





RELIABILITY FROM QUALITY



Page 4	General Information
Page 5	Technical Data
Page 6-8	Spool Options
Page 9	Main Relief Valves and Secondary Valves
Page 10-11	Spool Controls
Page 12	Performance Curves
Page 13	Assembly Dimensions
Page 14	Accessories
Page 15	Order Code





The CV 126 open valve is a parallel circuit valve which is designed to operate in open center hydraulic systems up to pressures of 320 bar (4600 psi) and flow rates of up to 50 l/min (13 USgpm).

The CV 126 on demand LS version is a valve which is designed to operate with a variable pump and in a closed center system up to a pressure of 320 bar (4600 psi) and flow rates up to 50 l/min (13 USgpm).

The CV 126 valve serie offers the OEM the selection of a number of spools for optimal spool control at any load as well as a wide range of spool controls for different applications.

Some of the CV 126's main advantages are:

- 6 sections in a monoblock configuration
- · Load check valves for each section
- Open & closed center option
- · Direct acting main relief valve for fast response time
- Power Beyond capability
- Available with 4th position float spool
- Available with 4th position regenerative spool
- Direct acting joysticks with integrated 4th position for both float and regenerative functions

The CV 126 valve can be equipped with the following differential or pilot operated relief valve functions:

- · Main relief valve
- · Cylinder port relief valve
- Combined cylinder port relief and anti-cavitation valve

BSP and SAE threads are standard and the following threads can be supplied upon request:

- Metric
- NPTF (SAE>NPT adaptor)

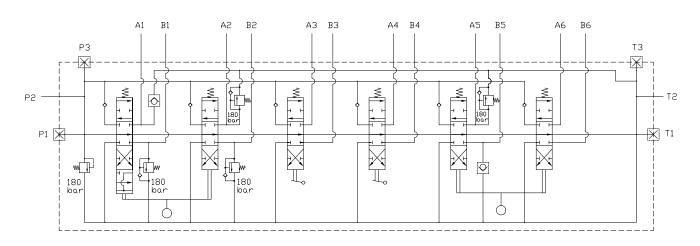


Max pressure setting	bar	psi
Main relief valve	320	4600
Tank Line	10	145
Flow rates	lpm	USgpm
Max flow A/B	50	13
Temperature range	°C	°F
Standard seals	-40 to +80	-40 to +176
Spool leakage at	cm³/min	inch³/min
100 bar (1450 psi) and 46mm²/s (cSt) 216 SSU viscosity A and B port	2	0.12
Filtration		
Contamination level equal to or better then	19/16 according to ISO 4406	NAS 1638-class 10
Viscosity	mm²/s (cSt)	SSU
Recommended operating		
viscosity range	10-400	47 - 1875
Start viscosity up to	1000	4687
Weight	kg	lbs
CV 126	14	31
Operating force required for spool movement	N	lbf
Spring centered	130	29
Detent in	230	52
Detent out	200	45
Number of work sections	6	



SPOOL FOR OPEN CENTERED VALVES

Part No.	Spool type	Туре	Symbol	SP-No.
10709-3B	18	DA with metering	A B P T	SP-10709-3B
10573-3B	2SA	Single acting A port with metering	A B T T T T T T T T T T T T T T T T T T	SP-10573-3B
10574-3B	2XA	Single acting A port	A B B T T T T T T T T T T T T T T T T T	SP-10574-3B
10309-3B	3X	DA + float	A B T	SP-10309-3B
10308-3B	3S	DA + float with metering	A B T	SP-10308-3B
10307-3B	3R	DA + float with metering	A B T T T T T T T T T T T T T T T T T T	SP-10307-3B
10575-3B	4X	Motor spool	A B	SP-10575-3B
10576-3B	4S	Motor spool with metering	A B	SP-10576-3B
10310-3B	8R	DA + regen with metering	A B T T T T T T T T T T T T T T T T T T	SP-10310-3B
10311-3B	8S	DA + regen with metering	A B T T T T T T T T T T T T T T T T T T	SP-10311-3B



Open Center



SPOOLS FOR LOAD SENSING OPTION

Part No.	Spool type	Туре	Symbol	SP-No.
11590-3B	1SLS	DA with metering	A B T	SP-11590-3B
10577-3B	2RALS	Single acting with metering	A B T T T T T T T T T T T T T T T T T T	SP-10577-3B
10578-3B	2SALS	Single acting with metering	A B T T T T T T T T T T T T T T T T T T	SP-10578-3B
10548-3B	3RLS	DA + float with metering	A B T	SP-10548-3B
10549-3B	3SLS	DA + float with metering	A B T	SP-10549-3B
10551-3B	8SLS	DA + regen with metering	A B T	SP-10551-3B
10550-3B	8RLS	DA + regen with metering	A B T T T T	SP-10550-3B

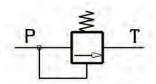
STANDARD THREADS

	Port sizes	BSP	UNF	Metric
	P1	G ¾	³ ⁄ ₄ -16 (SAE 8)	M18x1.5
Inlet	P2	G ¾	³ ⁄ ₄ -16 (SAE 8)	M18x1.5
	P3	G 3/8	³ / ₄ -16 (SAE 8)	M18x1.5
Cylinder ports	A-B	G ¾	⁹ /16-18 (SAE 6)	M16x1.5
	T1	G ½	%-14 (SAE 10)	M22x1.5
Tank	T2	G 3/8	³ / ₄ -16 (SAE 8)	M18x1.5
	T3	G 3/8	³ / ₄ -16 (SAE 8)	M18x1.5



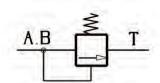
Code	Туре	A-side	B-side	Туре	Code
9	Spring centered.	30.1 [1.19]	M8x1,25		
10	Detent in pos.1,2 and 3	##- ##=	15 S S S S S S S S S S S S S S S S S S S	Hand lever. Encased	S 5
11	Spring centered. Detent in pos.4	50.8 [2.00]	52 [2.08]		
12	Spring centered. Detent in pos. 3 and 4			Mechanical joystick for dual-spool control.	
14	Spring centered. Detent in pos.3			A A	S6
13	Spring centered. Detent in pos.2	45.8 [1.80]		A A	
18	Spring centered. Pressure point in pos.5		[3.23]	Wire control	
5	Spring centered. Detent in position 2 and 4	59 [2.32]	98 [3.86]		W
P	Pneumatic on/off		For different Joystick co	-	oat and
PP	Pneumatic proportional	10 2 881	and the second position of the second positio		
EP	Electropneumatic on/off. 12V/270mA alt. 24V/150mA. Hirschmann connector is standard. Other connectors are available on request.	23 33.6 8.71 [132]			





Main relief valve. Differential operated relief valve for the main circuit. Fixed pressure setting.

Order code: RV+pressure setting

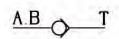


Cylinder port mounted secondary valves.

Relief valve. Differential operated port relief valve preventing pressure peaks. Fixed pressure setting.

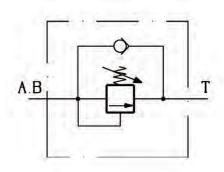
All cylinder port valves are mounted on the opposite side of the port used.

Order code: C+pressure setting



Anti-cavitation valve. Check valve used to level negative pressures that can occur in the cylinder ports.

Order code: A



Relief anti-cavitation valve. Works as both port relief and anti-cavitation valve.

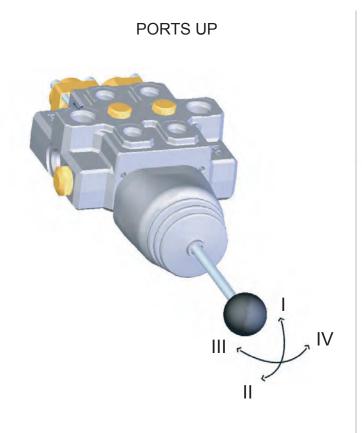
Graphs valid for 25 mm²/s (cSt) (117 SSU) and 70 ba (1000 psi)

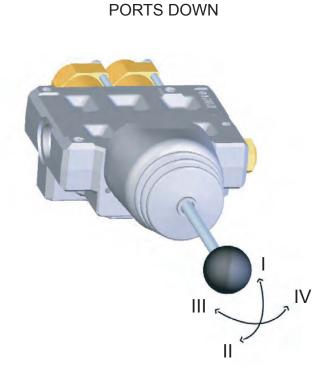
Order code: CA+pressure setting

SPOOL CONTROLS



JOYSTICK SPECIFICATION - HORIZONTAL MOUNTING



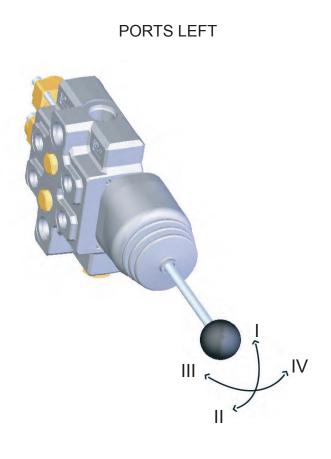


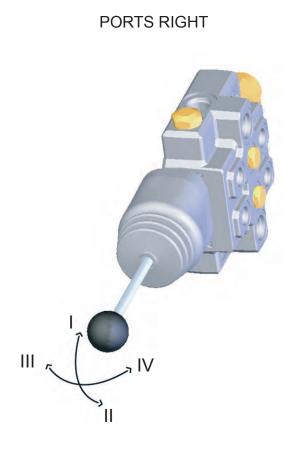
1. Check port/hose orientation	2. Fill in functions (handwrite)	3. Valve mounting holes
Ports up	Lift	Through casting holes
Ports down	Lower	Threaded bottom holes
	Float	
	Curl in	
	Curl out	
	Regen	
	Please fill in corresponding Roman nu	ımerals





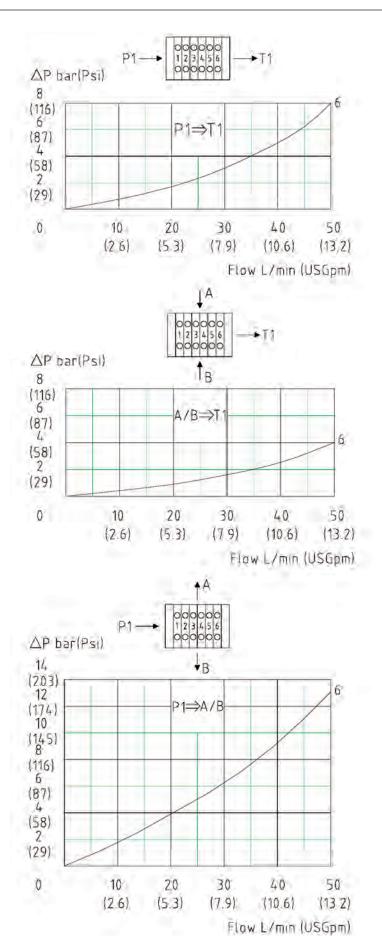
JOYSTICK SPECIFICATION - VERTICAL MOUNTING





1. Check port/hose orientation	2. Fill in functions (handwrite)	3. Valve mounting holes
Ports left	Lift	Through casting holes
Ports right	Lower	Threaded bottom holes
	Float	
	Curl in	
	Curl out	
	Regen	
	Please fill in corresponding Roman nu	ımerals

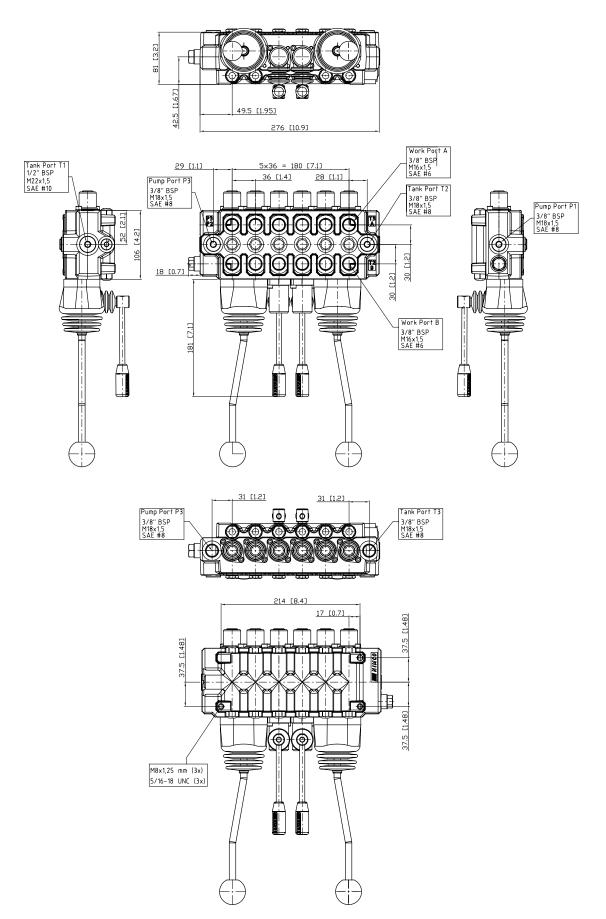




ASSEMBLY DIMENSIONS



VALVE WITH A COMBINATION OF MECHANICAL JOYSTICK AND ENCASED HAND LEVER

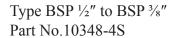


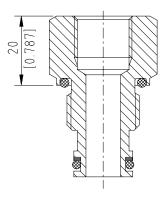


High pressure carry-over adapter, should be installed in the T1-port when two or more valves are used in the same circuit. T2 must then be connected to tank

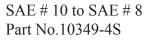
Tank port reduction adapter, can be installed in the T1-port when the thread size is to be reduced.

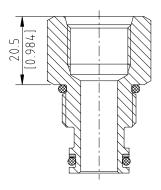
Part No.10534-4S





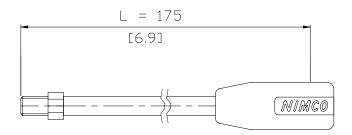
Part No.10536-4S





Lever

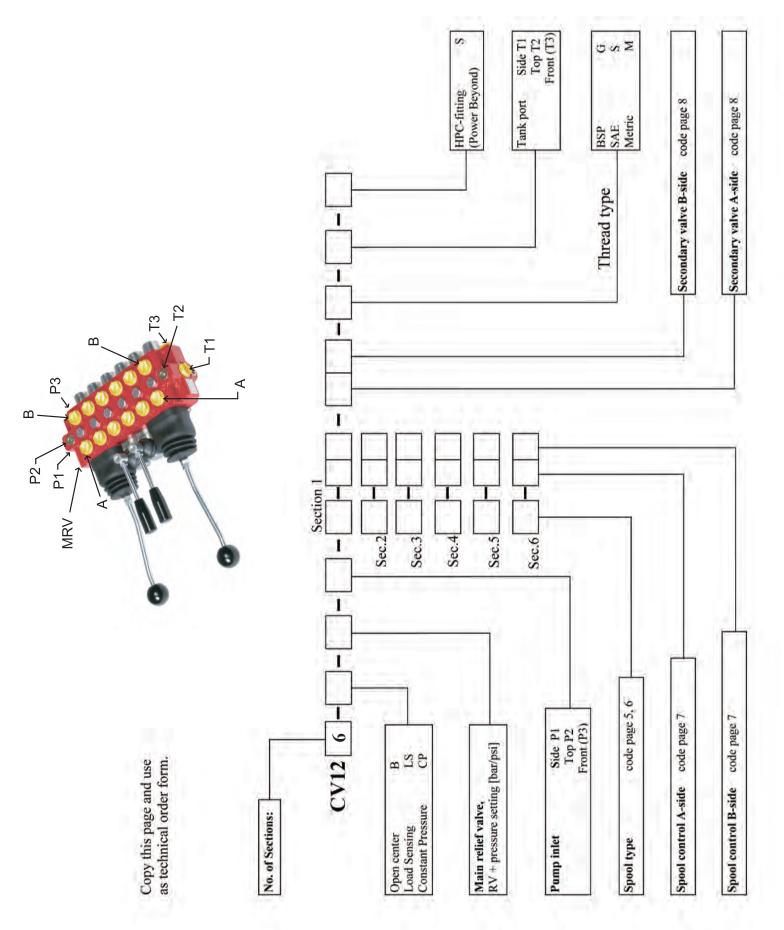
Standard lever:



Part No. 10347-4S

Other lengths on request.





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