



LEVER OPERATED PRESSURE HOLDING D.C.V. DLS20

ENGINEERING

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Ref. No. P05150
Release 06/2005

Description

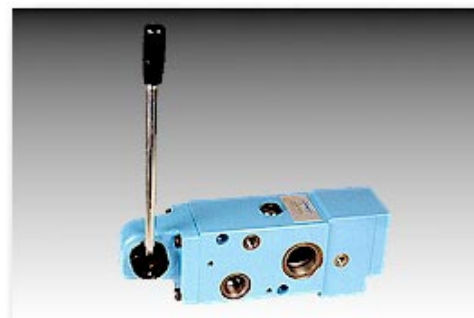
Designed for single acting cylinders which are supposed to hold pressure.

Ensures smooth decompression prior to return of the cylinder ram.

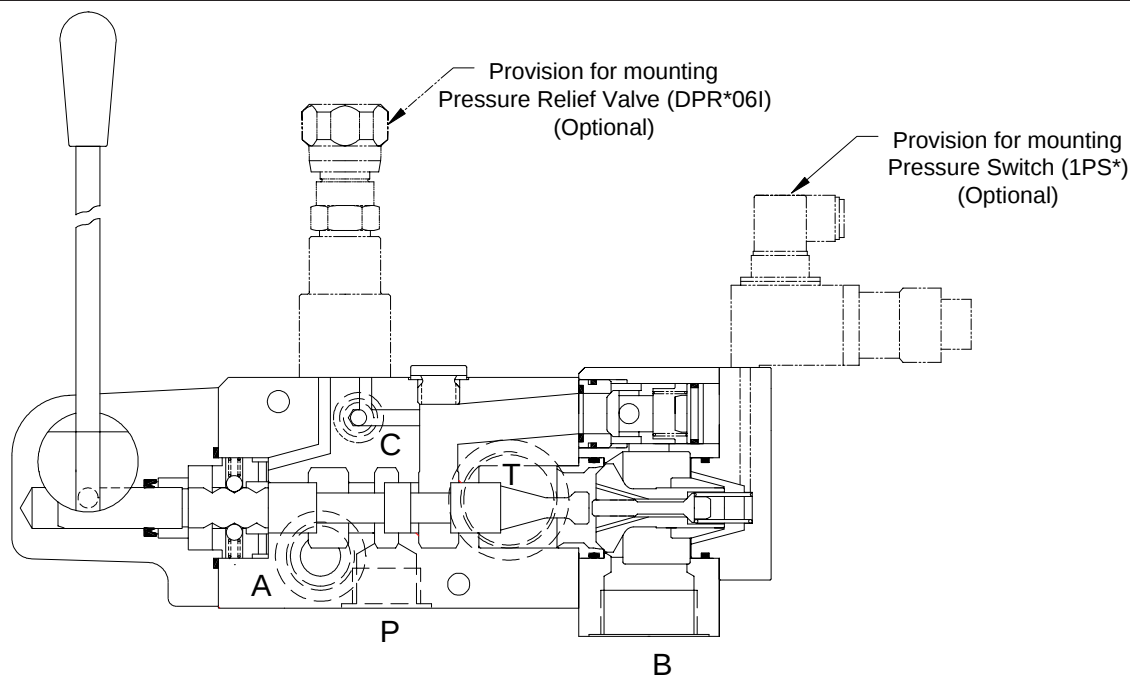
Large return oil passage to reduce pressure drops, allowing rams to return under low external forces.

Valves with Quick Exhaust feature has larger return passages. They are meant for rams having either very low retractive forces or must return rapidly under normal forces.

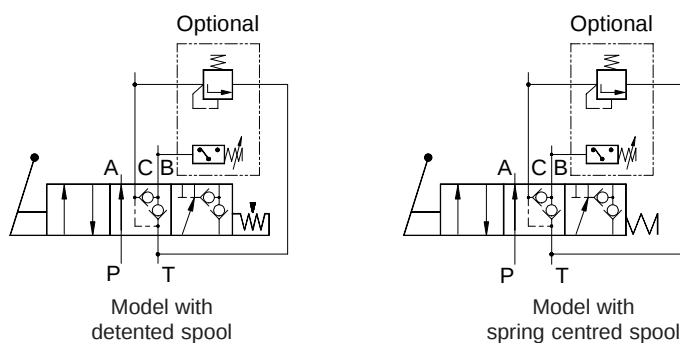
Valves can be connected in series for independent multiple single acting cylinder operations.



Section



Hydraulic Symbol



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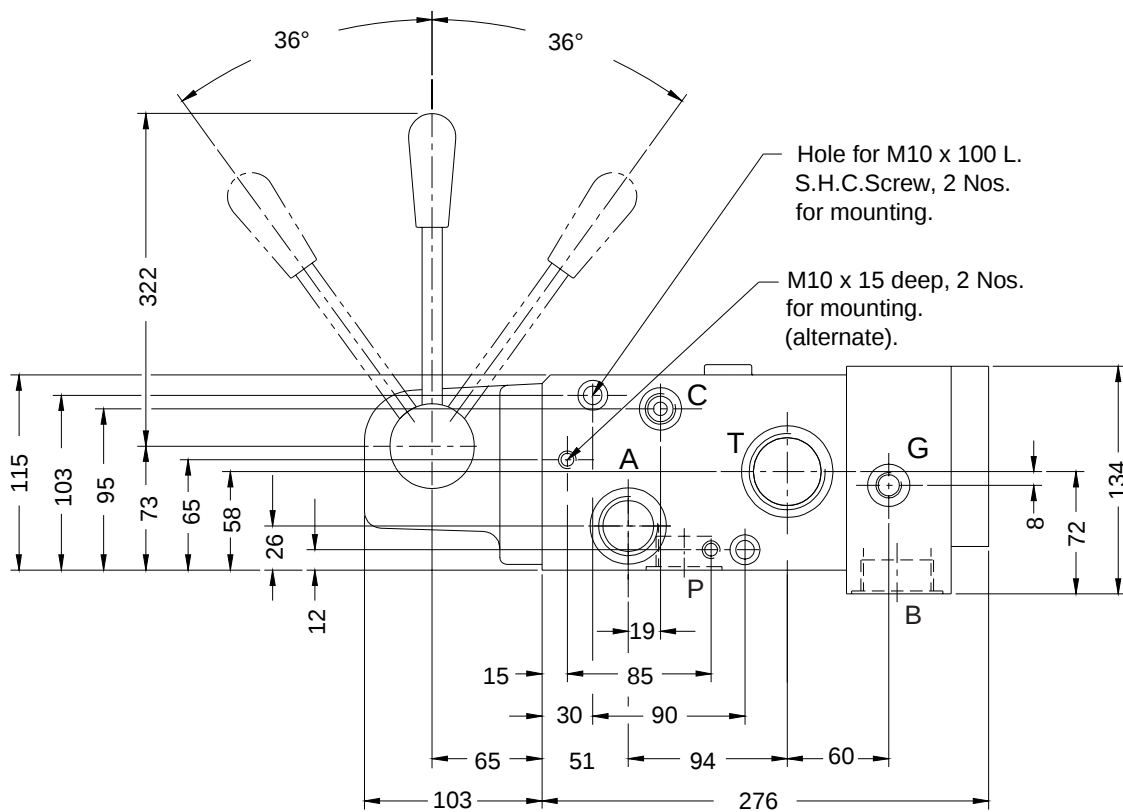
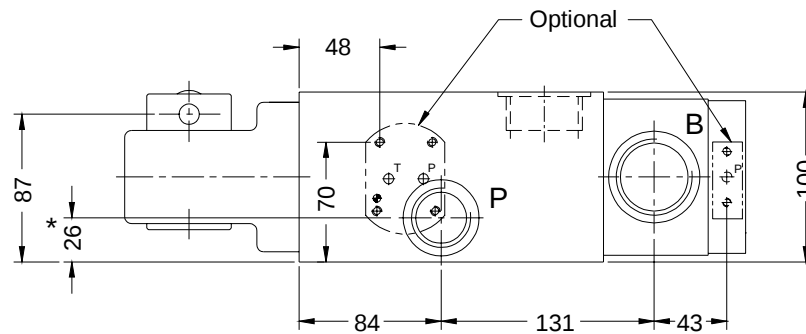
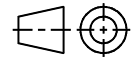
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Unit dimension

Dimensions in mm.



P	B	A	C	T	G
G1	G 1 1/2	G1	G 3/8	G 1 1/2	G 1/4

Note :

Valve with 'Mirror Image' face option will have ports A, C, T and G on opposite face and dimension 26 (marked *) of port P will be 74.



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Technical specification

Construction Spool and poppet type.
Mounting type Threaded body.
Mounting position Optional, horizontal spool axis preferred.
Flow passage Refer hydraulic symbol.
Flow passage areas (Nominal)

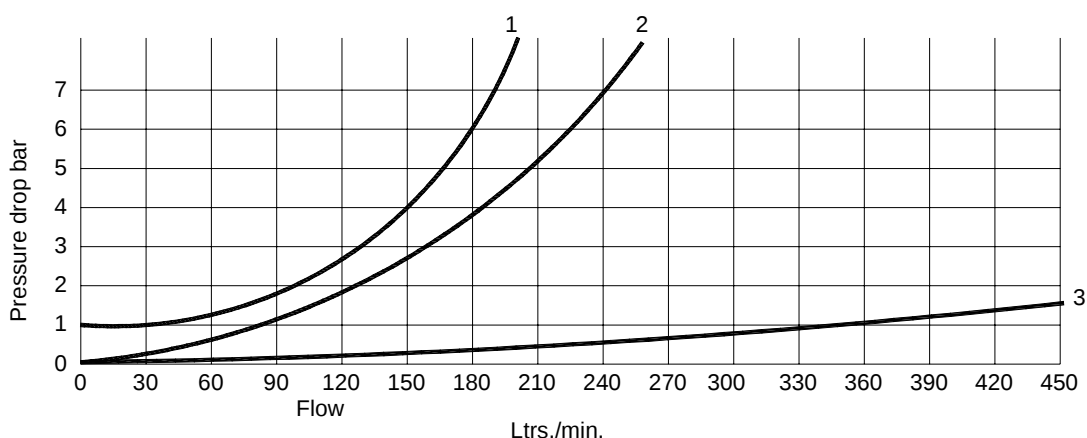
Valve	Model	P to A P to B cm. sq.	B to T cm. sq.
With quick exhaust feature	DLS 20	3.1	12.4

Operating Pressure For ports P, A, B, C, G 350 bar
T 7 bar max.

Hydraulic medium Mineral oil.
Viscosity range 10 to 380 cSt.
Working temperature range -20 °C to +70 °C.
Fluid cleanliness requirement As per ISO code 16/13 or better.
Nominal flow handling capacity Refer flow V/s. pressure drop graph.
Mass DLS 20 25.2 kg.

Performance Curves

(Pressure drop related to flow at 68 cSt.)



Flow from port	DLS 20
P to A	2
P to B	1
B to T	3



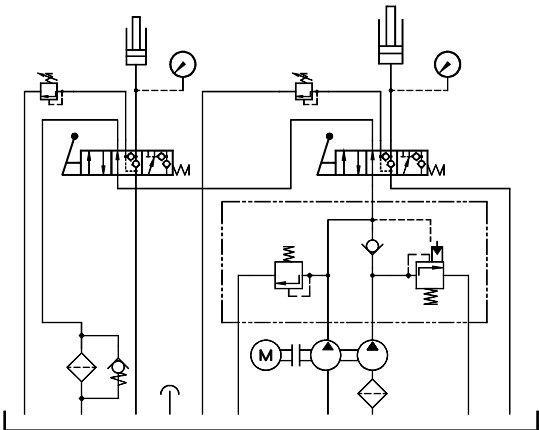
LEVER OPERATED
PRESSURE HOLDING D.C.V.
DLS20

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Hydraulic circuit showing typical application of valves DLS 20 **



Ordering code

DLS	20	D	M	A	B	—	14
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Directional control valve
lever operated with pressure
holding facility at it's port B.

Size 20

Spool holding options

Spring centred S

Detented D

Face option for ports
A, C, T, and G only

For valve porting shown in
unit dimension drawing Omit

Ports on opposite face
(mirror image) M

Design code subject to
change. Installation
dimensions remain same.
for design code 10 thru 19.

Provision for mounting
Pressure Relief Valve (DPR*06I)

Omit if not required

Provision for mounting
Pressure Switch (1PS*)
(350 bar max. on port B)

Omit if not required