

# Multi-channel Valve

103 Series  
Threaded Pneumatic  
Three-way Angle  
Seat Valve



103 Series  
Tri-clamp Pneumatic  
Three-way Angle  
Seat Valve

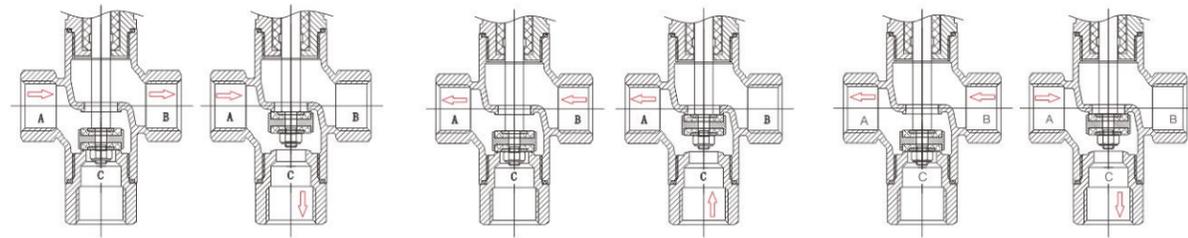


## Function Principle

The valve has three ports that enable "split", "blend", and "reversal" functions. When the valve is in idle state, C port is closed due to spring force. When the actuator piston is compressed, C port is opened and B port is closed. When double acting, the valve opens and closes by compressed air.

## Technical Specification

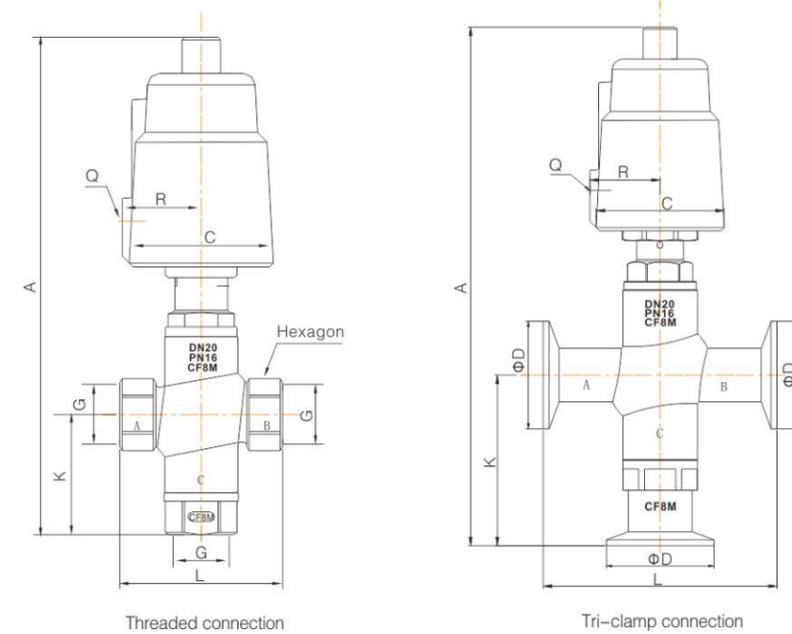
- Operating pressure: 0–16bar (0–232psi)
- Control pressure: 3–8bar (43.5–116psi)
- Control fluid: Filtered compressed air or neutral gas
- Body material: CF8M
- Actuator material: CF8
- Seal material: PTFE
- Fluid temperature: -10°C — +180°C (PTFE Normal temperature)
- Ambient temperature: -10°C — +80°C
- Control type: Normally closed, Double acting normally closed, Double acting without spring
- Connection type: Threaded connection, Tri-clamp
- Applicable medium: Water, Steam, Oil, Neutral gas or Liquid, Organic solvent, Acid and lye
- Leakage class: DIN EN 12266 Class A



Split function

Blend function

Reversal function



Threaded connection

Tri-clamp connection

## Main Dimension (Threaded connection)

Size	Actuator	Q	C	R	G	A	K	L	Hexagon	Weight (kg)
DN15	40	1/8"	50.5	27	1/2"	195	50	68	27	0.91
DN20	50	1/8"	60	33	3/4"	230	60	75	32	1.25
DN25	50	1/8"	60	33	1"	242	68	90	40	1.64
DN32	90	1/8"	106	55	1 1/4"	355	86	116	50	4.62
DN40	90	1/8"	106	55	1 1/2"	360	90	116	56	5.15
DN50	90	1/8"	106	55	2"	382	102	138	69	6.52

## Main Dimension (Tri-clamp connection)

Size	Actuator	Q	C	R	ΦD	A	K	L	Weight (kg)
DN15	40	1/8"	50.5	27	34	223	80	90	0.99
DN20	50	1/8"	60	33	50.5	246	80	90	1.48
DN25	50	1/8"	60	33	50.5	262	90	100	1.78
DN32	90	1/8"	106	55	50.5	373	104	130	4.75
DN40	90	1/8"	106	55	64	381	111	150	5.45
DN50	90	1/8"	106	55	64	408	128	160	6.65