



# LEVER OPERATED PRESSURE HOLDING D.C.V. DLS20

ENGINEERING

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Ref. No. P05150  
Release 06/2005

## Description

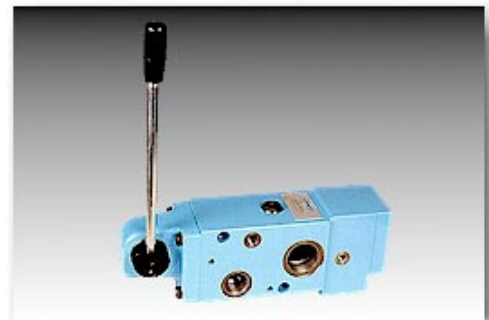
Designed for single acting cylinders which are supposed to hold pressure.

Ensures smooth decompression prior to return of the cylinder ram.

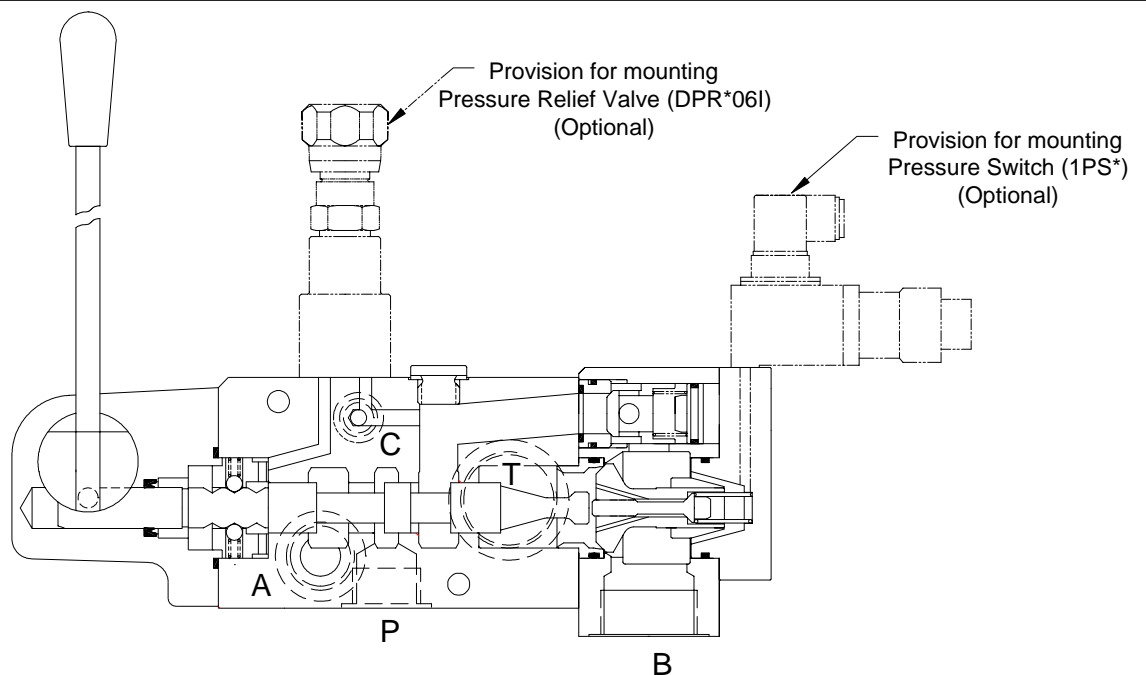
Large return oil passage to reduce pressure drops, allowing rams to return under low external forces.

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.

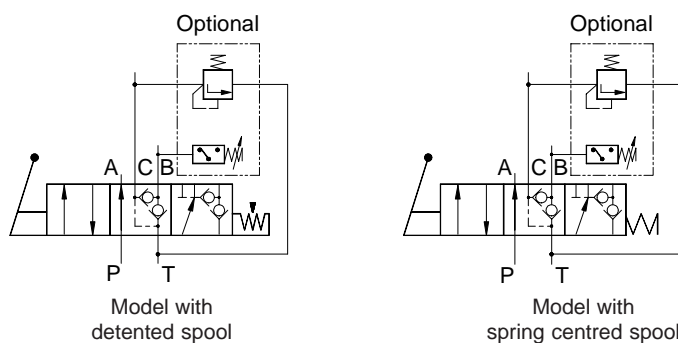
Valves can be connected in series for independent multiple single acting cylinder operations.



## Section



### Hydraulic Symbol



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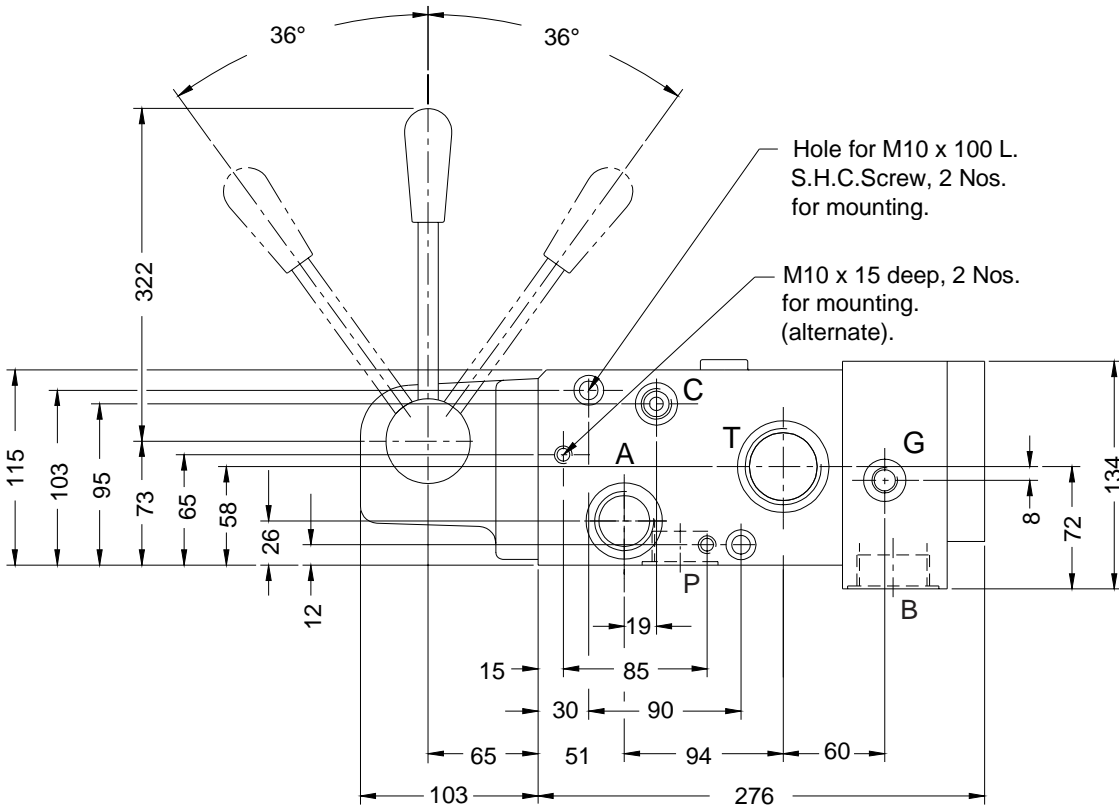
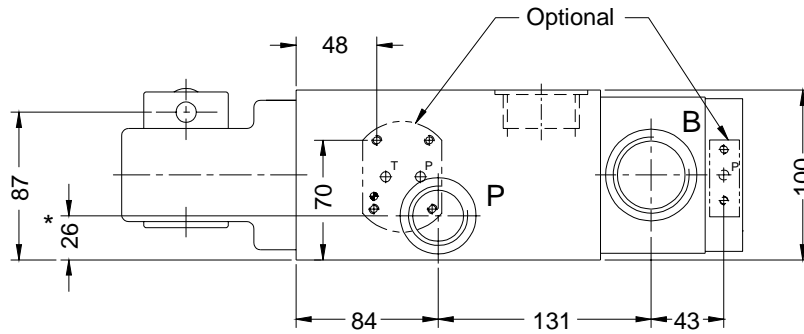
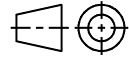
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Unit dimension

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) .....

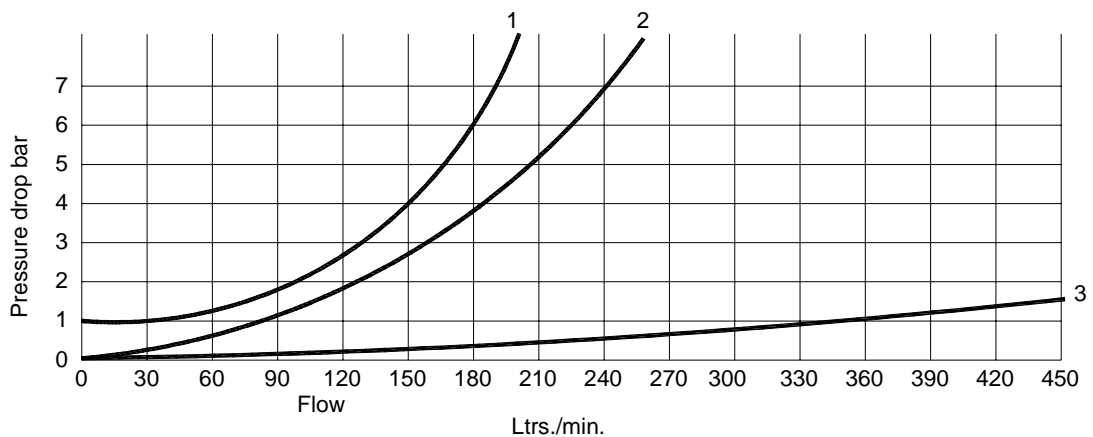
Valve	Model	P to A P to B cm. sq.	B to T cm. sq.
With quick exhaust feature	DLS 20	3.1	12.4

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



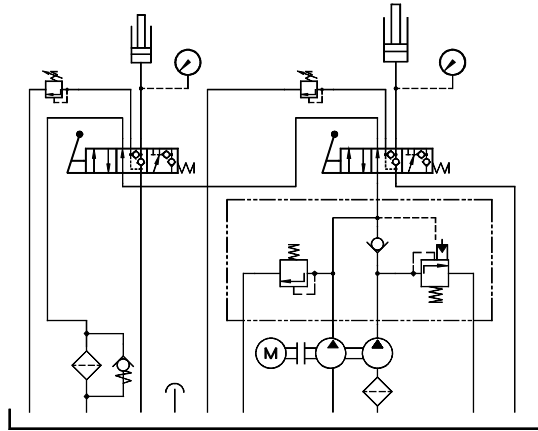
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Hydraulic circuit showing typical application of valves DLS 20 \*\*



**Ordering code**

DLS 20 D M A B - 14

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