

Small direct acting

YCSM31/32/41 (Single & combined)



Characteristic: 1. Direct acting solenoid valve.
2. Compact structure saves space.

Medium: air, water, oil, Steam

Temperature: NBR: -10°C ~ 80°C
EPDM: -30°C ~ 120°C
VITON: -30°C ~ 150°C
PTFE: -60°C ~ 200°C

Pressure: YCSM31: 0.0MPa ~ 3.0MPa
YCSM32: 0.0MPa ~ 3.0MPa
YCSM41: 0.0MPa ~ 3.0MPa

Port Thread: NPT , G

Port Size: 1/8", 1/4", 3/8", 1/2"

Orifice (mm): 1.0, 1.6, 2.0, 2.5, 3.0, 3.5, 4.0, 5.0, 6.0, 8.0, 10.0

Voltage: DC-12V , 24V

AC-24V, 120V, 240V/60Hz; 110V, 220V/50Hz

Scope: ±10%

Coils: S91B, 22VA(AC), 17W(DC), Ip65, 100%ED
S11B, 22VA(AC), 15W(DC), Ip65, 100%ED
S21B, 30VA(AC), 18W(DC), Ip65, 100%ED
EX1421, 25VA(AC), 18W(DC), Ip65, 100%ED

Material: Body-Brass, stainless steel, PTFE

Seal -Viton/NBR/EPDM/PTFE

Armature - SUS304

Plunger - 1J117

Stop - 1J117

Springs - SUS304

Shading Rings - Copper



YCSM31

YCSM31-1/4

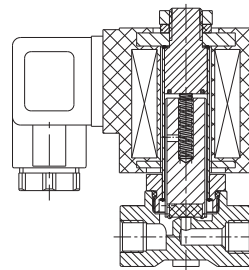
YCSM31-1/2



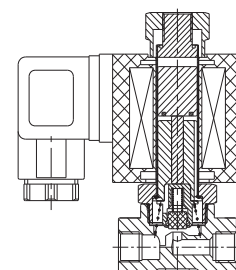
YCSM31-3/8

YCSM32常开

YCSM Plated



NC



NO

YCSM31 , with coil S91B , NC

Valve Body	Port size	Orifice (mm)	Cv	Min Pressure	Max Pressure		Seals Material	Body Material	Coil
					AC(22VA)	DC(17W)			
YCSM31101X X X	1/8"	1.0	0.09	0.0MPa	3.0MPa	3.0MPa	NBR EPDM Viton PTFE	Brass ss304	S91B
YCSM31161X X X	1/8"	1.6	0.11	0.0MPa	3.0MPa	3.0MPa			S91B
YCSM31251 X X X	1/8"	2.5	0.18	0.0MPa	3.0MPa	3.0MPa			S91B
YCSM31301X X X	1/8"	3.0	0.3	0.0MPa	3.0MPa	2.5MPa			S91B
YCSM31252 X X X	1/4"	2.5	0.18	0.0MPa	3.0MPa	3.0MPa			S91B
YCSM31302 X X X	1/4"	3.0	0.3	0.0MPa	3.0MPa	2.5MPa			S91B
YCSM31352 X X X	1/4"	3.5	0.34	0.0MPa	2.2MPa	1.5MPa			S91B
YCSM31402 X X X	1/4"	4.0	0.5	0.0MPa	1.7MPa	1.2MPa			S91B
YCSM31452X X X	1/4"	4.5	0.61	0.0MPa	1.3MPa	1.0MPa			S91B
YCSM31403 X X X	3/8"	4.0	0.5	0.0MPa	1.7MPa	1.2MPa			S91B
YCSM31453 X X X	3/8"	4.5	0.61	0.0MPa	1.3MPa	1.0MPa			S91B
YCSM31503 X X X	3/8"	5.0	0.71	0.0MPa	0.8MPa	0.5MPa			S91B
YCSM31603X X X	3/8"	6.0	0.80	0.0MPa	0.4MPa	0.3MPa			S91B
YCSM31114X X X	1/2"	10.0	1.72	0.0MPa	0.1MPa	0.05MPa			S91B



YCSM32 , with coil S91B , NO

Valve Body	Port size	Orifice (mm)	Cv	Min Pressure	Max Pressure		Seals Material	Body Material	Coil
					AC(22VA)	DC(17W)			
YCSM32101 X X X	1/8"	1.0	0.09	0.0MPa	3.0MPa	3.0MPa	NBR EPDM Viton PTFE	Brass ss304	S91B
YCSM32161 X X X	1/8"	1.6	0.11	0.0MPa	3.0MPa	3.0MPa			S91B
YCSM32251 X X X	1/8"	2.5	0.18	0.0MPa	2.2MPa	2.2MPa			S91B
YCSM32301 X X X	1/8"	3.0	0.3	0.0MPa	1.5MPa	1.5MPa			S91B
YCSM32252 X X X	1/4"	2.5	0.18	0.0MPa	2.2MPa	2.2MPa			S91B
YCSM32302 X X X	1/4"	3.0	0.3	0.0MPa	1.5MPa	1.5MPa			S91B
YCSM32352 X X X	1/4"	3.5	0.34	0.0MPa	0.9MPa	0.9MPa			S91B
YCSM32402 X X X	1/4"	4.0	0.5	0.0MPa	0.6MPa	0.6MPa			S91B
YCSM32452 X X X	1/4"	4.5	0.61	0.0MPa	0.4MPa	0.4MPa			S91B
YCSM32403 X X X	3/8"	4.0	0.5	0.0MPa	0.6MPa	0.6MPa			S91B
YCSM32453 X X X	3/8"	4.5	0.61	0.0MPa	0.4MPa	0.4MPa			S91B
YCSM32503 X X X	3/8"	5.0	0.71	0.0MPa	0.3MPa	0.3MPa			S91B

YCSM41 , with coil S21B , NC

Valve Body	Port size	Orifice (mm)	Cv	Min Pressure	Max Pressure		Seals Material	Body Material	Coil
					AC(30VA)	DC(18W)			
YCSM41161 X X X	1/8"	1.6	0.11	0.0MPa	3.0MPa	3.0MPa	NBR EPDM Viton PTFE	Brass ss304	S21B
YCSM41251 X X X	1/8"	2.5	0.18	0.0MPa	3.0MPa	3.0MPa			S21B
YCSM41301 X X X	1/8"	3.0	0.3	0.0MPa	3.0MPa	3.0MPa			S21B
YCSM41252 X X X	1/4"	2.5	0.18	0.0MPa	3.0MPa	3.0MPa			S21B
YCSM41302 X X X	1/4"	3.0	0.3	0.0MPa	3.0MPa	2.7MPa			S21B
YCSM41352 X X X	1/4"	3.5	0.34	0.0MPa	2.6MPa	1.8MPa			S21B
YCSM41402 X X X	1/4"	4.0	0.5	0.0MPa	2.0MPa	1.4MPa			S21B
YCSM41452 X X X	1/4"	4.5	0.61	0.0MPa	1.6MPa	1.1MPa			S21B
YCSM41403 X X X	3/8"	4.0	0.5	0.0MPa	2.0MPa	1.4MPa			S21B
YCSM41453 X X X	3/8"	4.5	0.61	0.0MPa	1.6MPa	1.1MPa			S21B
YCSM41503 X X X	3/8"	5.0	0.71	0.0MPa	1.0MPa	0.7MPa			S21B
YCSM41603 X X X	3/8"	6.0	0.80	0.0MPa	0.6MPa	0.4MPa			S21B
YCSM41114 X X X	1/2"	10.0	1.72	0.0MPa	0.1MPa	0.1MPa			S21B

Determine valve body code

Type	Orifice (mm)	Port Size	Port Thread	Body Material	Seals Material	Coil	Voltage
YCSM31 YCSM32 YCSM41	10-1.0 45-4.5 16-1.6 50-5.0 25-2.5 60-6.0 30-3.0 80-8.0 35-3.5 11-10.0 40-4.0	1-1/8" 2-1/4" 3-3/8" 4-1/2"	G-G/BSP N-NPT Thread F-Flange	B-Brass S-SS304	N-NBR E-EPDM V-Viton	S11B S21B S91B EX1421	1、AC220V 2、DC24V 3、AC110V 4、DC12V 5、AC24V 6、DC6V 7、DC36V 8、AC120V

Example : YCSM32-30-1-GBV-S91B1, YCSM32 series, NO, 3.0mmOrifice , G1/8" Port Thread, brass body,Viton Seals , coil S91B, AC220V,DIN.

YCSM31 , with coil S91B , Manifold , NC

Valve Body	Port size	Orifice (mm)	Cv	Min Pressure	Max Pressure		Seals Material	Body Material	Coil
					AC(22VA)	DC(13W)			
YCSM3116X X X	1/8"	1.6	0.11	0.0MPa	1.6MPa	1.6MPa	NBR EPDM Viton	Brass ss304 AL	S11B
YCSM3125 X X X	1/8"	2.5	0.18	0.0MPa	1.2MPa	1.2MPa			S11B
YCSM3130X X X	1/8"	3.0	0.3	0.0MPa	1.0MPa	1.0MPa			S11B
YCSM3125 X X X	1/4"	2.5	0.18	0.0MPa	1.2MPa	1.2MPa			S11B
YCSM3130 X X X	1/4"	3.0	0.3	0.0MPa	1.0MPa	1.0MPa			S11B
YCSM3135 X X X	1/4"	3.5	0.34	0.0MPa	0.8MPa	0.8MPa			S11B
YCSM3140 X X X	1/4"	4.0	0.5	0.0MPa	0.6MPa	0.6MPa			S11B

YCSM31 , with coil S11B , Manifold , NC

Valve Body	Port size	Orifice (mm)	Cv	Min Pressure	Max Pressure		Seals Material	Body Material	Coil
					AC(22VA)	DC(17W)			
YCSM31161 X X X	1/8"	1.6	0.11	0.0MPa	1.6MPa	1.6MPa	NBR EPDM Viton	Brass ss304	S91B
YCSM31251 X X X	1/8"	2.5	0.18	0.0MPa	1.2MPa	1.2MPa			S91B
YCSM31301 X X X	1/8"	3.0	0.3	0.0MPa	1.0MPa	1.0MPa			S91B
YCSM31252 X X X	1/4"	2.5	0.18	0.0MPa	1.2MPa	1.2MPa			S91B
YCSM31302 X X X	1/4"	3.0	0.3	0.0MPa	1.0MPa	1.0MPa			S91B
YCSM31352 X X X	1/4"	3.5	0.34	0.0MPa	0.8MPa	0.8MPa			S91B
YCSM31402 X X X	1/4"	4.0	0.5	0.0MPa	0.6MPa	0.6MPa			S91B

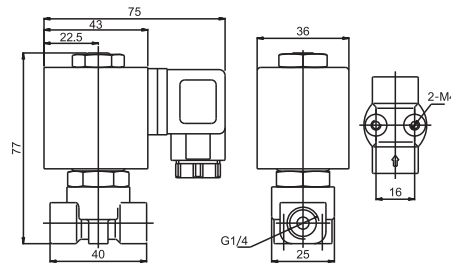


Combined Plated body code

Type	Way	Nos	Orifice (mm)	Port Size	Port Thread	Body	Seals	Coil	Voltage
YCSM31 YCSM32	1- Manifold One Inlet Several Outlets 2- Manifold Several Inlet one Outlets 3- Plated One Inlet Several Outlet 4- Plated Several Inlets One Outlet A - Flange A B - Flange B	1 4 2 5 3 6 ...	16 - 1.6 20 - 2.0 30 - 3.0 35 - 3.5 40 - 4.0	1 - 1/8" 2 - 1/4" 3 - 3/8" 4 - 1/2"	G - G/BSP N - NPT Thread F - Flange	B - Brass A - Aluminum S - stainless steel P - Plastic	N - NBR E - EPDM V - Viton	S11B S91B S21B EX1421	1、AC220V 2、DC24V 3、AC110V 4、DC12V 5、AC24V 6、DC6V 7、DC36V 8、AC120V

Example : YCSM31-15-30-2-GBV-S11B1, YCSM31 series, NC, 3.0mmOrifice , G1/4"Port Thread, brass body,NBR Seals , coil S11B, AC220V,DIN.

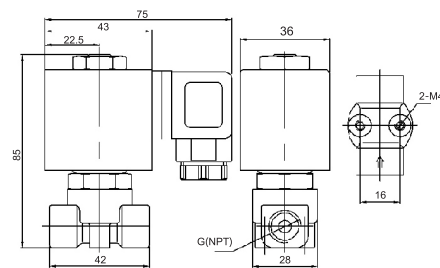
Dimension(mm)



YCSM31-1/8G(N), 1/4G(N)

Coil : S91B/ S11B

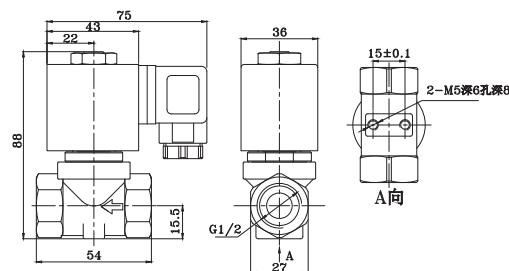
Material: stainless steel / brass



YCSM31-3/8G(N)

Coil : S91B/ S11B

Material: stainless steel / brass

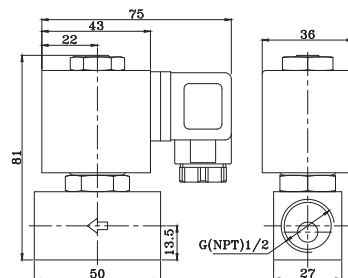


YCSM31-1/2G(N)

Coil : S91B/ S11B

Material: stainless steel / brass

(Type 1)

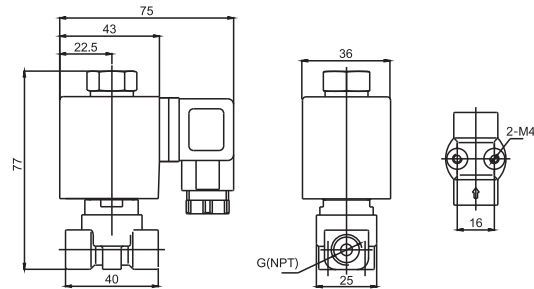


YCSM31-1/2G(N)

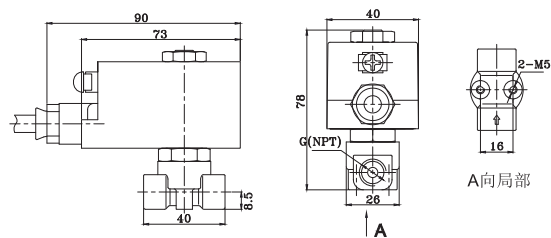
Coil : S91B/ S11B

Material: stainless steel / brass

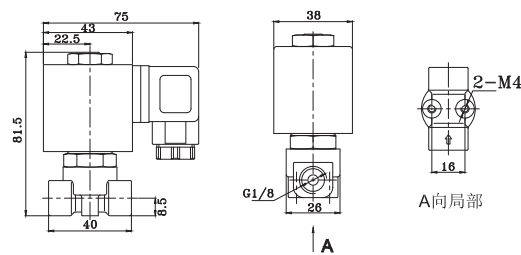
(Type 2)



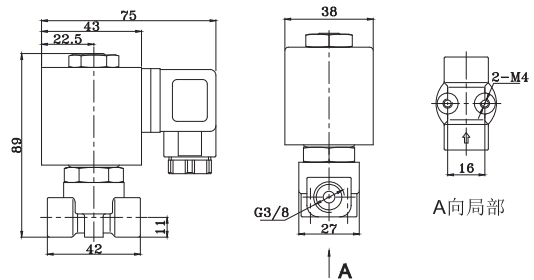
YCSM32-1/8G(N), 1/4G(N)
Coil : S91B/ S11B
Material: stainless steel / brass



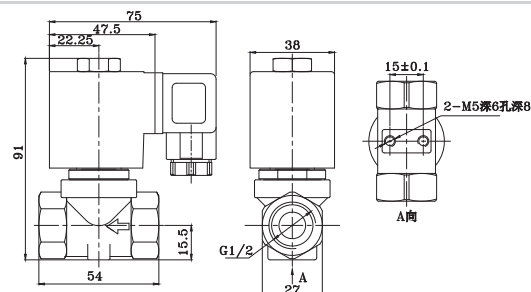
YCSM31-1/8G(N), 1/4G(N)
Coil : EX1421
Material: stainless steel / brass



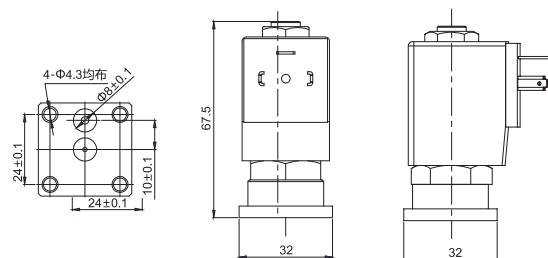
YCSM41-1/8G(N), 1/4G(N)
Coil : S21B
Material: stainless steel / brass



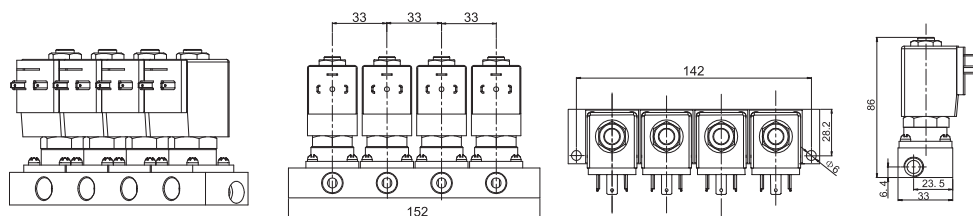
YCSM41-3/8G(N)
Coil : S21B
Material: stainless steel / brass



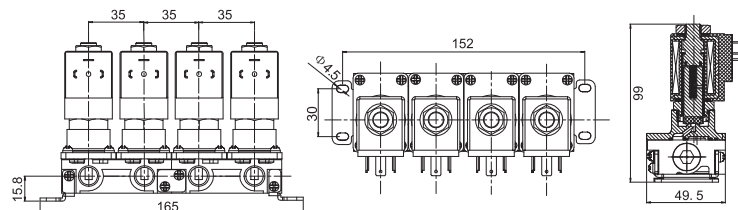
YCSM41-1/2G(N)
Coil : S21B
Material: stainless steel / brass



YCSM31 Flange



YCSM31 Plated



YCSM31 Combined