



A Polyhydron Group Company

PILOT OPERATED CHECK VALVE MODULAR CONSTRUCTION

Model : CIM10

Ref. No. D 52200 A

Release : 06 / 2024

ENGINEERING - 1 of 1

Description

Modular pilot operated check valves series CIM10** provide pressure holding facility on their service ports A1 and B1.

These valves are also available with pilot check facility on either A or B port. The valve opens and allows free return flow, when the other working port is pressurized.

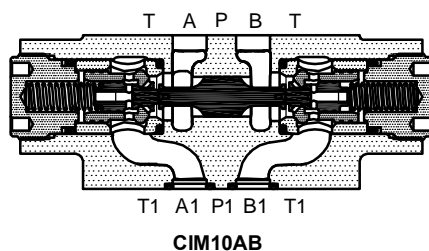
The valve is not suitable for holding pressure on rod end side of Double acting cylinders, where area ratio (Bore area : Annulus area) is equal to or greater than 3.5.

The modular construction facilitates use of these valves in a vertical stack, eliminating need of piping.

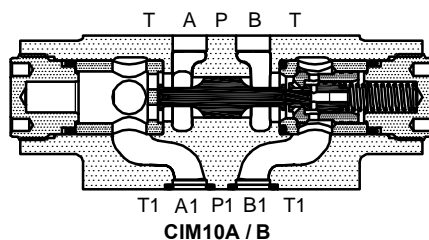
The interface confirming to ISO-AC-05-4-A, IS 10187, DIN 24340.



Section

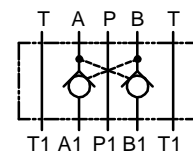


CIM10AB

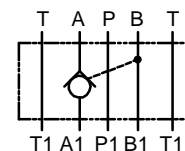


CIM10A / B

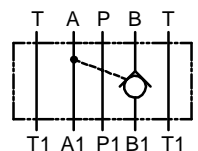
Hydraulic symbol



CIM10AB



CIM10A



CIM10B

Technical specifications

Construction	:	Modular, Seat type, Internally pilot operated.		
Mounting style	:	Modular type confirming to ISO 4401-AC 05-4-A , IS 10187 , DIN 24340.		
Mounting position	:	Optional.		
Flow direction	:	Free flow from A to A1 and / or from B to B1.		
	:	Piloted flow in opposite direction.		
Cracking pressure	:	1, 3 or 5 bar.		
Working pressure	:	315 bar for all Ports.		
Area ratios	:	Pilot piston : Decomp. poppet = 3.5 : 1		
Hydraulic medium	:	Mineral oil.		
Temperature range	:	-20°C to + 80°C.		
Viscosity range	:	10 cSt to 380 cSt.		
Fluid cleanliness required	:	ISO 4406 20/18/15 or better.		
Max. flow handling capacity	:	80 l/min.		
Mass approx.	:	Model	CIM10AB	CIM10A/B
		in Kg.	2	1.9

polyhydron pvt. ltd.

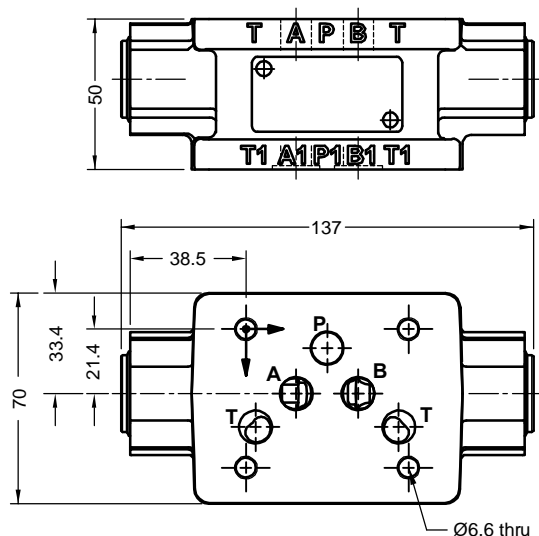
78-80, Machhe Industrial Estate,
Machhe, Belgaum - 590 014. INDIA.

Phone : +91-(0)831- 2411001
Fax : +91-(0)831- 2411002
E-mail : polyhydron@gmail.com
Website : www.polyhydron.com

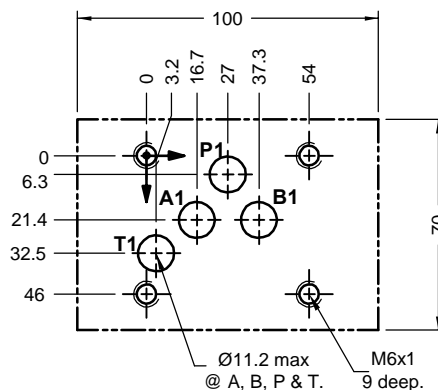


Unit dimensions

Dimensions in mm.

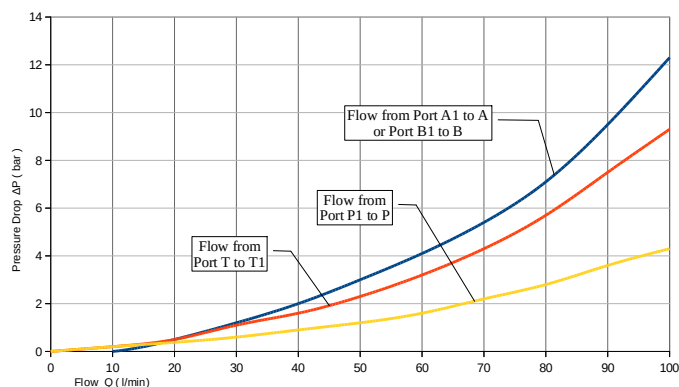
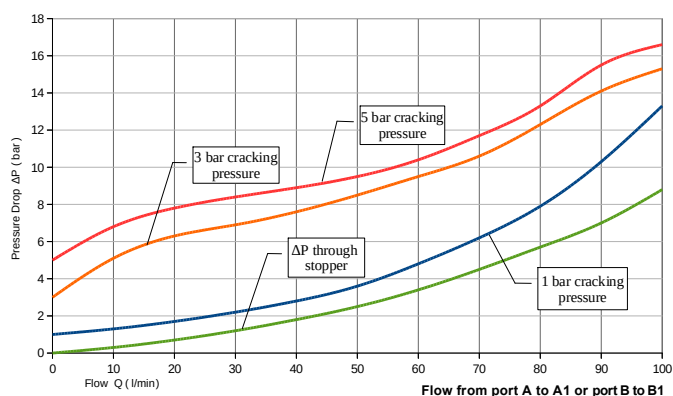


Subplate mounting interface as per ISO 4401.



Note: Valve fixing S.H.C Screws are not in scope of supply.
Tightening torque for S.H.C Screws is 16 Nm.

Performance graph



Ordering code

CIM 10 AB 1 25

Pilot operated check valve
modular construction

Size 10

Pilot optd. check facility	
On A & B ports	AB
On 'A' port only	A
On 'B' port only	B

Design code subjected to Change .
installation dimensions remain
same for design code 20 thru 29.

Cracking pressure	
1	1.0 bar
3	3.0 bar
5	5.0 bar

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Subject to change without prior notice.

Due to continuous improvement in the design of the product, the actual product supplied may look different than shown above.

For critical applications, please ask for certified installation drawing.

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Subject to revision