



NG16: Technical data see page 2 /Feature curve see page 2 /installation dimensions see page 5.

NG25: Technical data see page 3 /Feature curve see page 3/ installation dimensions see page 6.

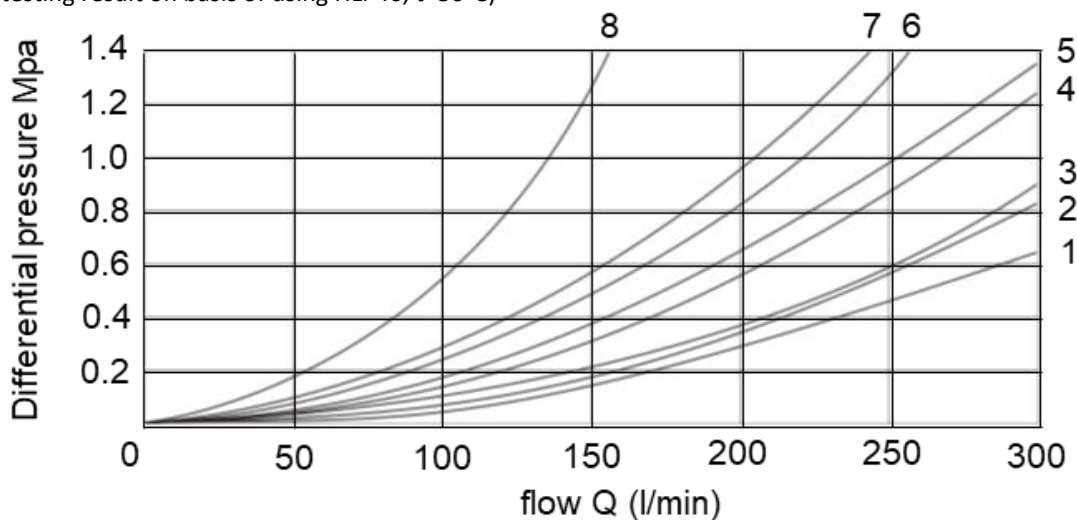
Technical data [NG16]

General Data [NG16]		
Mounting position		Optional
Operating temperature	°C	-30~+80 (nitrile rubber seal)
		-20~+80 (rubber seal)
Weight valve	kg	8,6 (DC) : 8,6 (AC)

Hydraulic Data [NG16]			
Maximum operating pressure port P, A, B		MPa	35 (DC) : 28 (AC)
Hydraulic fluid port T	control oil external drain	MPa	25 (DC) : 25 (AC)
	control oil internal drain		21 (DC) : 16 (AC)
	Three-way valve with hydr. Centre : control oil internal drain		
Hydraulic fluid port Y	control oil external drain	Mpa	21 (DC) : 16 (AC)
Minimum cotroll pressure	ontrol oil external suppl	Mpa	Three-way valve (1.4 Mpa) Two-way valve with spring return(1.4 Mpa) Two-way valve with hydraulic return (1.4 Mpa) Using pre-pressure valve when flow is large and if spool symbol is C,Z,F,G,H,P,S,T,V O, (45 Mpa)
Maximum cotrol pressure		Mpa	25
Liquid medium			Mineral oil: organic phosphate oil
Oil temperature range		°C	-30~+80 (nitrile rubber seal) -20~+80 (rubber seal)
Viscosity range		mm²/s	2,8 - 500
Oil cleanliness			The highest oil pollution level by NAS1639 Class 9 reccomend minimum filter filtration precision $\beta_{10} \geq 75$

Feature Curve [NG16]

(testing result on basis of using HLP46, t=50°C)



spool symbol	switch position				
	P-A	P-B	A-T	B-T	P-T
E, Y, D	1	1	1	3	-
F	2	2	3	3	-
G, T	5	1	3	7	6
H, C, Q, V, Z	2	2	3	3	-
J, K, L	1	1	3	3	-
M, W	2	2	4	3	-
R	2	2	4	-	-
U	1	1	4	7	-
S	4	4	4	-	8

spool symbol	open area (mm ²)			
	P-A	P-B	A-T	B-T
Q			32	32
V	32	32	32	32
W			6	6

Technical data [NG25]

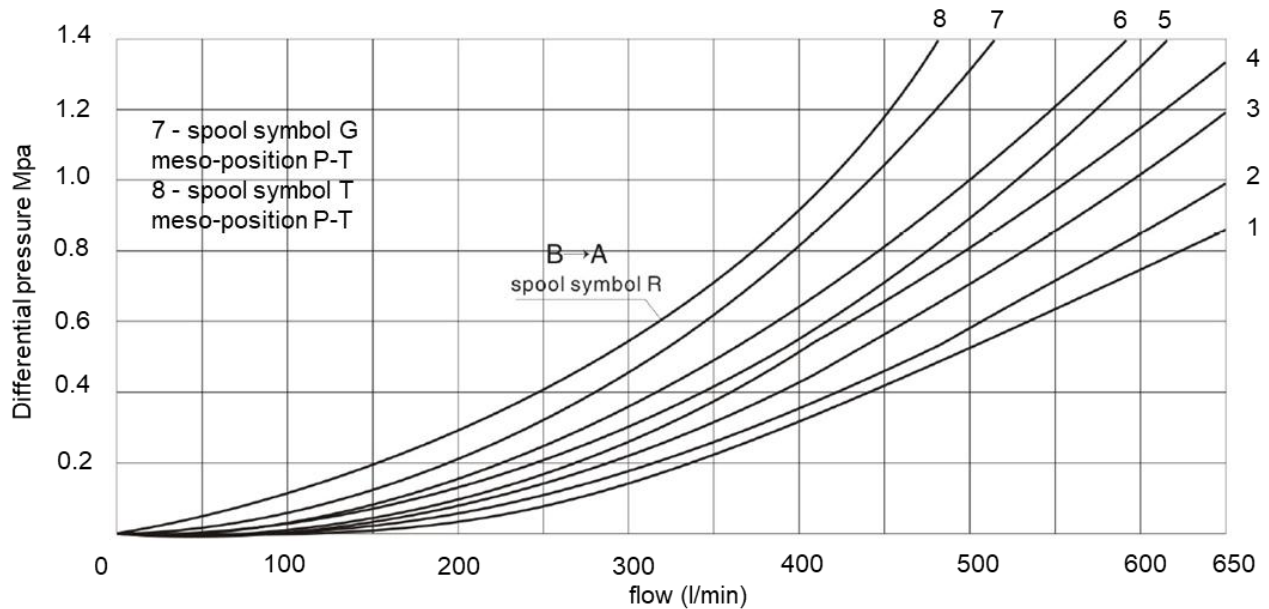
General Data [NG25]		
Mounting position	Optional	
Operating temperature	°C	-30~+80 (nitrile rubber seal) -20~+80 (rubber seal)
Weight valve	kg	18 (DC) : 18 (AC)

Hydraulic Data [NG25]		
Maximum operating pressure port P, A, B	MPa	35 (DC) : 28 (AC)
Hydraulic fluid port T	control oil external drain	25 (DC) : 25 (AC)
	control oil internal drain	21 (DC) : 16 (AC)
Hydraulic fluid port Y	control oil external drain	21 (DC) : 16 (AC)
Minimum cotroll pressure	control oil external supply	Mpa
Three-way valve (1.4 Mpa) Two-way valve with spring return(1.4 Mpa) Two-way valve with hydraulic return (1.4 Mpa) Using pre-pressure valve when flow is large and if spool symbol is C,Z,F,G,H,P,S,T,V O, (45 Mpa)		
Maximum cotrol pressure	Mpa	25
Liquid medium	Mineral oil: organic phosphate oil	
Oil temperature range	°C	-30~+80 (nitrile rubber seal) -20~+80 (rubber seal)
Viscosity range	mm ² /s	2,8 - 500
Oil cleanliness	The highest oil pollution level by NAS1639 Class 9 reccomend minimum filter filtration precision β10≥75	

Maximum control oil capacity under switching conditions		
Three-way spring centralize	cm3	14,15
Two-way valve		28,4
Three-way valve with hydraulic centralize		
From position "0" to working position "a"		7,15
From working position "a" to position "0"	cm3	7,0
From position "a" to working position "b"		14,15
From working position "b" to position "0"		5,73

Feature Curve [NG25]

(testing result on basis of using HLP46, t=50°C)

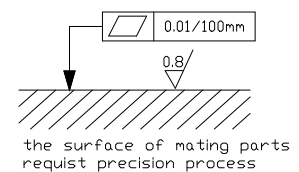
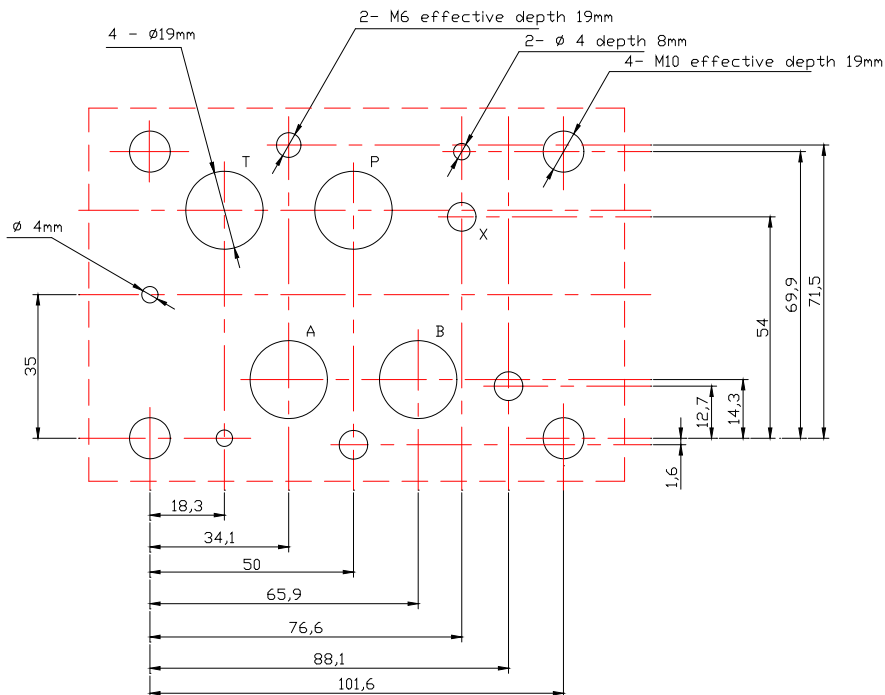
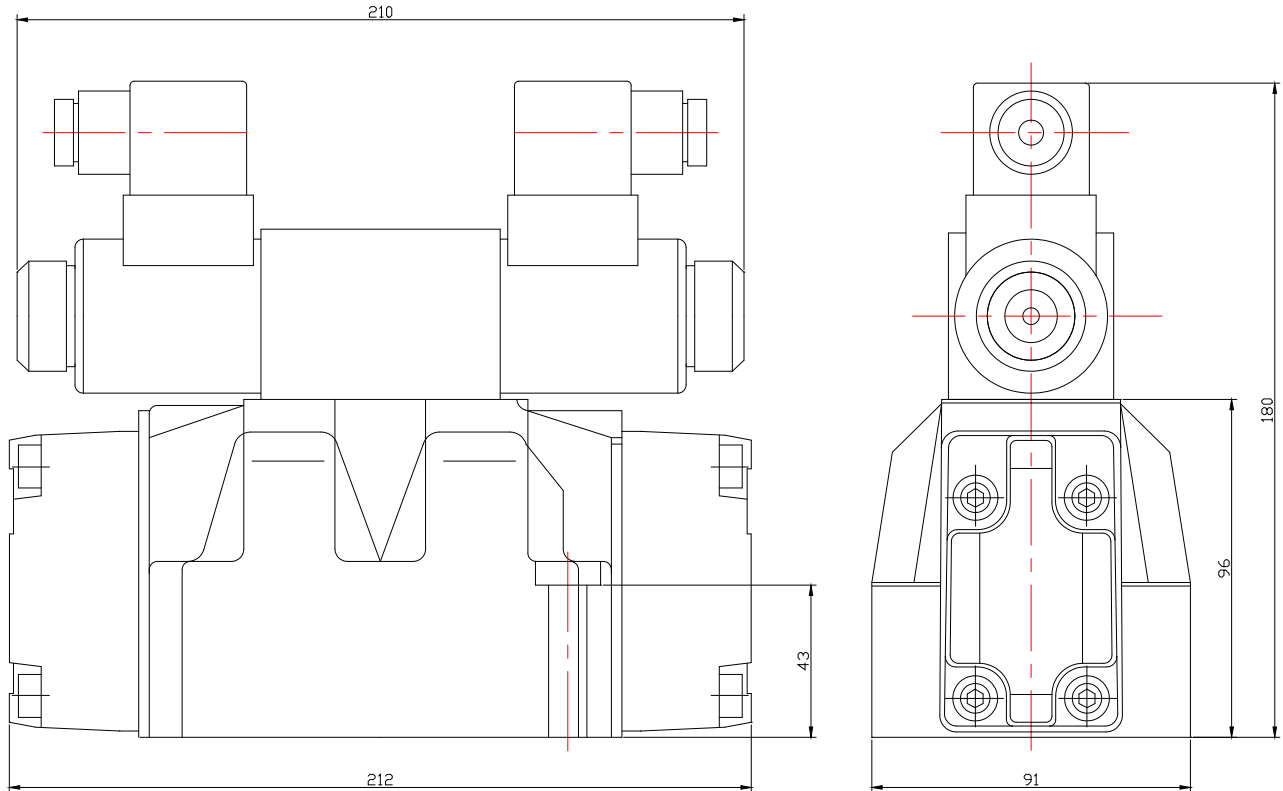


Pressure loss curve electro-hydraulic direction valve

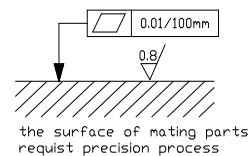
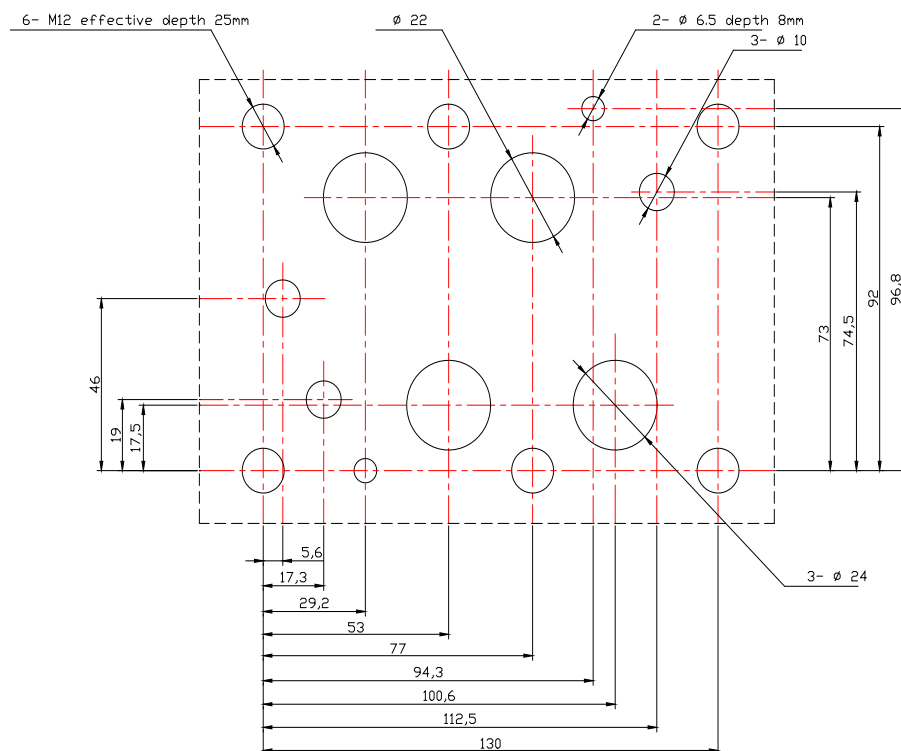
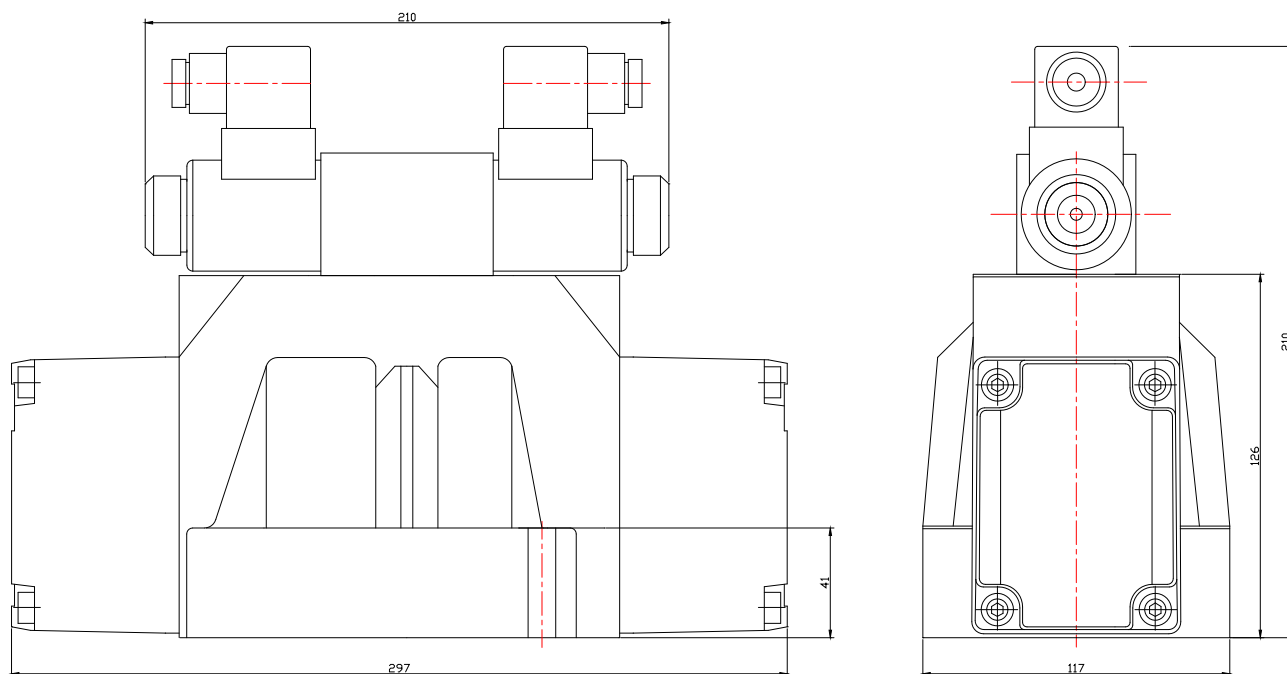
spool symbol	switch position			
	P-A	P-B	A-T	B-T
E	1	1	1	3
F	1	4	3	3
G	3	1	2	4
H	4	4	3	4
J, Q	2	2	3	5
L	2	2	3	3
M	4	4	1	4

spool symbol	switch position			
	P-A	P-B	A-T	B-T
P	4	1	1	6
R	2	4	3	6
U	4	1	1	6
V	2	4	3	6
W	1	1	1	3
T	3	1	2	4

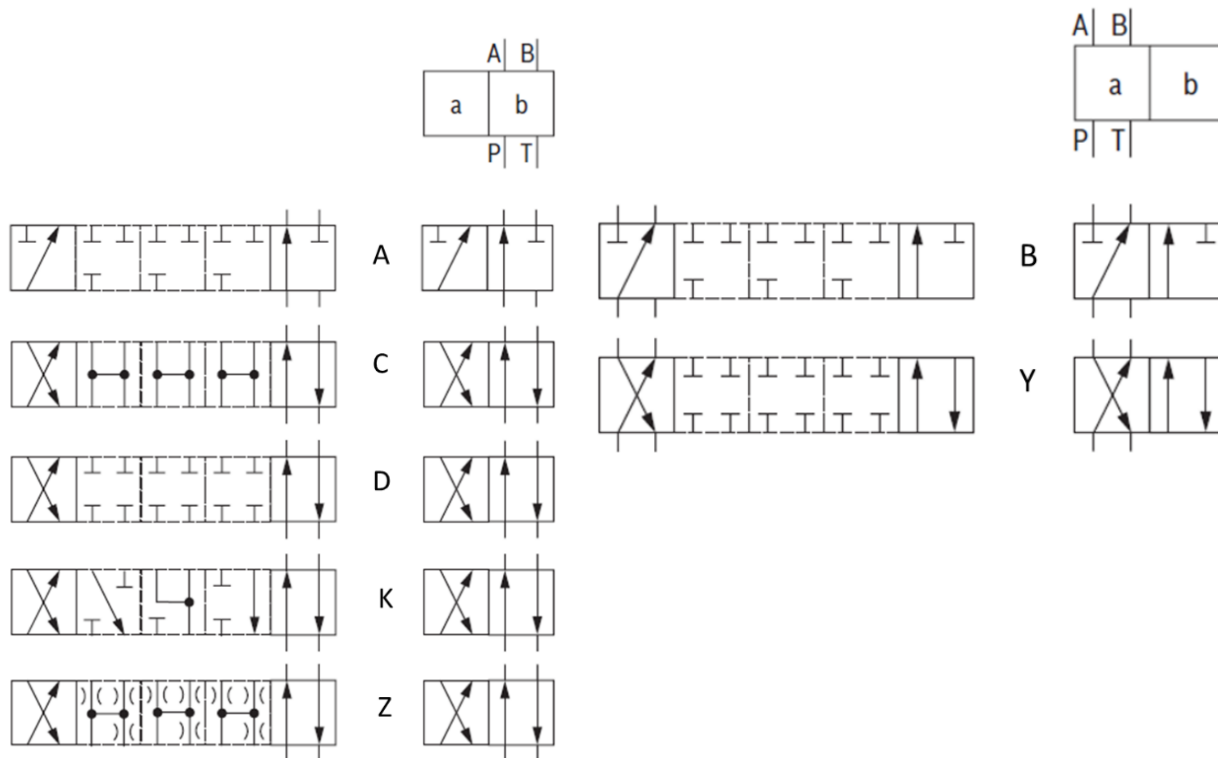
Installation Dimension [NG16]



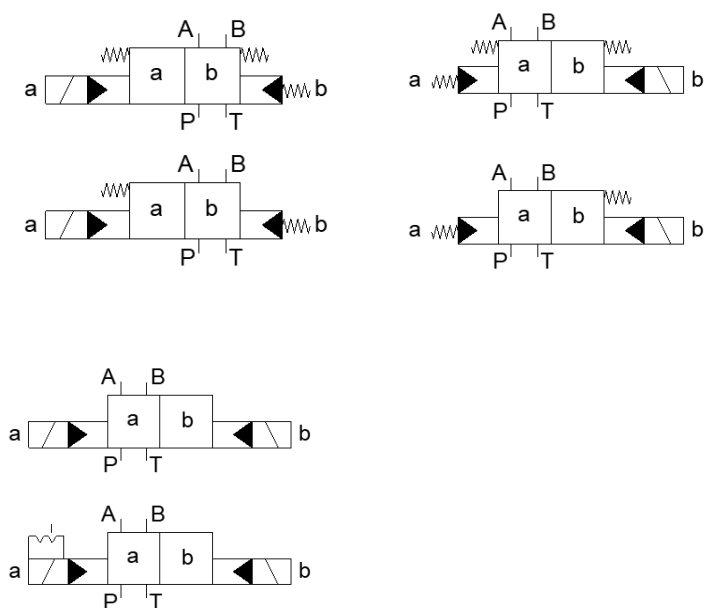
Installation Dimension [NG25]



Symbols of 2 spool positions



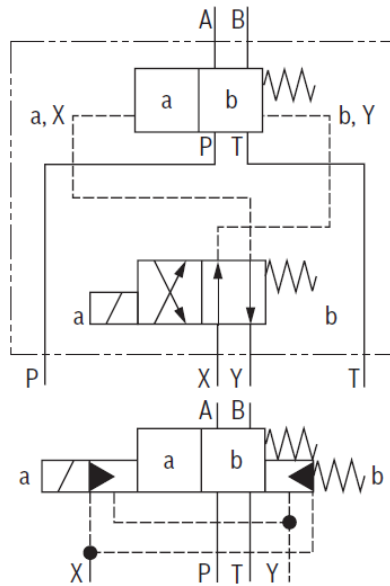
Symbols of spool type 2 positions



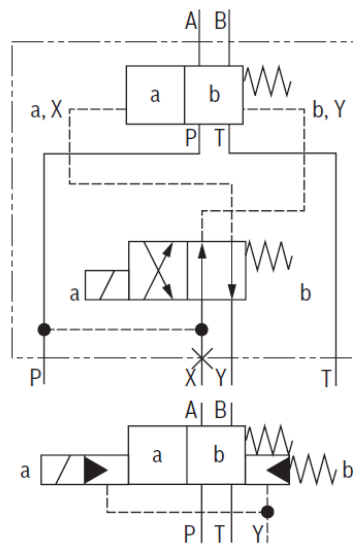
Symbols for valves with 2 spool positions

Valve with spring end position

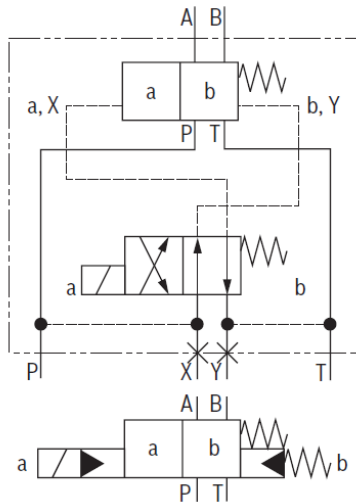
X= external; Y = external



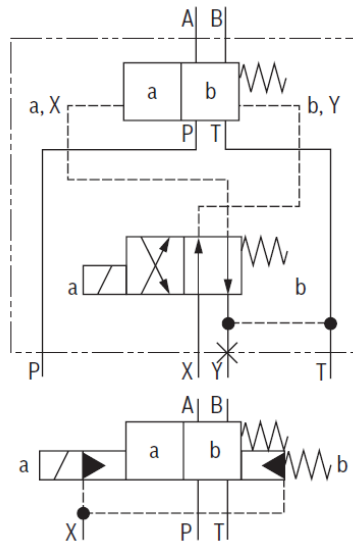
X= internal ; Y = external



X= internal ; Y = internal

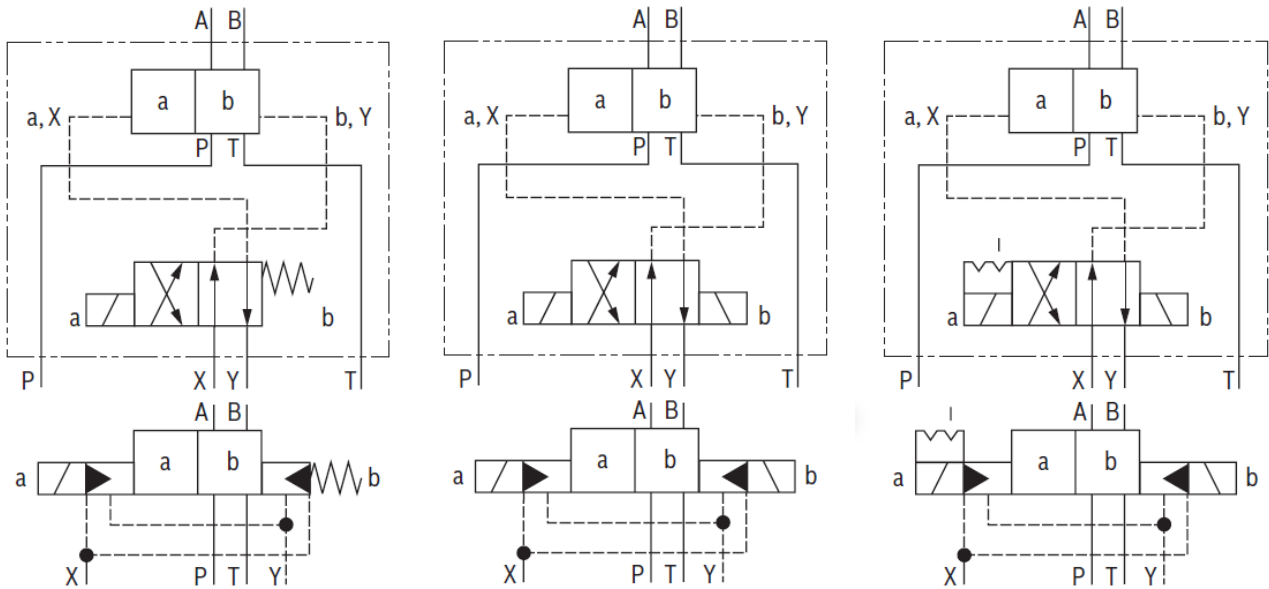


X= external ; Y = internal

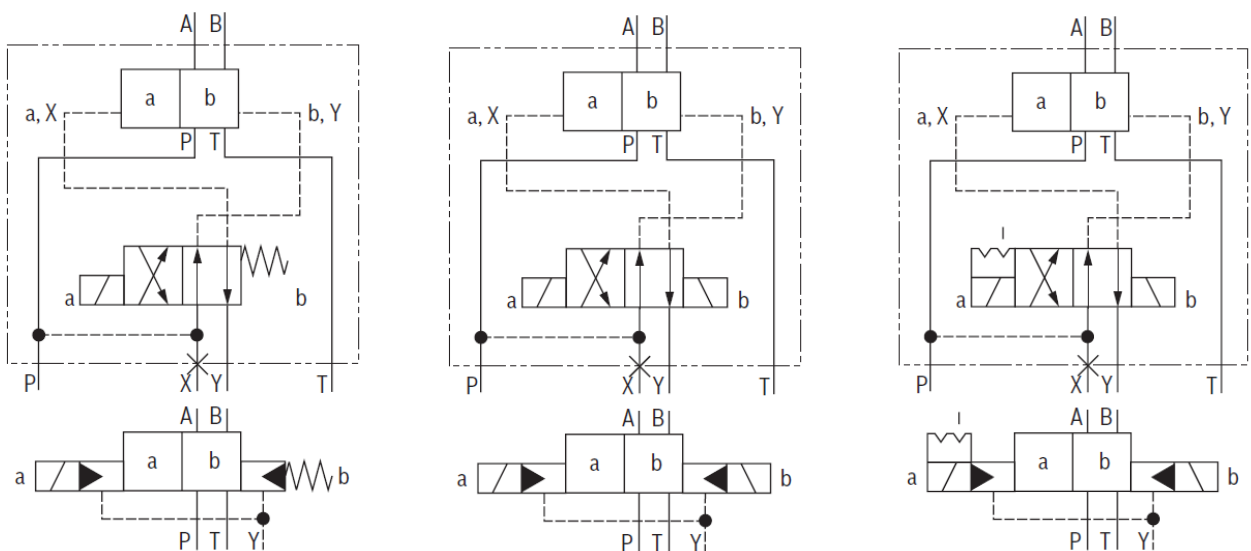


Valve with hydraulic end position

X= external; Y = external

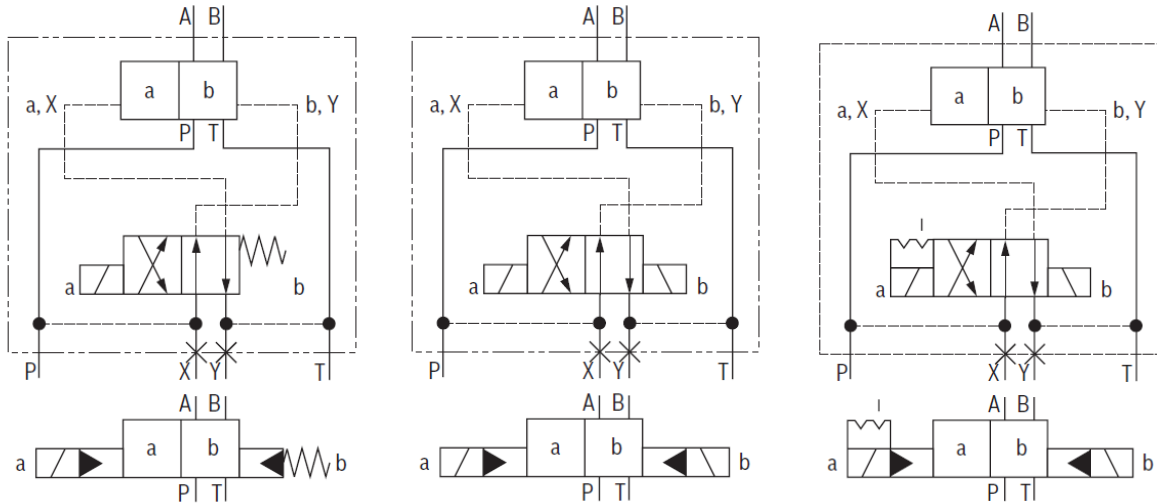


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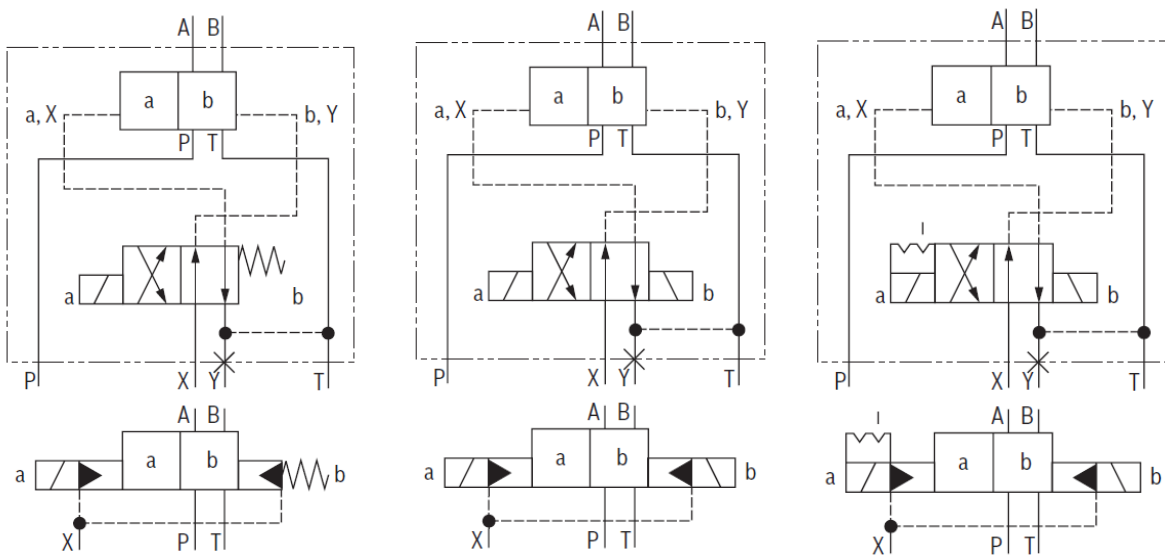


Valve with hydraulic end position

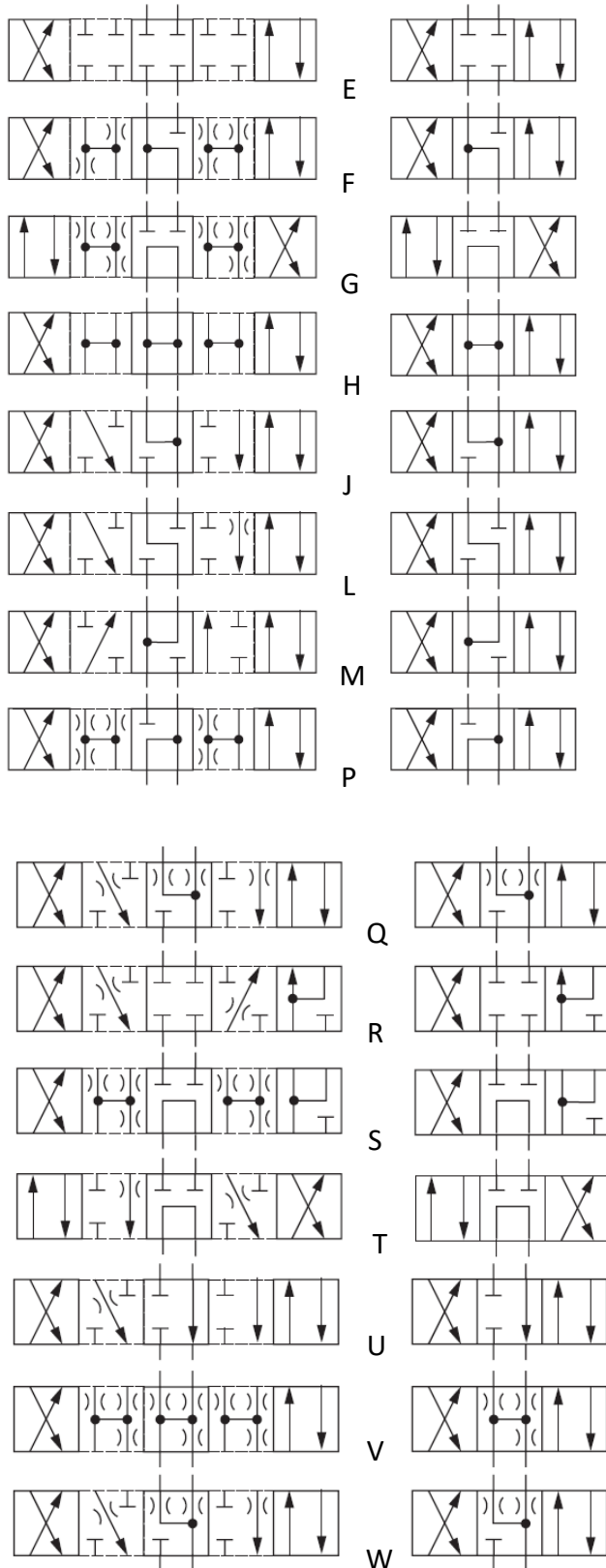
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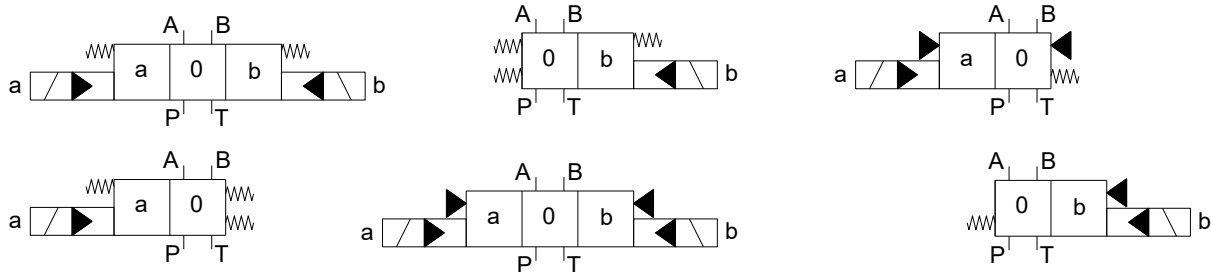
X= external ; Y = internal



Symbols of 3 spool positions



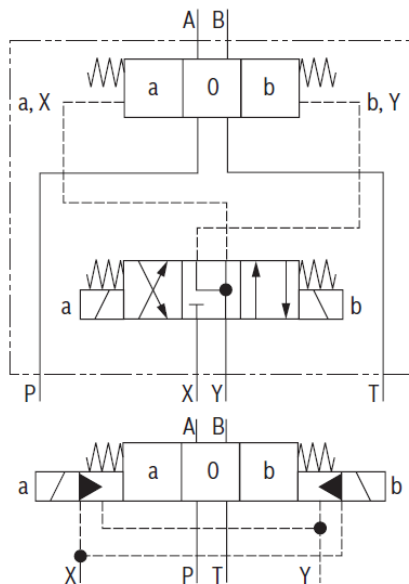
Symbols of spool type 3 positions



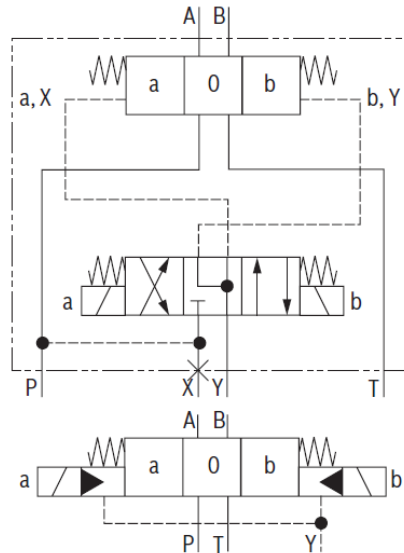
Symbols for valves with 3 spool positions

Valve with spring centered zero position

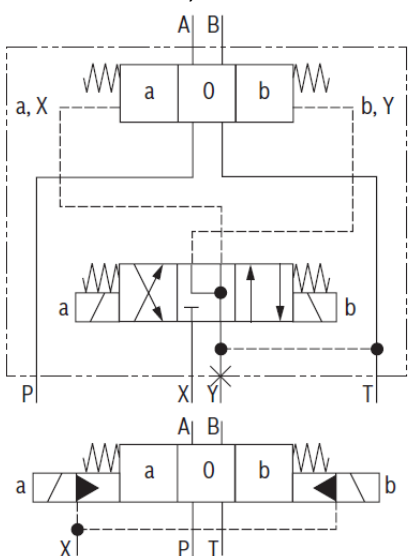
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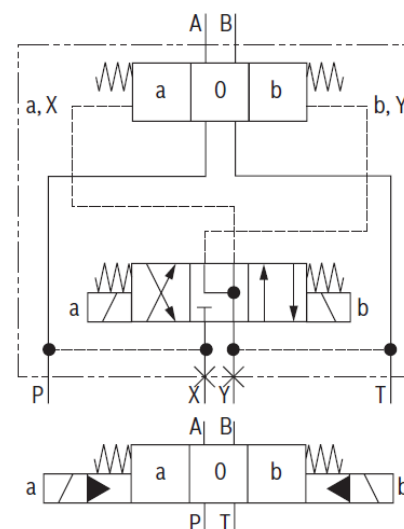
X= internal ; Y = external



X= external ; Y = internal

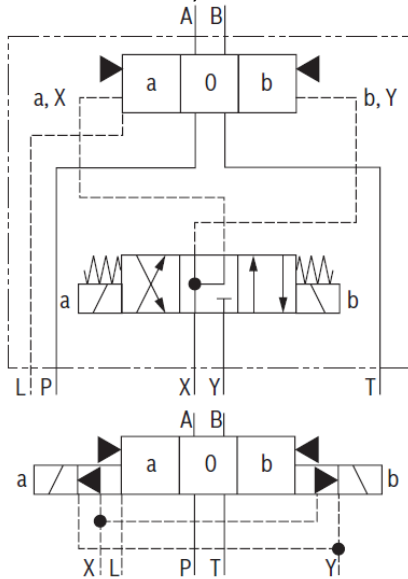


X=internal ; Y = internal

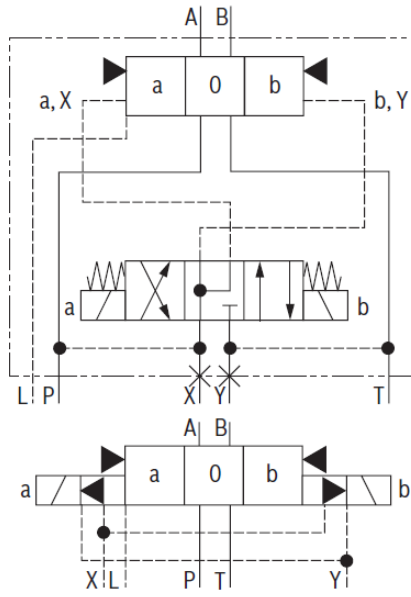


Valve with pressure-centered zero position

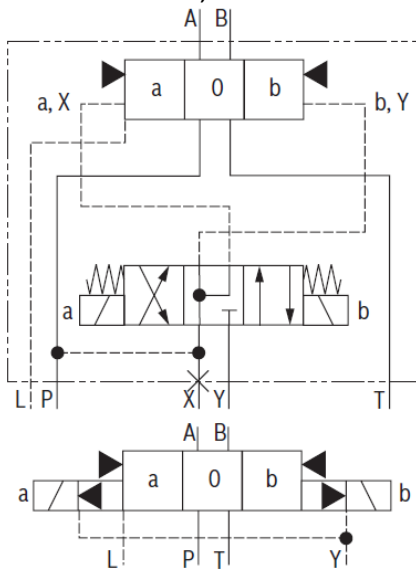
X= external ; Y = external



X= external ; Y = external



X= internal ; Y = external



X= internal ; Y = external

