

# Coimbatore Aeration Accessories

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## LEVER OPERATED DIRECTION CONTROL VALVE

Model: 4DL10\*\*\*\*10

Ref. No. D04909 Release 05 / 2022

**ENGINEERING - 1 of 5** 

#### Description

Completely encapsuiated mechanism for protection against dirt. Five chember design for better reduction in dynamic force and longer valve life.

Valve mounting interface confirms to National and International standards.

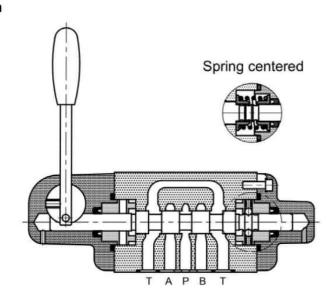
Mounting style - Subplate & Threaded body. Available as spring centered, spring off-set or detented model.

Operting Head can be rotated by 90° x 4 around spool axis for flexibility in mounting.

All spool and bodies are interchangable, simplifying maintenance.



#### Section



### Hydraulic symbol

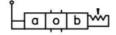
2 position detented



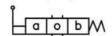
2 position spring offset



3 position detented



3 position spring centred



#### Technical specifications

Construction Spool type.

Mounting / Standard Subplate & Threaded body.

Subplate body Interface as per ISO 4401 - AC - 05 - 4 - A and

IS 10187 -10 mm diameter nominal port.

Mounting position Optional, horizontal spool axis preferred.

As per spool type. Flow direction

For port P, A, and B......350 bar. (Standered valve) Maximum operating pressure For port P, A, and B......700 bar. (High Pressure valve)

For port T......100 bar.

Pressure drop in the tank line adversely affect the returning speed

of the cylinder, Hence must be kept as low as possible

Hydraulic medium Mineral oil. Viscosity range 10 cSt to 380 cSt. Fluid temperature range -20°C to +70°C.

Fluid cleanliness requirement ISO 4406 20/18/15 or better. Nominal flow handling capacity: Refer performance curve.

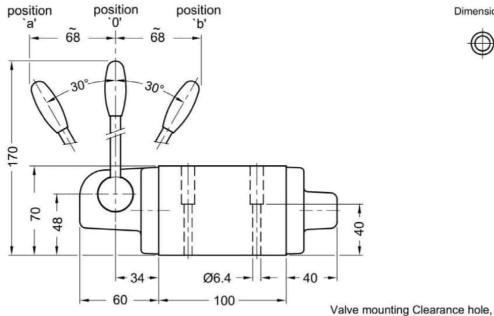
Mass (approx) 5.6 kg

#### Subplate mounting body

#### Unit dimensions

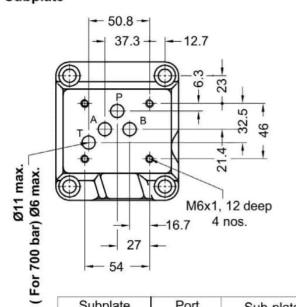
Dimensions in mm.





for M6 x 50L S.H. Capscrew. 4 Nos. property class 10.9, tightening torque 16 Nm. 20 46 25 23 54 12

#### Subplate



Port

A, B, P, T

G 1/4"

G 1/2"

G 3/8"

Sub-plate

Fixing Screws

M10 x 25 L

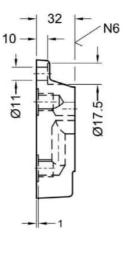
Subplate

Ordering Code

G101

G102

G103



**Tightening** 

Torque

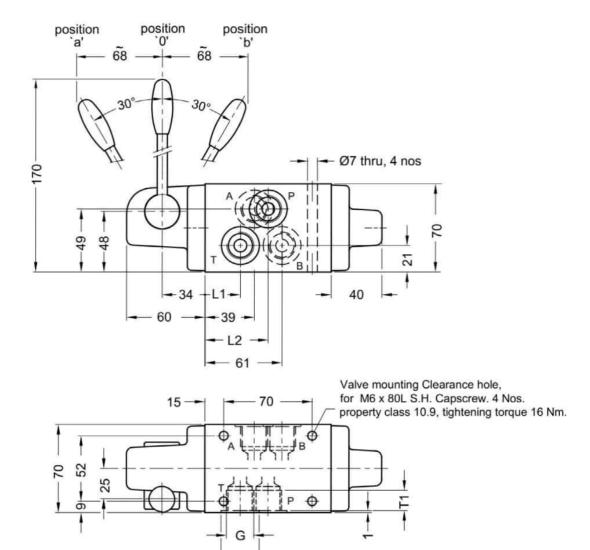
70 N-m

	-
Approx	
Mass	
2.5 kg	
2.0 kg	

102 — 79.4 — 11.3	-
	23.5
5 2 E 2 E 2 E 2 E 2 E 2 E 2 E 2 E 2 E 2	28.5
10.7 - 39.7 - 68.7 -	Panel cutout

Sub-plate to be ordered separately.

### Threaded mounting body

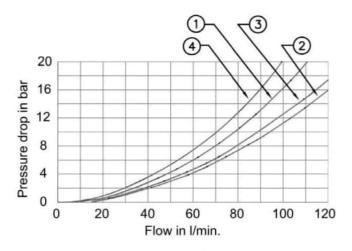


Ordering Code	Port Size G	ØD	T1	L1	L2
T02	G 1/4"	22	12	28	50
T04	G ½"	30	16	31	54

ØD

#### Performance Curves for 4DL 10

( Pressure drop related to flow, with oil viscosity 46 cSt at 40°C)



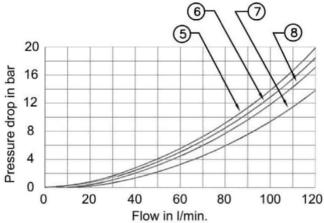
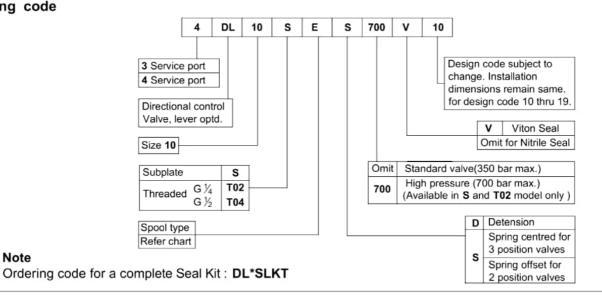


Table showing the relation between the spool type, direction of flow and curve graph to be referred to.

Spool	Direction of flow / Curve no.					
type	P to T	P to A	P to B	A to T	B to T	
Α	-	1	1	-	-	
С	-	1	1	2	3	
D		1	1	2	3	
E	-	1	1	2	3	
F	4	1	1	7	3	
G	4	1	1	2	3	
Н	5	6	6	7	8	
J	-	1	1	7	8	
L	-	1	1	7	3	
M	-	6	6	2	3	
Р	4	1	1	2	8	
Q	-	1	1	2	3	
U	-	1	1	7	8	
W	-	1	1	2	3	

#### Ordering code



#### **Spool Chart**

Note

