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The CV 152 is a two spool mono block valve specially designed for small and mid size loader applications. It is designed for both open center and load sensing hydraulic systems. The open center version can also be converted to a constant pressure system.

The valve can also be serial connected to another valve by using a high pressure carry over adaptor (Power Beyond Sleeve).

The CV 152 can be equipped with standard hand levers, cable controls, or a mechanical joystick fitted directly onto the valve.

The valve can be ordered with cylinder port threads up to G $\frac{1}{2}$ " or SAE 10 and Pump and Tank ports up to G $\frac{1}{2}$ " and SAE 10 and 12.

This loader valve is designed for a maximum working pressure of 320 bar (4600 psi), with a recommended flow of 5-70 l/min (1.3-18 US gpm).

The CV 152 is designed to offer its user optimized characteristics in regards to load control, safety and minimum internal leakage.

This valve includes the following as standard features:

- Load Check Valves on each Spool.
- Exceptionally Low Workport Leakage (less than 2.0 cc/min, 0.12 in³/min at 46 cSt)
- Direct-acting Main Relief Valve for fast response.
- Double Acting Spools.
- Internal O-rings to withstand full system back-pressure.

The CV 152 valve can be ordered with the following optimal features:

- · Power Beyond Adaptor.
- Double Acting Spool with 4th position Float for the lowering circuit.
- Double Acting Spool with 5th position Regen Function for increased bucket speed.
- Heavy Duty Direct Acting Joystick which activates both float and regen functions simultaneously.
- Cable Control with accompanying Remote Control Joystick Unit and Cables.
- Quick Disconnect Coupling System QDC-152.

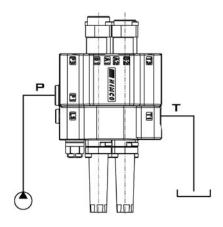


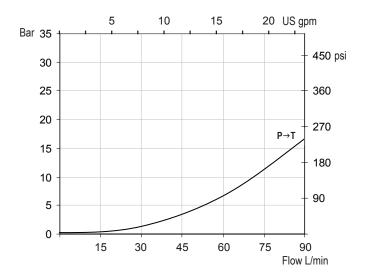
bar	psi
320	4600
10	145
l/min	US gpm
70	18
° C	°F
-40 to +80	-40 to +176
-40 to +100	-40 to 212
cm³/min	inch³/min
2.0	0.12
19/16 according to ISO 4406	NAS 1638-class 10
mm²/s	cSt
10-400	47 - 1875
0	2
	320 10 I/min 70 • C -40 to +80 -40 to +100 cm³/min 2.0 19/16 according to ISO 4406 mm²/s

PERFORMANCE CURVES

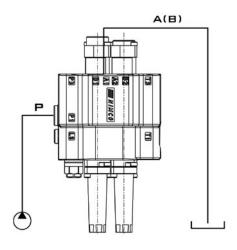


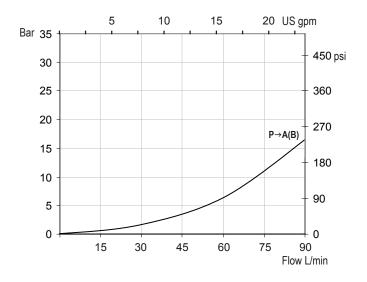
PRESSURE DROP P→T



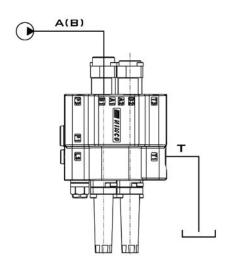


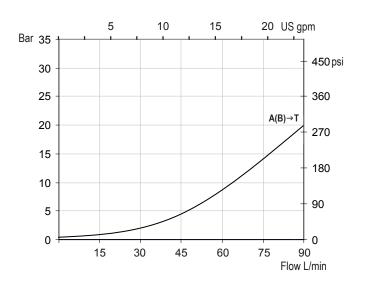
PRESSURE DROP P→A(B)





PRESSURE DROP A(B)→T



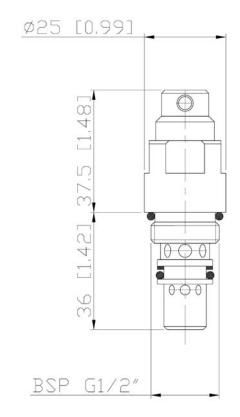


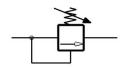
MAIN RELIEF VALVE



ADJUSTABLE

MRVXXX - A Pressure setting (bar) ______ Adjustable

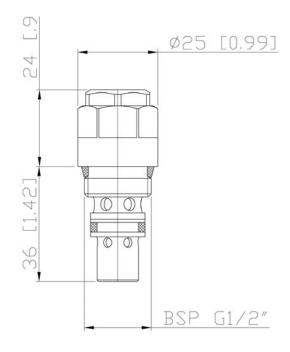


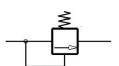


Part No. 11506-3S

FIXED AND SEALED



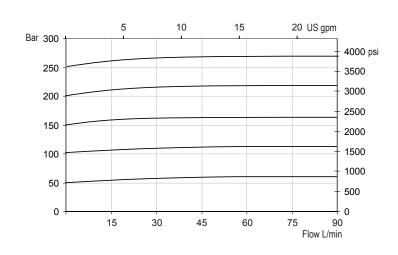




Part No. 5501-4S

TECHNICAL DATA

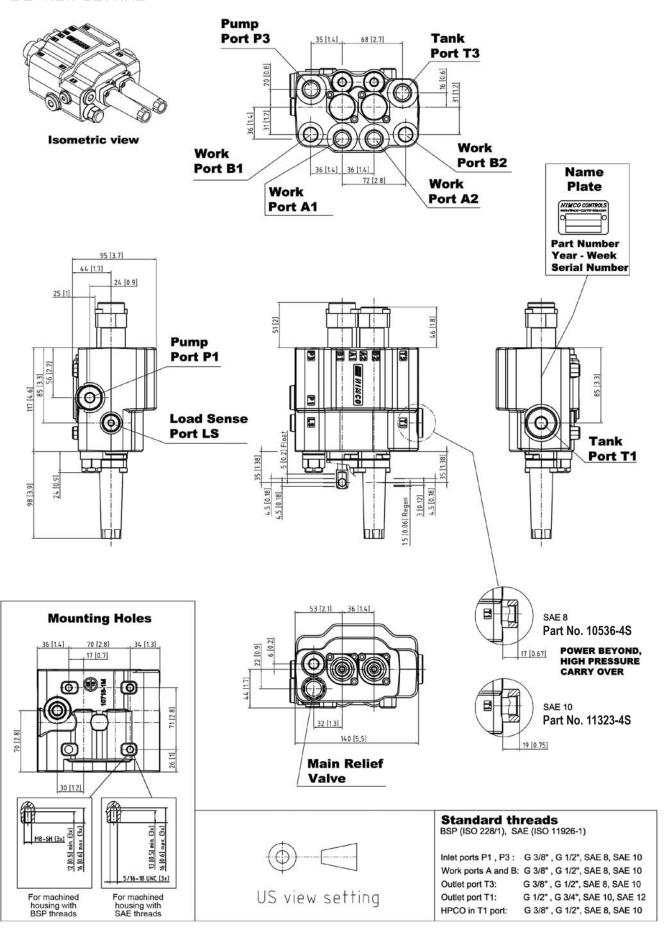
Max. flow L/min.	80	
Max. pressure bar	350	
Weight kg	0,1	
Temperature range	-40 to +95° C	
Viscosity	10 - 1000 cSt	
Filtration	ISO 19/15	
	50 μm abs.	



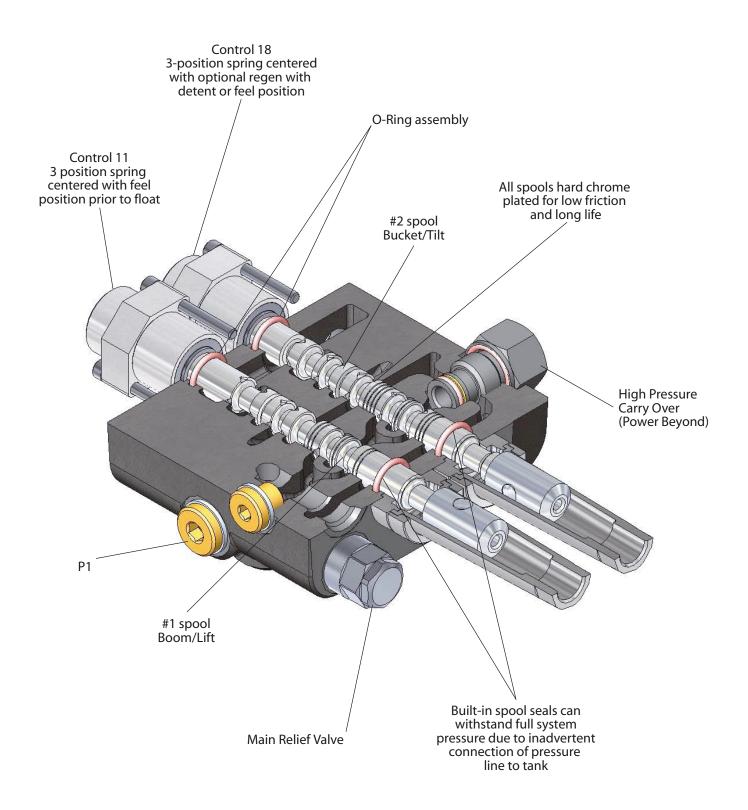
CV 152 WITH CABLE CONTROL



US VIEW SETTING

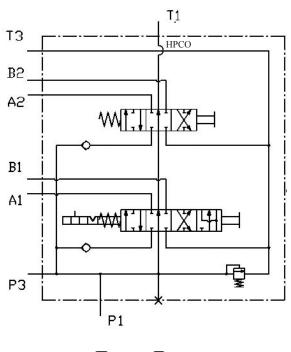








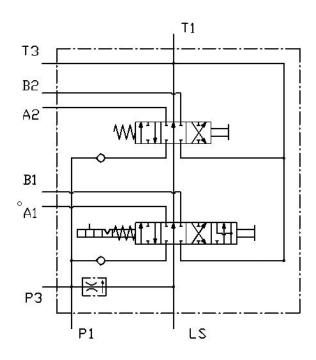
CV152B-RV150-P3-3T.11.3W- 3T.9.3W-S-T3-G



OPEN CENTER

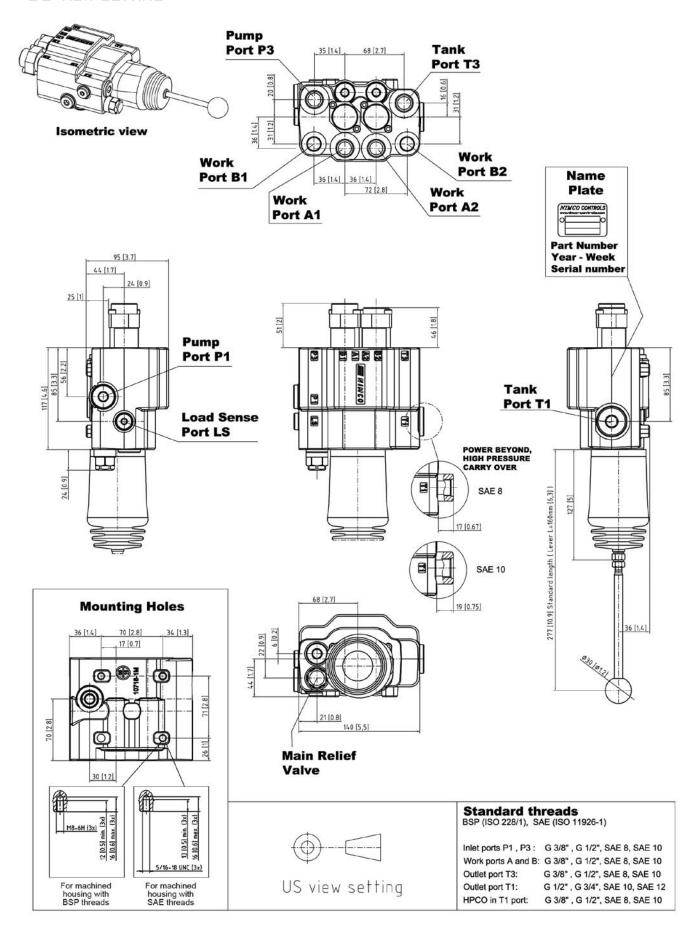
CV 152LS WITH CABLE CONTROL

CV152LS-P3-3TLS.11.3W-3TLS.9.3W-T3-G

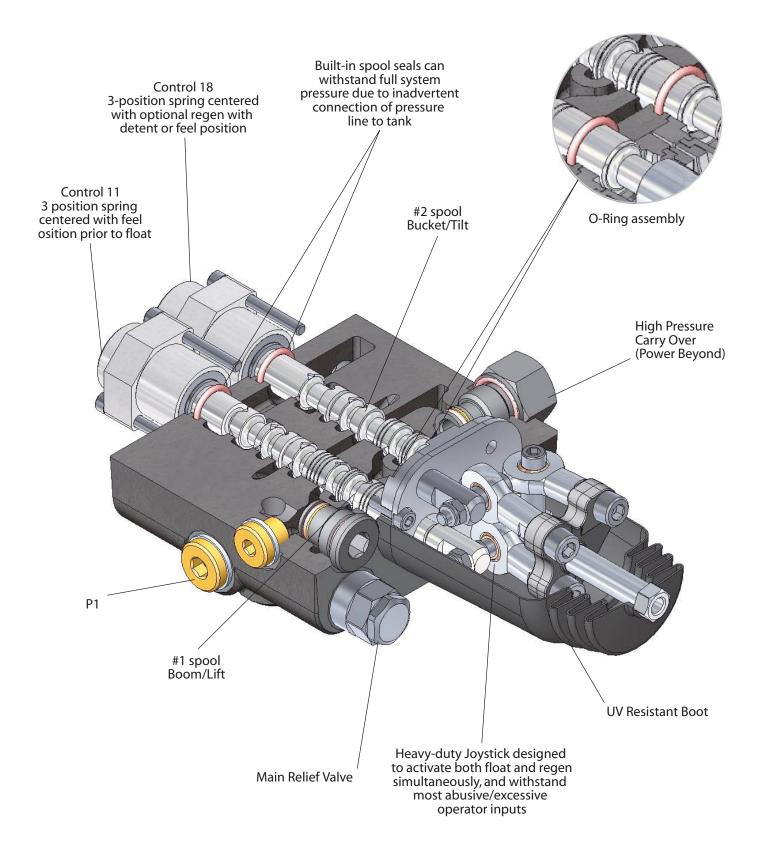


CLOSED CENTER

US VIEW SETTING

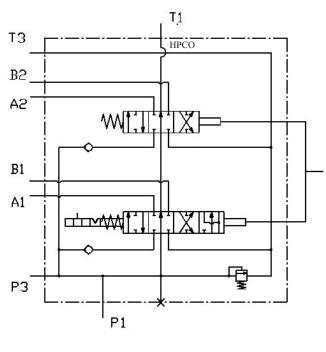








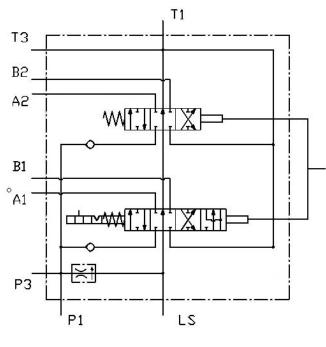
CV152B-RV150-P3-3T.11.S6-3T.9.S6-S-T3-G



OPEN CENTER

CV152LS WITH JOYSTICK

CV152LS-P3-3TLS.11.S6-3TLS.9.S6-T3-G



CLOSED CENTER

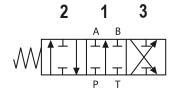


SPOOL FOR OPEN CENTERED VALVE

GENERAL SPOOL FUNCTION POSITIONS

\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\mathbb{A}	5	2	1	3	4
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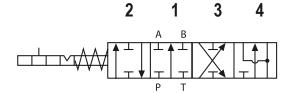
DOUBLE ACTING



When spool 3T is used in combination with spool control 9 then the allowed travel of the spool is limited to 3 positions and the spool operates as a standard double acting function.

Order code: 3T

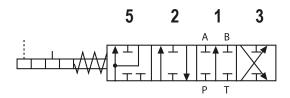
DOUBLE ACTING WITH 4TH POSITION FLOAT (DETENT)



When spool 3T is used in combination with spool control 11 (spring centered and 4 th position Float) then the spool travels from position 1 to position 3 and also into 4th position Float which is detented.

Order code: 3T

DOUBLE ACTING WITH REGEN FUNCTION (PRESSURE POINT)



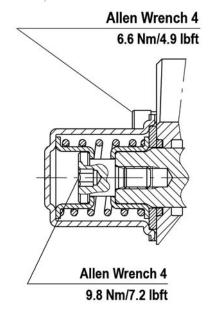
Spool 8T has an integrated regen function and can be used in combination with control 18 which has a feel position prior to spool position 5 indicating that the regen position has been reached.

Order code: 8T

SPOOL CONTROLS A-SIDE



SPOOL CONTROL 9, SPRING CENTERED

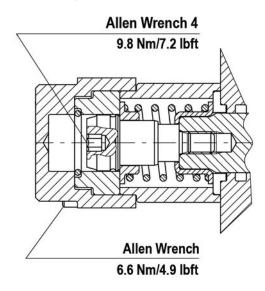


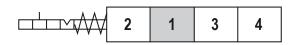
√√√ 2 1 3

Part No. 10724-4S

Order code: 9

SPOOL CONTROL 11, SPRING CENTERED AND DETENT IN POSITION 4

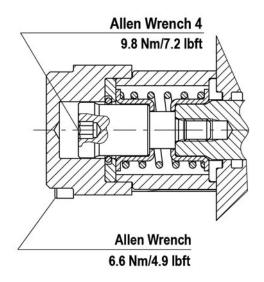




Part No. 10725-4S

Order code: 11

SPOOL CONTROL 18, SPRING CENTERED AND PRESSURE POINT IN POSITION 5





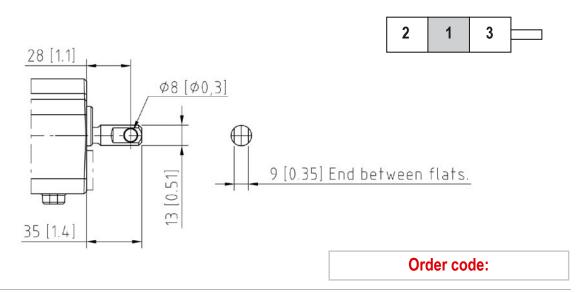
Part No. 10726-4S

Order code: 18

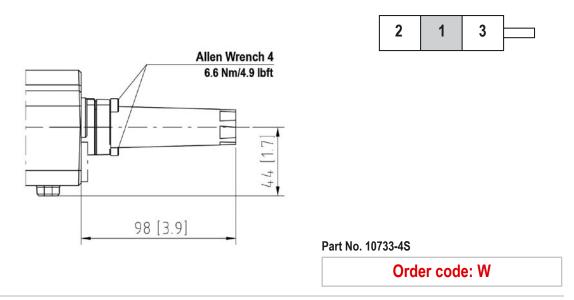
SPOOL CONTROLS B-SIDE



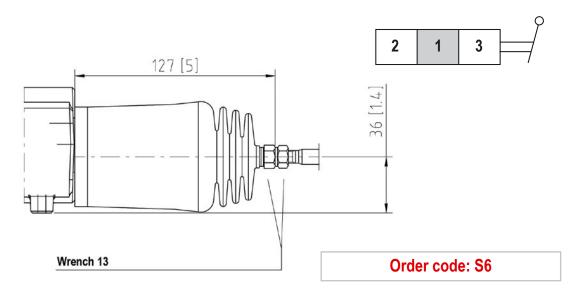
OPEN END SPOOL



CABLE CONTROL

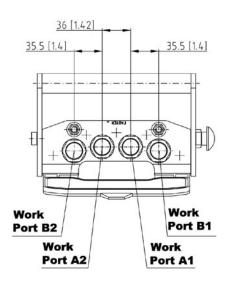


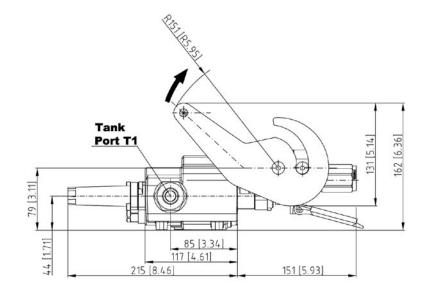
JOYSTICK, LEFT HAND AND RIGHT HAND VERSIONS

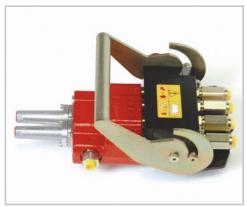


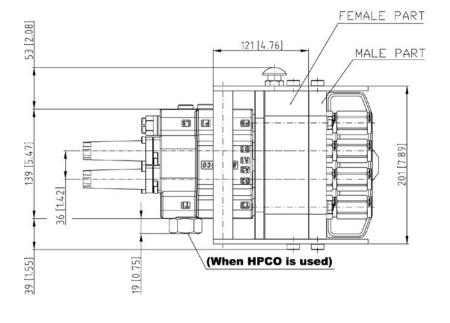
CV152 WITH QUICK-COUPLING





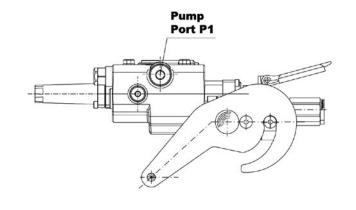




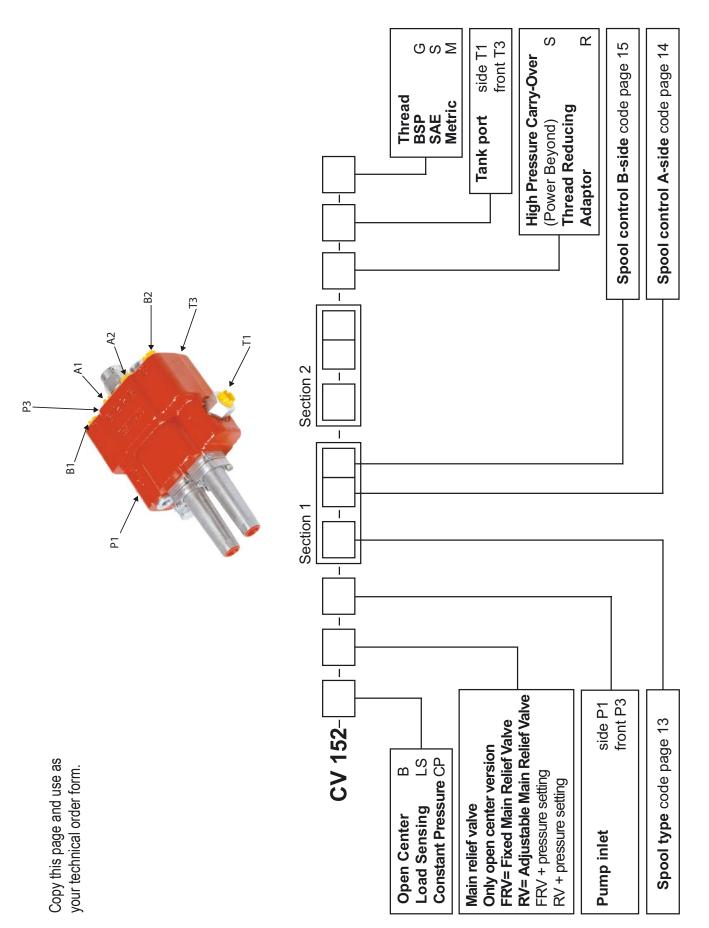












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