

VC5, 13 Series

5 Port Air Operated Valve
Rubber Seal/Sub-base Mounting Type

VCS245 | VCS2413

2-position, single sided

VCD245 | VCD2413

2-position, double sided

VCD345 | VCD3413

3-position, closed center

VCE345 | VCE3413

3-position, ABR connect

VCO345 | VCO3413

3-position, PAB connect



Specifications(VC5 series)

Model No.	Unit	VCS245	VCD245	VCD345	VCE345	VCO345
Fluid		Non-lubricated/lubricated air				
Port size		M5, RC%				
Sonic-speed transmission [㊟]	dm³/(s·bar)	0.74(M5) 0.8(Rc%)		0.44(M5) 0.5(Rc%)		
Critical pressure ratio [㊟]		0.2(M5) 0.25(Rc%)		0.2(M5) 0.25(Rc%)		
Effective area [㊟]	mm²	3.7(M5) 4(Rc%)		2.2(M5) 2.5(Rc%)		
Operating ambient temperature	°C	-5~50 [㊟]				
Operating pressure range	MPa	0.2~0.8	0~0.8			
Pilot pressure	MPa	0.2~0.8 [㊟]				
Mass [㊟]	g	78(90)	82(94)	91(103)		

Specifications(VC13 series)

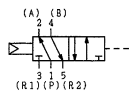
Model No.	Unit	VCS2413	VCD2413	VCD3413	VCE3413	VCO3413
Fluid		Non-lubricated/lubricated air				
Port size		RC $\frac{1}{4}$				
Sonic-speed transmission $\oplus$	dm ³ /(s·bar)	2.40		1.50		1.00
Critical pressure ratio $\oplus$		0.22		0.2		0.22
Effective area $\oplus$	mm ²	12		7.5		5
Operating ambient temperature	°C	-5~50 ①				
Operating pressure range	MPa	0.2~0.8		0~0.8		
Pilot pressure	MPa	0.2~0.8 ②				
Mass ③	g	157	167	184		



1. When the temperature falls below 5 °C, please provide air dryer to prevent water frozen.
2. Pilot pressure must remain greater than the working pressure. (Pilot pressure $\geq$ Working pressure).
3. Value within the brackt () represent the value of Rc $\frac{1}{8}$.
4. The value shown in sonic-speed transmission, critical pressure ratio, effective area, Cv value represent the value of Port 1 -> 4.

VCS245 - 01

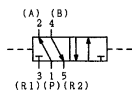
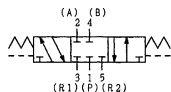
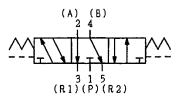
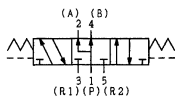
Model No.

VCS245, VCS2413

Port size

NB : Without sub-base

M5 : M5×0.8

01 : RC $\frac{1}{8}$ 02 : RC $\frac{1}{4}$ **VCD245, VCD2413****VCD345, VCD3413****VCE345, VCE3413****VCO345, VCO3413**

Dimensions

- If you need dimension graph, please contact FONTAL.

YC5, 13 Series

3.5-Port Pilot Air Operated Valve
Rubber Seal/Direct Mounting Type

YCS245 | YCS2413

2-position, single sided

YCD245 | YCD2413

2-position, double sided

YCD345 | YCD3413

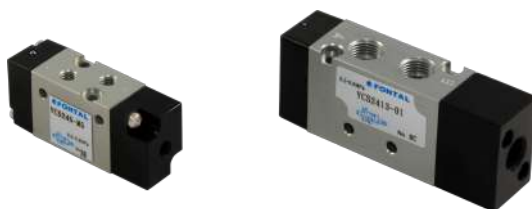
3-position, closed center

YCE345 | YCE3413

3-position, ABR connect

YCO345 | YCO3413

3-position, PAB connect



Specifications(YC5 series)

Model No.	Unit	YCS245	YCD245	YCD345	YCE345	YCO345
Fluid		Non-lubricated/lubricated air				
Port size		M5				
Sonic-speed transmission㉔	dm³/(s·bar)	0.80		0.44(M5) 0.5(Rc½)		
Critical pressure ratio㉔		0.20		0.2(M5) 0.25(Rc½)		
Effective area㉔	mm²	4		2.2(M5) 2.5(Rc½)		
Operating ambient temperature	℃	-5~50㉕				
Operating pressure range	MPa	0.2~0.8	0~0.8			
Pilot pressure	MPa	0.2~0.8㉖				
Mass	g	34	38	47		

Specifications(YC13 series)

Model No.	Unit	YCS2413	YCD2413	YCD3413	YCE3413	YCO3413
Fluid		Non-lubricated/lubricated air				
Port size		RC½				
Sonic-speed transmission㉞	dm³/(s·bar)	2.50		1.60		1.00
Critical pressure ratio㉞		0.22		0.2		0.22
Effective area㉞	mm²	12.5		8		5
Operating ambient temperature	℃	-5~50㉞				
Operating pressure range	MPa	0.2~0.8	0~0.8			
Pilot pressure	MPa	0.2~0.8㉞				
Mass	g	68	78	98		

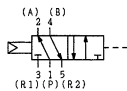


1. When the temperature falls below 5 °C, please provide air dryer to prevent water frozen.
2. Pilot pressure must remain greater than the working pressure. (Pilot pressure ≥ Working pressure).
3. The value shown in sonic-speed transmission, critical pressure ratio, effective area, Cv value represent the value of Port 1 -> 4.

YCS245 – M5

Model No.

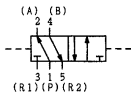
YCS245, YCS2413



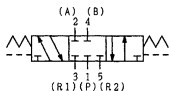
Port size

M3 : M3×0.5
M5 : M5×0.8
01 : RC $\frac{1}{8}$

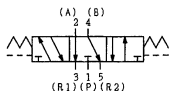
YCD245, YCD2413



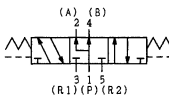
YCD345, YCD3413



YCE345, YCE3413



YCO345, YCO3413



Dimensions

- If you need dimensions graph, please contact FONTAL.

VC08, 15 Series

Air Operated Valve
Rubber Seal/Sub-base Mounting Type

VCS2408 | VCS2415

2-position, single sided

VCD2408 | VCD2415

2-position, double sided

VCD3408 | VCD3415

3-position, closed center

VCE3408 | VCE3415

3-position, ABR connect

VCO3408 | VCO3415

3-position, PAB connect



Specifications

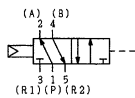
Model No.	Unit	VCS2408	VCD2408	VCD3408 VCE3408	VCO3408	VCS2415	VCD2415	VCD3415 VCE3415	VCO3415
Fluid		Non-lubricated/lubricated air							
Port size		port 1,2,4: Rc½ port 3,5 : Rc¼				port 1,2,4: Rc½ port 3,5 : Rc¾			
Sonic-speed transmission ^①	dm³/(s·bar)	6.00		5.00	2.80	14.00		12.00	
Critical pressure ratio ^②		0.45		0.38	0.35	0.45		0.4	
Effective area ^③	mm²	30		25	14	70		60	
Operating ambient temperature	°C	-5~50 ^①							
Operating pressure range	MPa	0~0.8							
Pilot pressure ^④	MPa	0.2~0.8						0.25~0.8	
Mass	kg	0.3	0.32	0.48	0.48	0.59	0.67	0.80	0.80



1. When the temperature falls below 5 °C, please provide air dryer to prevent water frozen.
2. Pilot pressure must remain greater than the working pressure. (Pilot pressure ≥ Working pressure).
3. The value shown in sonic-speed transmission, critical pressure ratio, effective area, Cv value represent the value of Port 1 -> 4.

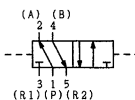
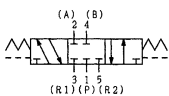
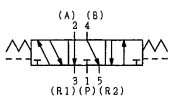
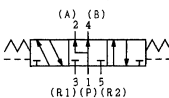
VCS2408 – 03

Model No.

VCS2408, VCS2415

Port size (port 1, 2, 4)

NB : Without sub-base

03 : RC $\frac{3}{8}$ 04 : RC $\frac{1}{2}$ **VCD2408, VCD2415****VCD3408, VCD3415****VCE3408, VCE3415****VCO3408, VCO3415****Dimensions**

- If you need dimensions graph, please contact FONTAL.

YC06, 08 Series

5 Port Pilot Air Operated Valve
Rubber Seal/In-line mounting

YCS2406 | YCS2408

2-position, single sided

YCD2406 | YCD2408

2-position, double sided

YCD3406 | YCD3408

3-position, closed center

YCE3406 | YCE3408

3-position, ABR connect

YCO3406 | YCO3408

3-position, PAB connect



Specifications (YC06 series)

Model No.	Unit	YCS2406	YCD2406	YCD3406	YCE3406	YCO3406
Fluid		Non-lubricated/lubricated air				
Port size		port 1,2,4: Rc¼ port 3,5 : Rc⅛				
Sonic-speed transmission㉓	dm³/(s·bar)	2.50		2.30		
Critical pressure ratio㉓		0.43		0.38		
Effective area㉓	mm²	12		11		
Operating ambient temperature	℃	-5~50㉑				
Operating pressure range	MPa	0.2~0.8	0~0.8			
Pilot pressure	MPa	0.2~0.8㉒				
Mass	g	100	130	150		

Specifications (YC08 series)

Model No.	Unit	YCS2408	YCD2408	YCD3408	YCE3408	YCO3408
Fluid		Non-lubricated/lubricated air				
Port size		port 1,2,4: Rc½ port 3,5 : Rc¼				
Sonic-speed transmission㉓	dm³/(s·bar)	6.00		5.00		2.8
Critical pressure ratio㉓		0.45		0.38		0.35
Effective area㉓	mm²	30		25		14
Operating ambient temperature	℃	-5~50㉑				
Operating pressure range	MPa	0.2~0.8	0~0.8			
Pilot pressure	MPa	0.2~0.8㉒				
Mass	g	150	180	210		

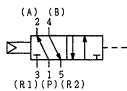


1. When the temperature falls below 5 °C, please provide air dryer to prevent water frozen.
2. Pilot pressure must remain greater than the working pressure. (Pilot pressure ≥ Working pressure).
3. The value shown in sonic-speed transmission, critical pressure ratio, effective area, Cv value represent the value of Port 1 → 4.

YCS2406 - 02

Model No.

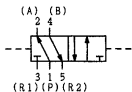
YCS2406, YCS2408



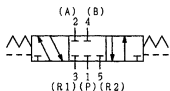
Port size

02 : RC $\frac{1}{4}$
03 : RC $\frac{3}{8}$

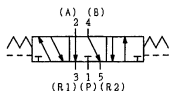
YCD2406, YCD2408



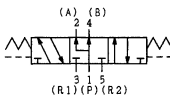
YCD3406, YCD3408



YCE3406, YCE3408



YCO3406, YCO3408



Dimensions

- If you need dimensions graph, please contact FONTAL.