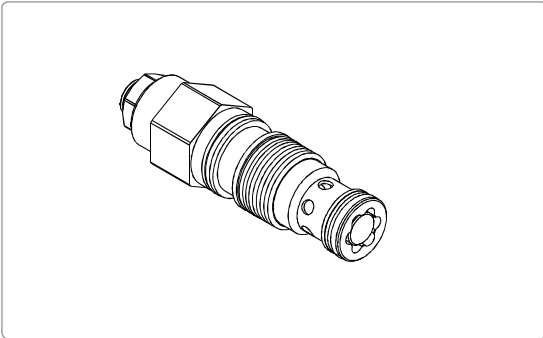


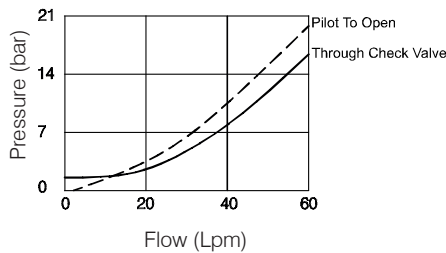
WCB-02 SERIES CARTRIDGE TYPE COUNTER BALANCE VALVES



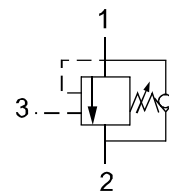
Specification

Model Number	Max. Pressure (bar)	Pilot Ratio	Adjustment Pressure	Max. Flow (lpm)	Weight (Kg)
WCB-02	350 (5076 psi)	1.5:1/2:1/2.3:1/3:1/4.5:1/10:1	•~350	60(15.85 gpm)	0.2 (0.44 lbs)
Fluid Type			ISO VG 32, 46, 68		
Viscosity cSt			10~400 (59~1854 SSU)		
Operating Temperature °C			-15~70 (-5~158°F)		
Contamination Level			ISO4406.21/19/16 NAS1638,10		

Performance



Control Port (S)



How To Order

1	2	3	4
WCB	02	- 10	- 3A

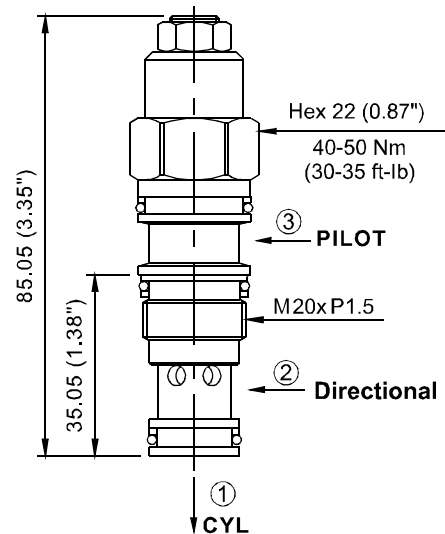
1 Valve Series
WCB=Overcentre Valve Pilot Assisted Relief With Check

2 Porting
02 :T-11A
Cavity □ :CST-2A

3 Adjustment Pressure

Check Spring Pressure 1.8 bar			Check Spring Pressure 0.3 bar		
Order	Adjustment pressure	Pilot ratio	Order	Adjustment pressure	Pilot ratio
06	•~60 (bar)	3:1	25	25~105 (bar)	1.5:1
10	25~105 (bar)	2:1			2:1
28	70~280(bar)	3:1	70	70~280(bar)	3:1
17	70~175(bar)	2.3:1	80	70~175(bar)	2.3:1
35	140~350(bar)	4.5:1			4.5:1
		10:1	14	140~350(bar)	10:1

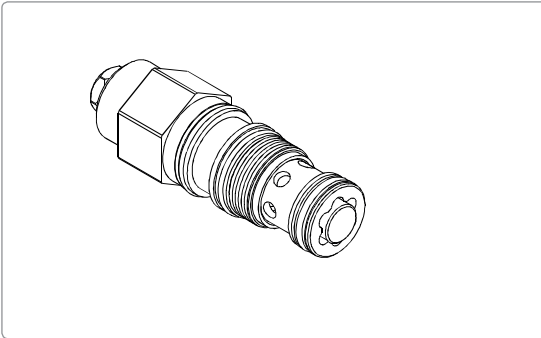
Dimensions



4 Pilot Ratio

- 1.5A : 1.5:1 (With sealed pilot)
- 2A : 2:1 (With bleed through pilot)
- 2.3A : 2.3:1 (With sealed pilot)
- 3A : 3:1 (With sealed pilot)
- 4A : 4.5:1 (With sealed pilot)
- 10A : 10:1 (With sealed pilot)

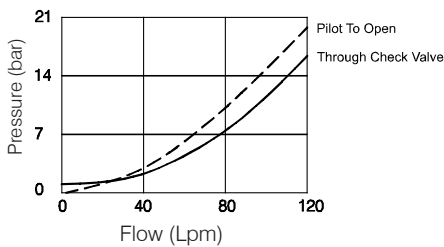
WCB-03 SERIES CARTRIDGE TYPE COUNTER BALANCE VALVES



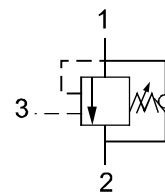
Specification

Model Number	Max. Pressure (bar)	Pilot Ratio	Adjustment Pressure	Max. Flow (lpm)	Weight (Kg)
WCB-03	350 (5076 psi)	1.5:1/2:1/2.3:1/3:1/4:5:1/10:1	•~350	120(31.70 gpm)	0.3 (0.68 lbs)
Fluid Type			ISO VG 32, 46, 68		
Viscosity cSt			10~400 (59~1854 SSU)		
Operating Temperature°C			-15~70 (-5~158°F)		
Contamination Level			ISO4406.21/19/16 NAS1638,10		

Performance



Control Port (S)



How To Order

1	2	3	4
WCB	03	- 10	- 3A

1 Valve Series
WCB=Overcentre Valve Pilot Assisted Relief With Check

2 Porting
03 :T-2A
Cavity □ :CST-2A

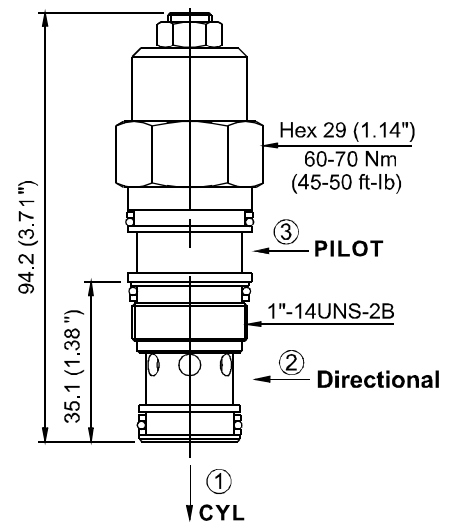
3 Adjustment Pressure

Check Spring Pressure 1.8 bar			Check Spring Pressure 0.3 bar		
Order	Adjustment pressure	Pilot ratio	Order	Adjustment pressure	Pilot ratio
06	•~80 (bar)	3:1	25	25~105 (bar)	1.5:1
10	25~105 (bar)	2:1			2:1
28	70~280(bar)	3:1	70	70~280(bar)	3:1
17	70~175(bar)	2.3:1	80	70~175(bar)	2.3:1
35	140~350(bar)	4.5:1	14	140~350(bar)	4.5:1
		10:1			10:1

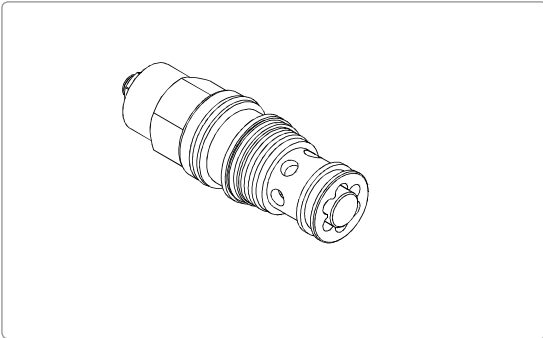
4 Pilot Ratio

- 1.5A : 1.5:1 (With sealed pilot)
- 2A : 2:1 (With bleed through pilot)
- 2.3A : 2.3:1 (With sealed pilot)
- 3A : 3:1 (With sealed pilot)
- 4A : 4.5:1 (With sealed pilot)
- 10A : 10:1 (With sealed pilot)

Dimensions



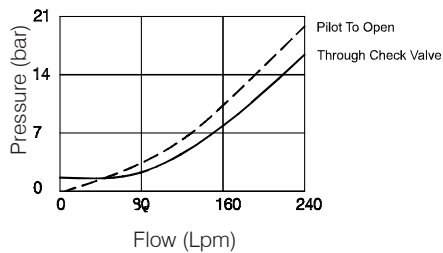
WCB-06 SERIES CARTRIDGE TYPE COUNTER BALANCE VALVES



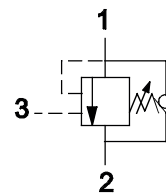
Specification

Model Number	Max. Pressure (bar)	Pilot Ratio	Adjustment Pressure	Max. Flow (lpm)	Weight (Kg)
WCB-10	350 (5076 psi)	1.5:1/2:1/2.3:1/3:1/4:5:1/10:1	•~350	480(105.58 gpm)	1.6 (3.53 lbs)
Fluid Type			ISO VG 32, 46, 68		
Viscosity cSt			10~400 (59~1854 SSU)		
Operating Temperature°C			-15~70 (-5~158°F)		
Contamination Level			ISO4406.21/19/16 NAS1638,10		

Performance



Control Port (S)



How To Order

1	2	3	4	5
WCB	06	10	3A	*

1 Valve Series
WCB=Overcentre Valve Pilot Assisted Relief With Check

2 Porting
06 :T-17A
Cavity □ :CST-17zA

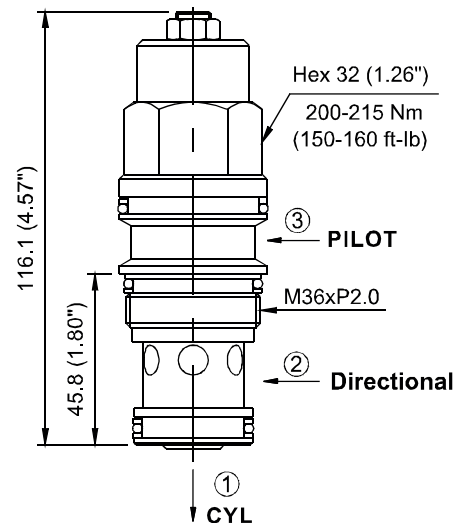
3 Adjustment Pressure

Check Spring Pressure 1.8 bar			Check Spring Pressure 0.3 bar		
Order	Adjustment pressure	Pilot ratio	Order	Adjustment pressure	Pilot ratio
10	25~105 (bar)	1.5:1	25	25~105 (bar)	1.5:1
28	70~280(bar)	3:1	70	70~280(bar)	3:1
17	70~175(bar)	2.3:1	80	70~175(bar)	2.3:1
35	140~350(bar)	4.5:1	14	140~350(bar)	4.5:1
		10:1			10:1

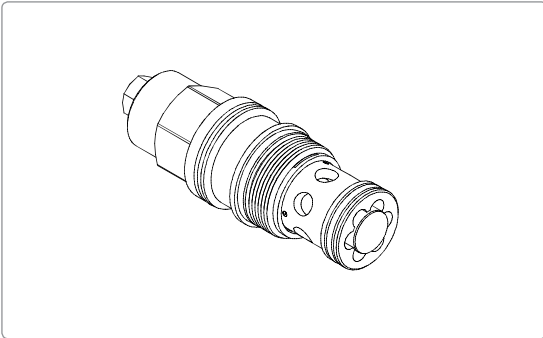
4 Pilot Ratio

- 1.5A : 1.5:1 (With sealed pilot)
- 2.3A : 2.3:1 (With sealed pilot)
- 3A : 3:1 (With sealed pilot)
- 4A : 4.5:1 (With sealed pilot)
- 10A : 10:1 (With sealed pilot)

Dimensions



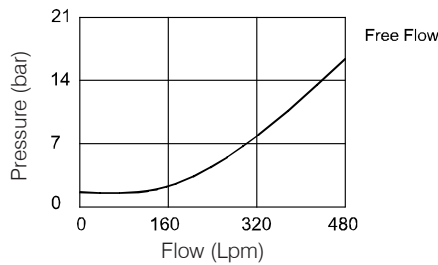
WCB-10 SERIES CARTRIDGE TYPE COUNTER BALANCE VALVES



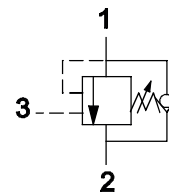
Specification

Model Number	Max. Pressure (bar)	Pilot Ratio	Adjustment Pressure	Max. Flow (lpm)	Weight (Kg)
WCB-10	350 (5076 psi)	1.5:1/2:1/2.3:1/3:1/4.5:1/10:1	•~350	480(105.58 gpm)	1.6 (3.53 lbs)
Fluid Type			ISO VG 32, 46, 68		
Viscosity cSt			10~400 (59~1854 SSU)		
Operating Temperature°C			-15~70 (-5~158°F)		
Contamination Level			ISO4406.21/19/16 NAS1638,10		

Performance



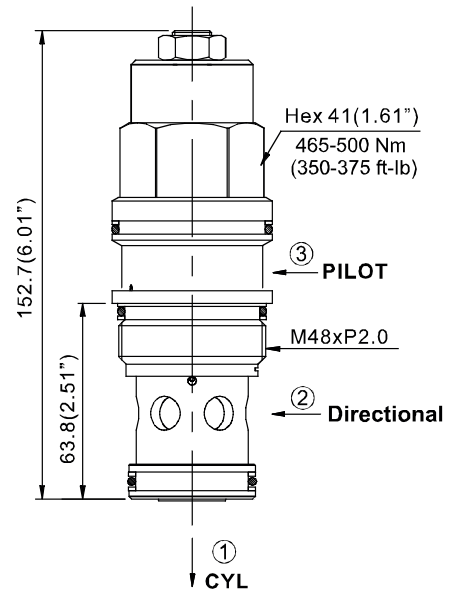
Control Port (S)



How To Order

1	2	3	4	5
WCB	10	10	3A	*

Dimensions



1 Valve Series

WCB=Overcentre Valve Pilot Assisted Relief With Check

2 Porting

10 :T-19A
Cavity □ :CST-19A

3 Adjustment Pressure

Check Spring Pressure 1.8 bar			Check Spring Pressure 0.3 bar		
Order	Adjustment pressure	Pilot ratio	Order	Adjustment pressure	Pilot ratio
10	25~105 (bar)	1.5:1	25	25~105 (bar)	1.5:1
28	70~280(bar)	3:1	70	70~280(bar)	3:1
17	70~175(bar)	2.3:1	80	70~175(bar)	2.3:1
35	140~350(bar)	4.5:1	14	140~350(bar)	4.5:1
		10:1			10:1

4 Pilot Ratio

1.5A : 1.5:1 (With sealed pilot)
2.3A : 2.3:1 (With sealed pilot)
3A : 3:1 (With sealed pilot)
4A : 4.5:1 (With sealed pilot)
10A : 10:1 (With sealed pilot)

5 Adjustment Option

NONE	NONE:TOOL ADJUST
C	C:TAMPER RESITANT COVER