

# HAND LEVER OPERATED DIRECTION CONTROL VALVE

DLS \*

# A Polyhydron Group Company

#### Description

Designed for operating single acting up-stroking cylinders, which are expected to hold pressure during their working cycle.

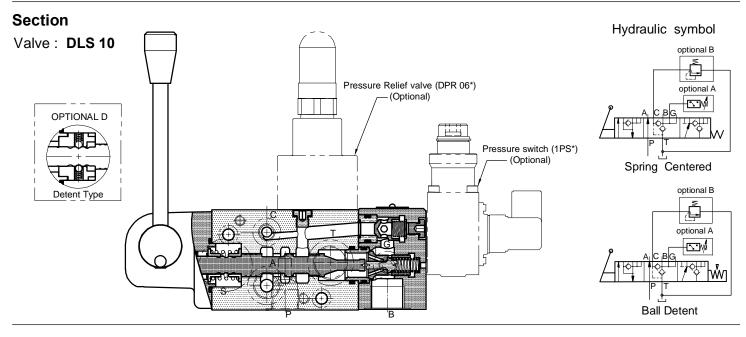
The valve also ensure smooth decompression prior to return of the cylinder.

Large return oil passage in the valve helps to return of the cylinder rapidly.

Opertions of multiple independent single acting cylinders can be achived by using the valves connected in series. (Please refer circuit on last page.)

The valves can be supplied with features for mounting Pressure Regulator valve and Pressure Switch to eliminate interconnecting pipes.





#### **Technical specifications**

| Construction<br>Mounting / Standard<br>Mounting position<br>Flow direction<br>Maximum operating pressure   | Threaded body (Company standard)<br>Optional, horizontal spool axis preferred.<br>As per Hydraulic Symbol. |
|--|--|
| Hydraulic medium<br>Viscosity range<br>Fluid temperature range<br>Fluid cleanliness requirement<br>Nominal flow handling capacity<br>Mass (approx) | 10 cSt to 380 cSt<br>-20°C to +70°C<br>ISO 4406 20/18/15 or better.<br>refer performance curve.            |

## polyhydron pvt. Itd.

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#### **Unit dimensions**

Port size details

Port

Α,Ρ

Β,Τ

C,G

Valve model : DLS 10

Size

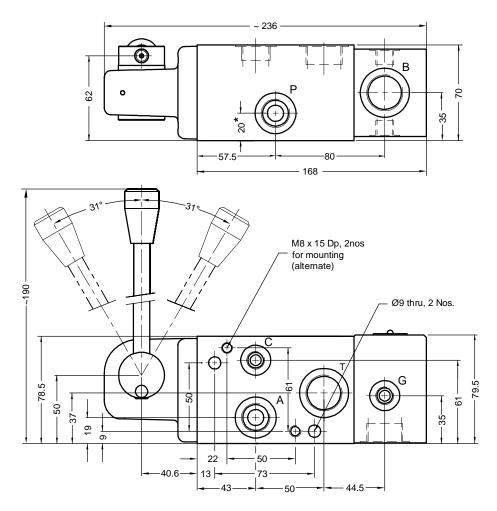
G1/2

G3/4

G1/4

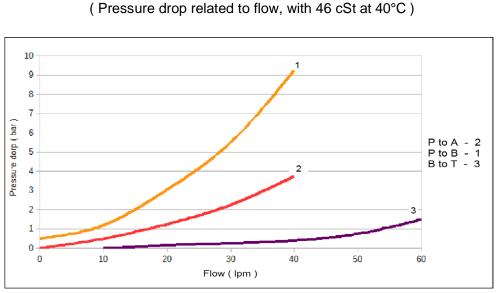
Dimensions in mm.





Note : Valve with Mirror image face option, will have ports A, C, T and G on opposite face and dimension 20 (marked \*) of port P will be 50. (Ask for details, if needed )

Performance Curves for DLS 10

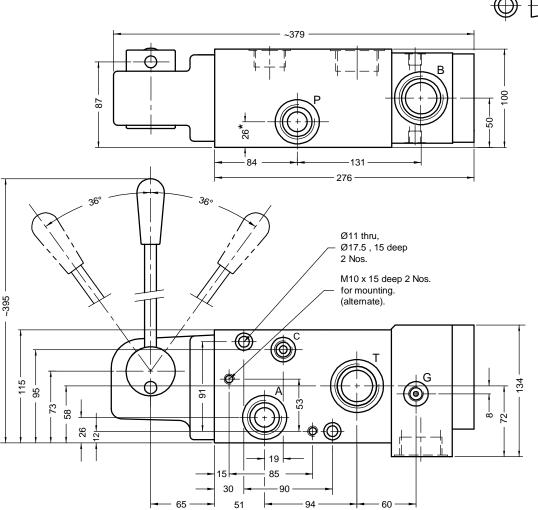


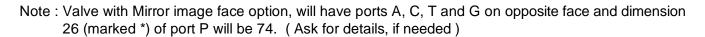
Dimensions in mm.

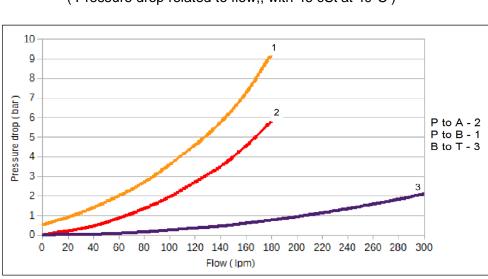
## Unit dimensions

Valve model : DLS 20

| Port size details |        |
|-------------------|--------|
| Port              | Size   |
| Α,Ρ               | G1     |
| В,Т               | G1-1/2 |
| С                 | G 3/8  |
| G                 | G1/4   |





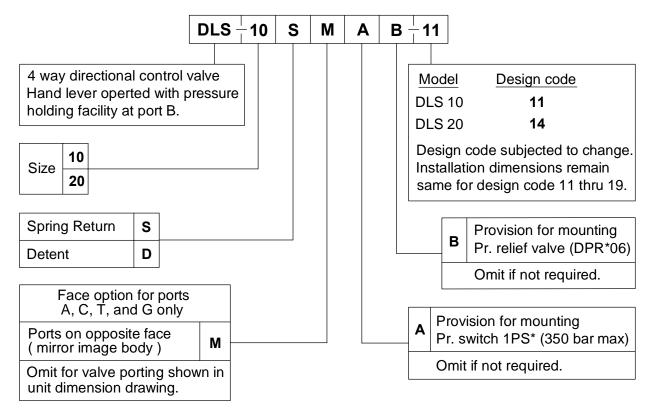


Performance Curves for DLS 20 ( Pressure drop related to flow,, with 46 cSt at  $40^{\circ}$ C )

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## Ordering code



Note : Pressure switch (1PS\*) and Pr. relief valve (DPR\*06) to be ordered separately.

Hydraulic circuit showing typical application of valve DLS10 / DLS 20

