

INTERNATIONAL VALVES - 4WE16

Solenoid Operated

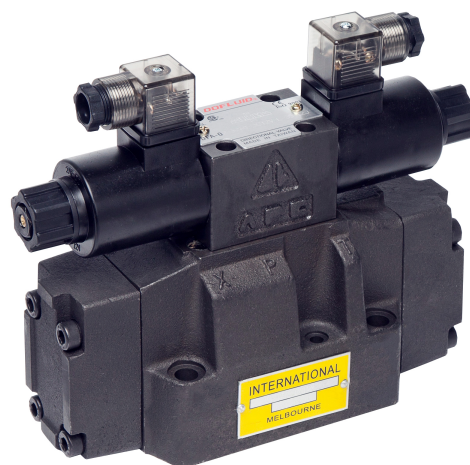
Cetop 7

Characteristics :

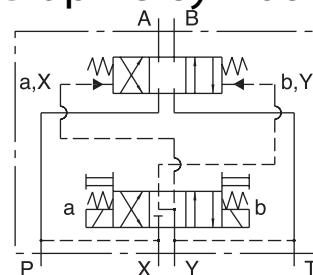
- Highest performance in NG 16.
- Optimized spool design to reduce flow force.
- Proven quality through 10 million endurance test.
- Manual overrides standard.
- "P" port pilot pressure insert for open center spools.
- Connections to DIN, ISO and CETOP.

Specification :

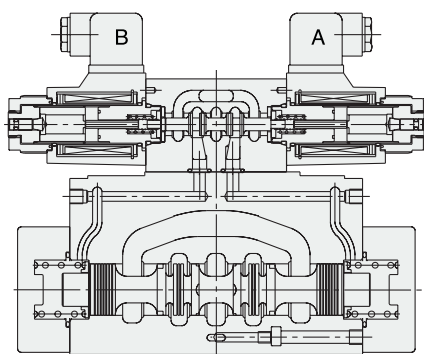
Maximum flow		300 l/min {79 GPM}
Maximum operating pressure		320 bar {4500 PSI}
Maximum permissible back pressure		160 bar {2285 PSI}
Pilot pressure		12~250bar
Ambient temperature range		-15°C~50°C
Hydraulic fluid temperature		-15°C~70°C
Viscosity range		15~400mm²/s
Hydraulic oil		ISO VG 32,46,68
Fluid cleanliness		NAS Class 9 MAX.
Maximum change over frequency		120 times/min
Mounting pattern		ISO 4401-AD-07-4-A
Weight (Valve with hydraulic operation)		7.3kg
Valve fixing screws	Matrix	M6x55L x2pcs.
		M10x50L x4pcs.
	Inch	1/4"~20UNCx2-1/4"L x2pcs
		3/8"~16UNCx2"L x4pcs
Tightening torque		12~15 Nm(M6)
		58~72 Nm(M10)



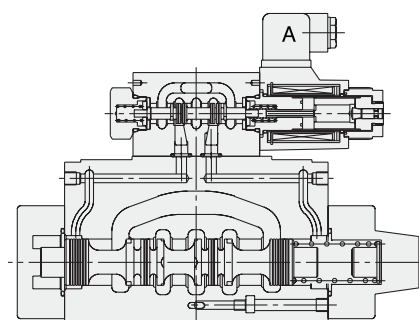
Graphic symbol :



Cross section diagram :



4WE16E53/G..NZ4




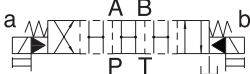

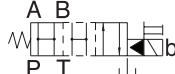







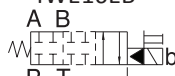

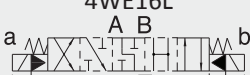

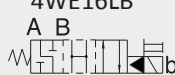






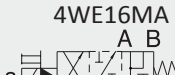
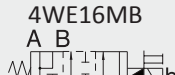

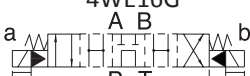
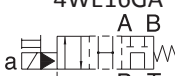
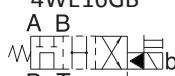



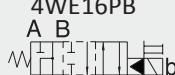





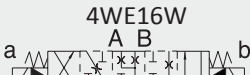
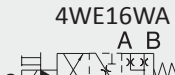
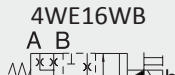
4WE16D53/G..NZ4

INTERNATIONAL VALVES - 4WE16

Solenoid Operated

Spool types :

Cetop 7

Position type at neutral	Double solenoid valves, spring centered -C-	Single solenoid valves, solenoid at port A end -B-	Single solenoid valves, solenoid at port B end -BL-
H 	4WE16H 	4WE16HA 	4WE16HB 
F 	4WE16F 	4WE16FA 	4WE16FB 
E 	4WE16E 	4WE16EA 	4WE16EB 
L 	4WE16L 	4WE16LA 	4WE16LB 
J 	4WE16J 	4WE16JA 	4WE16JB 
M 	4WE16M 	4WE16MA 	4WE16MB 
G 	4WE16G 	4WE16GA 	4WE16GB 
P 	4WE16P 	4WE16PA 	4WE16PB 
U 	4WE16U 	4WE16UA 	4WE16UB 
W 	4WE16W 	4WE16WA 	4WE16WB 

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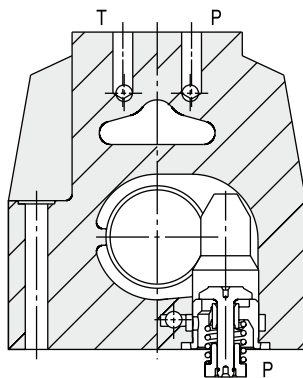
Solenoid Operated

Spool types :

Cetop 7

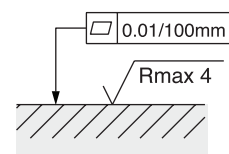
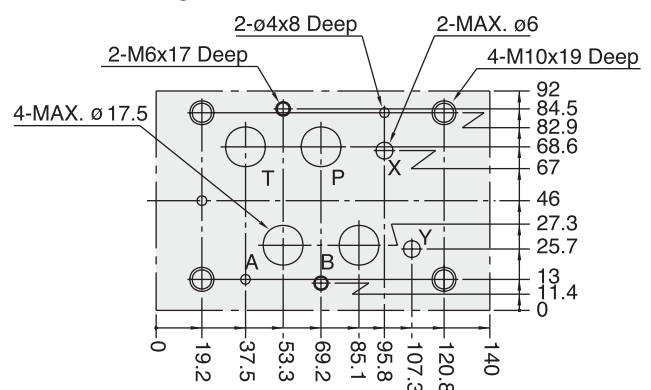
Position type at neutral	Single solenoid valves, solenoid at port A end -A-	Single solenoid valves, solenoid at port B end -AL-
C	4WE16C 	4WE16C
D	4WE16D 	4WE16DM
A	4WE16A 	4WE16AB
DJ	4WE16DJ 	4WE16DJB
DM	4WE16DM 	4WE16DMB

P port insert check valve drawing:



Installation dimensions :

Mounting Surface: ISO 4401-AD-07-4-A



Required surface
finish of mating piece
when fitting the valve
without subplate.

INTERNATIONAL VALVES - 4WE16

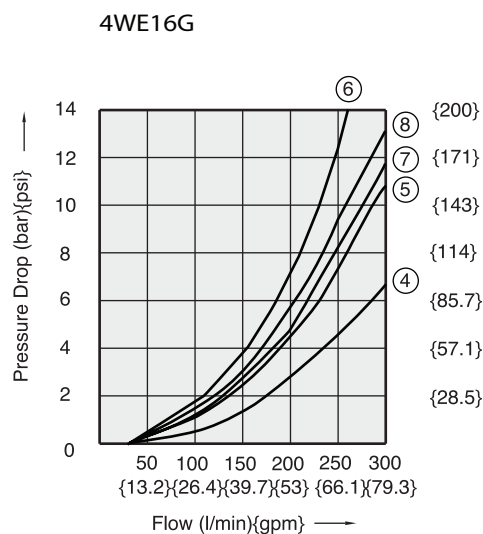
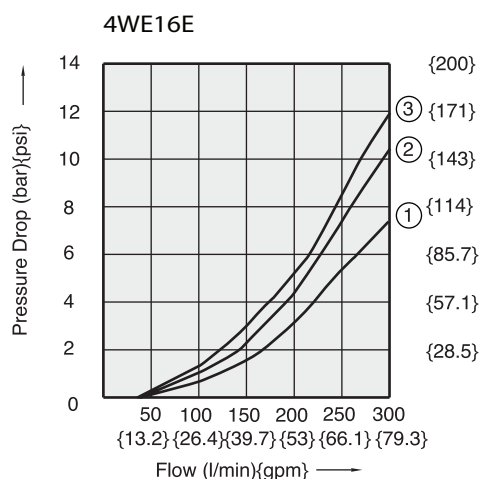
Directional Control Valve

Performance curves :

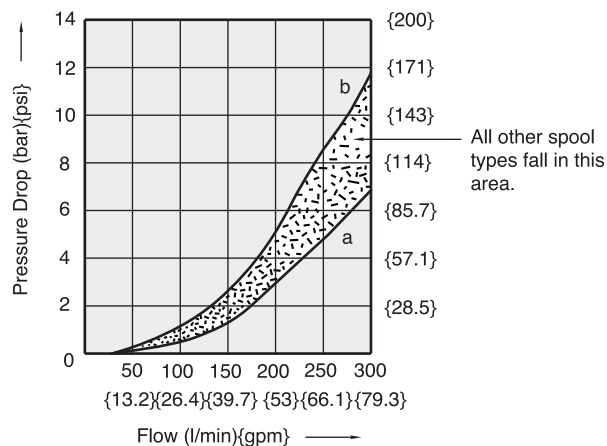
Cetop 7

(Viscosity of Hydraulic Fluid: 41 mm²/s)

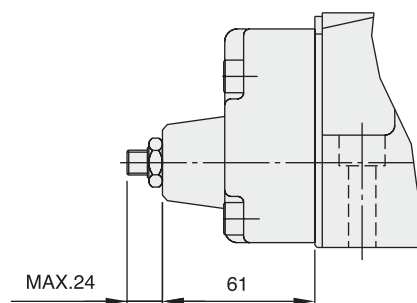
Spool Type	PRESSURE DROP CHARACTERISTICS				
	P→A	P→B	A→T	B→T	P→T
0C	a-b	a-b	a-b	a-b	a-b
1C	a-b	a-b	a-b	a-b	a-b
2C	1	1	2	3	-
3C	a-b	a-b	a-b	a-b	a-b
6C	a-b	a-b	a-b	a-b	a-b
7C	a-b	a-b	a-b	a-b	a-b
8C	4	5	7	8	6
11C	a-b	a-b	a-b	a-b	a-b
31C	a-b	a-b	a-b	a-b	a-b
33C	a-b	a-b	a-b	a-b	a-b
0A	a-b	a-b	a-b	a-b	a-b
2A	1	1	2	3	-



All other spools



Stroke adjustment option :



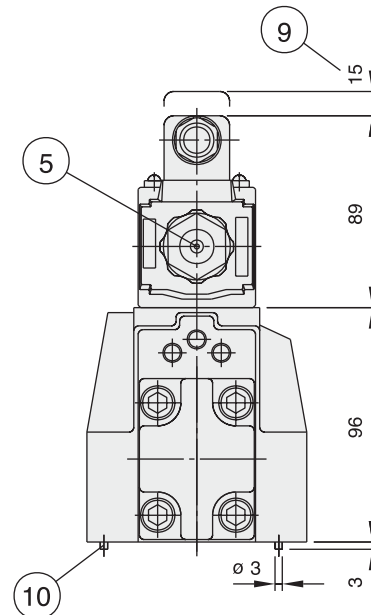
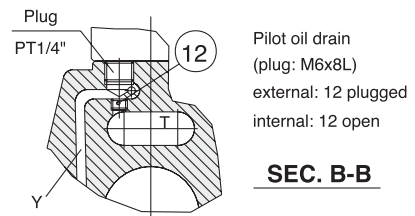
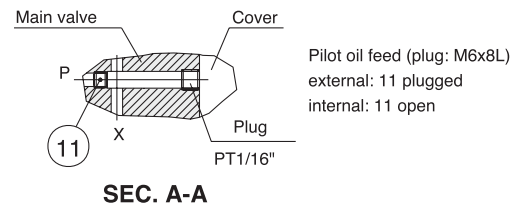
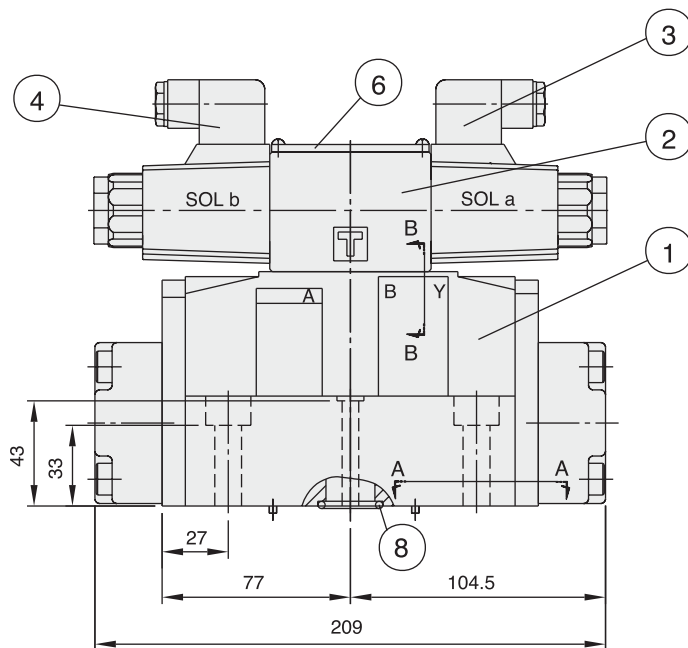
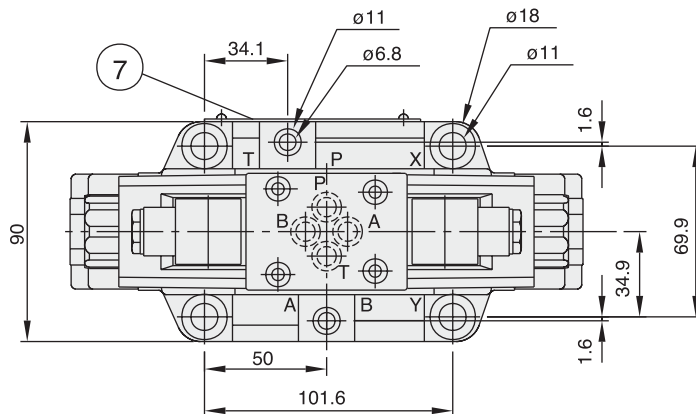
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Dimensions :

4WE16E



1: Main valve

2: Pilot valve

2-1. Pilot valve DG03-2A- * (1 solenoid) for main valves with spools *A, (3 position valve with solenoid on side a)

Pilot valve DG03-6B- * (1 solenoid) for main valves with spools *B, (3 position valve with solenoid on side a)

2-2. Pilot valve DG03-2AL- * (1 solenoid) for main valves with spools *AL, (3 position valve with solenoid on side b)

Pilot valve DG03-6BL- * (1 solenoid) for main valves with spools *BL, (3 position valve with solenoid on side b)

2-3. Pilot valve DG03-6C- * (2 solenoid) for main valves with 3 positions

3: Solenoid a, colour of plug: grey

4: Solenoid b, colour of plug: black

5: Push pin for manual operation

6: Nameplate for pilot valve

7: Nameplate for whole valve

8: O-ring: Ports A,B,P,T: AS568-118 (NBR, Hs90);
Ports X,Y: AS568-013 (NBR, Hs90)

9: Space required to remove plug

10: Locating pin

11: Pilot oil feed (P)

12: Pilot oil drain (T)

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Cetop 7

[illegible]