

PILOT VALVES (3/2 WAY)

3/2 Way Valves -
Pilot Spring



3/2 Way Valves -
Pilot Pilot



Installation & Application Data

- 1) Before installing, be sure the valve hasn't been damaged in transit.
- 2) It is suggested to use clean lubricated air filtered to $40\mu\text{m}$. Be aware of the flow direction and port size.
- 3) Please note that the installation conditions meet the technical requirements (such as actuation frequency, working pressure and temperature before installing the valve).
- 4) Notice the flow direction of air during installation, P is the air input port, A (B) is the outlet ports and R (S) is the exhaust ports.
- 5) Avoid freezing temperatures and vibration.

PILOT, LOGIC & SPECIALIST VALVES

PILOT VALVE (3/2 WAY) CKA SERIES

Specification

Model	CKA210-06	CKA220-06	CKA210-08	CKA220-08	CKA310-10	CKA320-10
Fluid	Air (to be filtered by 40µm filter element)					
Acting	External Control					
Port	1/8"		1/4"		3/8"	
Orifice mm ²	14.0mm ² (Cv= 0.78)		16.0mm ² (Cv= 0.89)		25.0mm ² (Cv= 1.39)	
Valve Type	3/2 Way					
Lubrication	Not required					
Operating Pressure	0.15 - 0.8MPa (21 - 114psi)					
Proof Pressure	1.5MPa (215psi)					
Temperature	-20°C to +70°C					
Material of Body	Aluminium Alloy					
Max. Frequency	5 cycle/sec					

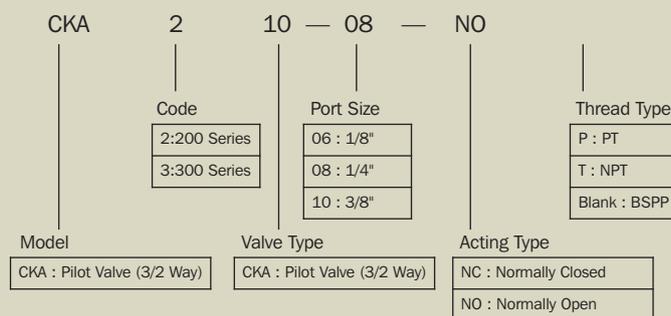


1. G threads as standard. PT & NPT thread are available on request
2. If using lubricants the practice must remain constant for the life of the valve. Lubricants like ISO VG32 or equivalent are recommended
3. The maximum actuation frequency is in the no-load state

Symbols



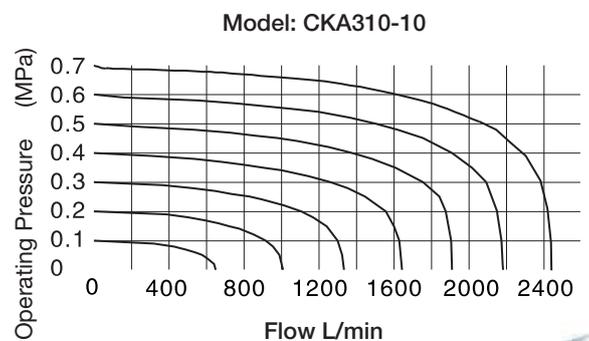
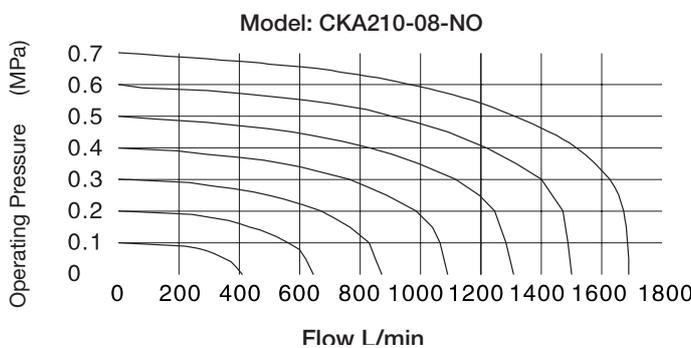
Ordering Code



Product Features

1. Close tolerance sliding spool for quick reaction
2. Double pilot control valves have memory function
3. Low friction, low start pressure and long service life
4. No need to add oil for lubrication
5. Multi-mounting for ease of installation

Flow Charts



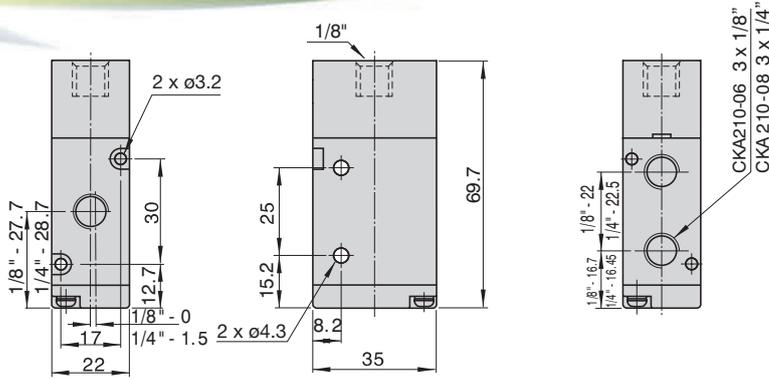
PILOT, LOGIC & SPECIALIST VALVES

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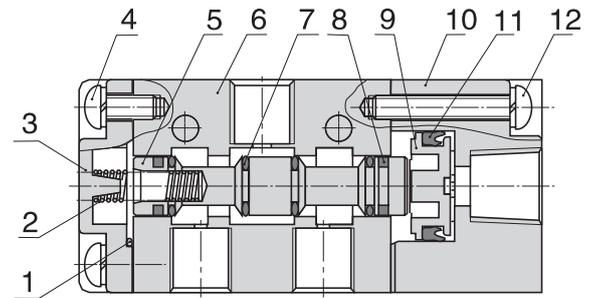
Dimensions

Model:

- CKA210



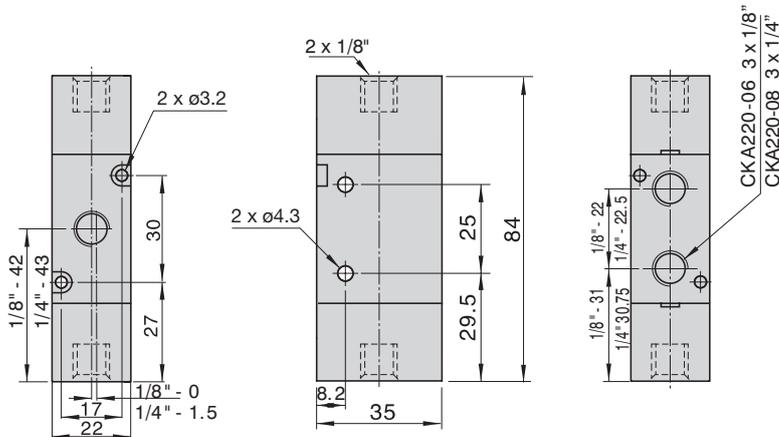
Inner Structure



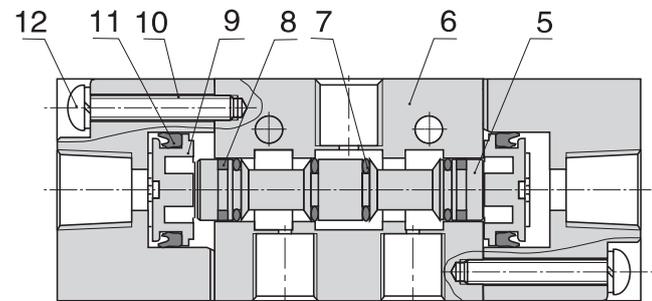
Dimensions

Model:

- CKA220



Inner Structure



No.	Item	No.	Item
1	End Cover Gasket	7	O-ring
2	Spring	8	Wear Ring
3	End Cover	9	Piston
4	Bottom Cover Screw	10	Pilot Body
5	Spool	11	Piston O-ring
6	Body	12	Pilot Screw

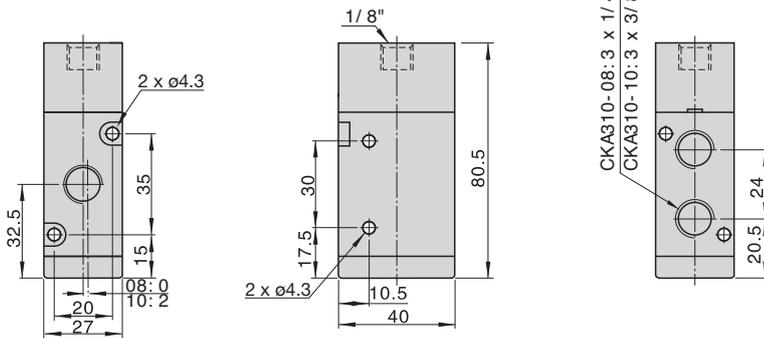
PILOT, LOGIC & SPECIALIST VALVES

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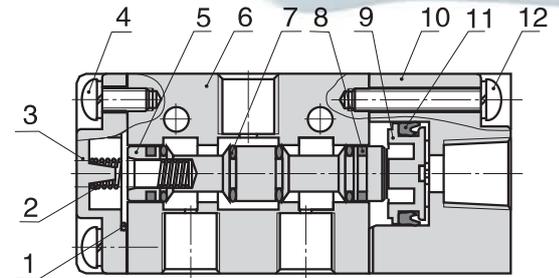
Dimensions

Model:

- **CKA310**



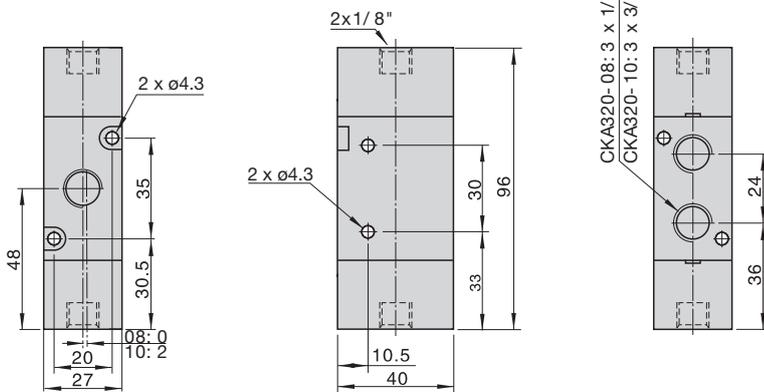
Inner Structure



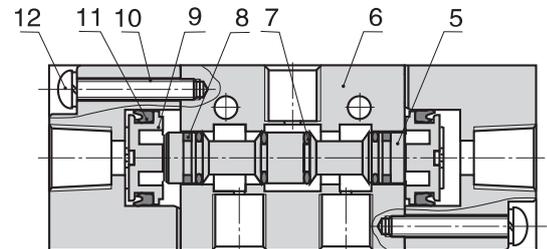
Dimensions

Model:

- **CKA320**



Inner Structure



No.	Item	No.	Item
1	Bottom Cover Gasket	7	O-ring
2	Spring	8	Wear Ring
3	Bottom Cover	9	Piston
4	Bottom Cover Screw	10	Pilot Body
5	Spool	11	Piston O-ring
6	Body	12	Pilot Screw