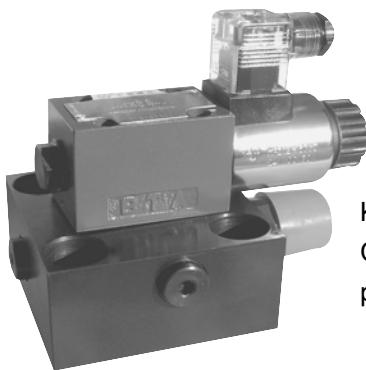


BEIJING HUADE HYDRAULIC INDUSTRIAL GROUP CO.LTD.	2-way cartridge valves-pressure functions	RE 81078/12.99
	Cartridge valves type LC...	
	Control covers type LFA...	
	Size 16 to 100	up to 40 MPa up to 7000L/min
		Replaces:



K3786/6
Control cover with manual
pressure adjustment,
type LFA ..DBW..



K3787/6
Cartridge valve type LC .. DB

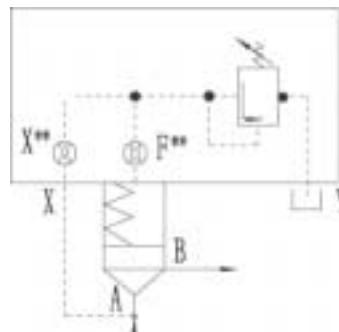
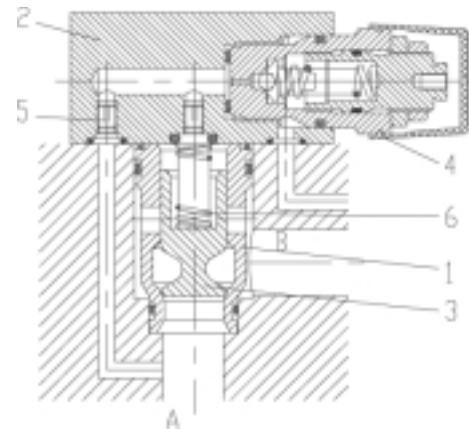
Function ,section,symbols

The 2-way cartridge valves for pressure control functions are pilot operated poppet or spool valves. The main component designed as a cartridge valve (1) is inserted in a cavity bore standardised to DIN 24342 and is sealed by control cover (2).

The pilot valve (4) for either manual or electrical proportional pressure control is integrated into the control cover (2) or mounted onto the control cover as a pilot valve with interface connections to DIN 24 340 .

Pressure relief function (Pages 32 to 71)

The cartridge valve (1) for the pressure relief function (type LC ..DB.. is a poppet valve without an area differential (no effective area at port B). The pressure acting at port A is fed via the pilot oil supply orifice (5) to the spring side (6) of the element. At pressures below the setting of pilot valve (4) the forces on spool (3) are balanced and the spool remains closed due to the spring force. On reaching the set pressure, spool (3) opens and limits the pressure at port A in line with the pressure-flow characteristics.



type LFA.DB...
type LC..DB...

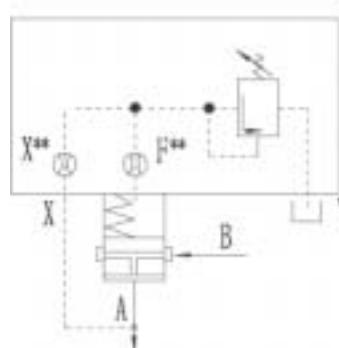
Pressure reducing function (Pages 69 to 84)

a) Normally open:

The cartridge valve for the pressure reducing function is a spool valve without an area differential (no effective area at port B). The same types of cover are used as pilot valves as are used for the pressure relief functions (type LFA..D...).

The pressure acting at port A is fed to the spring side of the spool via the pilot oil supply orifice. Below the performance limit and pressure set at the pilot valve, the spool is pressure balanced and is held open by the spring force, so that oil is free to flow from port B to port A.

On reaching the set pressure, the spool closes and reduces the pressure at port A in line with the pressure-flow characteristics.



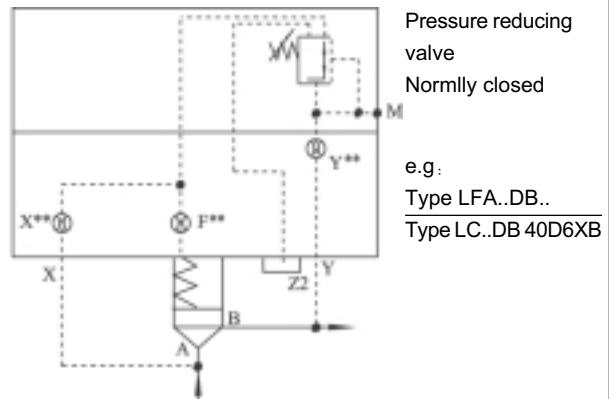
Pressure Reducing Valve
Normally open
eg.
type LFA..DB...
type LC..DR40...

Function, description

b) Normally closed:

For the pressure reducing function with a pressure reducing valve (type LFA..DR...) as the pilot valve are used. The pilot oil is fed from port A via the pilot supply orifice and the open pressure reducing pilot valve to side B.

The main spool opens and allows free flow from port A to port B. On reaching the set pressure, the spool closes and reduces the pressure at port B in line with the pressure-flow characteristics. Possible excess pressures occurring on the secondary side are led away to tank via the third port of the pilot valve. By fitting a directional valve, an additional isolating function can also be attained (type LFA..DRW...).



Pressure sequencing function

Control cover type LFA...DZ...

Control cover type LC...DB...

This function enables a pressure-dependent sequencing of a second system.

The required sequencing pressure is set by the pilot valve which is integrated into the control cover.

The pilot oil supply may be either external (pilot oil port X) or internal (from port A via pilot oil port X or Z2).

The spring chamber of the pilot control is drained at zero pressure via ports Y or Z1 to tank.

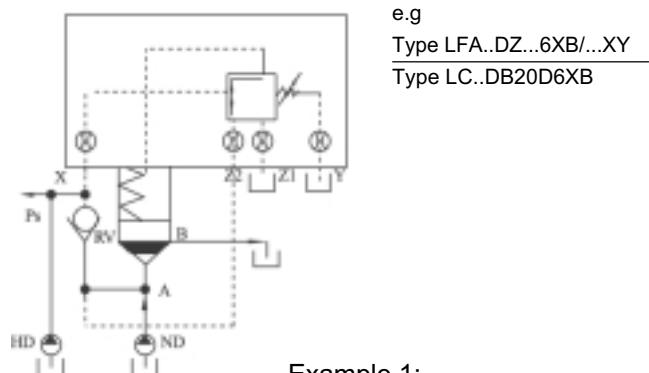
When the pressure set at the pilot control spring is reached, the pilot valve switches and unloads the spring chamber of the main valve to tank. The main spools opens and makes the connection from port A to B possible.

In model LFA..DZW..., the required spool position may be selected by means of an electrically operated pilot valve (not included within the supply of control cover) LFA..DZW...) in addition to the normal hydraulic control.

Typical circuits

Example 1:

In the circuit shown, the system is fed by a high pressure pump and a low pressure pump. The system pressure p_s acts externally from the high pressure side via the pilot oil port X on the pilot valve which, on reaching the set pressure, switches the low pressure side to give zero pressure circulation. The check valve RV (not included within the scope of supply) prevents the high pressure system from flowing into the low pressure system which is now at zero pressure.



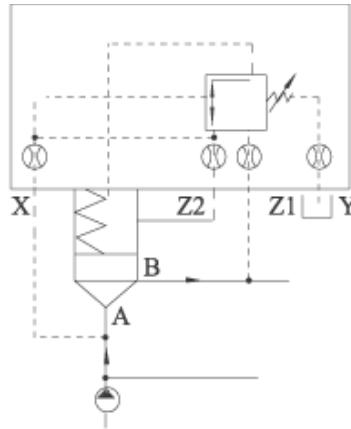
Example 1:
Circuit for the pressure dependent unloading of the low pressure system

Example 2:

With this circuit, oil is allowed to flow into system 2 when the pressure in system 1 has reached a pre-set value. The pilot oil supply is internal from port A of the main valve.

Example 2:

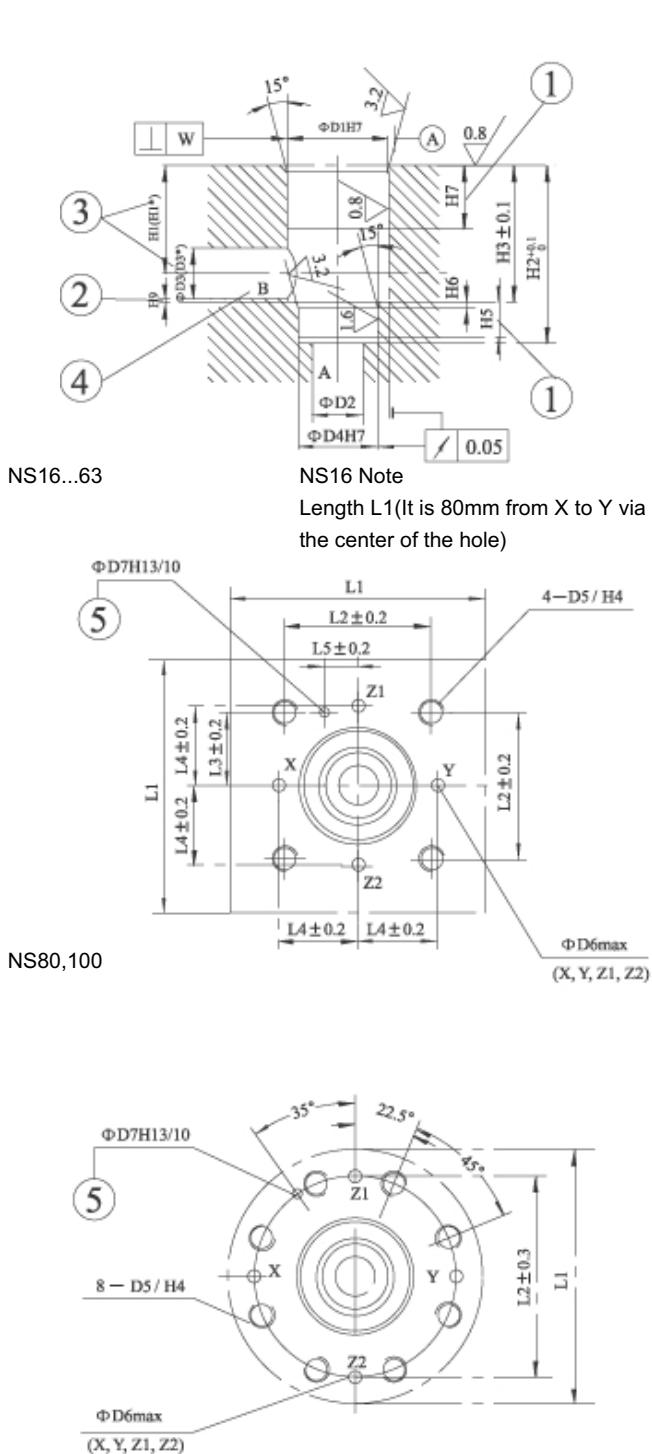
(circuit for the pressure dependent sequencing of a 2nd system)



Type LFA..DZ...6XB/...Y
Type LC..DB20D6XB

Installation cavity and porting pattern to DIN 24342

(Dimensions in mm)



Size	16	25	32	40	50	63	80	100
øD1	32	45	60	75	90	120	145	180
øD2	16	25	32	40	50	63	80	100
øD3	16	25	32	40	50	63	80	100
(øD3)*	25	32	40	50	63	80	100	125
øD4	25	34	45	55	68	90	110	135
øD5	M8	M12	M16	M20	M20	M30	M24	M30
øD6 ¹⁾	4	6	8	10	10	12	16	20
øD7	4	6	6	6	8	8	10	10
H1	34	44	52	64	72	95	130	155
(H1')	29.5	40.5	48	59	65.5	86.5	120	142
H2	56	72	85	105	122	155	205	245
H3	43	58	70	87	100	130	175 ± 0.2	210 ± 0.2
H4	20	25	35	45	45	65	50	63
H5	11	12	13	15	17	20	25	29
H6	2	2.5	2.5	3	3	4	5	5
H7	20	30	30	30	35	40	40	50
H8	2	2.5	2.5	3	4	4	5	5
H9	0.5	1	1.5	2.5	2.5	3	4.5	4.5
L1	65/80	85	102	125	140	180	250	300
L2	46	58	70	85	100	125	200	245
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	0.2	0.2

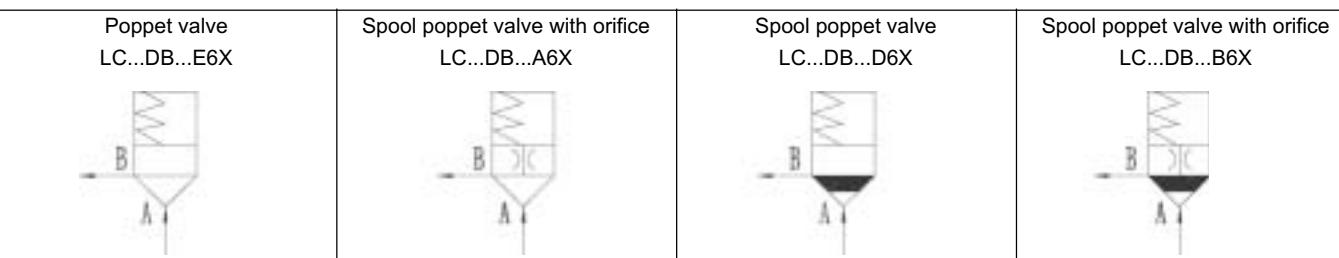
- 1)Max. dim.
- 1 Depth of fit
- 2 Reference dimension
- 3 For diameters of port B other than ø D3 or (ø D3*), the distance from the cover mounting surface to the centre of this hole must be calculated.
- 4 Port B may be moved about the central axis of port A. Care must however be taken to ensure that the fixing holes and control holes are not damaged.
- 5 Drilling for location pin

Pressure relief function

Ordering details: pressure relief cartridge valves (without control cover)

LC	DB			6X	B	*	
Nominal size 16	= 16						Further details in clear text
Nominal size 25	= 25						
Nominal size 32	= 32						
Nominal size 40	= 40						
Nominal size 50	= 50						
Nominal size 63	= 63						No code = Mineral oils
Nominal size 80	= 80						V = Phosphate ester
Nominal size 100	= 100						B= Technology of Beijing Huade Hydraulic
Cracking pressure approx. 0 MPa (without spring)	=00						
Cracking pressure approx. 0.2 MPa	=20	}**					
Cracking pressure approx. 0.4 MPa	=40						
**Cracking pressure 0.3 MPa only with NS16 for fitting a pilot operated pressure relief valve type DBC . -5X/				6X=			Series 60 to 69 (60 to 69: unchanged installation and connection dimensions)
E = Poppet valve without orifice (standard)							
D = Spool poppet valve without orifice (standard)							
A = Poppet valve with orifice							
B = Spool poppet valve with orifice							

Symbols: cartridge valves (for versions see ordering details)



Technical data (for applications outside these parameters, please consult us!)

Pressure fluid				Mineral oil for NBR seals or Phosphate ester for FPM seals								
Pressure fluid temperature range				°C -20 to +80								
Viscosity range				mm²/s 2.8 to 380								
2-way cartridge valves												
Operating pressure at port A and B				up to 42MPa								
Size				16	25	32	40	50	63	80	100	
Max. Flow (recommend)				L/min								
Poppet valve cartridge LC...DB..E 6X/.. LC..DB..A 6X/..				250	400	600	1000	1600	2500	4500	7000	
Spool valve cartridge LC...DB..D 6X/.. LC..DB..B 6X/..				175	300	450	700	1400	1750	3200	4900	
Control Cover												
Max. operating pressure												
Type LFA NS Port	..DB.. 16..100	..DBW.. 16 ...32 40...63 80,100	..DBS.. 40...63 80,100			..DBU.. 16.63 80,100			..DBE.. 16...100		..DBETR.. 16...100	
			40			31.5			35.0			
X, Y	When controlling pressure			zero pressure (up to 0.2 MPa)								
	Static state	31.5	10.0	16.0(DC) 10.0(AC)	16.0(DC) 10.0(AC)	16.0	10.0	5.0	16.0(=) 10.0(≈)	16.0	10.0	31.5
Corresponds to the permissible tank pressure of the pilot valves		DBD...	Poppet valves, NS6	Spool valves, NS6	Spool valves, NS6	Spool valves, NS10	Poppet valves, NS6	Poppet valves, NS6	Spool valves, NS6	Spool valves, NS10	DBET	DBETR

General notes on the ordering details for control covers

1	2	3	4	5	6X	B	6	7	8	9	10									
Nominal size											*									
16	25	32	40	50	63	80	100									Type	Page	Control type	Se- ries	Note
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	DB	47...49			
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	DBW	50...54			
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	DBS	50...54			
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	DBWD	55...57			
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	DBU2A				
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	DBU2B	58...61			
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	DBU3D	62...66			
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	DBE	67			
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	DBETR				
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	DBEM				
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	DBEMTR	68...71			
6X= Series 60 to 69																				
Technology of Beijing Huade Hydraulic																				
For ordering details, see pages giving details of the individual cover variations																				
Pressure rating for nominal sizes																				
16...32																				
40...100																				
50																				
100																				
200																				
315																				
420																				
025,050																				
100,200																				
315,420																				
50																				
100																				
200																				
315																				
420																				
025,050																				
100,200																				
315,420																				
50																				
100																				
200																				
315																				
420																				
050,100																				
200,315																				
420																				
025,050																				
100,200																				
315,420																				

4

7
A...

5

6

Pressure data for DB1, only required for types DBU2 and DBU3D

Ordering example for type DBU3D

.../315* A B 200 (DB max. /DB1/DB2)

*DB max. always first

The control covers are always fitted with a, optimised on our test rig, standard orifice. Orifice details are therefore not required in the type code. Deviating operating conditions could make it necessary to match the orifice size. The orifices are of the threaded type.

Orifice as shown within the main symbol



100 = 10.0 MPa
200 = 20.0 MPa
315 = 31.5 MPa
400 = 40.0 MPa
420 = 42.0 MPa

General notes on the ordering details for control covers

Note:

By combining a 2-way cartridge valve with a pilot valve, various valve functions may be implemented. The following components may be considered with porting pattern form A6 (up to NS63) and form A10 (NS 80 to 100) to DIN 24 340.

Valve fixing screws are included within the control cover scope of supply.

Directional spool valve

Directional spool valve	NS	Catalogue sheet no.	Control cover
3WE6 B9-5XB/...	6		DBW,DBWD
4WE6 D 5XB/...	6		DBW,DBU2 ^A B,DBU3D
4WE6 M 5XB/...	6		DBU2A,DBU3D
4WE6 H 5XB/...	6		DBU3D
4WE6 E 5XB/...	6		DBW,DBU3D,DBU2 ^A B
4WE10 D...	10		DBW,DBWD
3WE10 B9...	10		DBWD
3WE10 A...	10		DBWD
4WE10 M...	10		DBU2A,DBU3D
4WE10 H...	10		DBU3D

Directional poppet valve

Directional poppet valve	NS	Catalogue sheet no.	Control cover
M-3SEW6 C 2XB/...	6		DBW,DBS
M-3SEW6 U 2XB/...	6		DBW,DBS
M-3SE10 C 2XB/315...	10		DBS
M-3SE10 U 2XB/315...	10		DBS
M-3SE10 C 2XB/630...	10		DBS.../400
M-3SE10 U 2XB/630...	10		DBS.../400

Note: The pilot valve must be ordered separately, other details see relevant catalogue sheet. But valve fixing screws are included in supply.

Manual adjustment pressure relief cartridge valve

(Included within the scope of supply, need't to be ordered separately!)

pressure relief valve, direct operated	NS	Control cover
DBD.2K 1XB/...	2	16 to 32
DBD.6K 1XB/...	6	40 to 63
DBD.10K 1XB/...	10	80 to 00

Proportional pressure relief valve.

Proportional pressure relief valve				Control cover		
Type	NS	possible pressure grades (MPa)	Catalogue sheet no.	Type	NS	
DBET-5XB/...G24-1	6	5.0 10.0		DBE***	16 to 32	
DBET-5XB/...G24		20.0			40	
DBET-5XB/...YG24-1		31.5		DBEM	50 to 100	
DBET-1XB/...		35.0		DBETR***	16 to 40	
DBET-1XB/...Y409	6	2.5			50 to 100	
DBET-1XB/...		8.0			16 to 40	
DBETR-1XB/...Y409		18.0			50 to 100	
DBETR-1XB/...Y409		31.5			35.0	

* * * Control cover of type DBE,DBETR only used in Nominal size max. to 63.

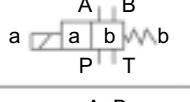
1 = G1/4" threaded port T, special spool

409 = G1/4" threaded port T.

Instead of type LFA16DB...and L FA16DBW control cover, may choose pressure relief valve in table.	Nominal Size
Polite control according to sheet RC 25802 (not follow DIN port dimension)	16
DBC.-5X...SO187	
DBWC.-5X/...SO 187 (Used in direction valve unloading)	

Compression springs Note

Nominal size and Material no. of Compression springs,
see sheet Page 73

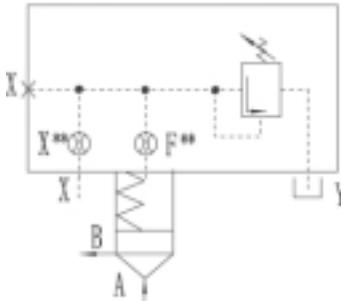
Pilot control valves (selection table)										
	Nom. size			Type	Pilot control valve	Manual pressure setting			Symbols	
	16to 32	40to 63	80to 100			Without directional valve	With directional valve			
	●	●	●	DB		Position "a"	Position "b"			
										
● = available						Position "a"	Position "o"	Position "b"		
Directional valve unloading	●	●		DBW	3WE6B9...	open	DB function		2,3	
	●				M-3SEW6C...					
	●	●			4WE6D ...	DB function	open			
	●				M-3SEW6U...					
	●		●		3WE10B9 ...	open	DB function			
			●	DBS	4WE10D...	DB function	open		3	
			●		M-3SEW6C...	open	DB function			
			●		M-3SEW6U...					
			●		M-3SE10C.../..	DB function	open		4	
			●		M-3SE10U.../..	DB function	open			
Isolating function	●	●		DBWD	3WE6B9...	DB function	closed		5	
	●				3WE10B9...					
	●	●			3WE6A-...	closed	DB function			
	●				4WE6M...					
	●			DBU2A	3WE10A-...			open		
	●				4WE10M...			open		
	●				4WE6H...	DBmax function	open	DB1 Proportional	6	
	●				4WE10H...			DB1 function		
2 pressure stages	●	●		DBU2B	4WE6D...	DB1 function	DBmax function		-	
	●				4WE10D...					
	●			DBU3D	4WE6D...	DB2 function	open	DB1 Proportional		
	●				4WE10E...		DBmax function			
	●				4WE6D...		DB1 function			
3 pressure stages	●	●			4WE10D...				7	
	●									
	●									
	●									
	●									
	●									
Proportional valves				Proportional pressure setting						
	●	●	●	DBE	DBET-5XB/...		Without max. pressure safety limitation			
	●	●	●	DBETR	DBETR-1XB/...		With max. pressure safety limitation			
	●	●	●	DBEM	DBET-5XB/...					
	●	●	●	DBEMTR	DBETR-1XB/...					
Open = bypass circuit Closed = cartridge valve is hydraulically blocked DB function = pressure relief function										

Symbol overview (basic symbols), pressure relief function

Valid symbols are shown in the following type descriptions!

1

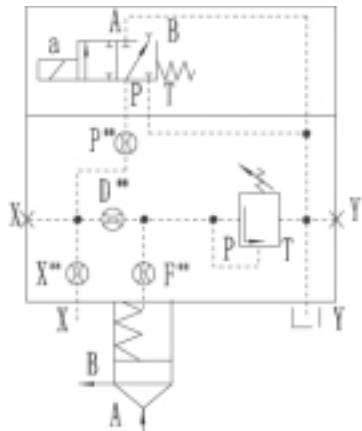
LFA...DBW.-/. NS 16 to 100



see pages 47 to 49

2

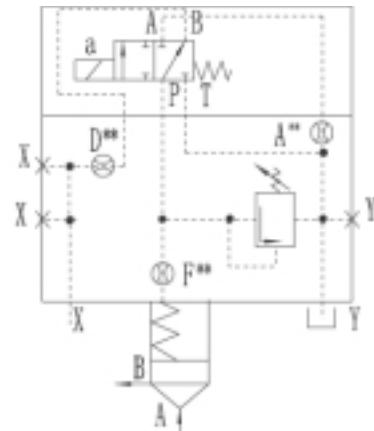
LFA...DBW.-/. NS 16 to 32



see pages 50 to 51

3

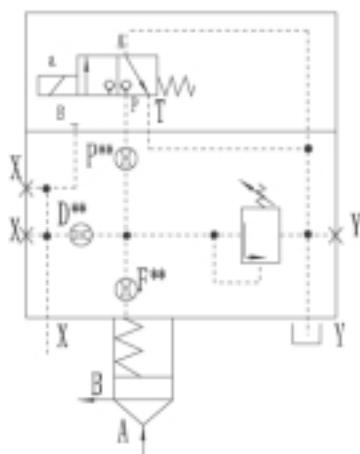
LFA...DB.-/. NS 10 to 100



see pages 50 to 54

4

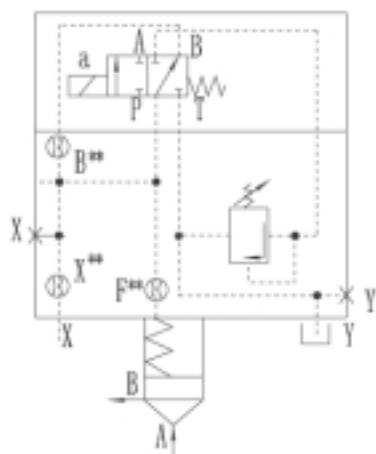
LFA...DBS.-/.NS 40 to 100



see pages 50 to 54

5

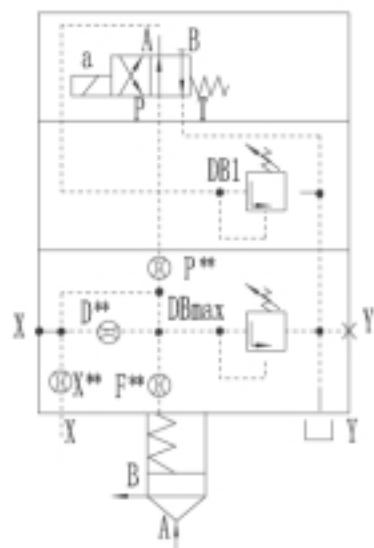
LFA...DBWD.-/.NS 16 to 100



see pages 55 to 57

6

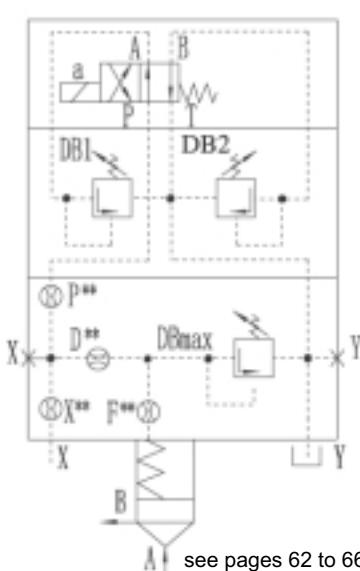
LFA...DBU 2A.-/.NS 16 to 100



see pages 58 to 61

7

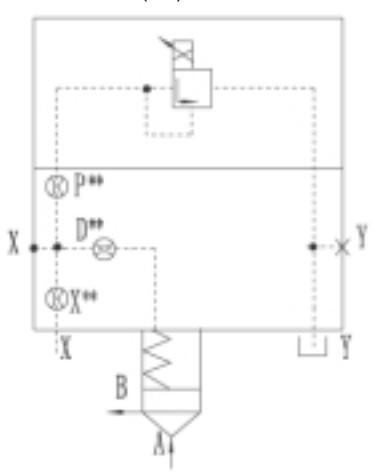
LFA...DBU 3D.-/.NS 16 to 100



see pages 62 to 66

8

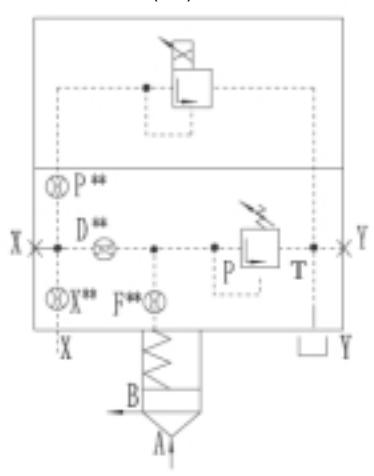
LFA...DBE(TR).-/.NS 16 to 63



see page 67

9

LFA...DBEM(TR).-/.NS 16 to 100

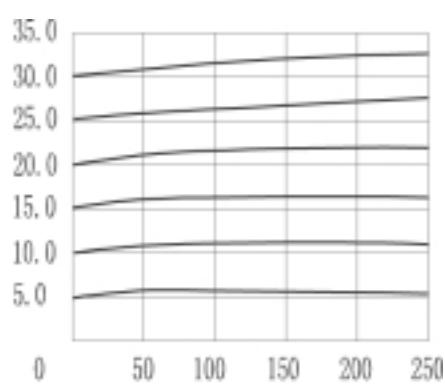
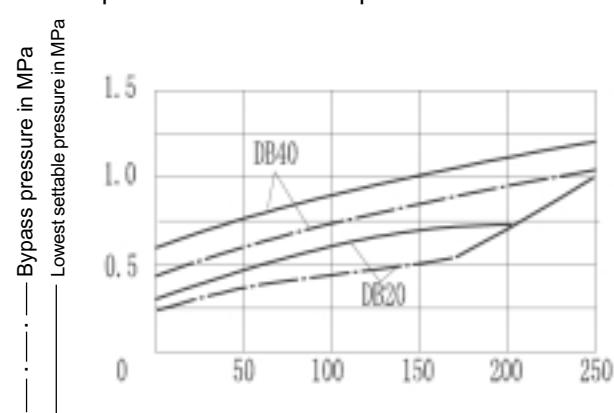


see pages 68 to 71

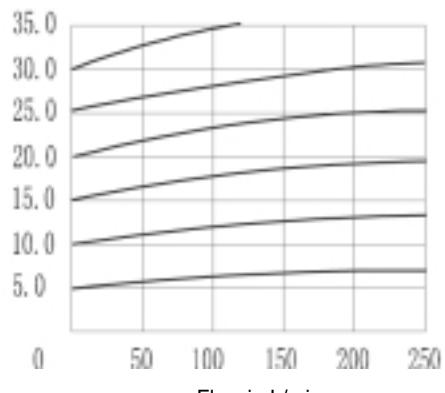
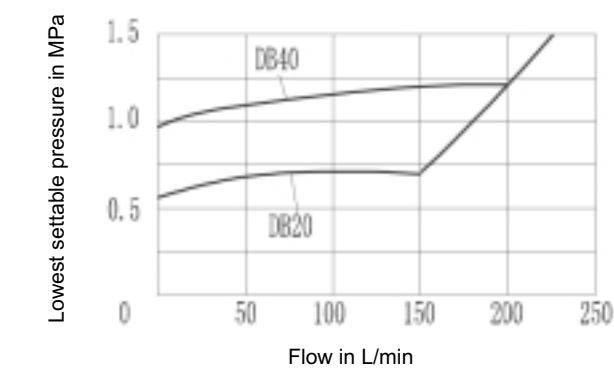
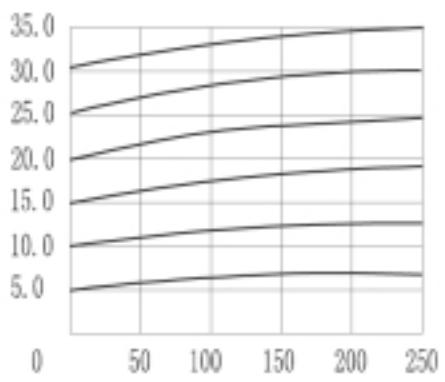
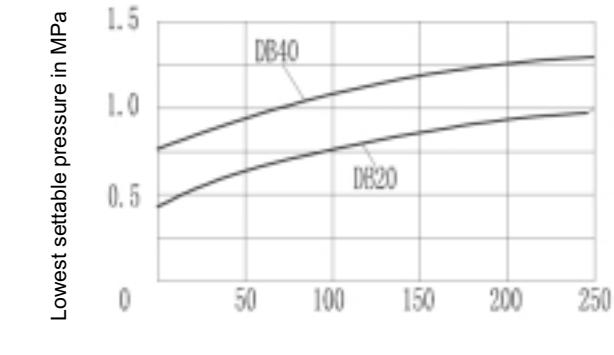
Characteristic curves: (measured at $v = 41\text{mm}^2/\text{s}$ and $t = 50^\circ \text{C}$)

NS 16 The characteristic curves were measured with an external pilot oil drain at zero pressure. With an internal pilot oil drain the inlet pressure is increased to the pressure being applied at port B.

Manual pressure adjustment, type LFA16 DB DBW...6XB/...



Electrical proportional pressure adjustment, type LFA16DBE...6XB/...

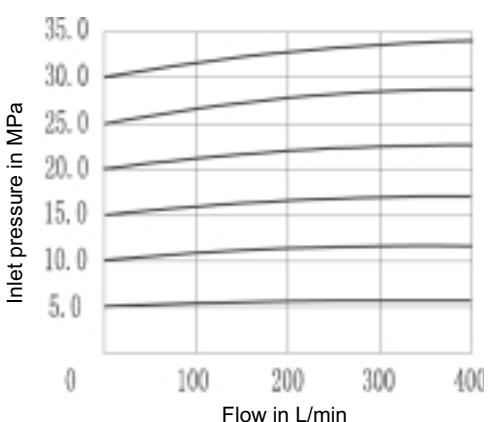
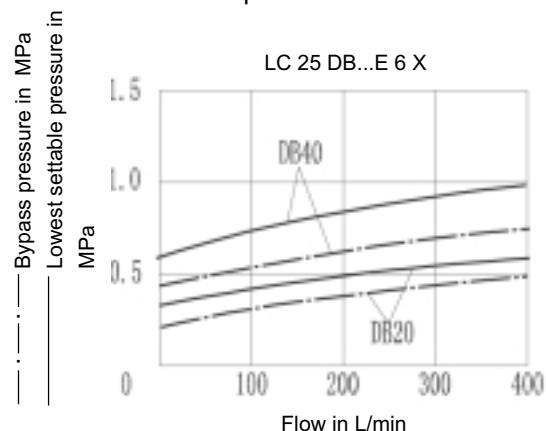


Characteristic curves: (measured at $v = 41\text{mm}^2/\text{s}$ and $t = 50^\circ\text{C}$)

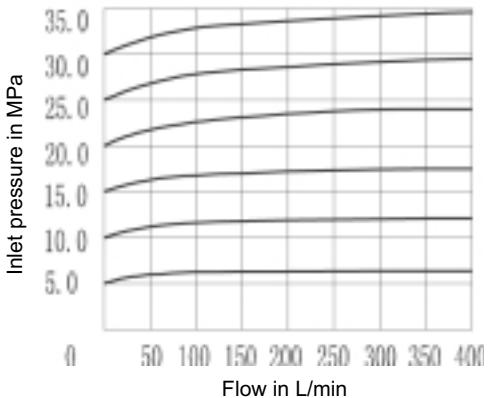
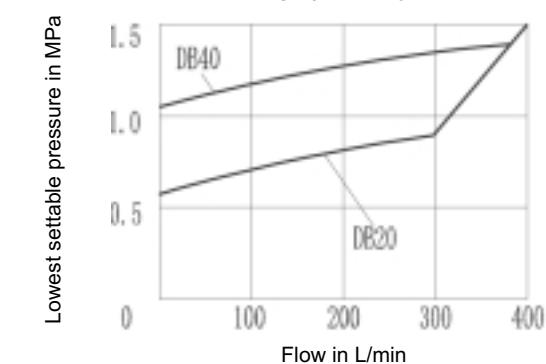
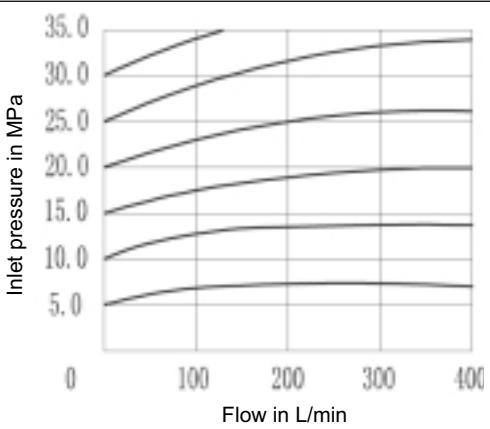
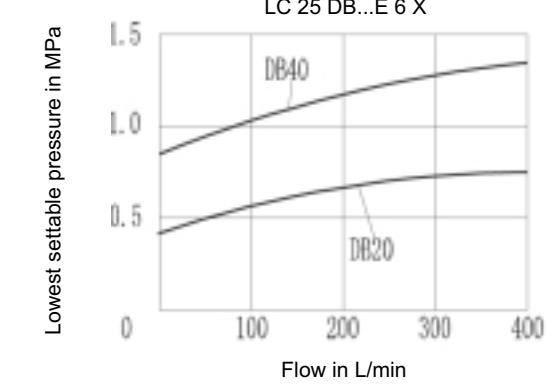
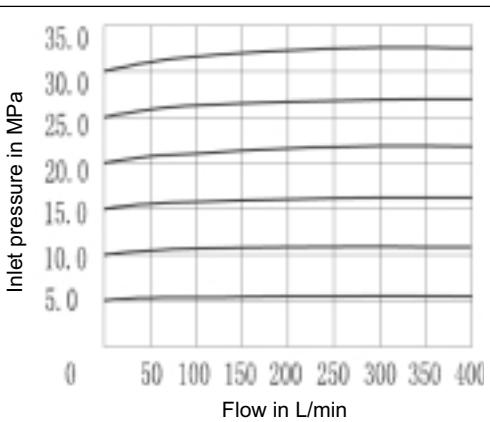
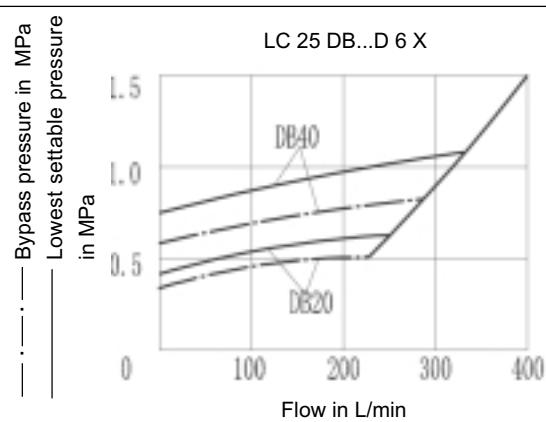
NS 25

The characteristic curves were measured with an external pilot oil drain at zero pressure. With an internal pilot oil drain the inlet pressure is increased to the pressure being applied at port B.

Manual pressure adjustment,LFA 25 DB DBW...6XB/...



Electrical proportional pressure adjustment, type LFA25DBE...6XB/...

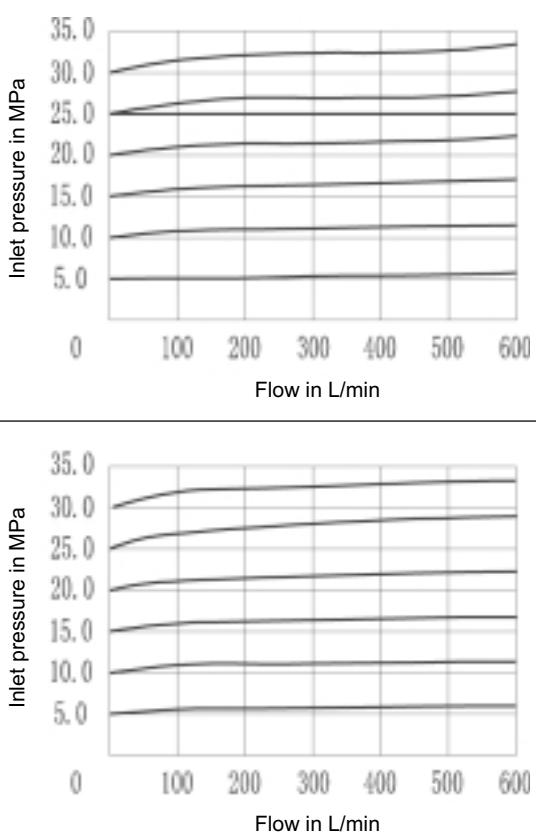
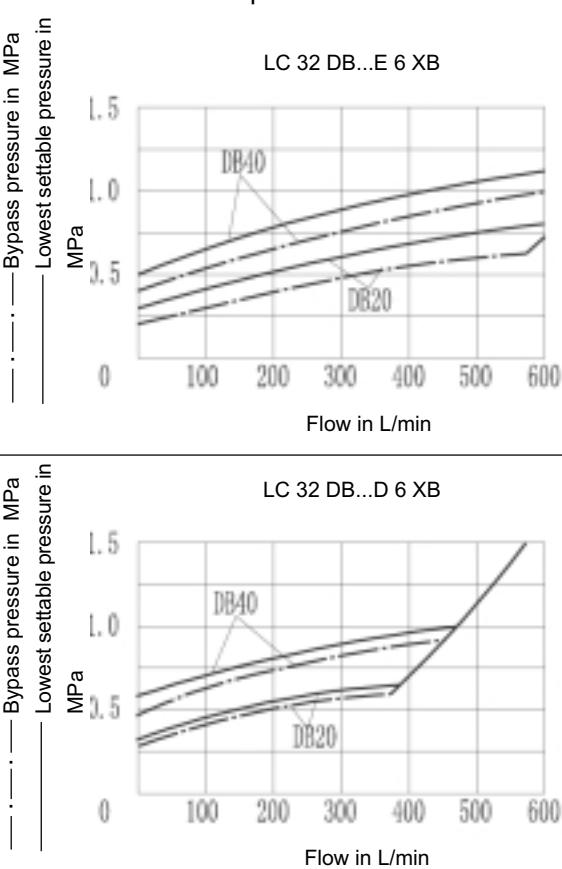


Characteristic curves: (measured at $v = 41 \text{ mm}^2/\text{s}$ and $t = 50^\circ \text{ C}$)

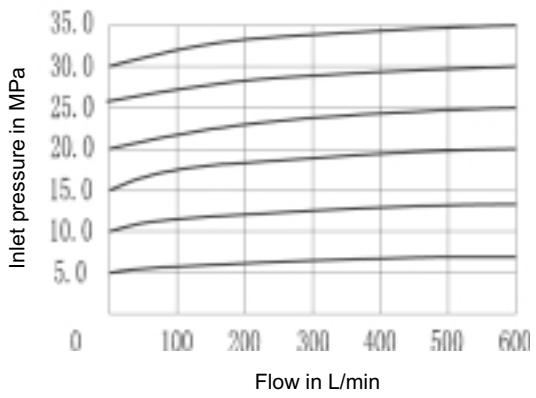
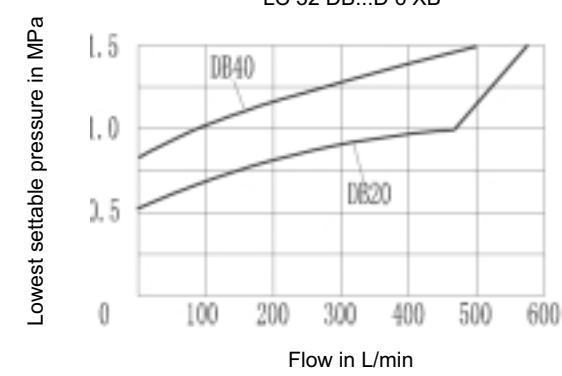
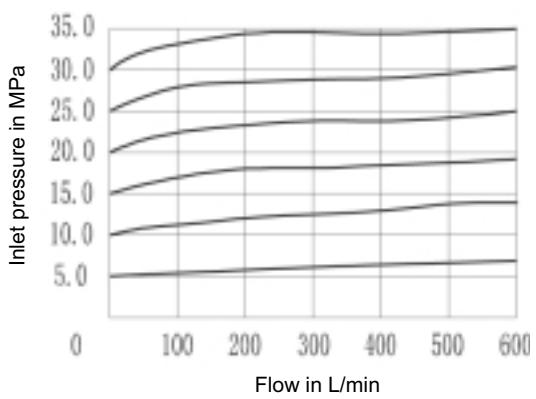
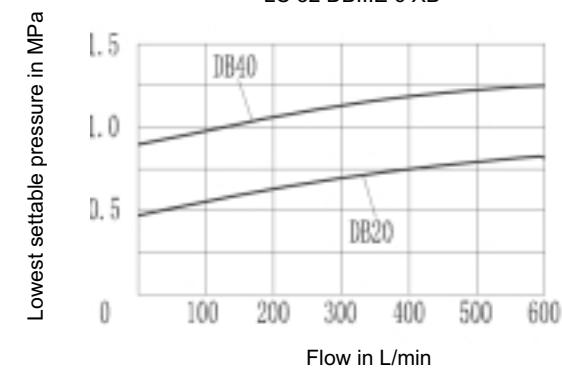
NS 32

The characteristic curves were measured with an external pilot oil drain at zero pressure. With an internal pilot oil drain the inlet pressure is increased to the pressure being applied at port B.

Manual pressure adjustment, type LFA 32 DB DBW...6XB/...



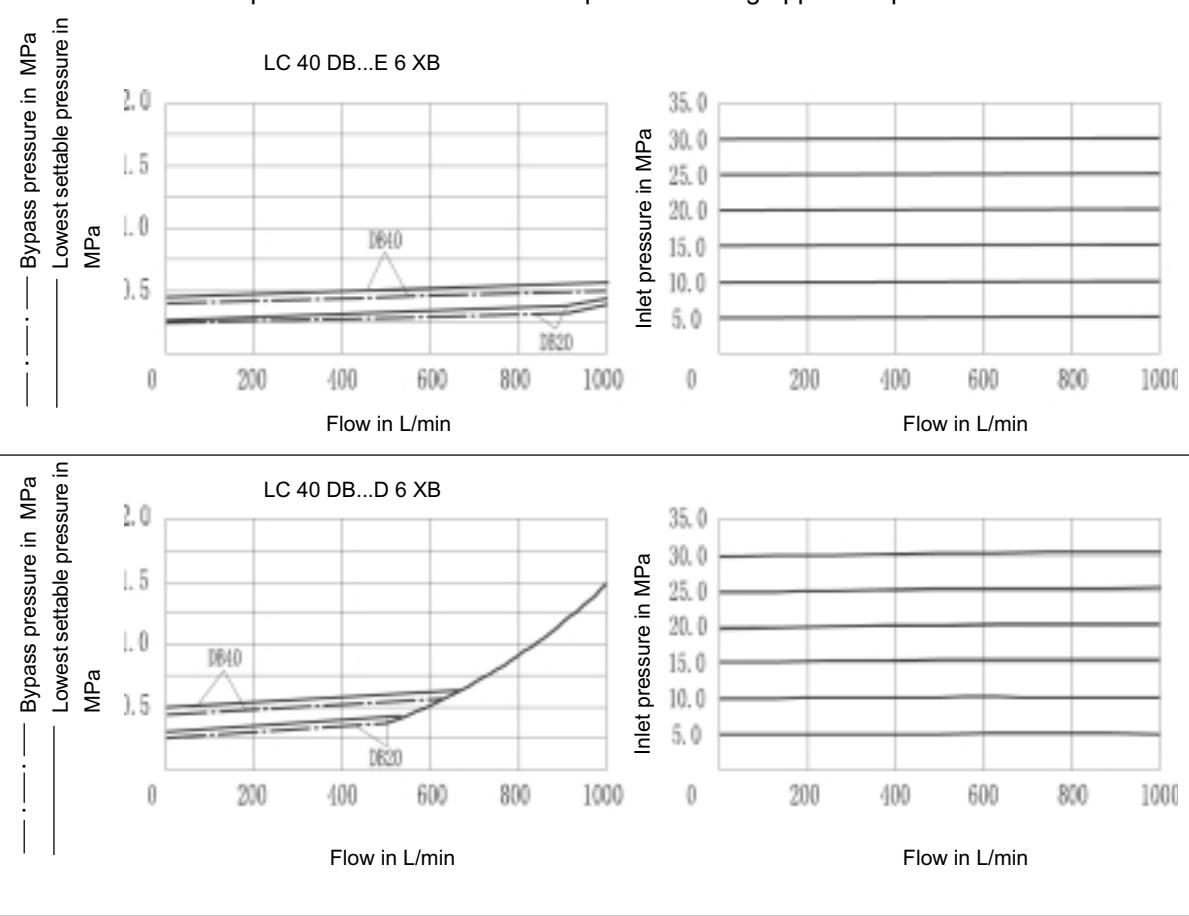
Electrical proportional pressure adjustment, type LFA16DBE...6XB/...



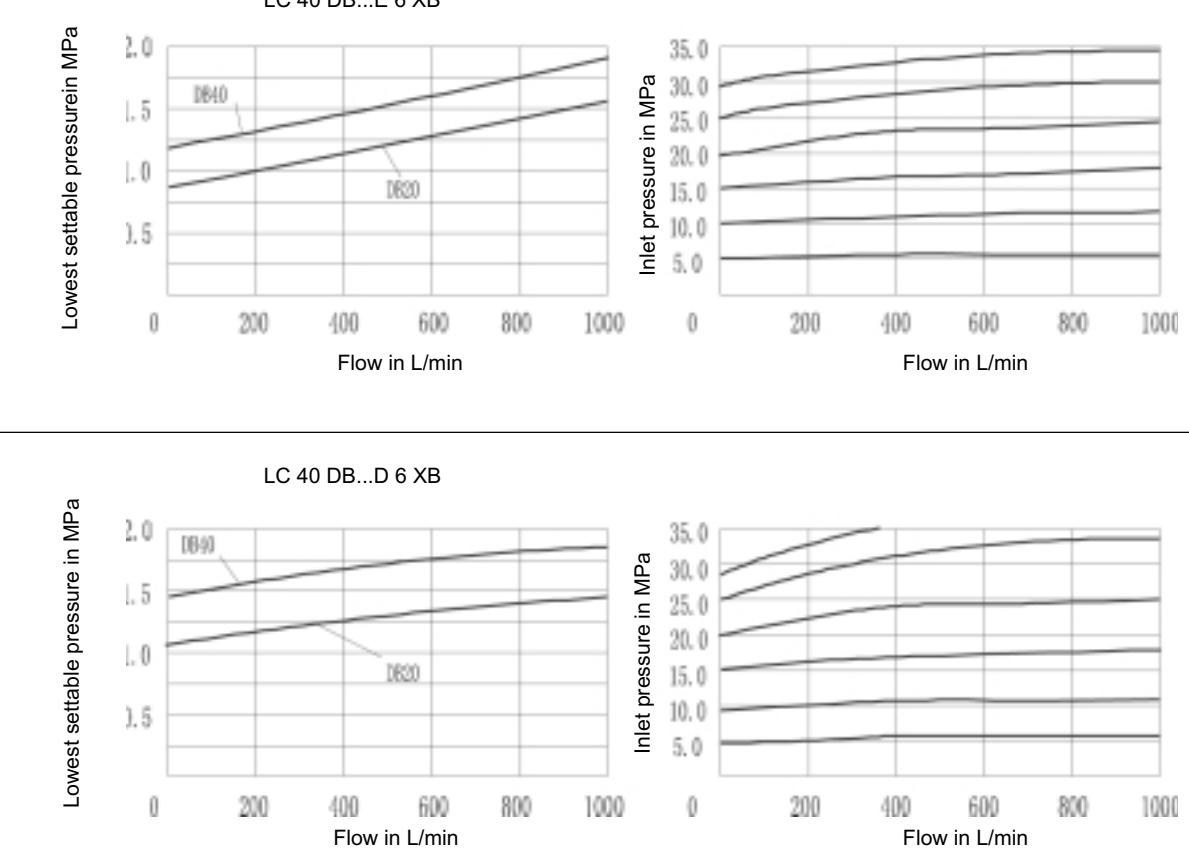
Characteristic curves: (measured at $v = 41 \text{ mm}^2/\text{s}$ and $t = 50^\circ \text{ C}$)

NS 40 The characteristic curves were measured with an external pilot oil drain at zero pressure. With an internal pilot oil drain the inlet pressure is increased to the pressure being applied at port B.

Manual pressure adjustment, type LFA 40 DB...6XB/...

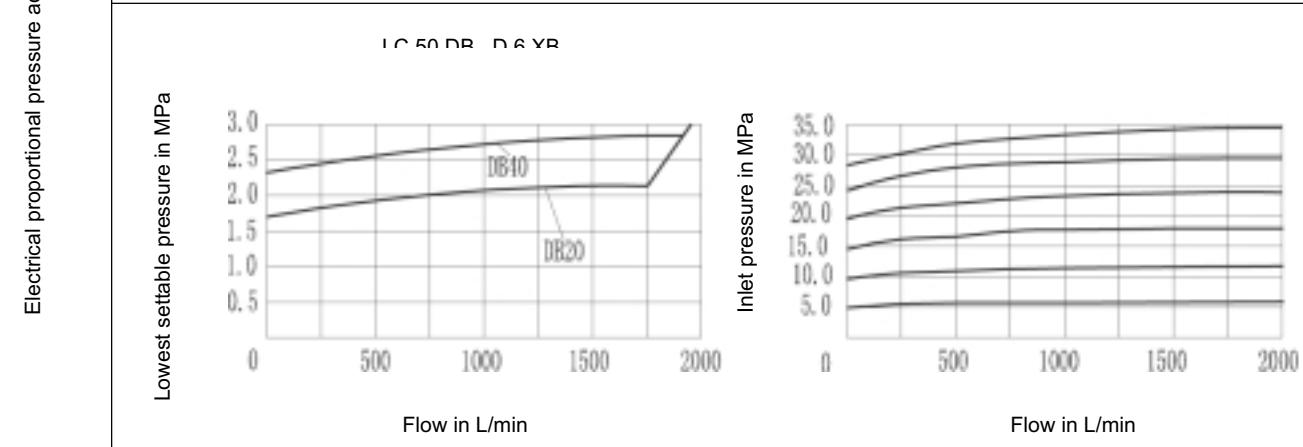
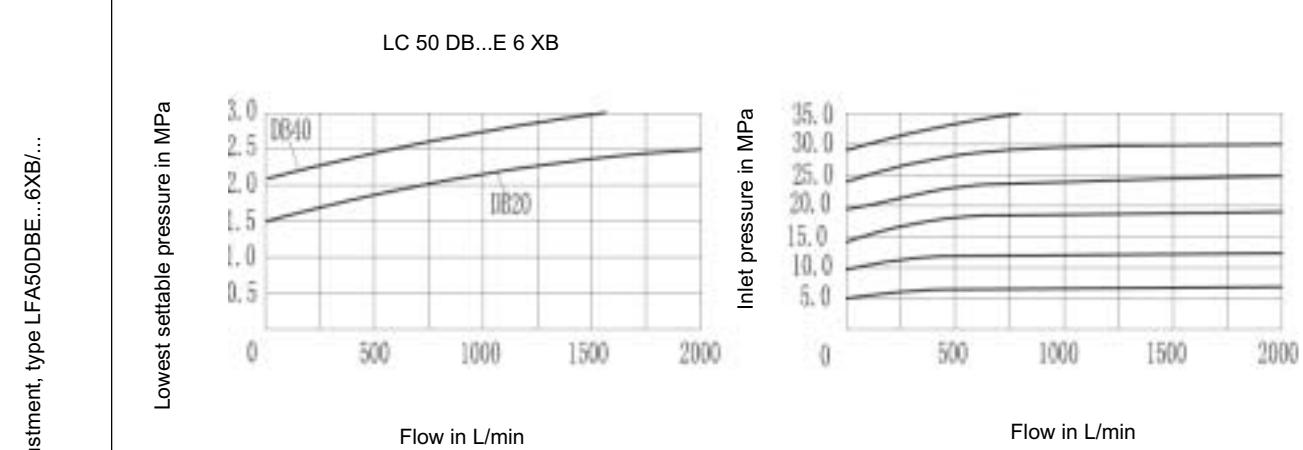
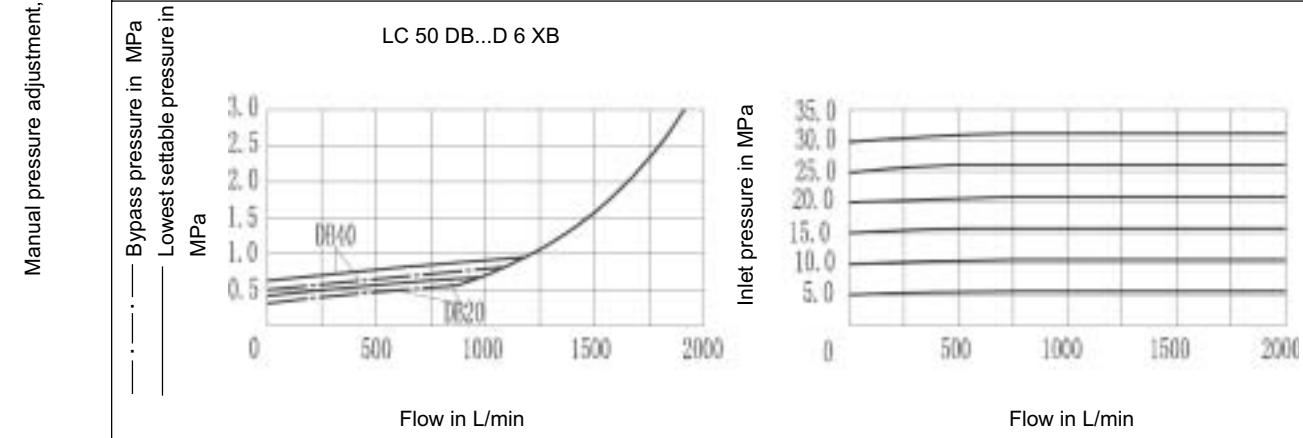
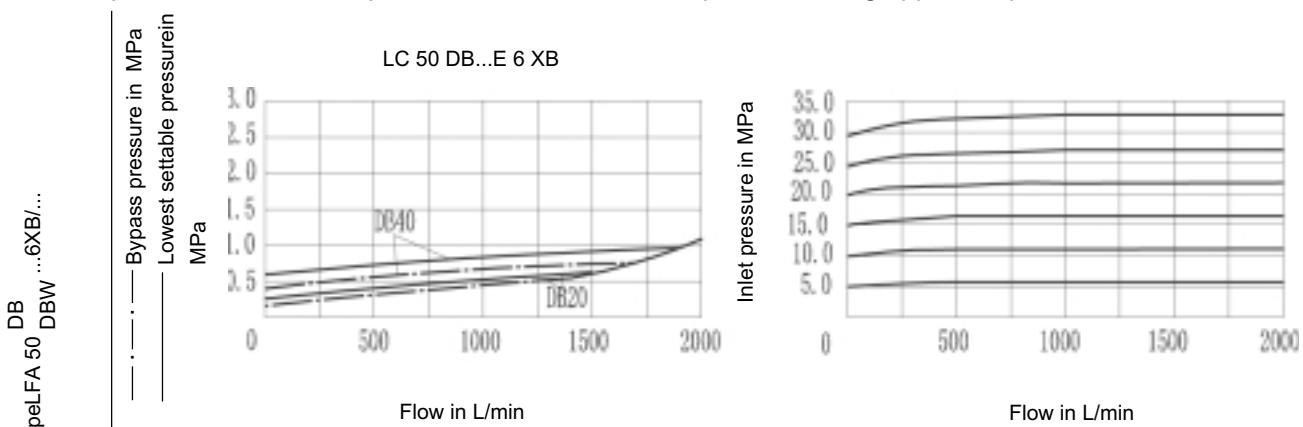


Electrical proportional pressure adjustment, type LFA 40 DBE...6XB/...



Characteristic curves: (measured at $v = 41 \text{ mm}^2/\text{s}$ and $t = 50^\circ \text{ C}$)

NS 50 The characteristic curves were measured with an external pilot oil drain at zero pressure. With an internal pilot oil drain the inlet pressure is increased to the pressure being applied at port B.

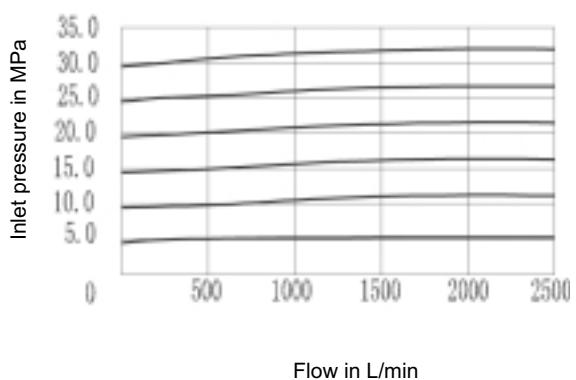
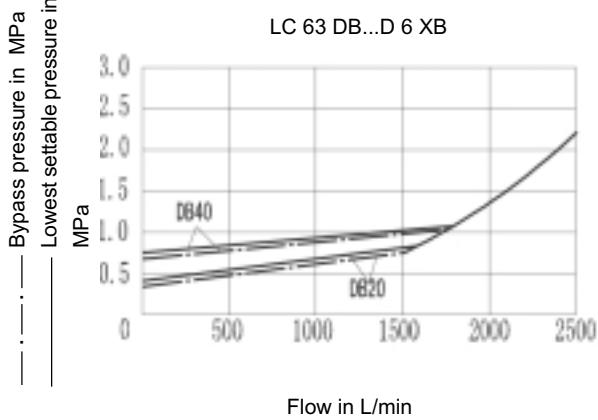
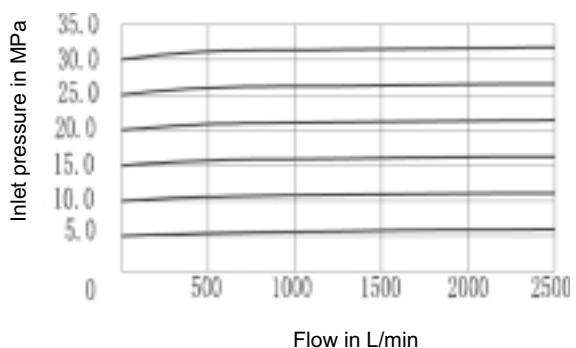
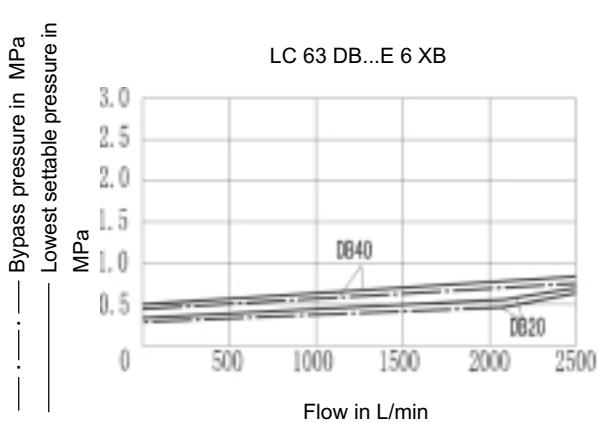


Characteristic curves: (measured at $v = 41\text{mm}^2/\text{s}$ and $t = 50^\circ \text{C}$)

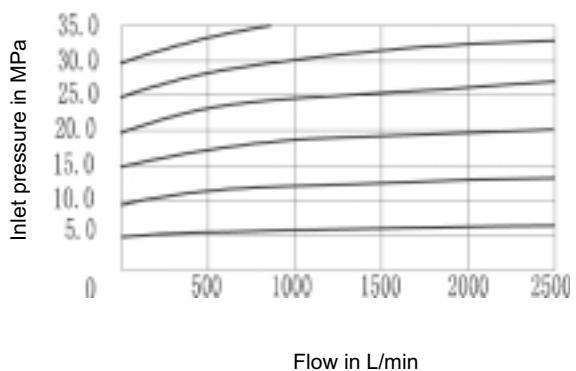
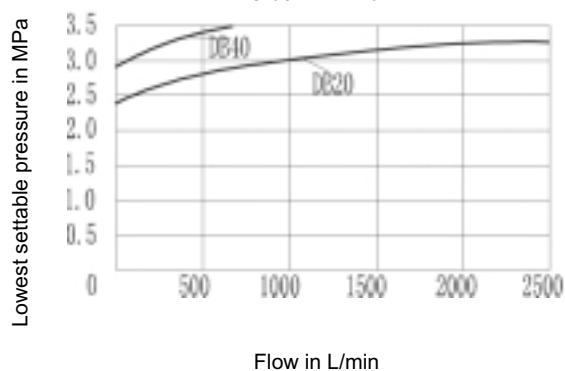
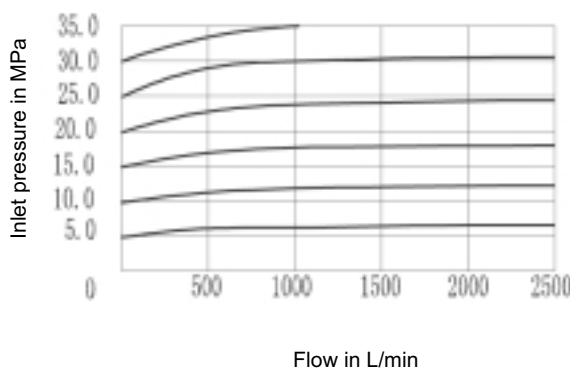
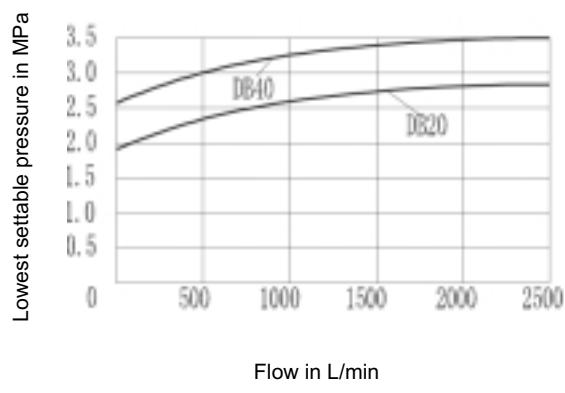
NS 63

The characteristic curves were measured with an external pilot oil drain at zero pressure. With an internal pilot oil drain the inlet pressure is increased to the pressure being applied at port B.

Manual pressure adjustment, type LFA63DBE...6XB/...



Electrical proportional pressure adjustment, type LFA63DBE...6XB/...



O-rings dimensions for ports X, Y (included within the scope of supply)

NS	Dimensions (mm)	Material no.	
		NBR	FPM
16	7.65 × 1.78	004 491	006 585
25	9.25 × 1.78	007 111	009 097
32	10.82 × 1.78	008 937	008 941
40,50	12.37 × 2.62	004 489	008 949
63	18.72 × 2.62	009 245	002 045
80	26.58 × 3.53	004 490	008 944
100	34.52 × 3.53	009 354	009 191

Seal kits for control cover type LFA..

Seal kits for cartridge valves typeLC...DB.. / (NS 16 to 100)

Seal kit for	Material no.		Seal kit for	Ordering code	
	NBR	FPM		NBR	FPM
LC16DB..6XB/..	314352	314353	LC50DB..6XB/..	314056	314065
LC25DB..6XB/..	314354	314355	LC63DB..6XB/..	314057	314066
LC32DB..6XB/..	314356	314357	LC80DB..6XB/..	314058	314067
LC40DB..6XB/..	314055	314064	LC100DB..6XB/..	314059	314068

Seal kits for control cover typeLF... (NS 16 to 100)

Seal kit for	Ordering no.							
	16		25		32		40	
	NBR	FPM	NBR	FPM	NBR	FPM	NBR	FPM
..DB..;..DBW..;..DBS.. ..DBWD..;DBWEM(TR)..	313955	313956	313957	313958	313802	313803	313722	313723
..DB..U2..;..DBU3..	313709	313710	313711	313712	313713	313714	313715	313716
DBE(TR)	313701	313702	313703	313704	313705	313706	313707	313708

Seal kit for	Ordering no.							
	50		63		80		100	
	NBR	FPM	NBR	FPM	NBR	FPM	NBR	FPM
..DB..;..DBW..;..DBS.. ..DBWD..;DBWEM(TR)..	313724	313725	313726	313727	310533			
..DB..U2..;..DBU3..	313717	313718	313719	313720				
DBE(TR)	313897	313898	313899	313700				
DBEM(TR)	313893	313894	313895	313896	311930			

Fixing screws (included within the scope of supply)

NS	Qty	Dimensions	Tightening torque in Nm	NS	Qty	Dimensions	Tightening torque in Nm	NS	Qty	Dimensions	Tightening torque in Nm
16	4	M8 × 45	32	40	4	M20 × 70	520	80	8	M24 × 120	900
25	4	M12 × 50	110	50	4	M30 × 80	520	100	8	M30 × 120	1800
32	4	M16 × 60	270	63	4	M30 × 100	1800				

Orifice thread size

D-orifices for type ..DBE.. NS 25 to 63 M8 x 1 tapered
 Orifices for NS 80, 100 M8 x 1 tapered or G 1/4"
 Other built-in orifices M6 tapered

Compression springs Note

Nominal size and Material no. of Compression springs,
 see sheet Page 73

Control cover with manual pressure adjustment

NS 16 to 100

1	2	3	4	5	6	9	10	
LFA		DB	+	6X	B	/	*	

Nominal size 16	= 16
Nominal size 25	= 25
Nominal size 32	= 32
Nominal size 40	= 40
Nominal size 50	= 50
Nominal size 63	= 63
Nominal size 80	= 80
Nominal size 100	= 100

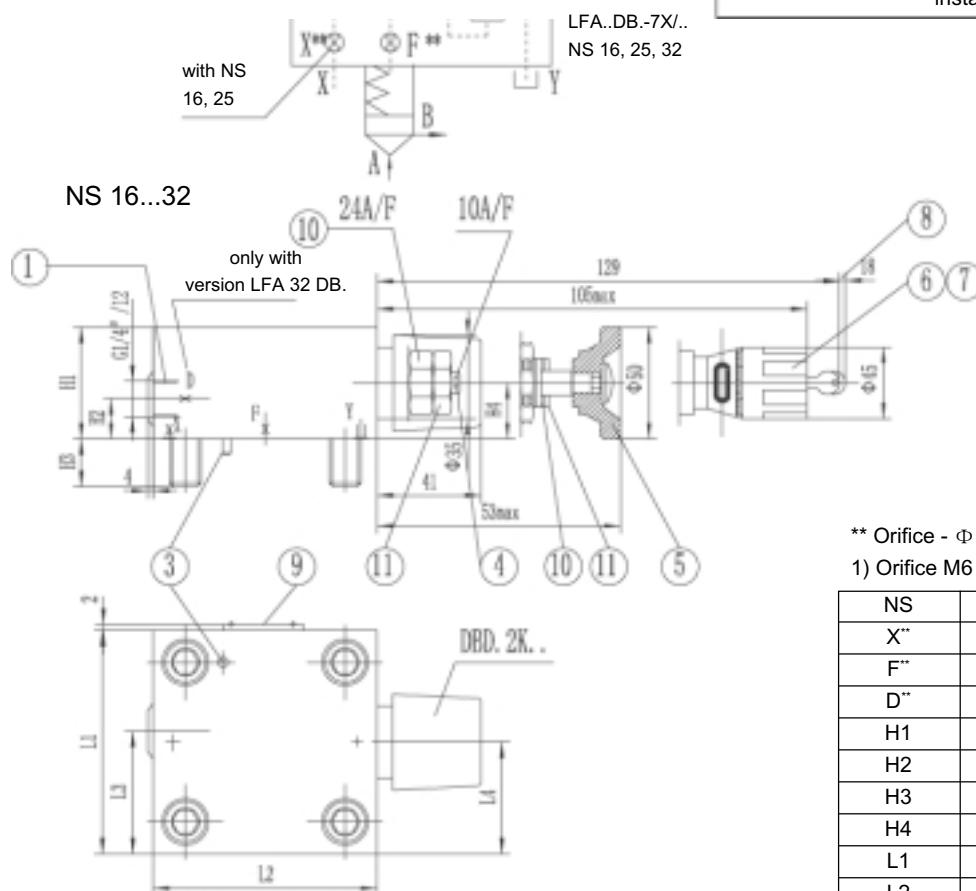
Further details in clear text

No code = Mineral oils
V = Phosphate ester

Adjuster type

Rotary knob	= 1
Hexagon with protective cap	= 2
Lockable rotary knob with scale (H-lock to automotive industry standards)	= 3
Rotary knot with scale not lockable	= 4

with NS 32



6X= Series 60 to 69 (60 to 69: unchanged installation and connection dimensions)

- 1 Port X optionally as threaded port
- 3 Locating pin
- 4 Adjuster type "2"
- 5 Adjuster type "1"
- 6 Adjuster type "3"
- 7 Adjuster type "4"
- 8 Space require to remove the key
- 9 Nameplate
- 10 Lock nut
- 11 Setting nut for max. pressure

** Orifice - Φ

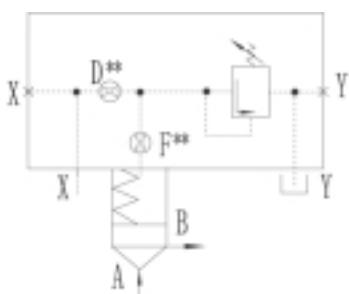
1) Orifice M6 tapered

NS	16	25	32
X''	0.8	0.8	-
F''	1.0	1.0	1.2
D''	-	-	0.8
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

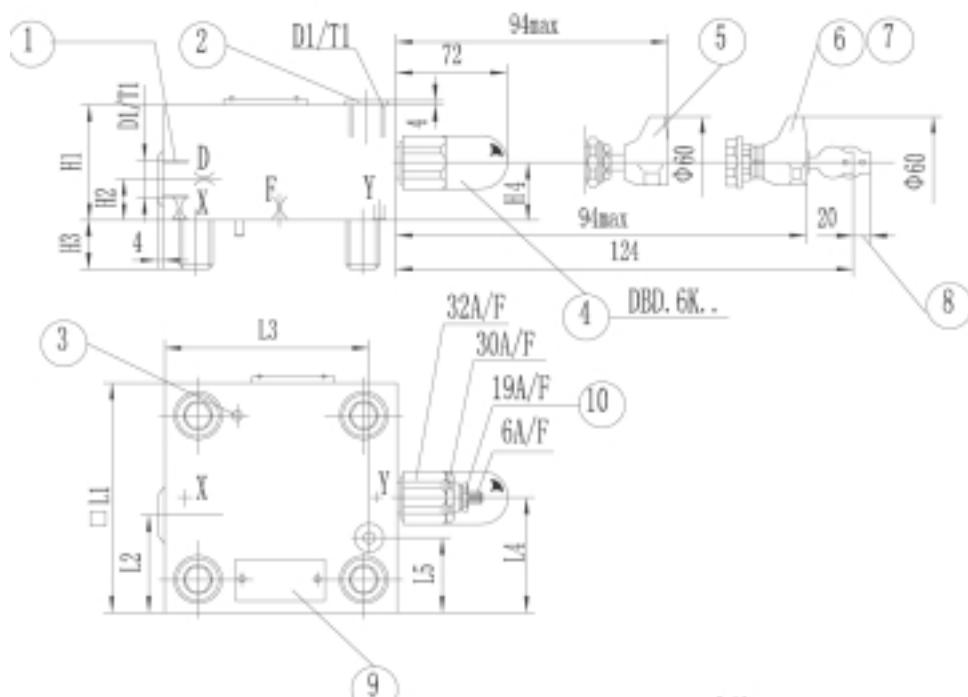
Control cover with manual pressure adjustment

(Dimensions in mm)

LFA..DB.-.../
NS 40, 50, 63



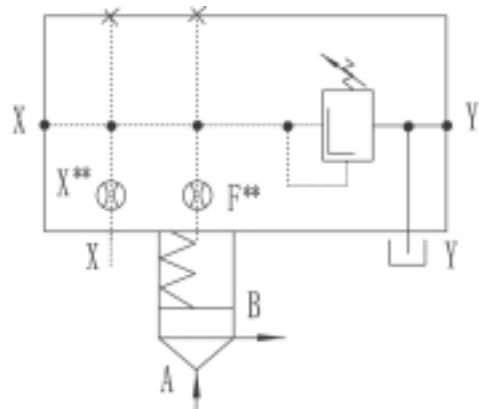
NS 40, 50



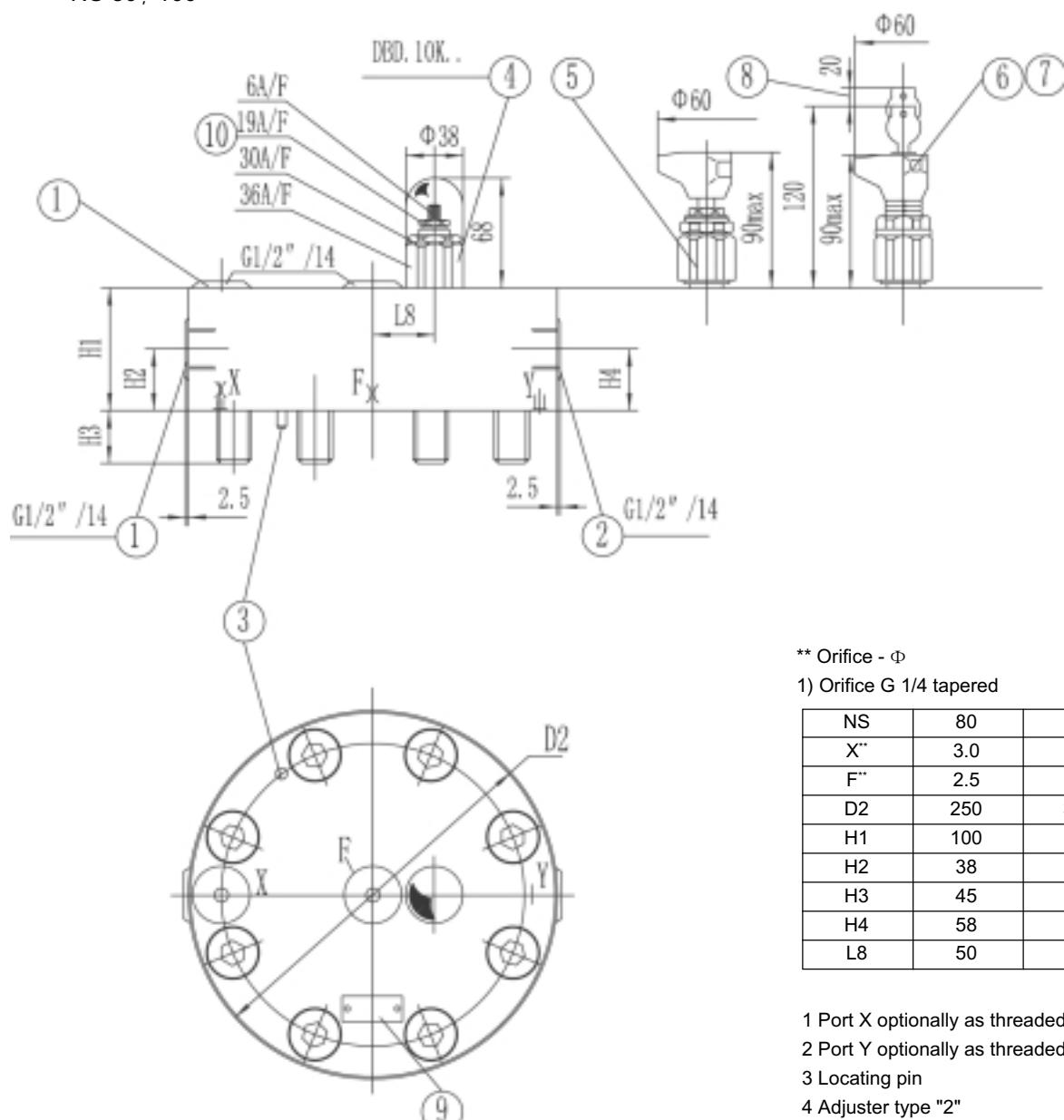
Control cover with manual pressure adjustment

(Dimensions in mm)

LFA..DB.-.../
NS 80, 100



NS 80, 100



** Orifice - Ø

1) Orifice G 1/4 tapered

NS	80	100
X''	3.0	3.0
F''	2.5	2.5
D2	250	300
H1	100	100
H2	38	38
H3	45	51
H4	58	58
L8	50	50

1 Port X optionally as threaded port

2 Port Y optionally as threaded port

3 Locating pin

4 Adjuster type "2"

5 Adjuster type "1"

6 Adjuster type "3"

7 Adjuster type "4"

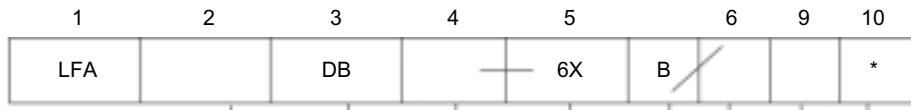
8 Space required to remove key

9 Nameplate

10 Lock nut

Control cover with manual pressure adjustment, for electrical unloading

NS 16 to 100



NS 16 =16 NS 50 =50
 NS 25 =25 NS 63 =63
 NS 32 =32 NS 80 =80
 NS 40 =40 NS 100 =100

Further details in clear text

No code = Mineral oils
 V = Phosphate ester

Control cover type

For mounting a directional spool

or directional poppet valve (NS 16, 25, 32) =DBW

For mounting a directional poppet valve

(for NS 40, 50, 63, 80, 100) =DBS

Adjuster type

Rotary knot = 1

Hexagon with protective cap = 2

Lockable rotary knob with scale = 3

(H-lock to automotive industry standards) = 4

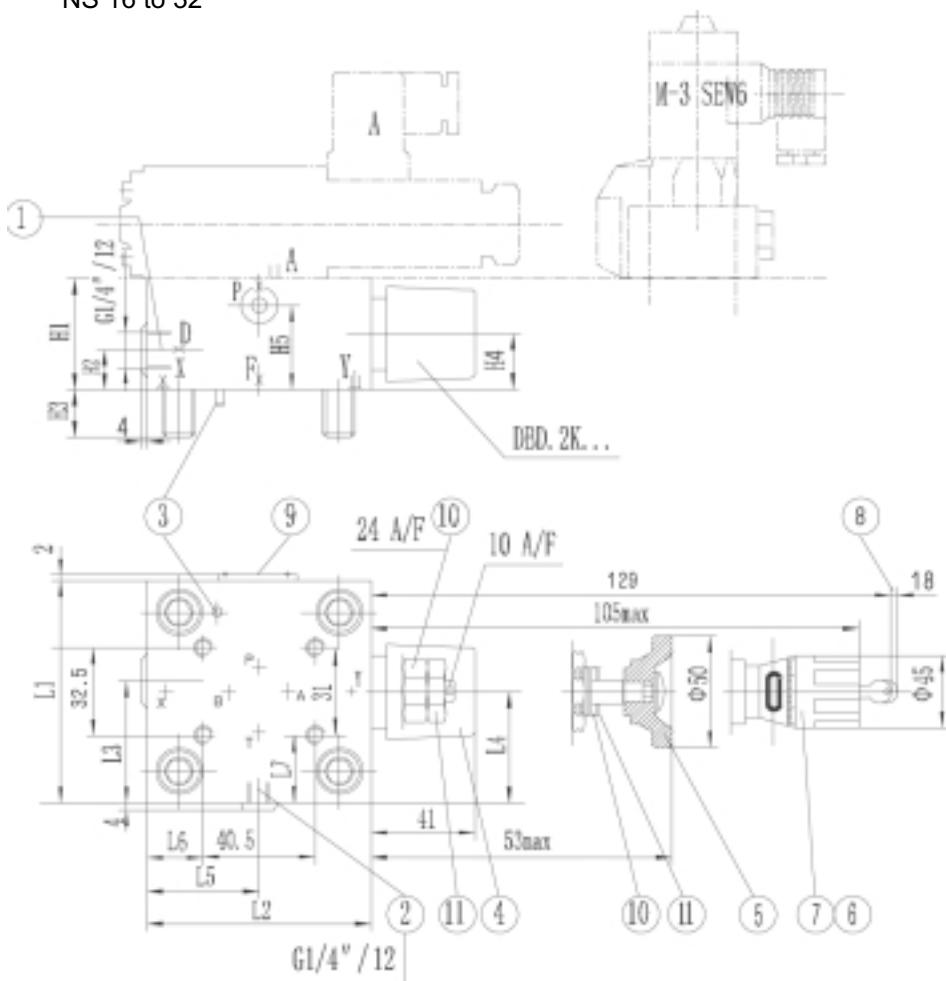
Pressure ratings
 (take max. perm. pressure of pilot valve into account)
 size 16, 25, 32 | size 40, 50, 63, 80, 100

050=5.0MPa	025=2.5MPa
100=10.0MPa	050=5.0MPa
200=20.0MPa	100=10.0MPa
315=31.5MPa	200=20.0MPa
420=42.0MPa	315=31.5MPa
	400=40.0MPa

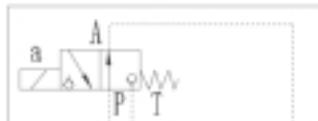
B = Technology of Beijing Huade Hydraulic

6X = Series 60 to 69(60 to 69 unchanged installation and connection dimensions)

NS 16 to 32



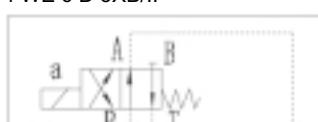
M-3 SEW 6 U 2XB/..



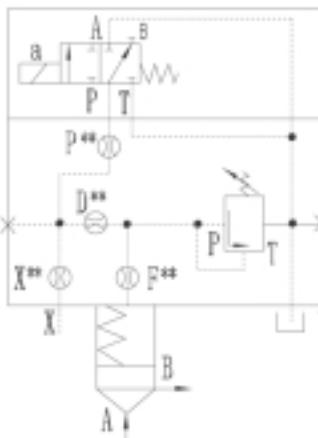
M-3 SEW 6 C 2XB/..



4 WE 6 D 5XB/..



3 WE 6 B9-5XB/..



LFA..DBW.-.../..

size 16, 25, 32

Parts and dimensions see page 48

Control cover with manual pressure adjustment, for electrical unloading **(Dimensions in mm)**

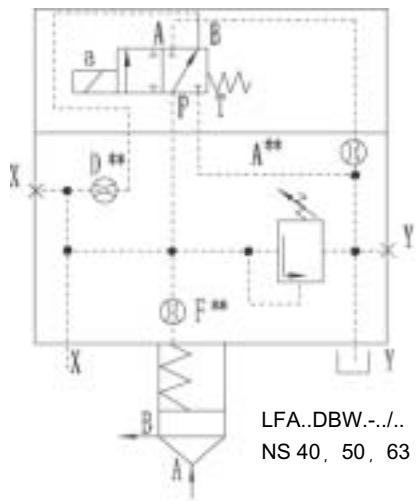
- | | | |
|--------------------------------------|---------------------|----------------------------------|
| 1 Port X optionally as threaded port | 4 Adjuster type "2" | 8 Space required to remove key |
| 2 Port Y optionally as threaded port | 5 Adjuster type "1" | 9 Nameplate |
| 3 Locating pin | 6 Adjuster type "3" | 10 Lock nut |
| | 7 Adjuster type "4" | 11 Setting nut for max. pressure |

** Orifice- ϕ

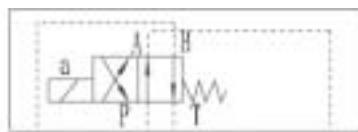
NS	X''	F''	D''	P''	H1	H2	H3	H4	H5	L1	L2	L3	L4	L5	L6	L7
16	0.8	1.0	0.8	1.0	40	17	15	19	28	65	80	36.5	32.5	35	7	17
25	0.8	1.0	0.8	1.0	40	19	24	19	28	85	85	49	45.5	36	8	27
32	0.8	1.2	1.0	1.0	50	26	28	26	37	100	100	56.5	53	57	30	34.5

NS 40, 50, 63

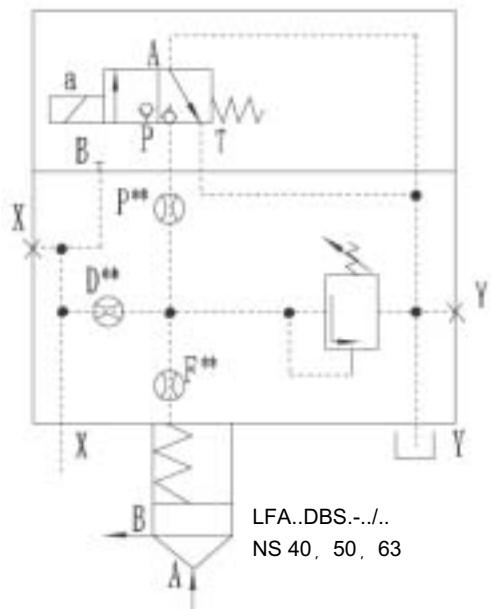
3 WE 6 B9-5XB/..



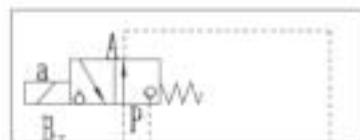
4WE 6 D5XB/..



M-3 SEW 6 C 2XB/..



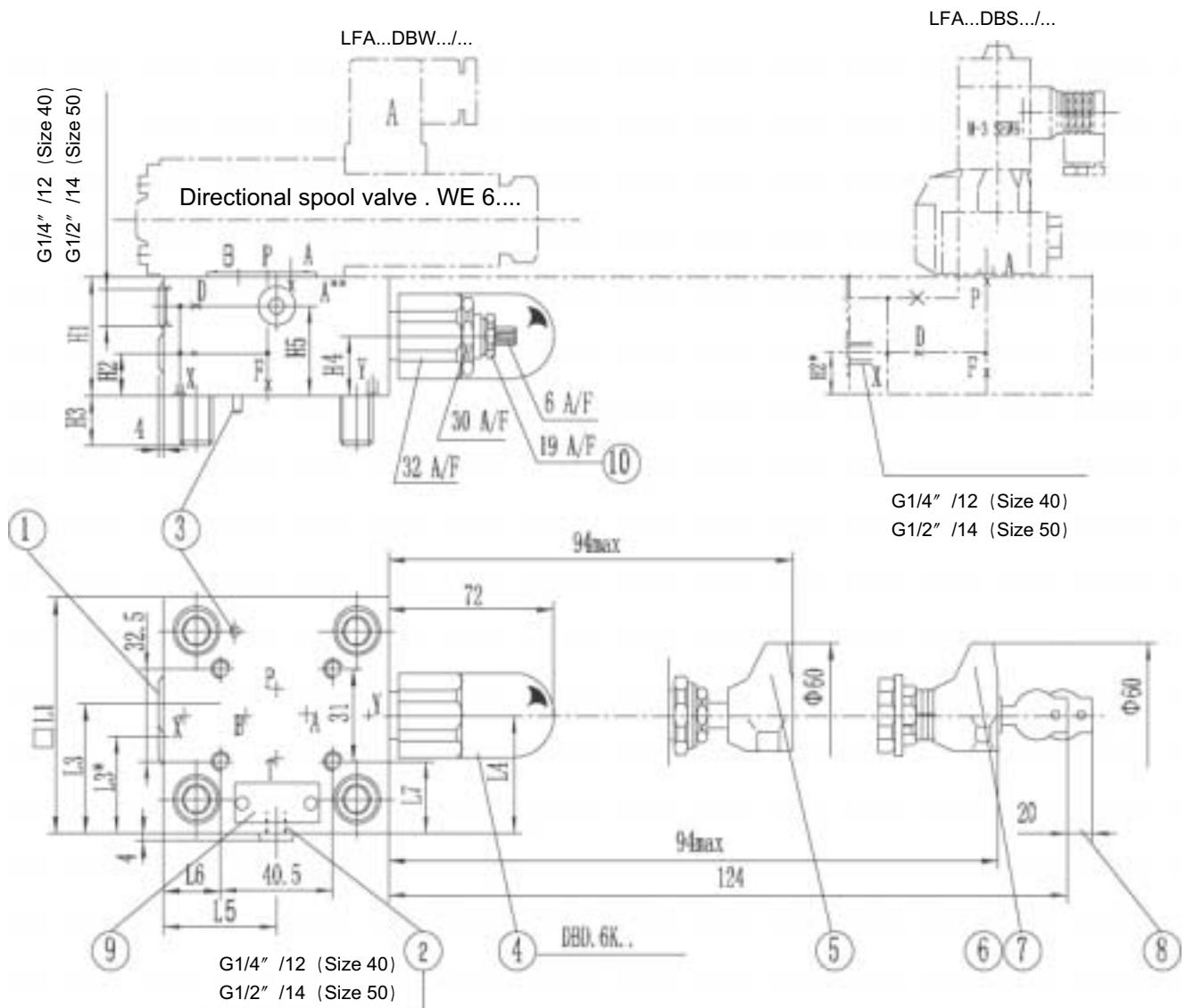
M-3 SEW 6 U 2XB/..



Control cover with manual pressure adjustment, for electrical unloading

(Dimensions in mm)

NS 40, 50



- | | |
|--------------------------------------|--------------------------------|
| 1 Port X optionally as threaded port | 6 Adjuster type "3" |
| 2 Port Y optionally as threaded port | 7 Adjuster type "4" |
| 3 Locating pin | 8 Space required to remove key |
| 4 Adjuster type "2" | 9 Nameplate |
| 5 Adjuster type "1" | 10 Lock nut |

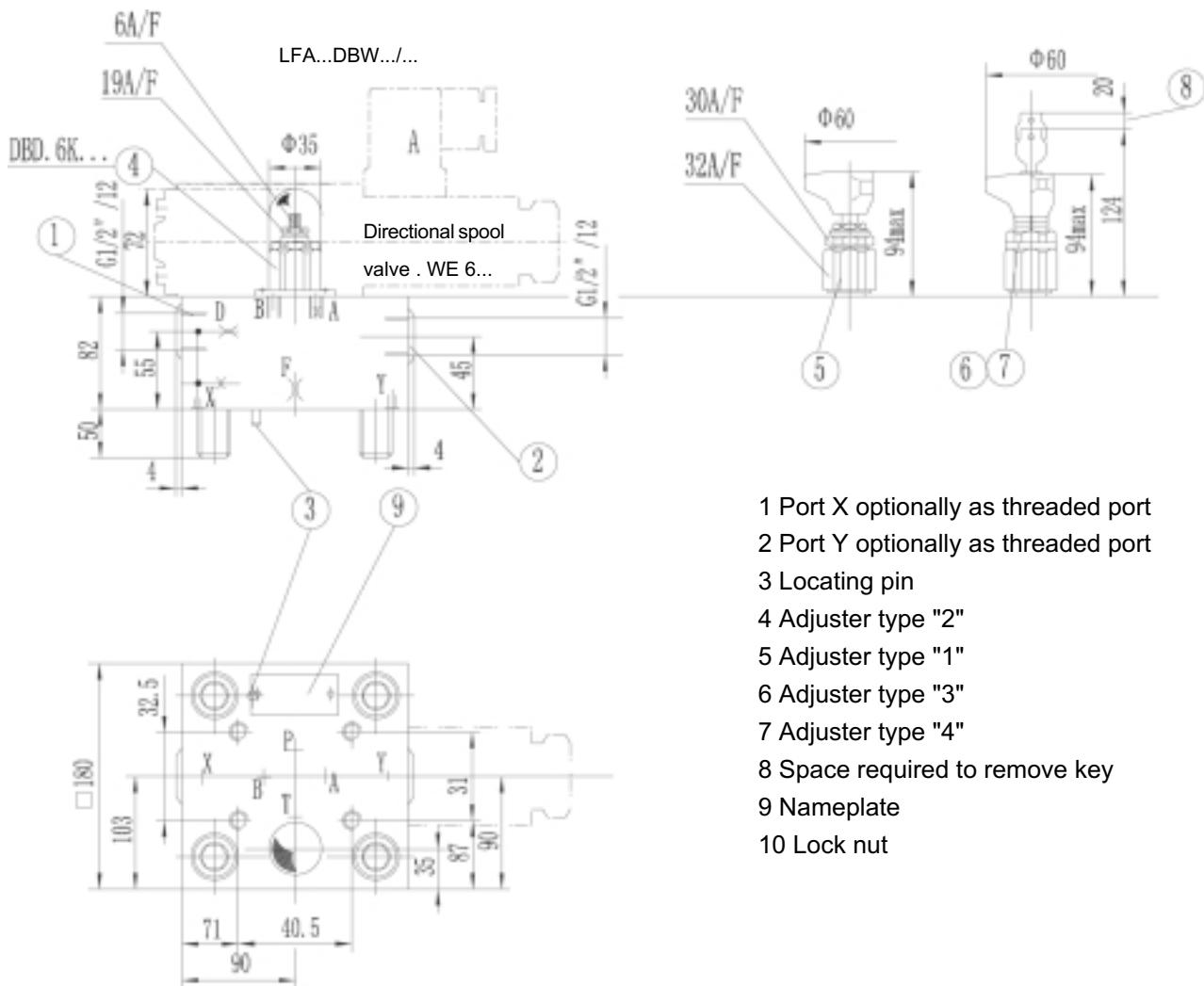
*LFA...DBS control cover dimensions ** Orifice-Ø

NS	X [*]	F [*]	D [*]	P [*]	H1	H2	H2 [*]	H3	H4	H5	L1	L2	L3	L4	L5	L6	L7
40	0.8	1.2	1.0	1.2	60	46	17	32	27	40	125	62.5	69	76	68	43.5	47
50	0.8	1.2	1.2	1.5	68	51	19.5	34	35	50	140	67.5	80	84	74.5	51	54.5

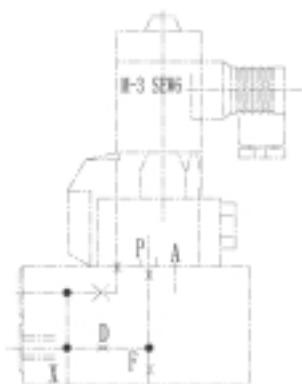
Control cover with manual pressure adjustment, for electrical unloading

(Dimensions in mm)

NS 63



- 1 Port X optionally as threaded port
- 2 Port Y optionally as threaded port
- 3 Locating pin
- 4 Adjuster type "2"
- 5 Adjuster type "1"
- 6 Adjuster type "3"
- 7 Adjuster type "4"
- 8 Space required to remove key
- 9 Nameplate
- 10 Lock nut



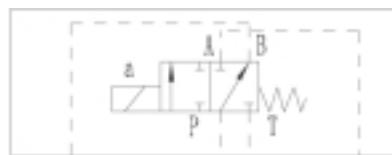
** Orifice- ϕ

NS	A ^{**}	F ^{**}	D ^{**}	P ^{**}
63	1.0	1.5	1.5	1.8

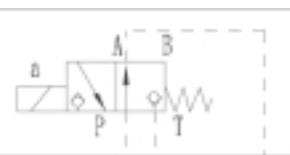
Control cover with manual pressure adjustment, for electrical unloading
(Dimensions in mm)

NS 80,100

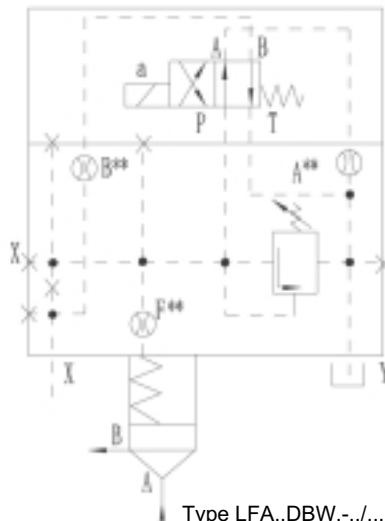
3 WE 10 B9...



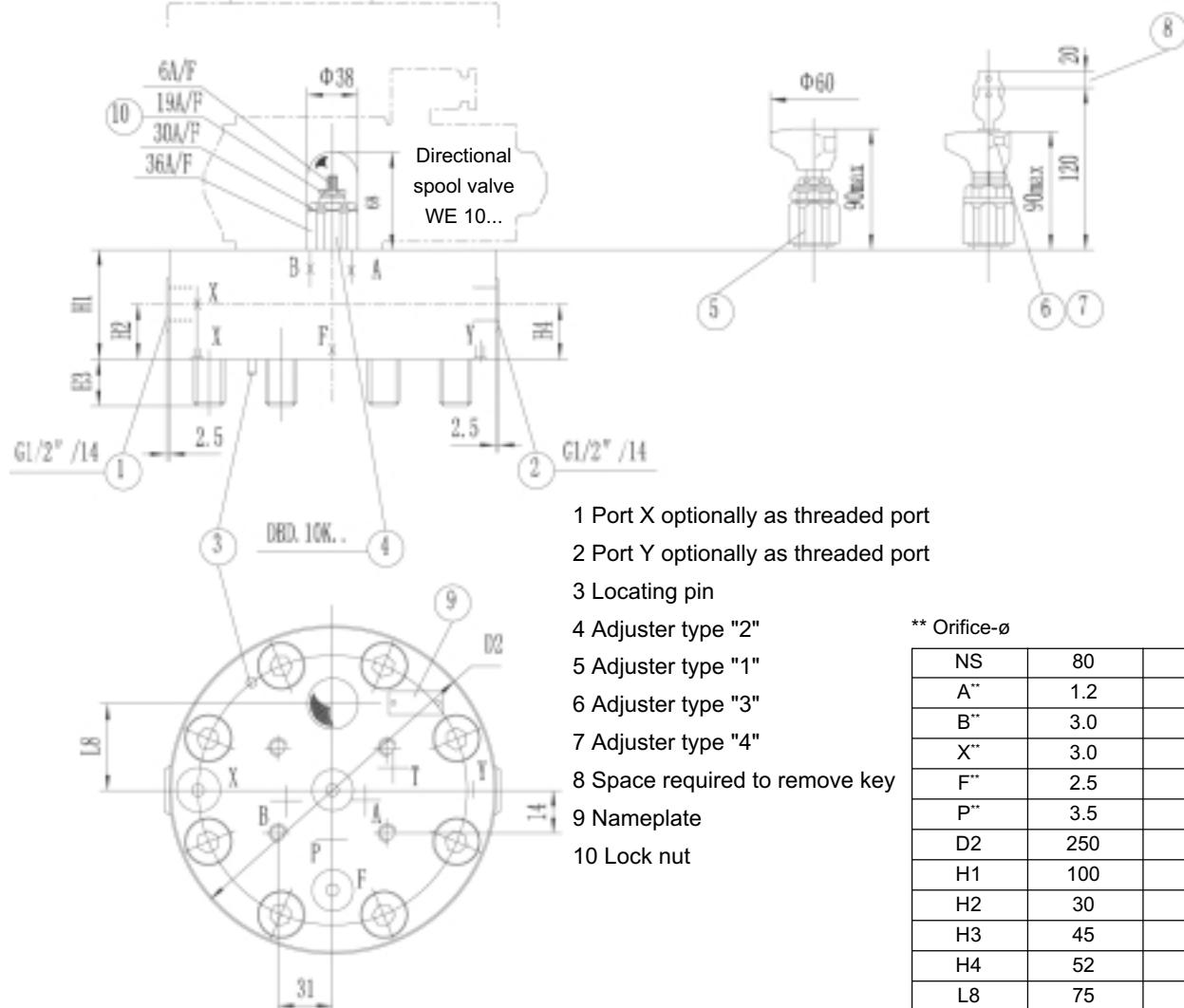
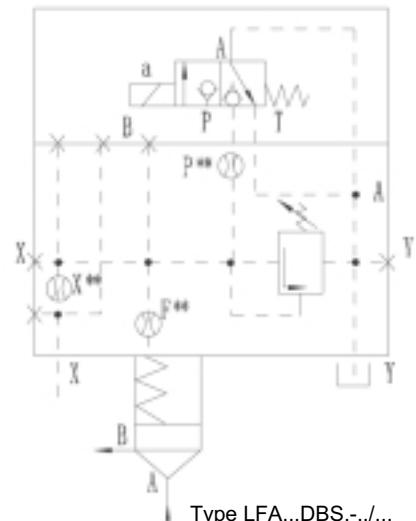
M-3SE 10 U2XB/...



4 WE 10 D...

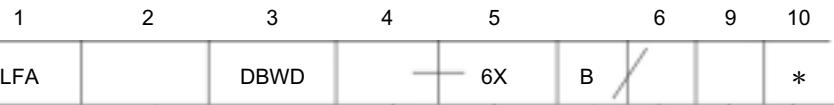


M-3SE 10 C2XB/...



Control cover with manual pressure adjustment, for isolation functions (Dimensions in mm)

NS 16 to 100



Further details in clear text

NS 16 =16 NS 50 =50
 NS 25 =25 NS 63 =63
 NS 32 =32 NS 80 =80
 NS 40 =40 NS 100=100

No code = Mineral oils
 V = Phosphate ester

Adjuster type

Rotary knob	= 1
Hexagon with protective cap	= 2
Lockable rotary knob with scale (H-lock to automotive industry standards)	= 3
Rotary knob with scale not lockable	= 4

Series 60 to 69 = 6X(60 to 69 unchanged installation
and connection dimensions)

Pressure ratings

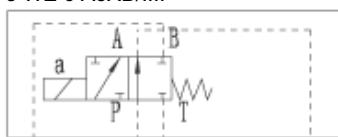
(take max. perm. pressure of pilot valve into account)

NS 16, 25, 32	NS 40, 50, 63, 80, 100
050=5.0MPa	025=2.5MPa
100=10.0MPa	050=5.0MPa
200=20.0MPa	100=10.0MPa
315=31.5MPa	200=20.0MPa
420=42.0MPa	315=31.5MPa
	400=40.0MPa

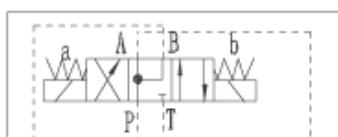
Technology of Beijing Huade Hydraulic

= B

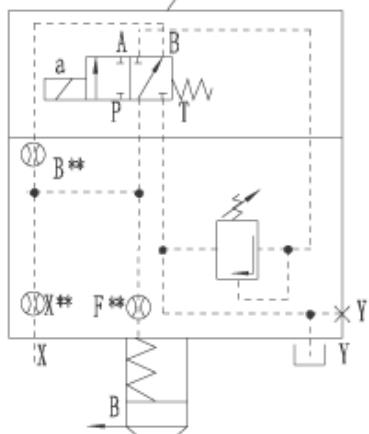
3 WE 6 A5XB/...



4WE 6 M5XB/



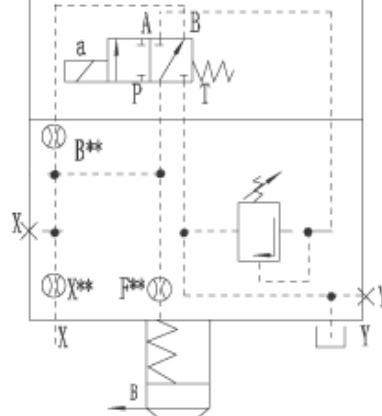
3WE 6 B9-5XB/...



LFA...DBWD.-....

NS 16

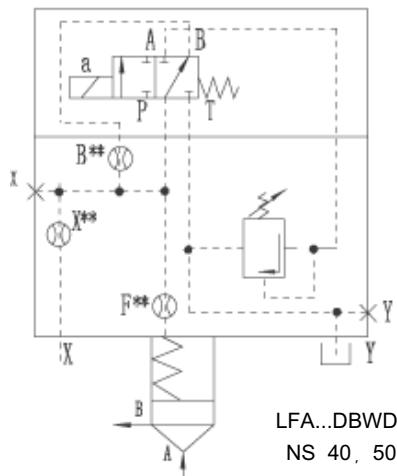
3WE 6 B9-5XB/...



LFA...DBWD.-....

NS 25,32

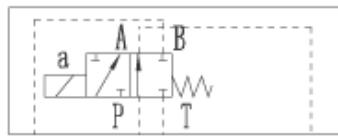
3WE 6 B9-5XB/...



LFA...DBWD.-..../...

NS 40, 50, 63

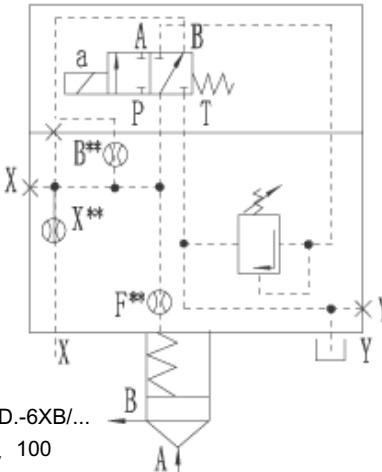
3 WE 10 A...



4 WE 10M....



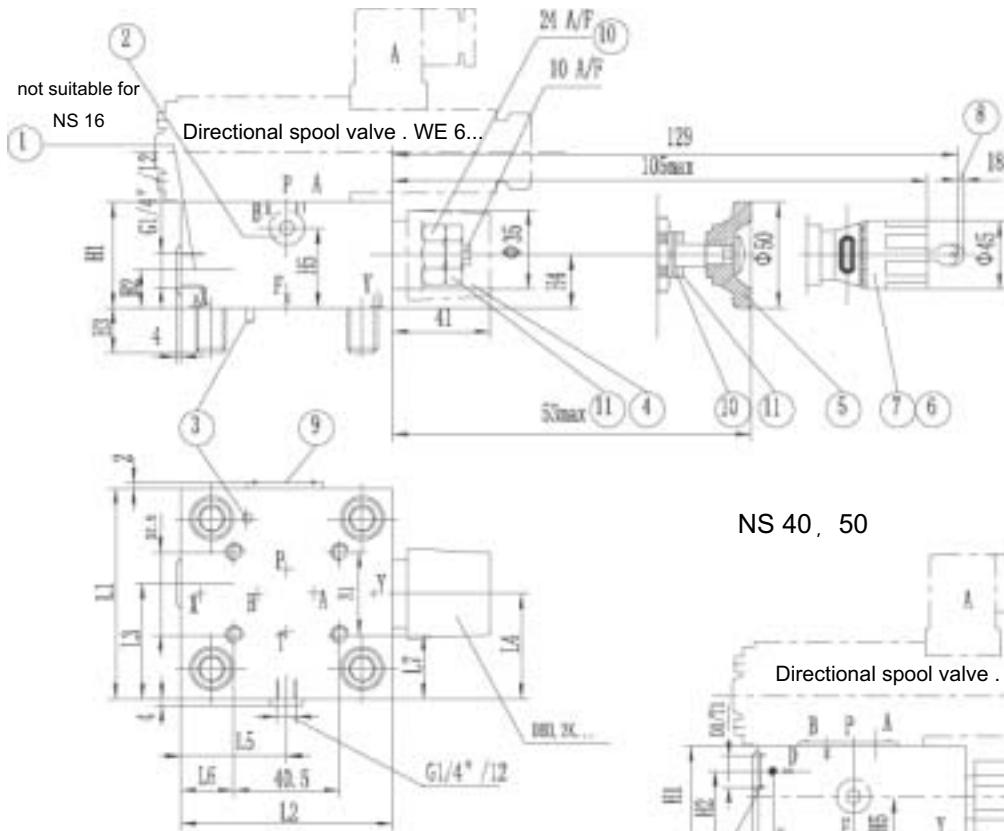
3 WE 10 B9...



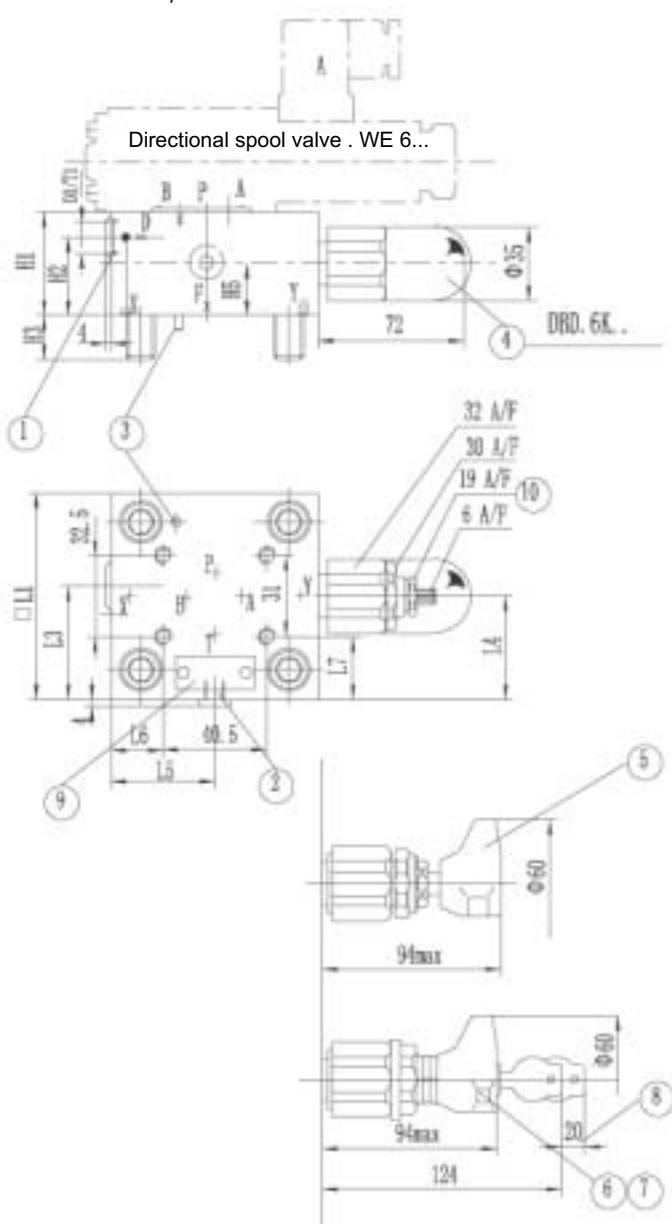
LFA...DBWD..-6XB/...

NS 80, 100

NS 16 to 32



NS 40, 50



1 Port X optionally as threaded port

2 Port Y optionally as threaded port

3 Locating pin

4 Adjuster type "2"

5 Adjuster type "1"

6 Adjuster type "3"

7 Adjuster type "4"

8 Space required to remove key

9 Nameplate

10 Lock nut

11 Setting nut for max. pressure

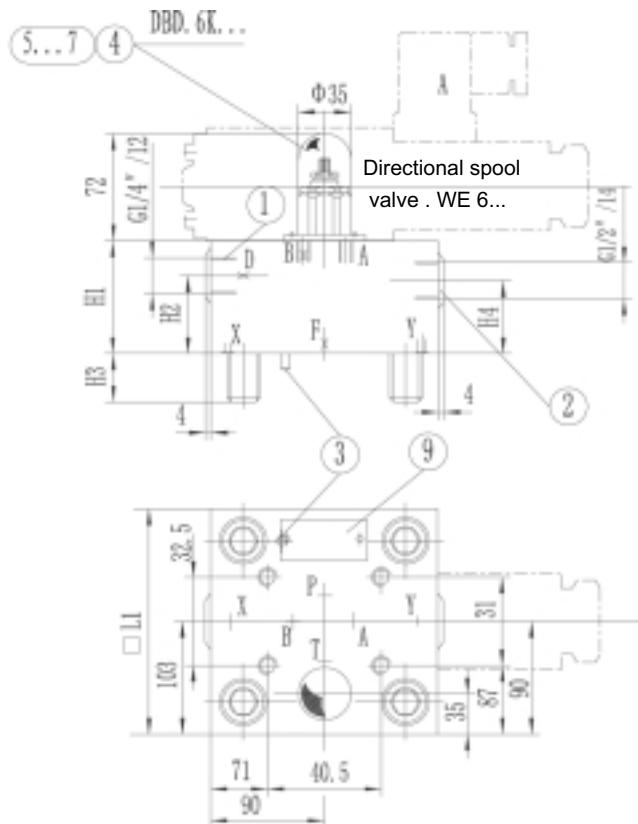
Dimensions see page 54

Control cover with manual pressure adjustment , for isolation functions (Dimensions in mm)

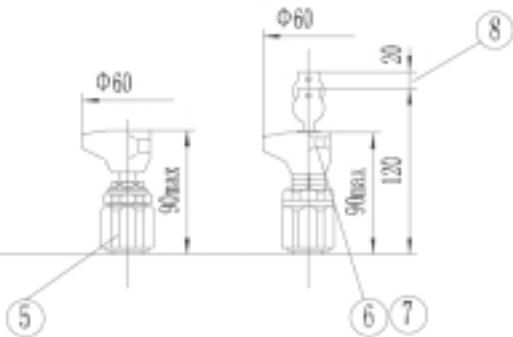
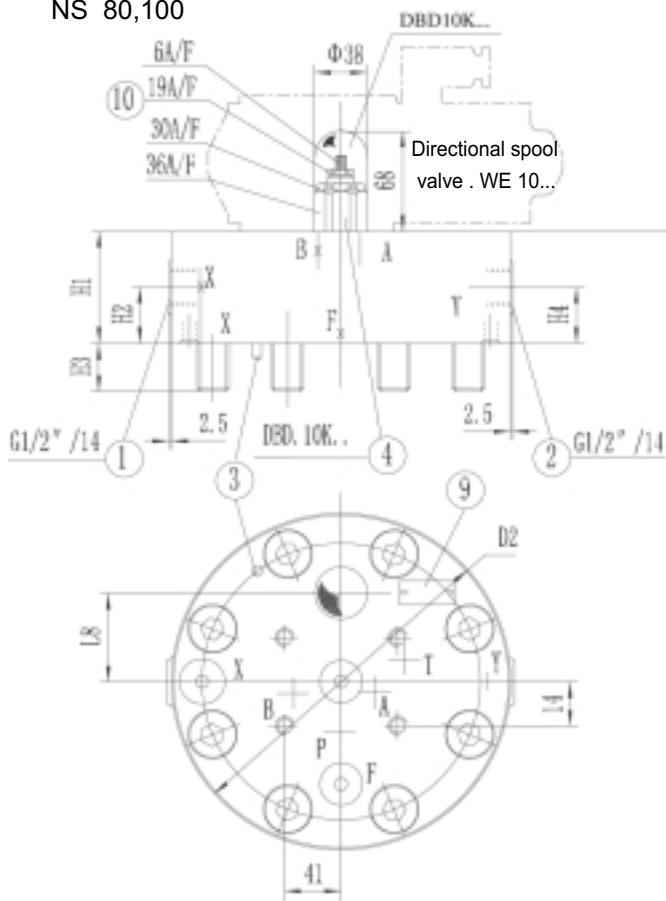
** Orifice- ϕ

NS	16	25	32	40	50	63	80	100
B''	1.0	1.0	1.0	1.2	1.5	1.8	3.5	3.5
X''	0.8	0.8	0.8	-	-	-	3.0	3.0
F''	1.0	1.0	1.2	1.2	1.2	1.5	2.5	2.5
D''	-	-	-	1.0	1.2	1.5	-	-
D1	-	-	-	G1/4"	G1/2"	-	-	-
D2	-	-	-	-	-	-	250	300
H1	40	40	50	60	68	82	100	100
H2	-	19	26	46	50	55	67	67
H3	15	24	28	32	34	50	45	51
H4	19	19	26	27	35	45	58	58
H5	28	28	37	16	20	-	-	-
L1	65	85	100	-	-	-	-	-
L1	-	-	-	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	30	43.5	51	-	-	-
L7	17	27	34.5	47	54.5	-	-	-
L8	-	-	-	-	-	-	75	85
T1	-	-	-	12	14	-	-	-

NS 63



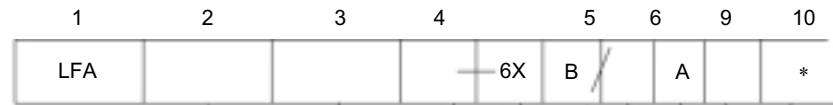
NS 80,100



- 1 Port X optionally as threaded port
- 2 Port Y optionally as threaded port
- 3 Locating pin
- 4 Adjuster type "2"
- 5 Adjuster type "1"
- 6 Adjuster type "3"
- 7 Adjuster type "4"
- 8 Space required to remove key
- 9 Nameplate
- 10 Lock nut

Control cover with 2 manual pressure adjustments, electrically selectable

NS 16 to 100



NS 16 =16 NS 50 =50
 NS 25 =25 NS 63 =63
 NS 32 =32 NS 80 =80
 NS 40 =40 NS 100=100

Control cover type

De-energised - DB1 (4 WE.. D)
 De-energised - open (4 WE.. H)
 De-energised - DB max. (4 WE.. D)
 (see symbols)

} = DBU2A
 = DBU2B

DB_{max} DB1

Further details in clear text

No code = Mineral oils
 V = Phosphate ester

Pressure ratings

(take max. perm. pressure of pilot valve into account)

Size 16, 25, 32 | Size 40, 50, 63, 80, 100

050=5.0MPa	025=2.5MPa
100=10.0MPa	050=5.0MPa
200=20.0MPa	100=10.0MPa
315=31.5MPa	200=20.0MPa
420=42.0MPa	315=31.5MPa

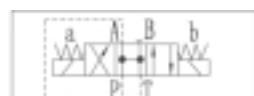
400=40.0MPa

B = Technology of Beijing Huade Hydraulic

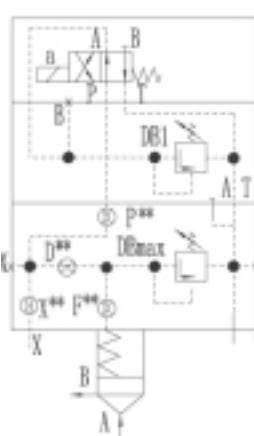
6X = Series 60 to 69 (60 to 69 unchanged installation and connection dimensions)

Adjuster type

Rotary knob	= 1
Hexagon with protective cap	= 2
Lockable rotary knob with scale	= 3
(H-lock to automotive industry standards)	= 4
Rotary knot with scale not lockable	



4 WE 6 H 5XB/....

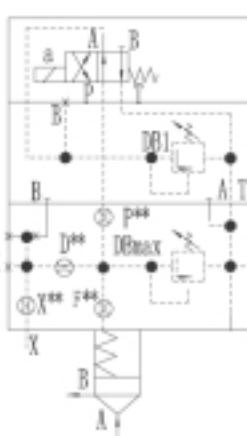


LFA..DBU 2A.-./...

Size 16 to 32



4 WE 6 H 5XB/....

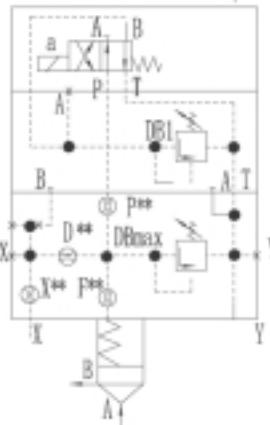


LFA..DBU 2A.-./...

Size 40 to 63

4 WE 6 D 5XB/....

4 WE 6 D 5XB/....



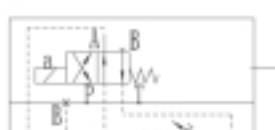
LFA..DBU 2B.-./...

Size 40 to 63



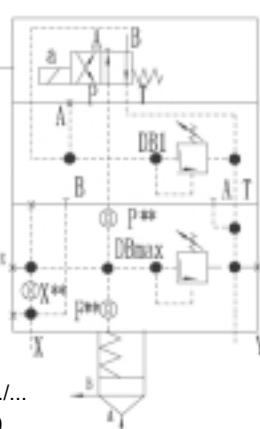
4 WE 10H./....

LFA..DBU 2A.-./...
 Size 80, 100



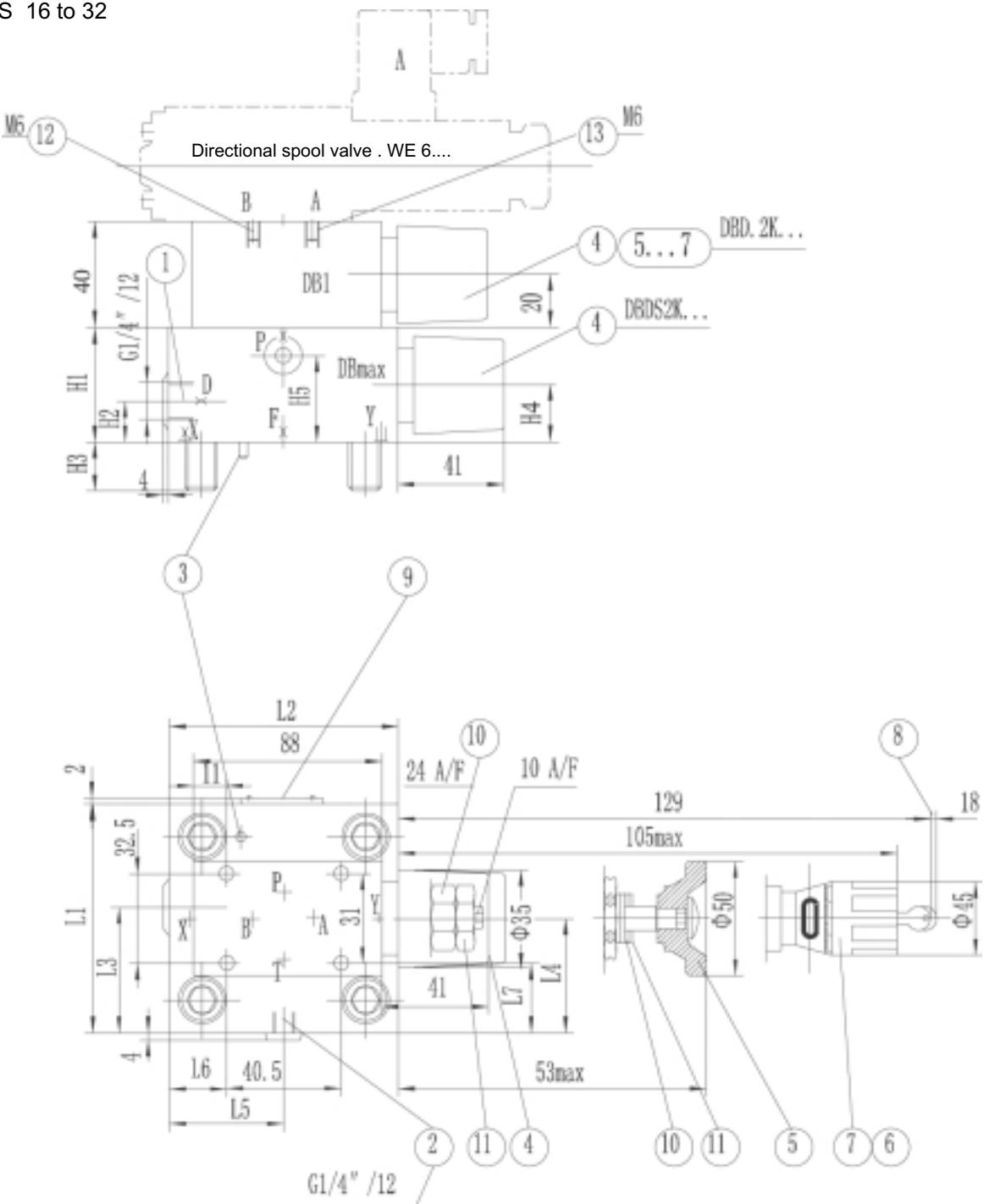
4 WE 10D./....

LFA..DBU 2A.-./...
 Size 80, 100



Control cover with 2 manual pressure adjustment, electrical selectable
(Dimensions in mm)

NS 16 to 32


**** Orifice-φ**

NS	X"	F"	D"	P"	H1	H2	H3	H4	H5	L1	L2	L3	L4	L5	L6	L7
16	0.8	1.0	0.8	1.0	40	17	15	19	28	65	80	36.5	32.5	35	7	17
25	0.8	1.0	0.8	1.0	40	19	24	19	28	85	85	49	45.5	36	8	27
32	0.8	1.2	1.0	1.0	50	26	28	26	37	100	100	56.5	53	57	30	34.5

1 Port X optionally as threaded port

2 Port Y optionally as threaded port

3 Locating pin

4 Adjuster type "2"

5 Adjuster type "1"

6 Adjuster type "3"

7 Adjuster type "4"

8 Space required to remove key

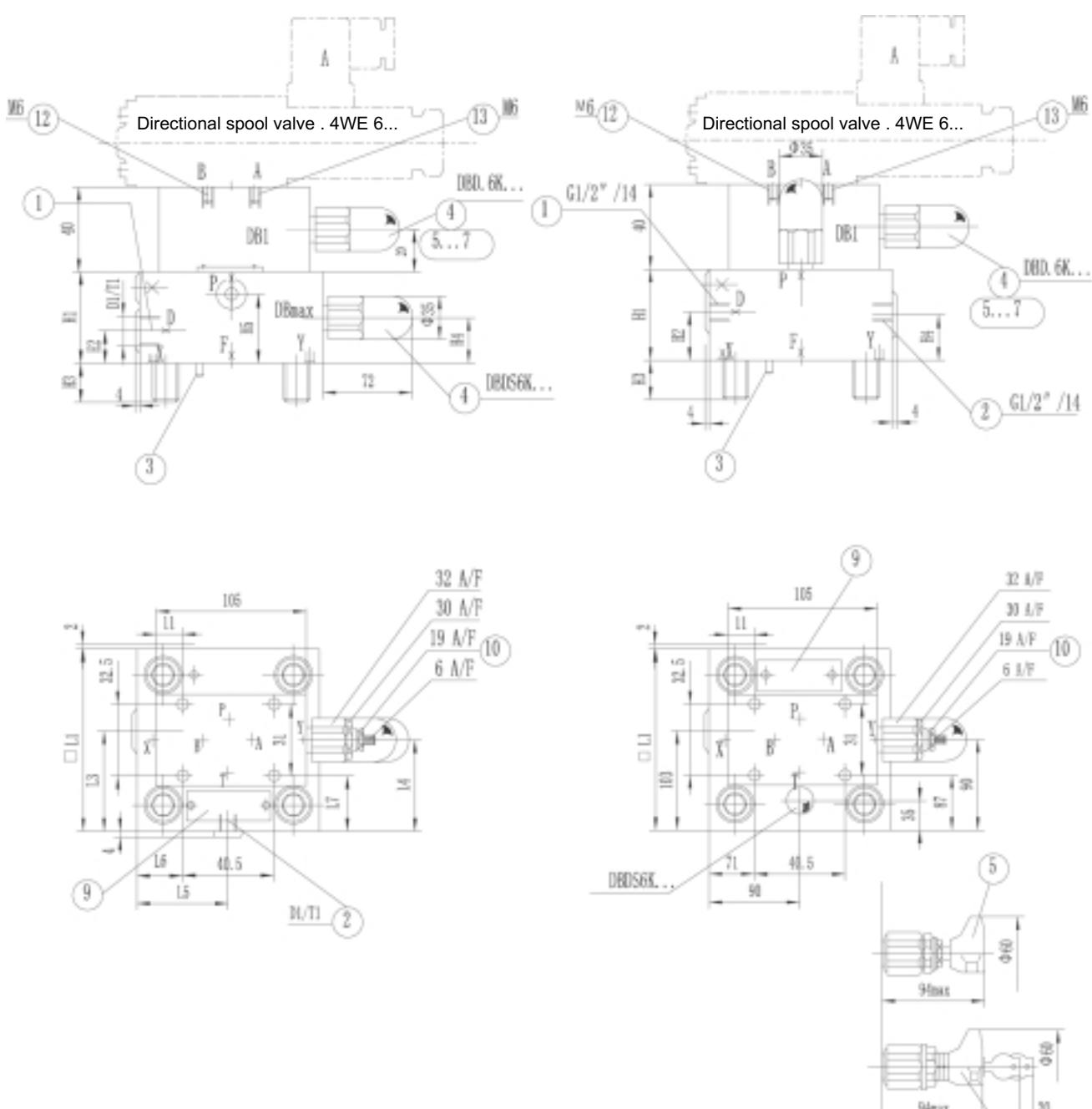
9 Nameplate

10 Lock nut

11 Setting nut for max. pressure

12 Plug M6 tapered for ..DBU 2A..

13 Plug M6 tapered for ..DBU 2B..

Control cover with 2 manual pressure adjustments, electrically selectable
(Dimensions in mm)
NS 40, 50
NS 63


- 1 Port X optionally as threaded port
 2 Port Y optionally as threaded port
 3 Locating pin
 4 Adjuster type "2"
 5 Adjuster type "1"
 6 Adjuster type "3"
 7 Adjuster type "4"

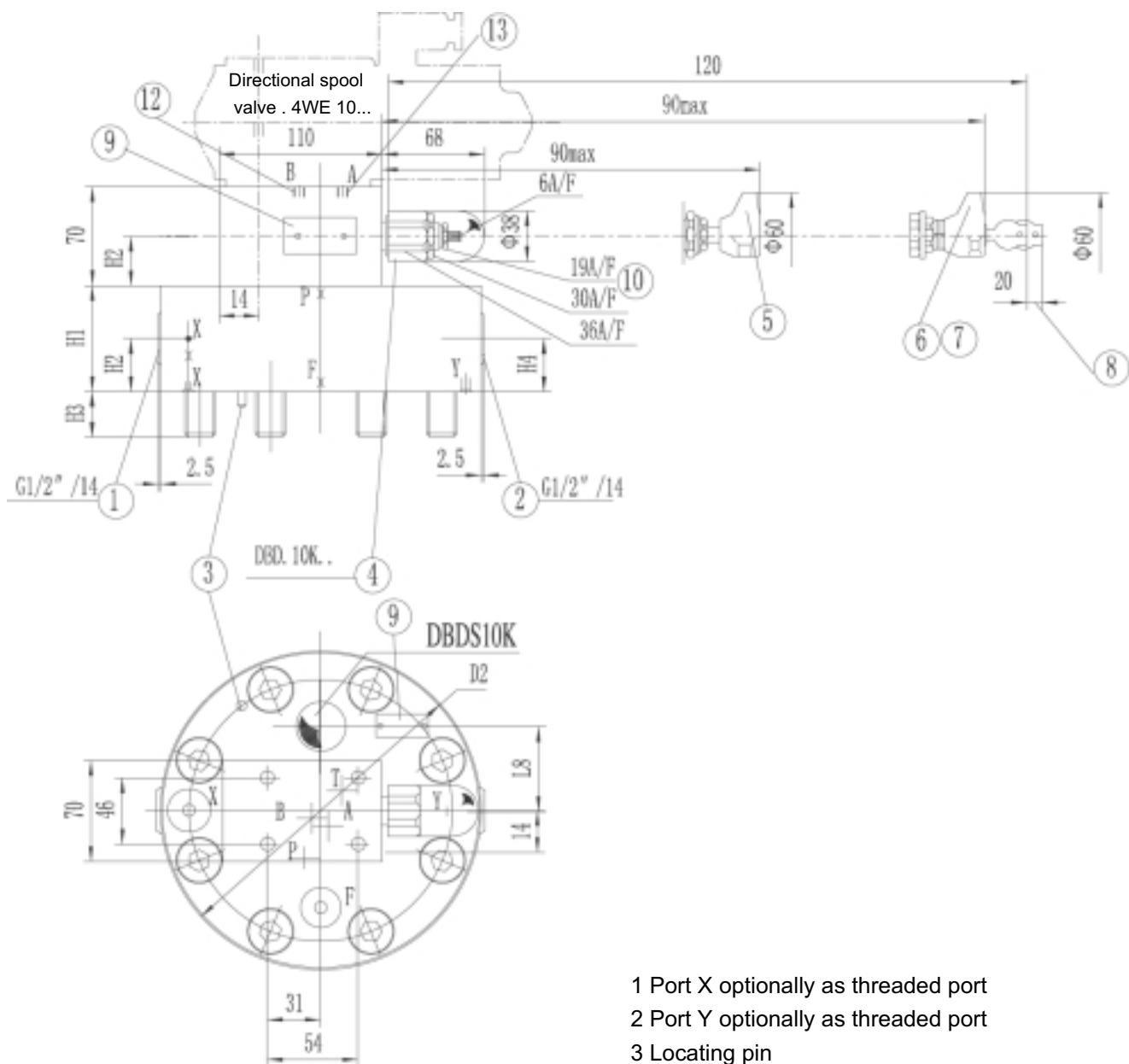
- 8 Space required to remove key
 9 Nameplate
 10 Lock nut
 11 Setting nut for max. pressure
 12 Plug M6 tapered for ..DBU 2A..
 13 Plug M6 tapered for ..DBU 2B..

**** Orifice- ϕ**

NS	F"	D"	P"	D1	H1	H2	H3	H4	H5	\square L1	L3	L4	L5	L6	L7	T1
40	1.2	1.0	1.2	G1/4"	60	17	32	27	40	125	69	76	68	43.5	47	12
50	1.2	1.2	1.5	G1/2"	68	19.5	34	35	50	140	80	84	74.5	51	54.5	14
63	1.5	1.5	1.8	-	82	55	50	45	-	180	-	-	-	-	-	-

Control cover with manual pressure adjustment
(Dimensions in mm)

NS 80, 100



- 1 Port X optionally as threaded port
- 2 Port Y optionally as threaded port
- 3 Locating pin
- 4 Adjuster type "2"
- 5 Adjuster type "1"
- 6 Adjuster type "3"
- 7 Adjuster type "4"
- 8 Space required to remove key
- 9 Nameplate
- 10 Lock nut
- 12 Plug M6 tapered for ..DBU 2A..
- 13 Plug M6 tapered for ..DBU 2B..

 ** Orifice- ϕ

NS	X''	F''	P''	D2	H1	H2	H3	H4	L8
80	3.0	2.5	3.5	250	100	30	45	52	75
100	3.0	2.5	3.5	300	100	30	51	52	85

Control cover with 3 manual pressure adjustments, electrically selectable

NS 16 to 100

1	2	3	4	5	6	7	8	9	10
LFA		DBU3D	+ 6X	B	/	A...	B...		*
NS 16 =16	NS 50 =50				DB _{max}	DB1	DB2		Further details in clear text
NS 25 =25	NS 63 =63								
NS 32 =32	NS 80 =80								
NS 40 =40	NS 100 =100								
									No code = Mineral oils V = Phosphate ester

Adjuster type (detail only for DB1 or DB2)*

Rotary knob	= 1
Hexagon with protective cap	= 2
Lockable rotary knob with scale	= 3
(H-lock to automotive industry standards)	
Rotary knot with scale not lockable	= 4

Series 60 to 69 = 6X
(60 to 69 unchanged installation and connection dimensions)

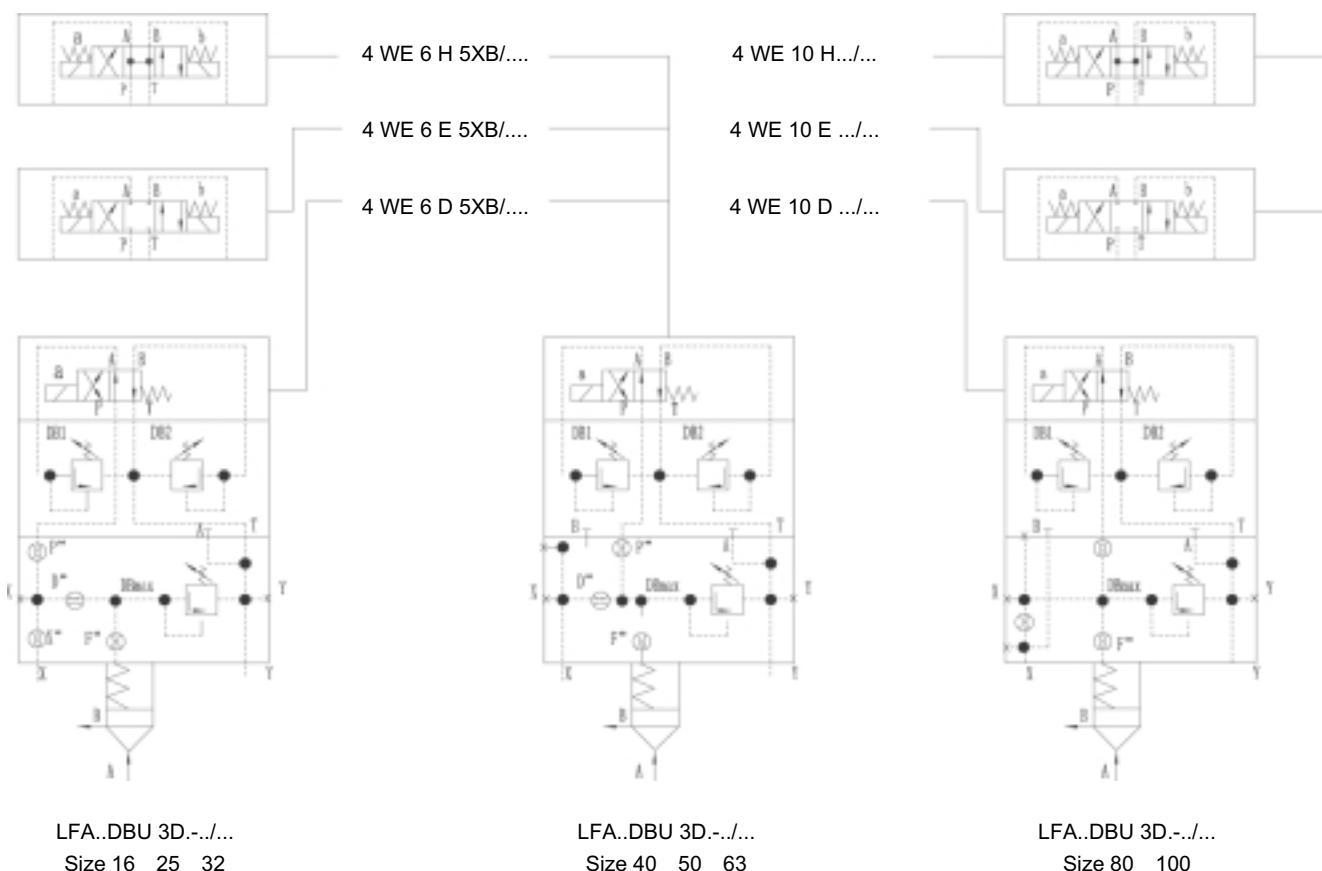
Pressure ratings
(take max. perm. pressure of pilot valve into account)

NS 16, 25, 32	NS 40, 50, 63, 80, 100
050=5.0MPa	025=2.5MPa
100=10.0MPa	050=5.0MPa
200=20.0MPa	100=10.0MPa
315=31.5MPa	200=20.0MPa
420=42.0MPa	315=31.5MPa
	400=40.0MPa

Technology of Beijing Huade Hydraulic

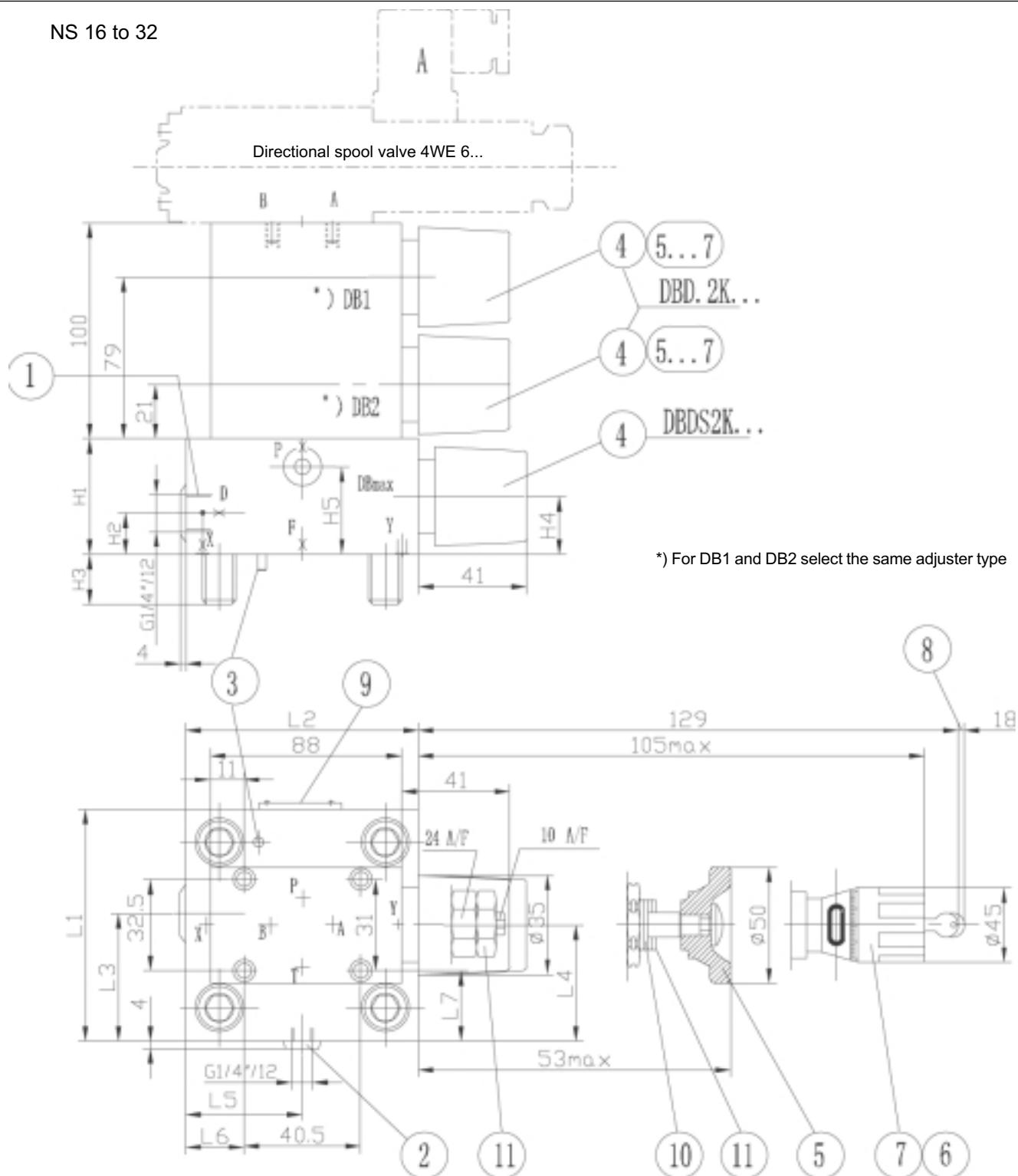
= B

*) For DB1 and DB2 select the same adjuster type



Control cover with 3 manual pressure adjustments, electrically selectable
(Dimensions in mm)

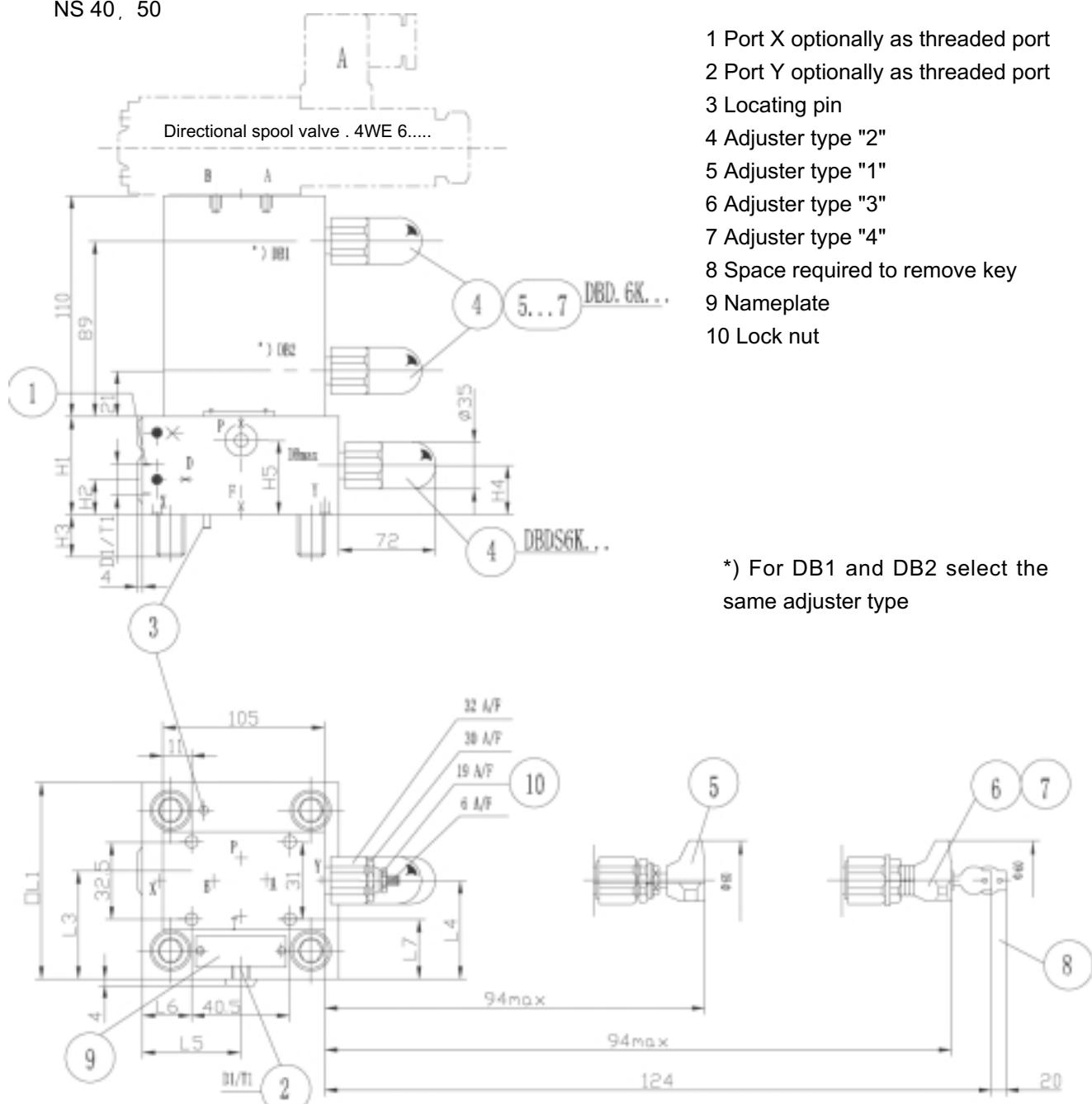
NS 16 to 32


** Orifice- ϕ

NS	X''	F''	D''	P''	H1	H2	H3	H4	H5	L1	L2	L3	L4	L5	L6	L7
16	0.8	1.0	0.8	1.0	40	17	15	19	28	65	80	36.5	32.5	35	7	17
25	0.8	1.0	0.8	1.0	40	19	24	19	28	85	85	49	45.5	36	8	27
32	0.8	1.2	1.0	1.0	50	26	28	26	37	100	100	56.5	53	57	30	34.5

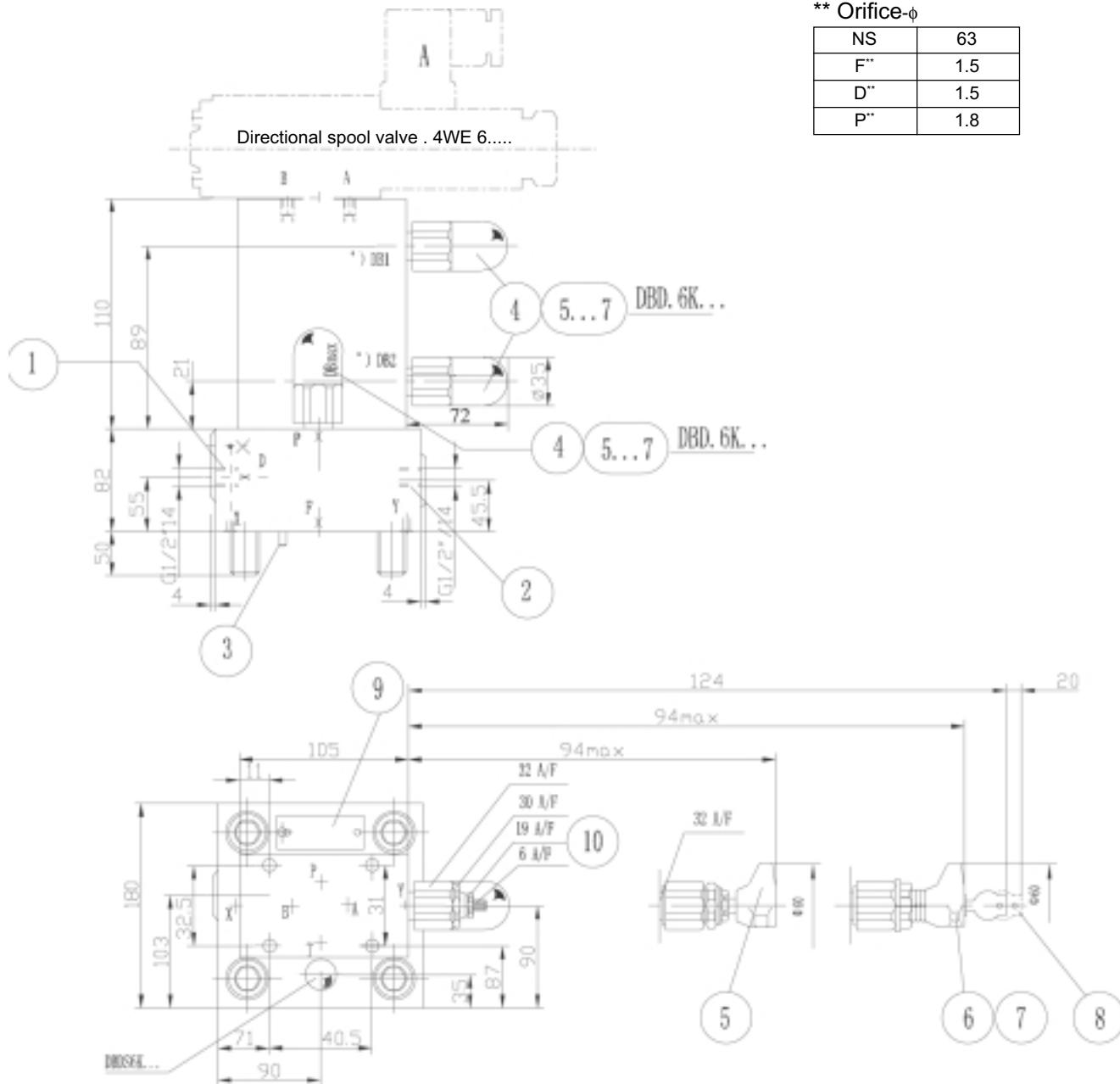
Control cover with 3 manual pressure adjustments, electrically selectable

NS 40, 50



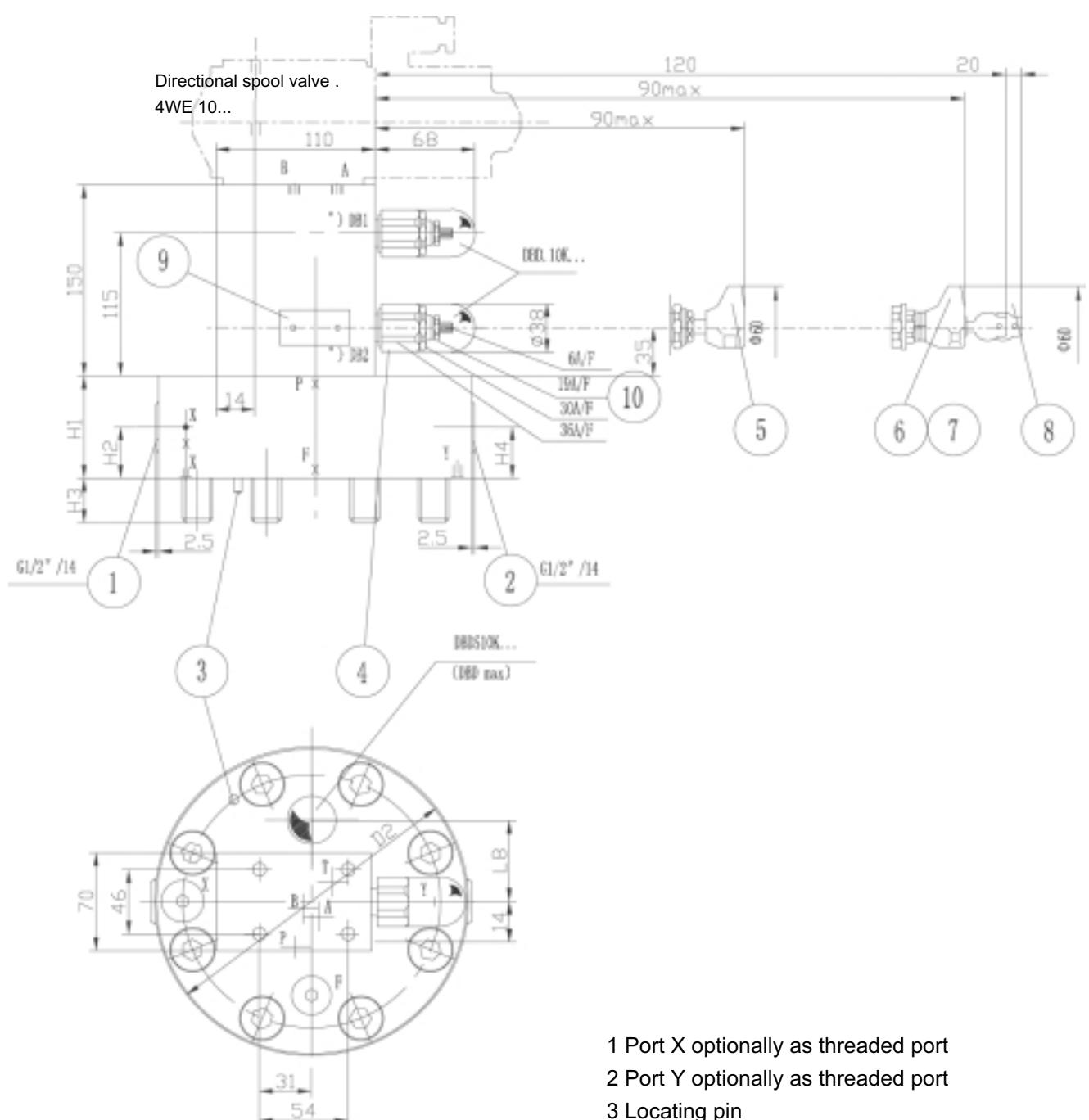
** Orifice- ϕ

NS	F''	D''	P''	D1	H1	H2	H3	H4	H5	L1	L3	L4	L5	L6	L7	T1
40	1.2	1.0	1.2	G1/4"	60	17	32	27	40	125	69	76	68	43.5	47	12
50	1.2	1.2	1.5	G1/2"	68	19.5	34	35	50	140	80	84	74.5	51	54.5	14

Control cover with 3 manual pressure adjustments, electrically selectable
(Dimensions in mm)
NS 63


*) For DB1 and DB2 select the same adjuster type

- 1 Port X optionally as threaded port
- 2 Port Y optionally as threaded port
- 3 Locating pin
- 4 Adjuster type "2"
- 5 Adjuster type "1"
- 6 Adjuster type "3"
- 7 Adjuster type "4"
- 8 Space required to remove key
- 9 Nameplate
- 10 Lock nut

Control cover with 3 manual pressure adjustments, electrically selectable
(Dimensions in mm)
NS 80, 100


- 1 Port X optionally as threaded port
- 2 Port Y optionally as threaded port
- 3 Locating pin
- 4 Adjuster type "2"
- 5 Adjuster type "1"
- 6 Adjuster type "3"
- 7 Adjuster type "4"
- 8 Space required to remove key
- 9 Nameplate
- 10 Lock nut

**** Orifice- ϕ**

NS	X"	F"	P"	D2	H1	H2	H3	H4	L8
80	3.0	2.5	3.5	250	100	30	45	52	75
100	3.0	2.5	3.5	300	100	30	51	52	85

*) For DB1 and DB2 select the same adjuster type

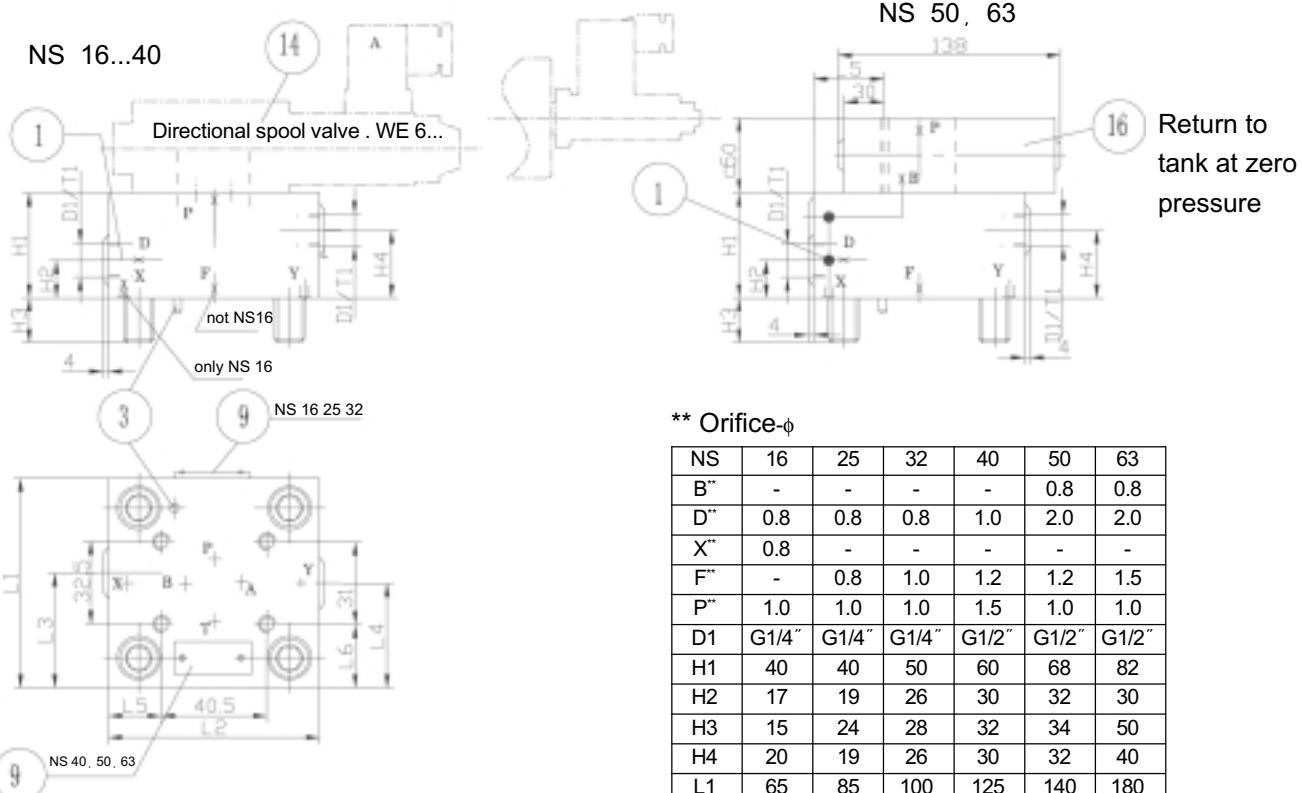
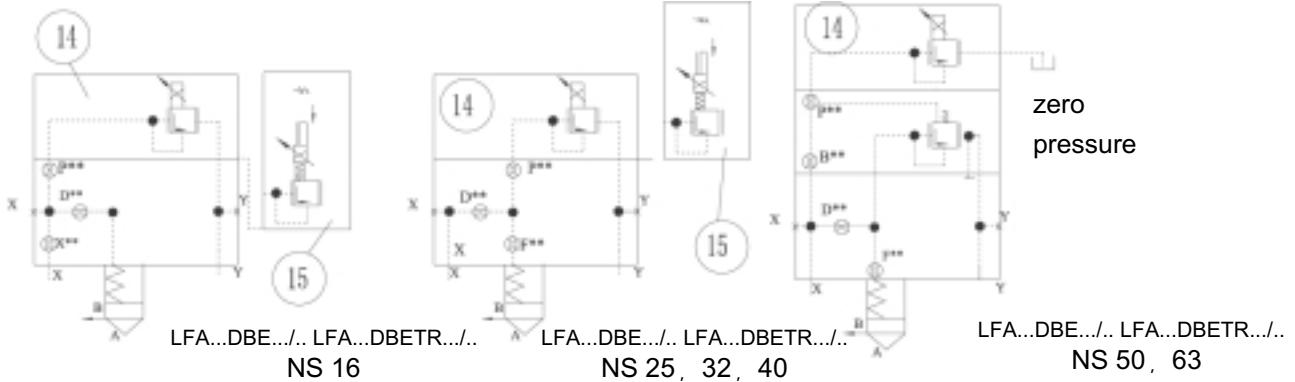
Control cover for electrical-proportional pressure adjustment, without maximum pressure limitation

NS16 to 63	1	2	3	5	9	10
	LFA			6X	B	*
NS 16 =16	NS 40 =40					Further details in clear text
NS 25 =25	NS 50 =50					No code = Mineral oils V = Phosphate ester
NS 32 =32	NS 63 =63					

For mounting a proportional pressure relief valve
without electrical feedback = DBE
with electrical feedback = DBETR

B = Technology of Beijing Huade Hydraulic

6X= Series 60 to 69
(60 to 69 unchanged installation and connection dimensions)



1 Port X optionally as threaded port

2 Port Y optionally as threaded port

3 Locating pin

9 Nameplate

14 Proportional pressure relief valve type DBET-5XB/...see page 35

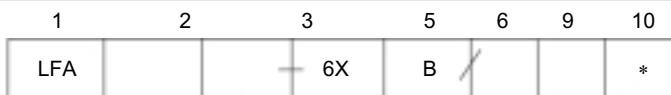
15 Proportional pressure relief valve with feedback type DBETR-1XB/... (see page 35)

16 Pressure relief valve NS 6 (is included within the scope of supply)

NS	16	25	32	40	50	63
B''	-	-	-	-	0.8	0.8
D''	0.8	0.8	0.8	1.0	2.0	2.0
X''	0.8	-	-	-	-	-
F''	-	0.8	1.0	1.2	1.2	1.5
P''	1.0	1.0	1.0	1.5	1.0	1.0
D1	G1/4"	G1/4"	G1/4"	G1/2"	G1/2"	G1/2"
H1	40	40	50	60	68	82
H2	17	19	26	30	32	30
H3	15	24	28	32	34	50
H4	20	19	26	30	32	40
L1	65	85	100	125	140	180
L2	80	85	100	125	140	180
L3	36.5	49	56.5	72	80	100
L4	23.5	36	43.5	53	50	80
L5	7	22.5	30	43.5	51	71
L6	17	27	34.5	47	54.5	74.5
T1	12	12	12	14	14	14

Control cover for electrical-proportional pressure adjustment, with maximum pressure limitation

NS 16 to 100



Further details in clear text

NS 16=16 NS 50 =50
 NS 25=25 NS 63 =63
 NS 32=32 NS 80 =80
 NS 40=40 NS 100=100

For mounting a proportional pressure relief valve
 without electrical feedback = DBE
 with electrical feedback = DBETR

Series 60 to 69 = 6X
 (60 to 69 unchanged installation and connection dimensions)

Technology of Beijing Huade Hydraulic

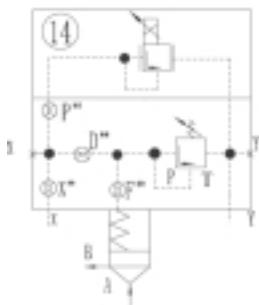
= B

No code = Mineral oils
 'V' = Phosphate ester

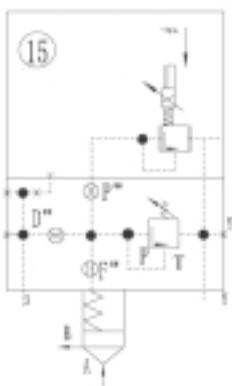
Pressure ratings

(take max. perm. pressure of pilot valve into account)

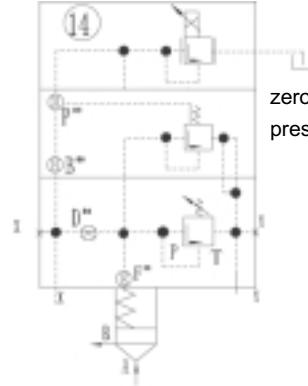
NS 16, 25, 32	NS 40, 50, 63, 80, 100
050=5.0MPa	025=2.5MPa
100=10.0MPa	050=5.0MPa
200=20.0MPa	100=10.0MPa
315=31.5MPa	200=20.0MPa
420=42.0MPa	315=31.5MPa
	400=40.0MPa



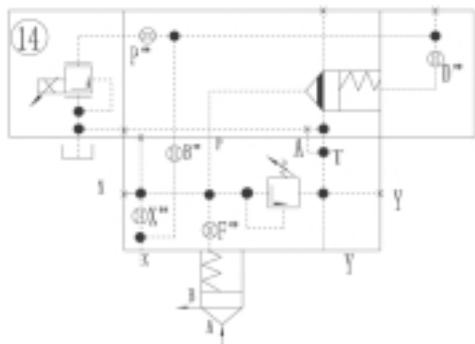
LFA...DBEM.../..
 LFA...DBEMTR.../..
 NS 16, 25, 32



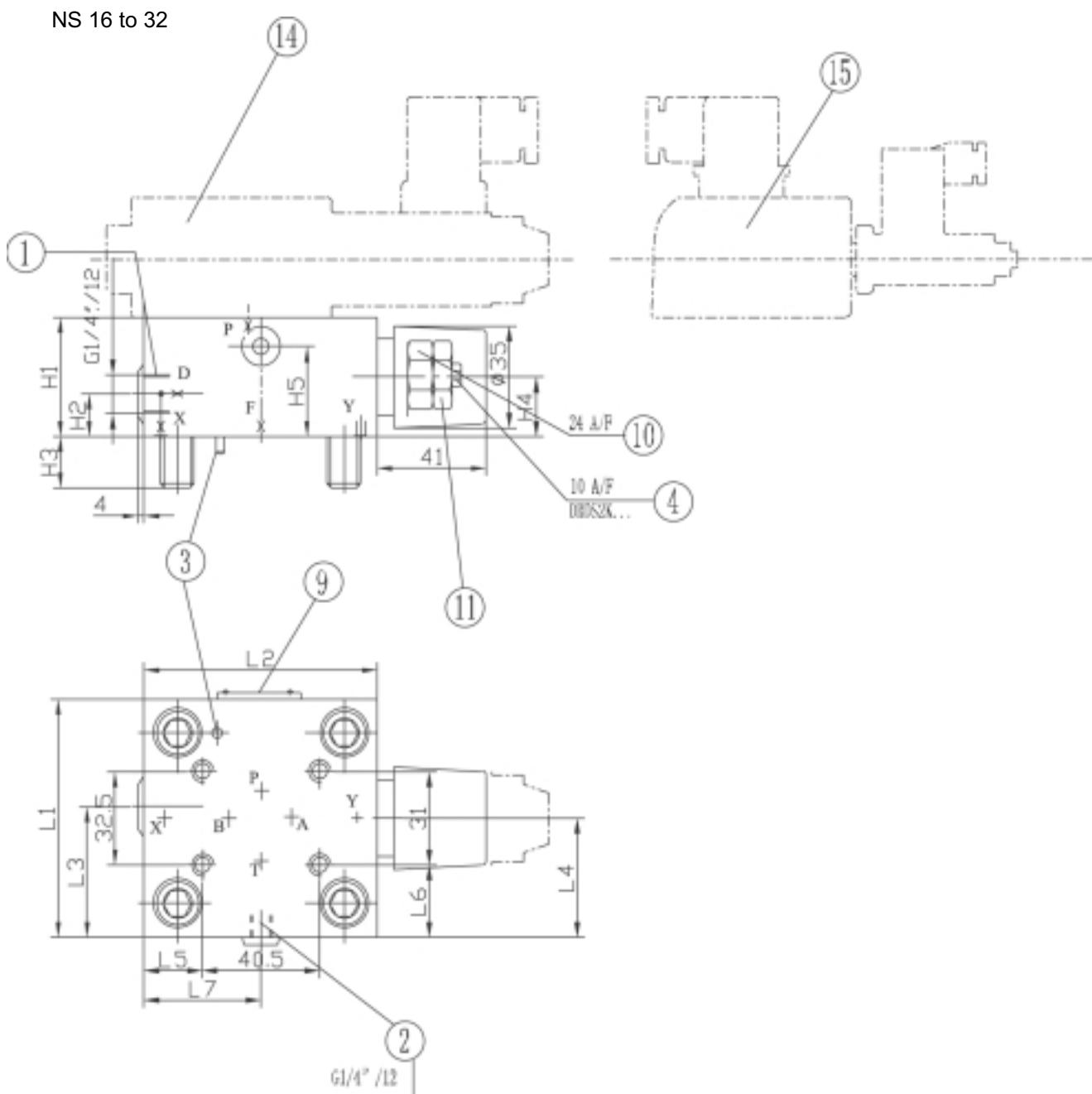
LFA...DBEM.../..
 LFA...DBEMTR.../..
 NS 40



LFA...DBEM.../..
 LFA...DBEMTR.../..
 NS 50, 63



LFA...DBEM.../..
 LFA...DBEMTR.../..
 NS 80,100

Control cover with 3 manual pressure adjustments, electrically selectable
(Dimensions in mm)

¹⁾G 1/4 threaded port T,

special poppet

Ports T and Y - zero pressure

1 Port X optionally as threaded port

2 Port Y optionally as threaded port

3 Locating pin

4 Adjuster type "2"

9 Nameplate

10 Lock nut

11 The Max.settable pressure

14 Proportional pressure relief valve

type DBET-5XB/...see page 34

15 Proportional pressure relief valve with feed-

back

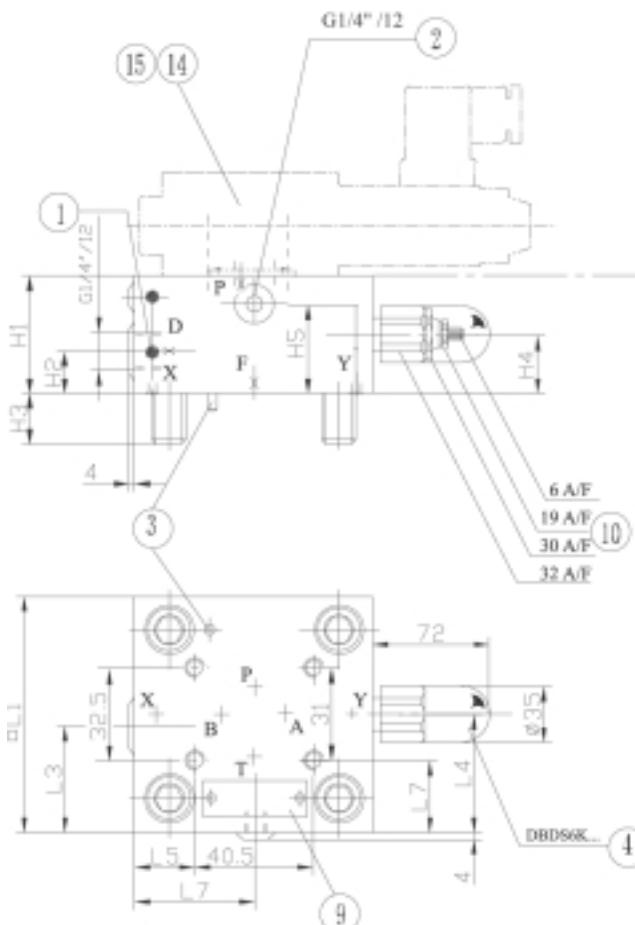
type DBETR-1XB/... (see page 34)

**** Orifice-φ**

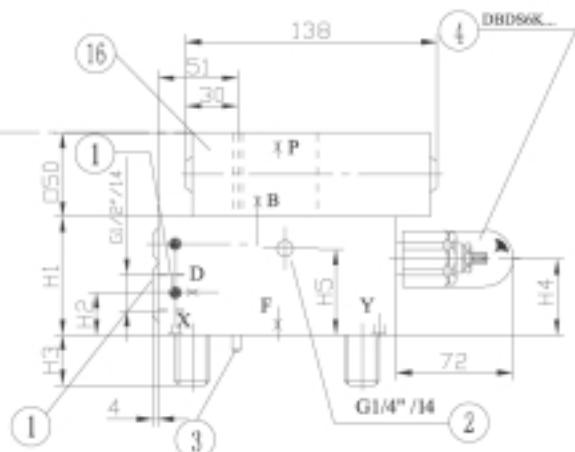
NS	X"	F"	D"	P"	H1	H2	H3	H4	H5	L1	L2	L3	L4	L5	L6	L7
16	0.8	1.0	0.8	1.0	40	17	15	19	28	65	80	36.5	32.5	7	17	35
25	0.8	1.0	0.8	1.0	40	19	24	19	28	85	85	49	45.5	8	27	36
32	0.8	1.2	1.0	1.0	50	26	28	26	37	100	100	56.5	53	30	34.5	57

Control cover for electrical-proportional pressure adjustment, with maximum pressure limitation

NS 40



NS 50



1 Port X optionally as threaded port

2 Port Y optionally as threaded port

3 Locating pin

4 Adjuster type "2"

9 Nameplate

10 Lock nut

14 Proportional pressure relief valve

type DBET-5XB/G24 (NS 40)

type DBET-5XB/Y G24-1¹⁾ (NS 50)

(see page 34)

15 Proportional pressure relief valve with feed-back

type DBETR-1XB/... (see page 34)

type DBETR-1XB/...409²⁾ (NS 50)

16 Pressure relief valve NS 6

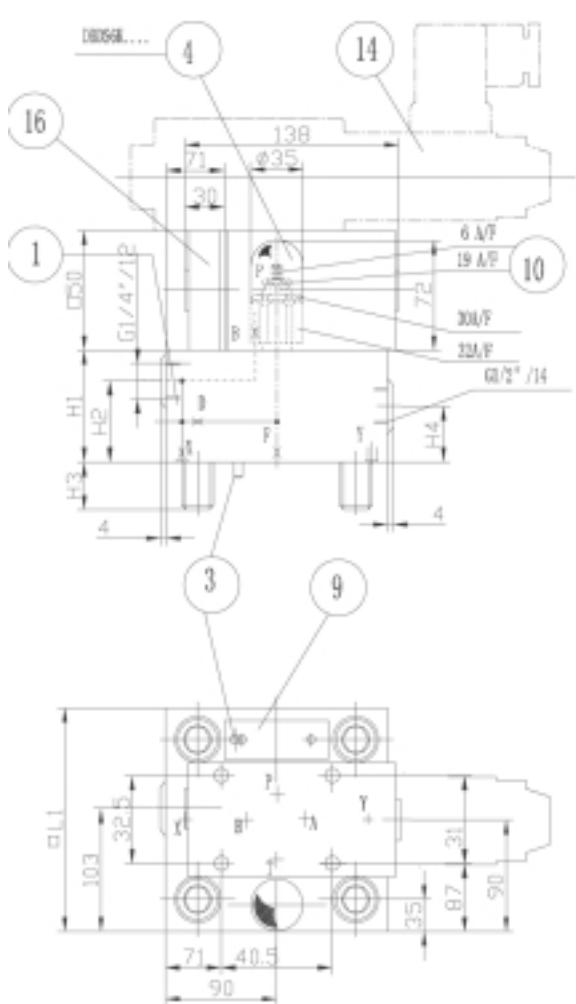
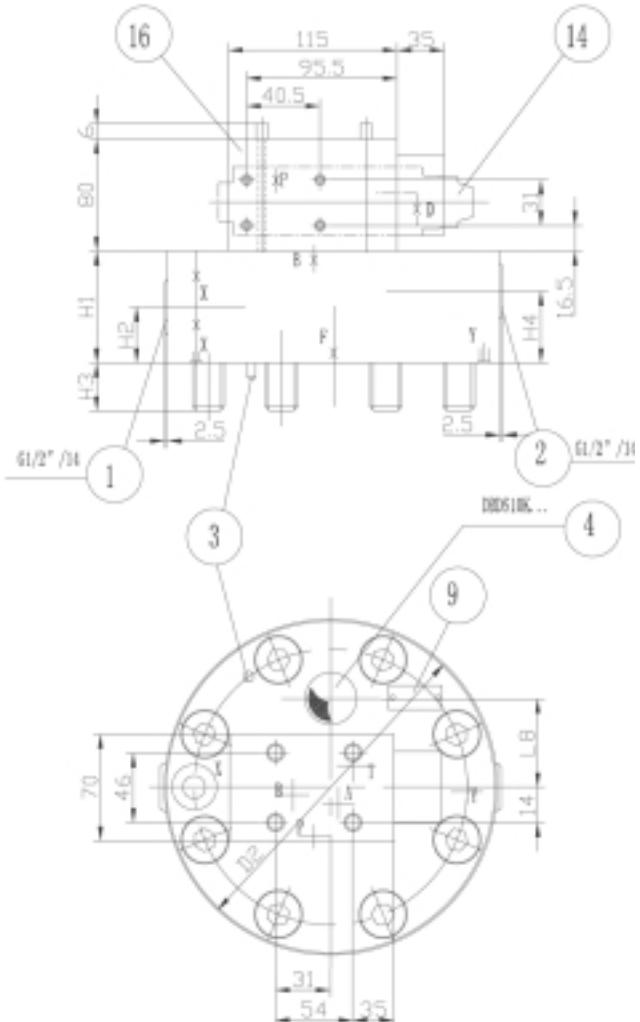
(is included within the scope of supply)

¹⁾ G 1/4" threaded port T,
special poppet

²⁾ 409 = G 1/4" threaded port T,

** Orifice- ϕ

NS	40	50
B''	-	0.8
F''	1.2	1.2
D''	1.0	2.0
P''	1.5	1.0
H1	60	68
H2	20	19.5
H3	32	34
H4	27	35
H5	40	50
□ L1	125	140
L3	68	90
L4	76	84
L5	43.5	51
L6	47	54.5
L7	68	74.5

Control cover with 3 manual pressure adjustments, electrically selectable
(Dimensions in mm)
NS 63

NS 80,100


1 Port X optionally as threaded port

2 Port Y optionally as threaded port

3 Locating pin

4 Adjuster type "2"

9 Nameplate

10 Lock nut

14 Proportional pressure relief valve

type DBET-5XB/G24 (NS 40)

type DBET-5XB/Y G24-1 3) (NS 50)

(see page 34)

15 Proportional pressure relief valve with feed-back

type DBETR-1XB/...(NS 40) (see page 34)

 type DBETR-1XB/...409²⁾ (NS 50)

16 Pressure relief valve NS 6

(included within the scope of supply)

**** Orifice-Ø**

NS	B"	X"	F"	D"	P"	H1	H2	H3	H4	D2	□ L1	L8
63	0.8	-	1.5	2.0	1.0	82	55	50	45	-	180	-
80	0.8	3.0	2.5	0.8	1.0	100	30	45	52	250	-	75
100	0.8	3.5	3.0	0.8	1.0	100	30	51	52	300	-	85

¹⁾ G 1/4" threaded port T,
special poppet

²⁾ 409 = G 1/4" threaded
port T

Notice

- 1. The fluid must be filtered. Minimum filter fineness is 20 µm.**
- 2. The tank must be sealed up and an air breather/filter must be installed on air suction/entrance.**
- 3. Subplate are not supplied, if required, please ordering separately.**
- 4. Valve fixing bolts/screws must be high tensile (class 10.9). Please select and consult manufacturer according to the parameter listed in the datasheet.**
- 5. Roughness of surface mating with the valve is required to  .**
- 6. Surface straightness of mating piece is required to 0.01/100mm.**

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