

ENGINEERING

1

Ref. No. P06631 Release 09/2000

Description

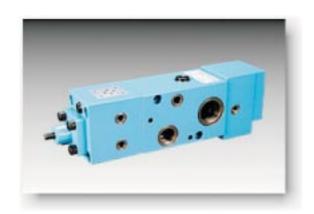
Designed for single acting cylinders which are supposed to hold pressure.

Ensure smooth decompression prior to return of the cylinder ram.

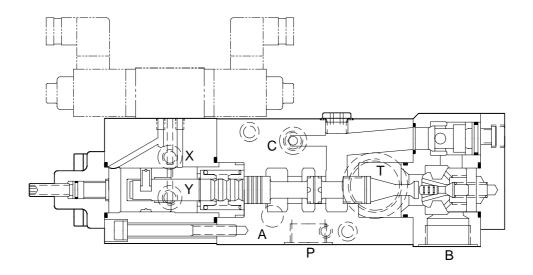
Large return oil passages to reduce pressure drops allowing rams to return under low external forces.

Valves with quick exhaust feature have 2.34 times larger return passages. They are meant for rams having either very low reactive forces or must return rapidly under normal forces.

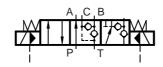
Valves can be connected in series for independent multiple single acting cylinder operations.



Section



Hydraulic Symbol



Polyhydron Pvt. Ltd.

78-80, Machhe Industrial Estate, Machhe, Belgaum - 590 014. INDIA. Phone : +91-(0)831-411001 Fax : +91-(0)831-411002 E-mail : polyhydron@vsnl.com

Website: www.polyhydron.com



ENGINEERING

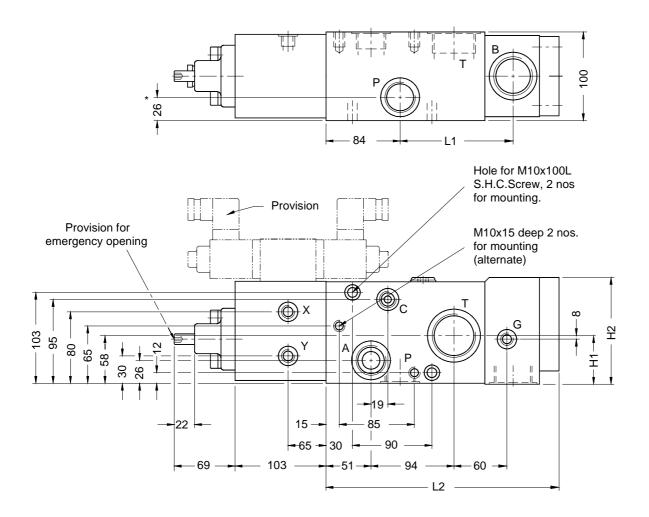
Ref. No. P06631

Unit Dimensions

Dimensions in mm.

2





Valve type	Model	H1	H2	L1	L2	Port details					
						А	В	С	G	Р	Т
Standard	4DES20A	59	121	126	264		G1 1/4				
With quick exhaust feature	4DES20B	72	134	131	276	G1	G1 1/2	G3/8	G1/4	G1	G1 1/2

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.



ENGINEERING

3

Ref. No. P06631

Technical Specifications

Construction Spool and Poppet type.

Mounting type Threaded body.

Direction of flow Refer hudraulic symbol.

Flow passage areas (Nominal)

Valve	Model	P to A P to B	B to T
Standard	4DES20A	3.1 cm ²	5.3 cm ²
With quick exhaust feature	4DES20B	3.1 cm ²	12.4 cm ²

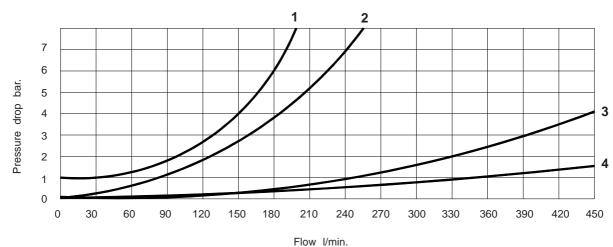
Fluid temperature range -20 °C to +70 °C

Fluid cleanliness requirement As per ISO 16/13 or better.

Nominal flow handling capacity Refer performance curve.

Performance Curves

(Pressure drop related to flow at 68 cSt)



Flow from port	For v 4DES20A			
P to A	2	2		
P to B	1	1		
B to T	3	4		

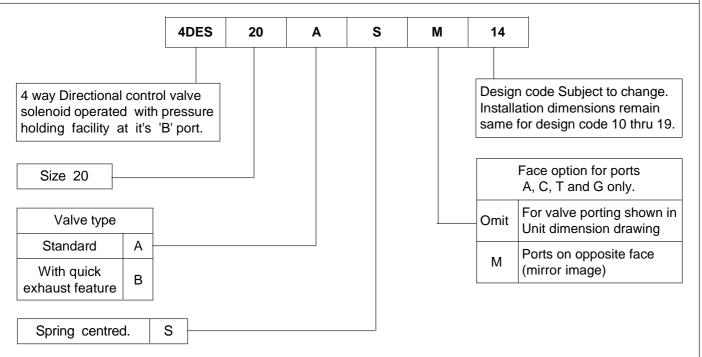


ENGINEERING

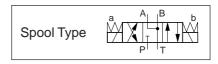
4

Ref. No. P06631

Ordering Code



Note: Subplate and Solenoid (refer spool type) to be ordered separately.



Hydraulic circuit showing typical application of valves 4DES20 *.*

