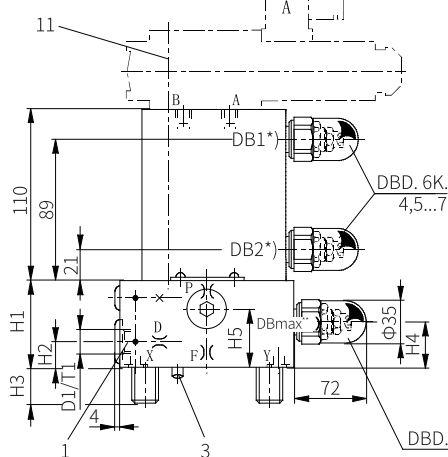
LFA..DBU3D..-7X/...  
Size 40, 50, 63

Size	H1	H2	H3	H4	H5	L1	L2	L3	L4	L5	L6	L7	Weight kg
16	40	17	15	19	28	65	80	36.5	32.5	35	7	17	4.7
25	40	19	24	19	28	85	85	49	45.5	36	8	27	5.1
32	50	26	28	26	37	100	100	56.5	53	57	31	34.5	6.8

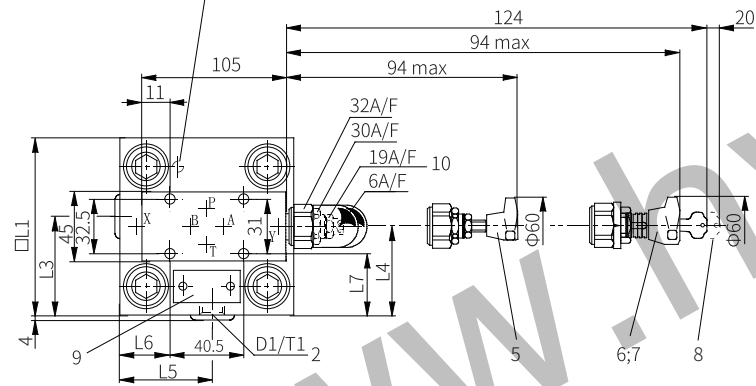
Control cover "DBU3D" with three manual pressure regulation by electric selection

.. DBU3D... type (size 40 to 50)

Directional spool valve 4WE6...



- 1 Optional port X used as threaded hole
  - 2 Optional port Y used as threaded hole
  - 3 Locating pin
  - 4 Adjustment form "2"
  - 5 Adjustment form "1"
  - 6 Adjustment form "3"
  - 7 Adjustment form "4"
  - 8 Space required to remove the key
  - 9 Name plate
  - 10 Locking nut
  - 11 Directional spool valve WE6 must be ordered separately  
Screw M5x50-10.9GB/T70.1 included in the supply list
- \*) Selecting the same adjusting element for DB1 and DB2  
\*\*) For DB<sub>MAX</sub> only adjustment form "2" is possible

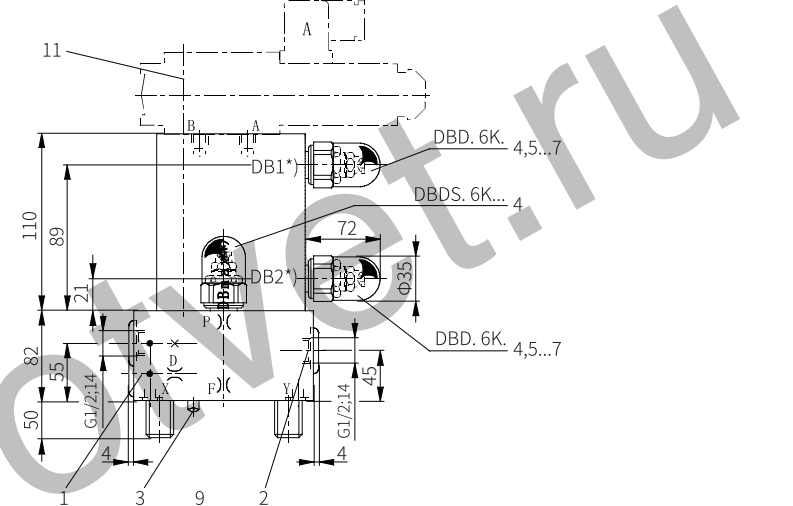


Size	D1	T1	H1	H2	H3	H4	H5	L1	L3	L4	L5	L6	L7	Weight kg
40	G1/4	12	60	17	32	27	40	125	69	76	68	43.5	47	10.7
50	G1/2	14	68	19.5	34	35	50	140	80	84	74.5	51	54.5	13.4

Control cover "DBU3D" with three manual pressure regulation by electric selection

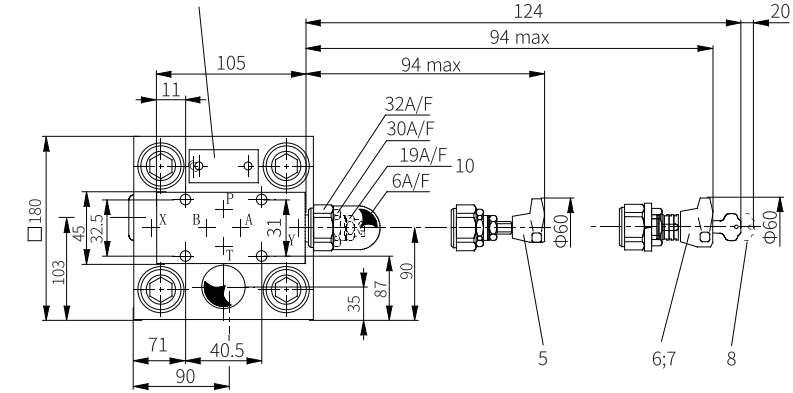
.. DBU3D... type (size 63)

Directional spool valve 4WE6...



- 1 Optional port X used as threaded hole
- 2 Optional port Y used as threaded hole
- 3 Locating pin
- 4 Adjustment form "2"
- 5 Adjustment form "1"
- 6 Adjustment form "3"
- 7 Adjustment form "4"
- 8 Space required to remove the key
- 9 Name plate
- 10 Locking nut

- 11 Directional spool valve WE6 must be ordered separately  
Screw M5x50-10.9GB/T70.1 included in the supply list
- \*) Selecting the same adjusting element for DB1 and DB2  
\*\*) For DB<sub>MAX</sub> only adjustment form "2" is possible



Logic cartridge valves models and specifications

logic cartridge valve

size 16	=16
size 25	=25
size 32	=32
size 40	=40
size 50	=50
size 63	=63

reducing function

LC DR E 7X J

sealing material  
 No code= NBR seals  
 V= FKM seals  
 (consult for other seals)

J= Rekish

7X= 70 to 79 series  
 (70 to 79 series installation and connection size unchanged)

the spool valve without precise control groove

00= cracking pressure about 0MPa(without spring)  
 20= cracking pressure about 0.2<sup>31</sup>MPa  
 30= cracking pressure about 0.3<sup>31</sup>MPa  
 40= cracking pressure about 0.4MPa  
 50= cracking pressure about 0.5MPa

<sup>31</sup>Only for size 16, 25 and 32

Technical parameters

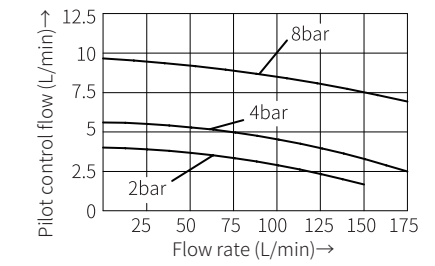
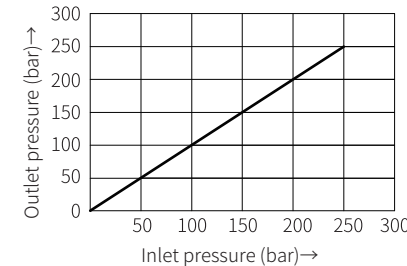
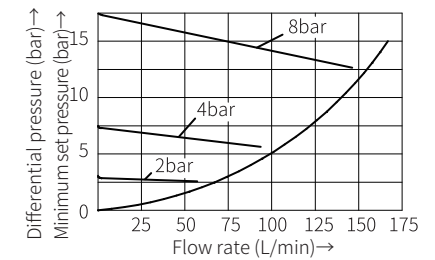
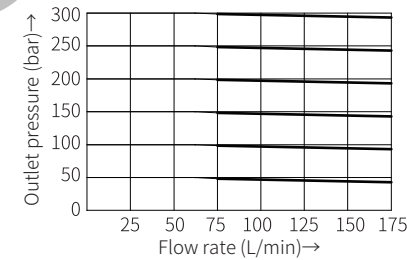
Maximum working pressure	Oil ports A and B bar	315					
Maximum flow (Reference)	Size	16	25	32	40	50	63
	LC..DR20... L/min	100	200	300	750	1000	600
Weight	LC..DR40... L/min	150	300	450	1000	1300	2000
	kg	0.25	0.5	1.1	1.9	3.9	7.2
Work medium	Mineral oil - for NBR seal or FKM seal Phosphate ester - for FKM seal						
Working medium temperature range °C	-30 to +80 (NBR seal) -20 to +80 (FKM seal)						
Viscosity range	mm <sup>2</sup> /s	2.8 to 380					
Cleanliness of oil	The maximum allowable pollution level of oil is NAS1638 Class 9 and ISO4406 Class 20 / 18 / 15 <sup>31</sup>						

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.

Characteristic curve

(Measured when using HLP46,  $\vartheta_{oil}=40^{\circ}C \pm 5^{\circ}C$ )

LC16DR...



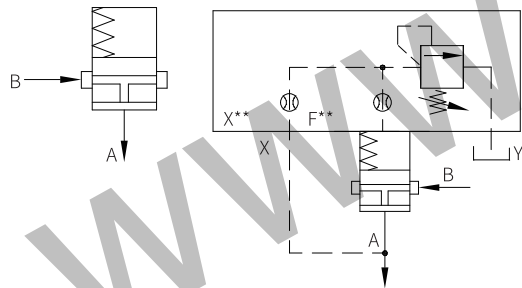
Measured at  $p_a=50bar$

Logic cartridge valves functional symbols

Model: LC ..DR..

Attention!

It is composed of 2-way logic cartridge valve LC... DR... and control cover LFA... DB...



pressure reducing function

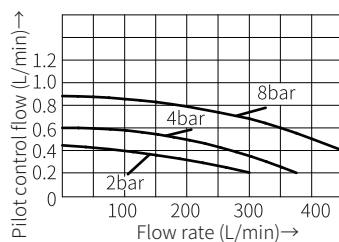
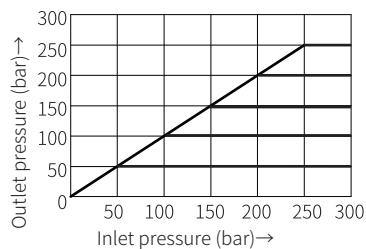
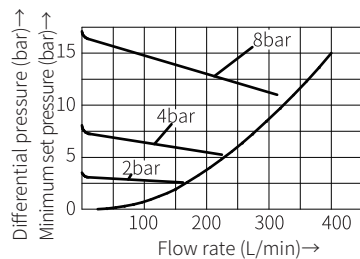
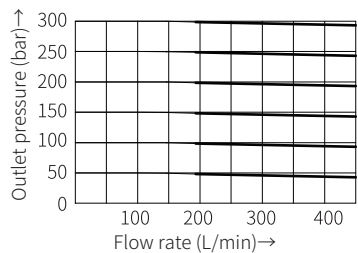
Normally open  
Example:

Model: LFA..DB...  
LC..DR40...

Characteristic curve

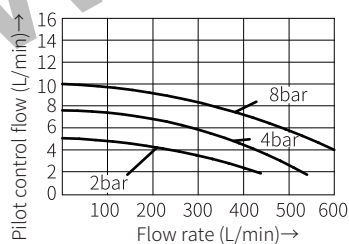
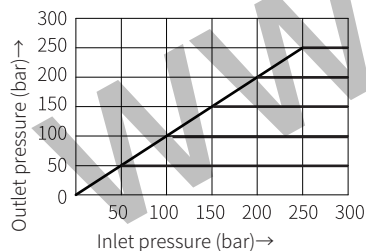
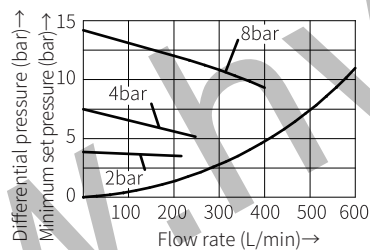
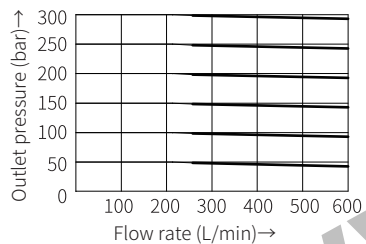
(Measured when using HLP46,  $\vartheta_{oil}=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ )

LC25DR...



Measured at  $p_s=50\text{bar}$

LC32DR...

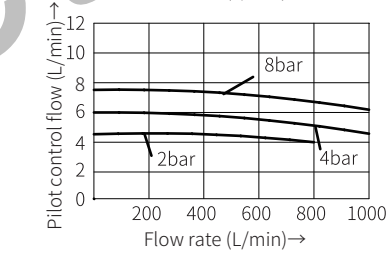
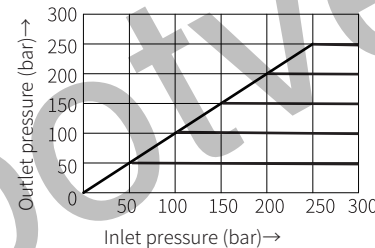
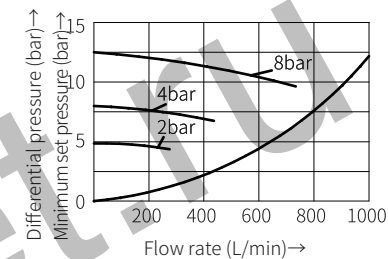
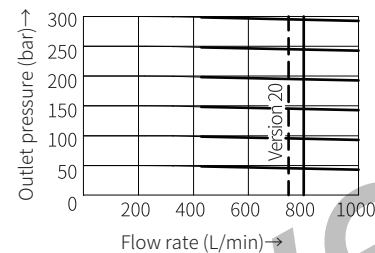


Measured at  $p_s=50\text{bar}$

Characteristic curve

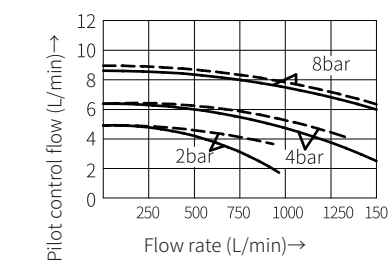
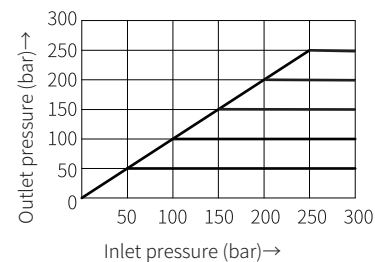
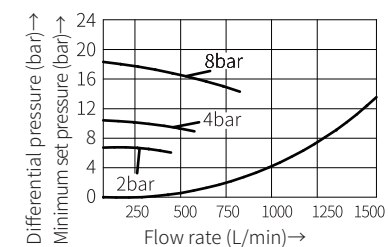
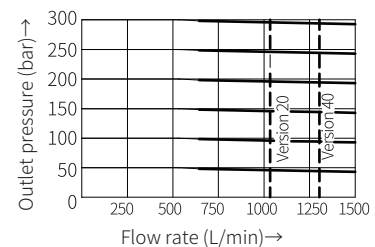
(Measured when using HLP46,  $\vartheta_{oil}=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ )

LC40DR...



Measured at  $p_s=50\text{bar}$

LC50DR...

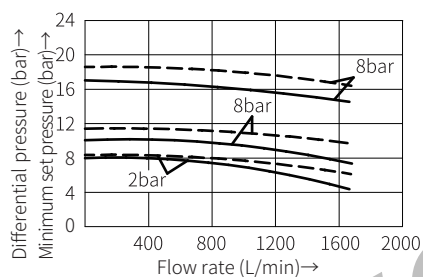
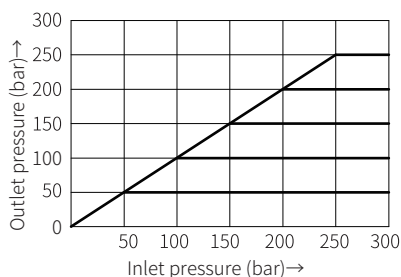
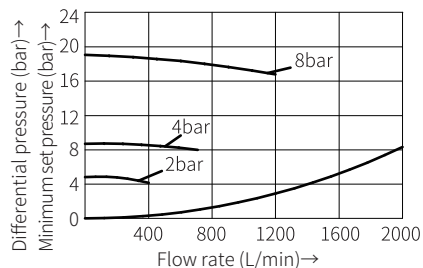
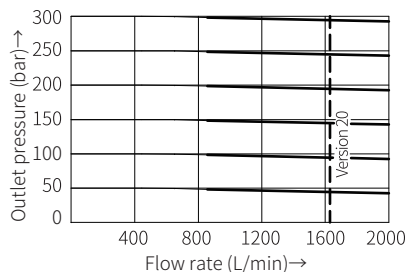


Measured at  $p_s=50\text{bar}$

### Characteristic curve

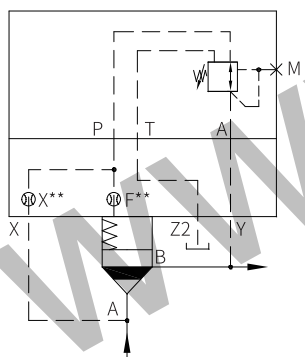
(Measured when using HLP46,  $\vartheta_{oil}=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ )

LC63DR...



Measured at  $p_s=50\text{bar}$

### Application example



Attention!  
It is composed of 2-way logic cartridge valve LC... DB... and control cover LFA... DR...

pressure reducing function

Normally closed

Example:

Model: LFA.. DR...  
LC..DB 40 D...

### Technical parameters

Working medium	Mineral oil - for NBR seal or FKM seal						
	Phosphate ester - for FKM seal						
Working medium temperature range	°C						
	-30 to +80 (NBR seal) -20 to +80 (FKM seal)						
Viscosity range	mm <sup>2</sup> /s	2.8 to 380					
Cleanliness of oil	The maximum allowable pollution level of oil is NAS1638 Class 9 and ISO4406 Class 20 / 18 / 15						
Size		16	25	32	40	50	63
Weight	kg	3.1	3.6	5.2	8	11.4	20.8

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.

Control cover		Control cover type	
Maximum working pressure at the oil port...		L-LFA..DR.—../.. L-LFA..DRW.—../...	
... X(basic pressure)		315bar	
... Y(secondary pressure = maximum set pressure)		315bar	
...Z2	As control pressure	0bar (Maximum 2bar)	
	Static	60bar	

### Valve fixing screw (included in the supply list)

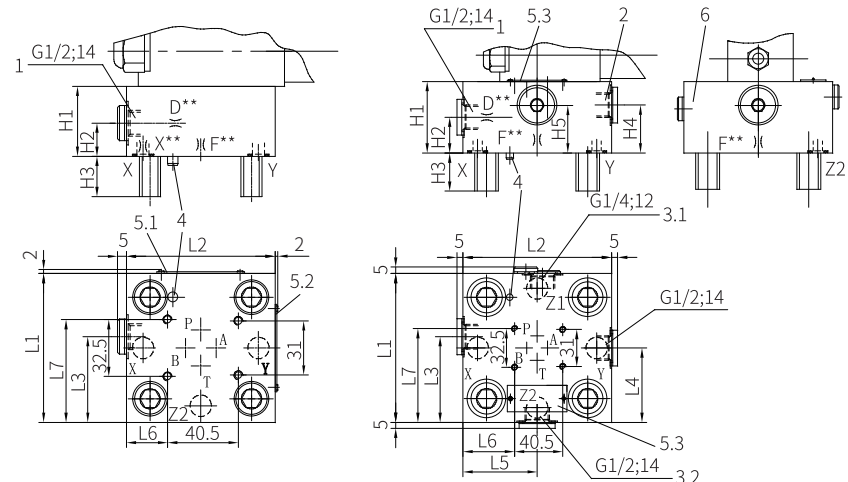
GB/T70.1 10.9 grade			
Size	Quantity	Dimension	Tightening torque (Nm)
16	4	M8×45	32
25		M12×50	110
32		M16×60	270

GB/T70.1 10.9 grade			
Size	Quantity	Dimension	Tightening torque (Nm)
40	4	M20×70	520
50		M20×80	520
63		M30×100	1800

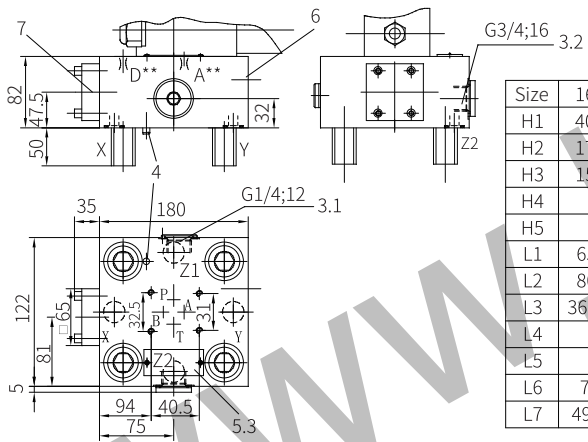


Size 16, 25, 32

Size 40, 50



Size 63



Size	16	25	32	40	50
H1	40	40	50	60	68
H2	17	19	26	30	32
H3	15	24	28	32	34
H4				40	32
H5				40	32
L1	65	85	100	125	140
L2	80	85	100	125	40
L3	36.5	49	56.5	72	80
L4				62.5	68
L5				62.5	70
L6	7	23.5	31	43.5	51
L7	49	59	66.5	79	86.5

- 1 Optional port X used as threaded hole (for size 16 to 50)
- 2 Optional port Y used as threaded hole (for size 40 to 50)
- 3.1 Optional port Z1 used as threaded hole (for size 25 to 63)
- 3.2 Optional port Z2 used as threaded hole (for size 40 to 63)
- 4 Locating pin

- 5.1 Name plate (size 16)
- 5.2 Name plate (size 25, 32)
- 5.3 Name plate (size 40, 50 and 63)
- 6 Check valve (for size 40, 50 and 63)
- 7 For control cover size 63
- 2-way logic cartridge valve size 16

.. DR... type (size 16 to 63)



control cover

- size 16 =16
- size 25 =25
- size 32 =32
- size 40 =40
- size 50 =50
- size 63 =63

control cover type

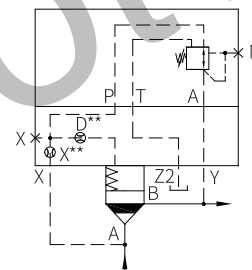
- adjusting element rotary knob =1
- hexagonal sleeve with protective cap =2
- lockable rotary knob with scale =3
- rotary knob with scale =4

No code= sealing material  
V= NBR seals  
FKM seals  
(consult for other seals)

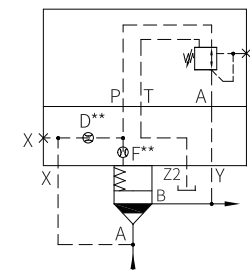
- 025= Maximum secondary pressure is 2.5MPa
- 075= Maximum secondary pressure is 7.5MPa
- 150= Maximum secondary pressure is 15MPa
- 210= Maximum secondary pressure is 21MPa
- 315= Maximum secondary pressure is 31.5MPa

J= Rekit

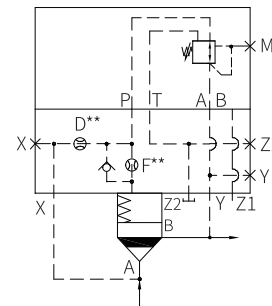
TX= 70 to 79 series  
(70 to 79 series installation and connection size unchanged)



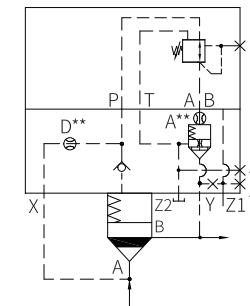
LFA...DR.TX/..  
Size 16



LFA...DR.TX/..  
Size 25 and 32



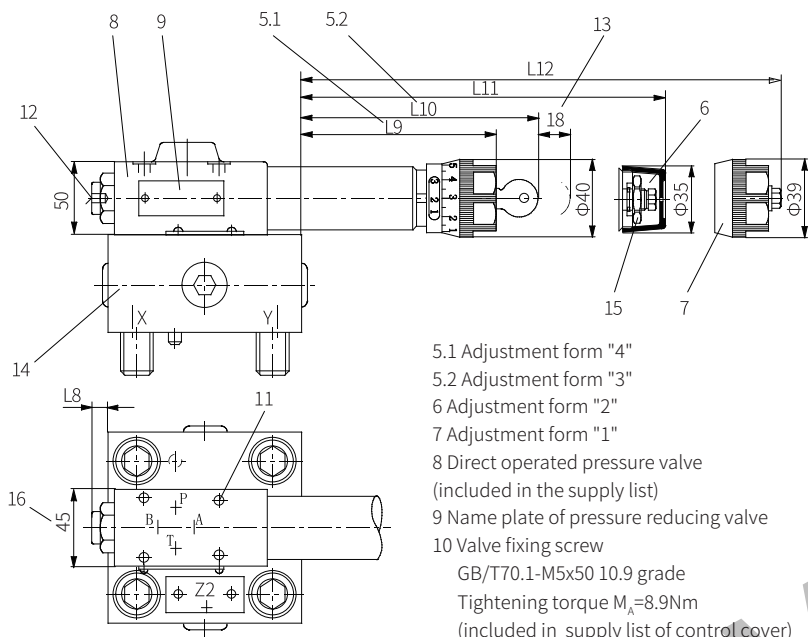
LFA...DR.TX/..  
Size 40 and 50



LFA...DR.TX/..  
Size 63

Control cover "DR" with pressure reducing function

.. DR... type (size 16 to 63)



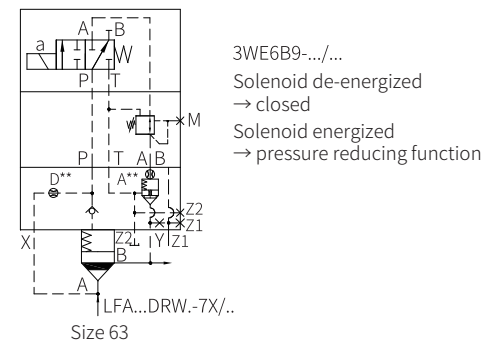
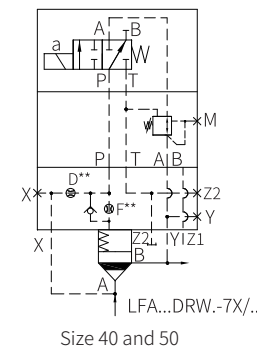
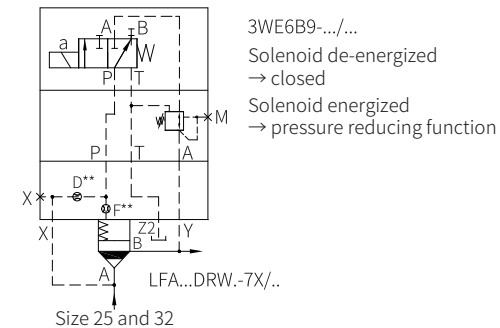
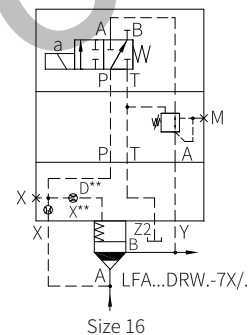
- 5.1 Adjustment form "4"
- 5.2 Adjustment form "3"
- 6 Adjustment form "2"
- 7 Adjustment form "1"
- 8 Direct operated pressure valve (included in the supply list)
- 9 Name plate of pressure reducing valve
- 10 Valve fixing screw  
GB/T70.1-M5x50 10.9 grade  
Tightening torque  $M_A=8.9Nm$   
(included in supply list of control cover)
- 11 Pressure gauge connection G1/4, depth 12  
Socket screw 6A/F
- 12 Space required to remove the key
- 13 Control cover
- 14 Locknut 24A/F
- 15 For model... /315→50mm

Size	16	25	32	40	50	63
L8	23	6				
.../315	30.5	14	6			
L9	99.5	111	103.5	91	83.5	67.5
.../315	96.5	108	100.5	88	80.5	64.5
L10	99.5	111	103.5	91	83.5	67.5
.../315	96.5	108	100.5	88	80.5	64.5
Other size	See page 32/36					

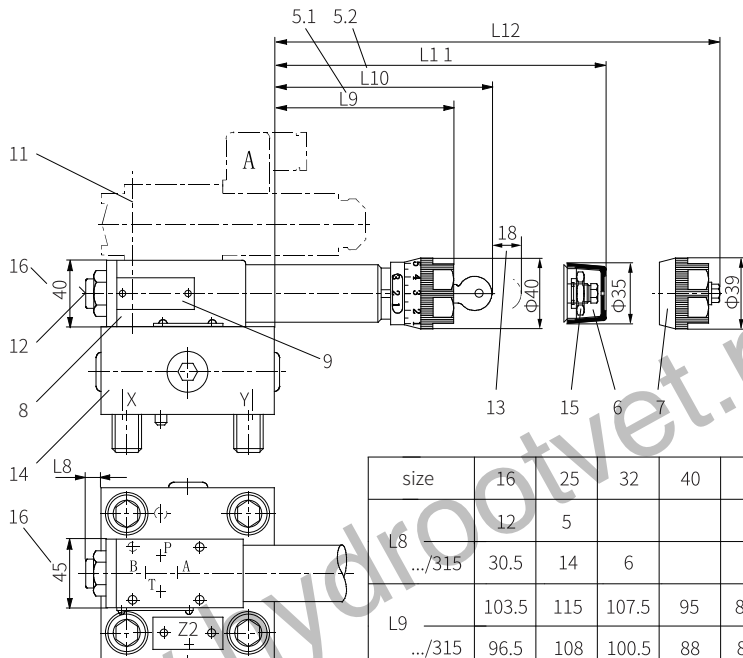
Control cover "DRW" with pressure reducing and isolating function

.. DRW... type (size 16 to 63)

control cover	LFA	DRW	TX	J	sealing material
size 16	=16				No code= NBR seals
size 25	=25				V= FKM seals
size 32	=32				(consult for other seals)
size 40	=40				025= Maximum secondary pressure is 2.5MPa
size 50	=50				075= Maximum secondary pressure is 7.5MPa
size 63	=63				150= Maximum secondary pressure is 15MPa
					210= Maximum secondary pressure is 21MPa
					315= Maximum secondary pressure is 31.5MPa
control cover type				J=	Rekith
adjusting element					
rotary knob					TX= 70 to 79 series
hexagonal sleeve with protective cap					(70 to 79 series installation and connection size unchanged)
lockable rotary knob with scale	=3				
rotary knob with scale	=4				



...DRW...type ( size 16 to 63)



size	16	25	32	40	50	63
L8	12	5				
.../315	30.5	14	6			
L9	103.5	115	107.5	95	87.5	71.5
.../315	96.5	108	100.5	88	80.5	64.5
L10	103.5	115	107.5	95	87.5	71.5
.../315	96.5	108	100.5	88	80.5	64.5
other size	see page 32/36					

- 5.1 Adjustment form "4"
- 5.2 Adjustment form "3"
- 6 Adjustment form "2"
- 7 Adjustment form "1"
- 8 Direct operated pressure reducing valve  
(included in the supply list)
- 9 Name plate of pressure reducing valve
- 10 Valve fixing screw  
M5x50-10.9 grade GB/T70.1-2000  $M_A=7.8Nm$   
(included in the supply list of control cover)

- 11 Pressure gauge connection G1/4, depth 12  
Socket screw 6A/F
- 13 Space required to remove the key
- 12 Control cover
- 13 Locknut 24A/F
- 14 For model.../315 → 50mm