



2.2.1

HYDRAULIC PILOT REMOTE CONTROL JOYSTICKS

Type : YDVH1、YDVH3

Benefits:

- Several ergonomic grips with various E contacts
- Hydraulic proportional output
- Low hysteresis, high precision



YDVH1



YDVH3
(Multi-function handle lever)

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Features

1. Applications



Excavator



Tractor loader backhoes

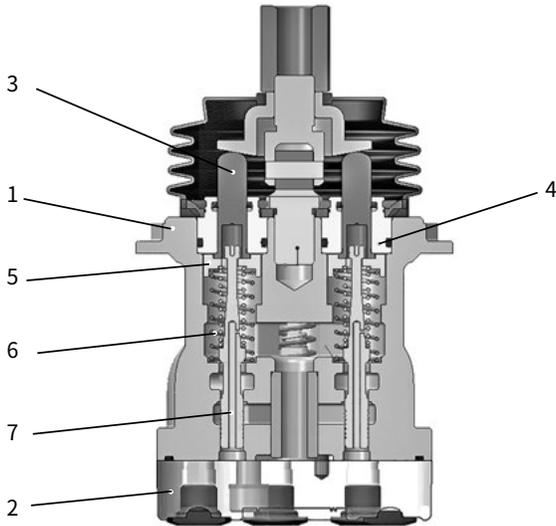


Wheel loaders



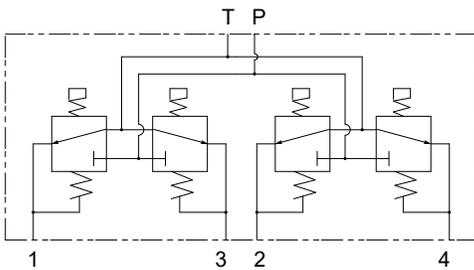
Cranes

Section view



1. Valve body
2. Valve cover
3. Rubber boot
4. Rod seat
5. Spring seat
6. Spring
7. Spool

Function symbol

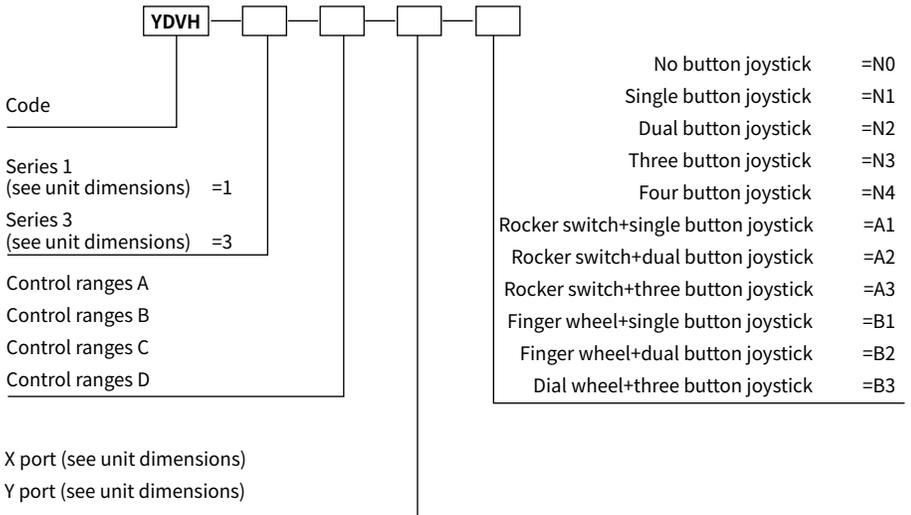


Technical data

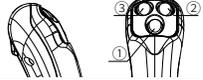
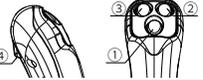
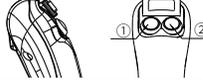
Working medium	Hydraulic oil
Pressure fluid temperature range	-20°C ~+90°C
Viscosity range	10~380 cSt
Inlet pressure	60bar
Back pressure at port T	≤ 3bar
Pilot oil flow	≤ 20L/min
Switch Type	
The specified electricity is loaded	Voltage: 12~30 VDC Current: 100~3000 mA

02

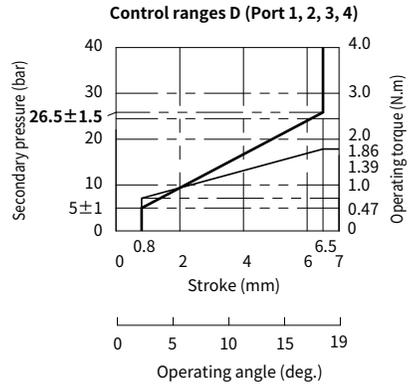
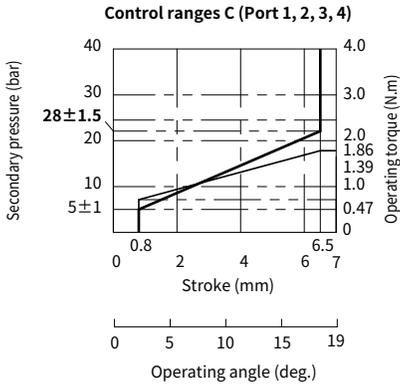
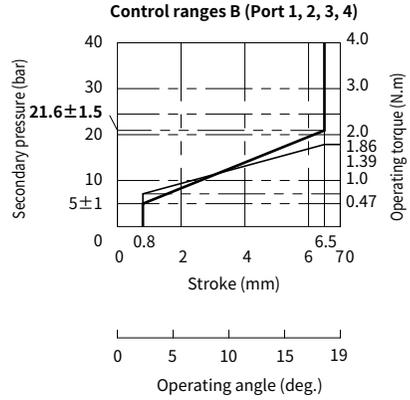
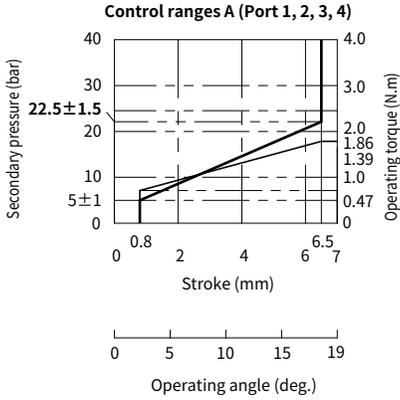
Ordering code



Schematic diagram of joystick

Describe	Number	Graphic
No button joystick	N0	
Single button joystick	N1	
Dual button joystick	N2	
Three button joystick	N3	
Four button joystick	N4	
Rocker switch+single button joystick	A1	
Rocker switch+dual button joystick	A2	
Rocker switch+three button joystick	A3	
Finger wheel+single button joystick	B1	
Finger wheel+dual button joystick	B2	
Dial wheel+three button joystick	B3	

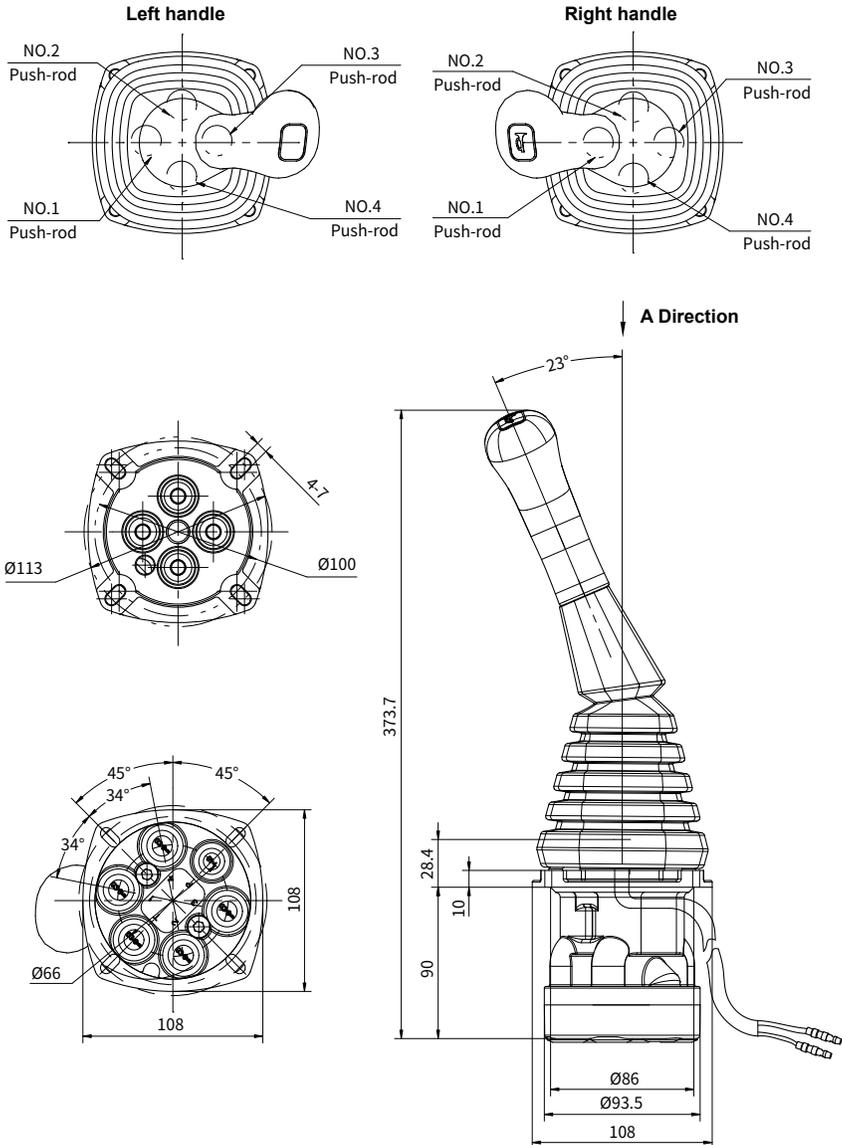
Control ranges



02

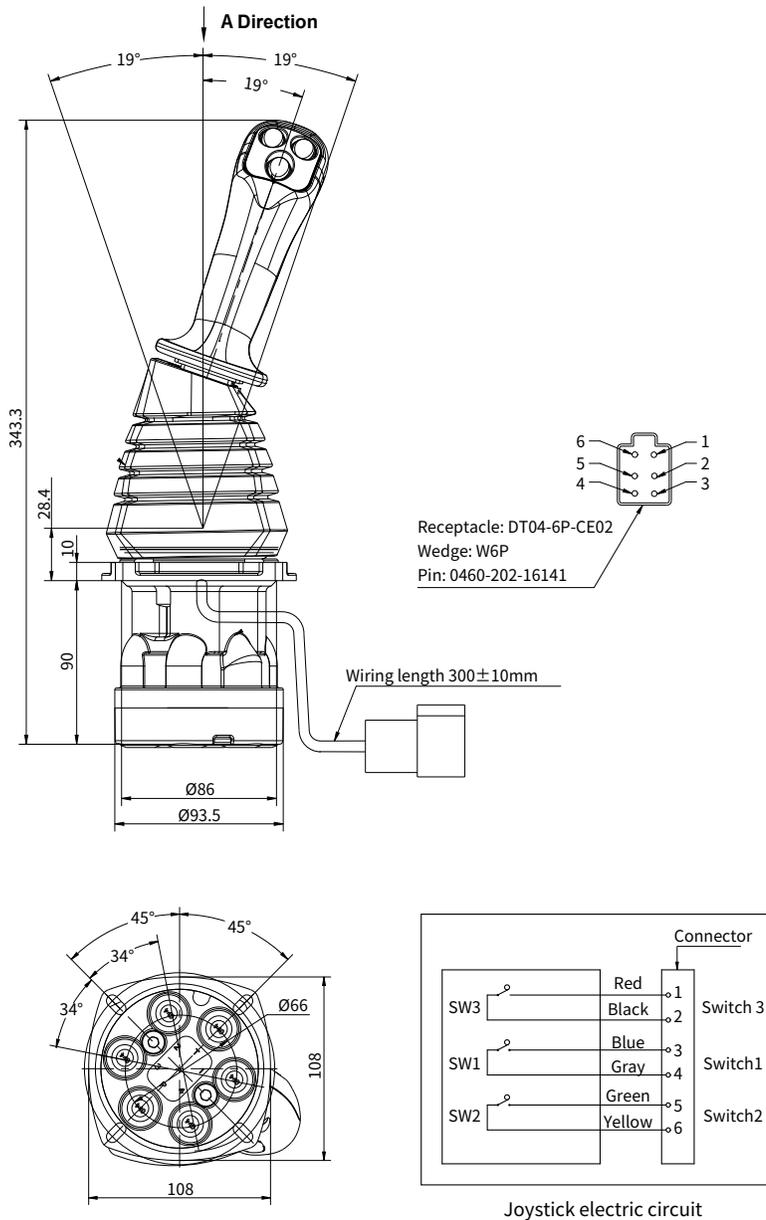
Unit dimensions

• YDVH1



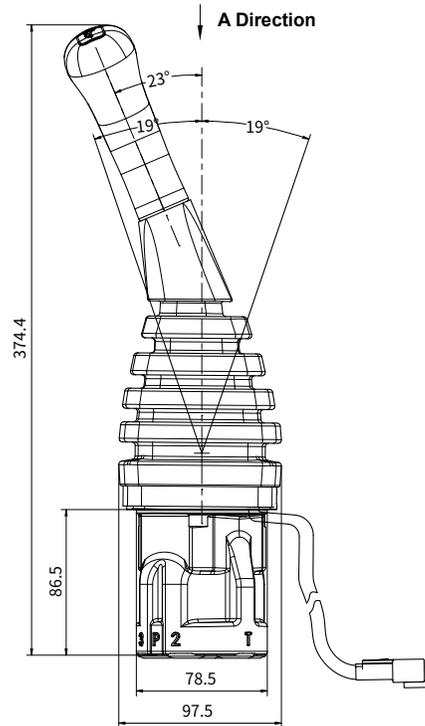
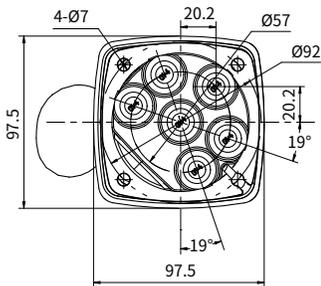
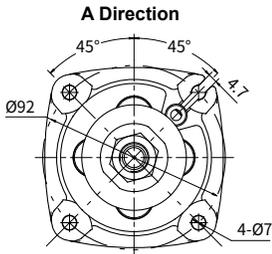
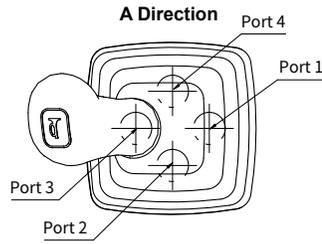
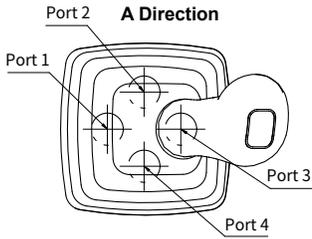
Unit dimensions

· YDVH1 (Multi-function handle lever)



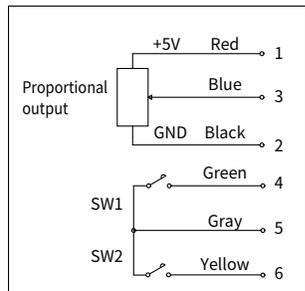
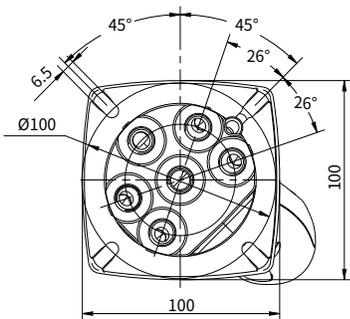
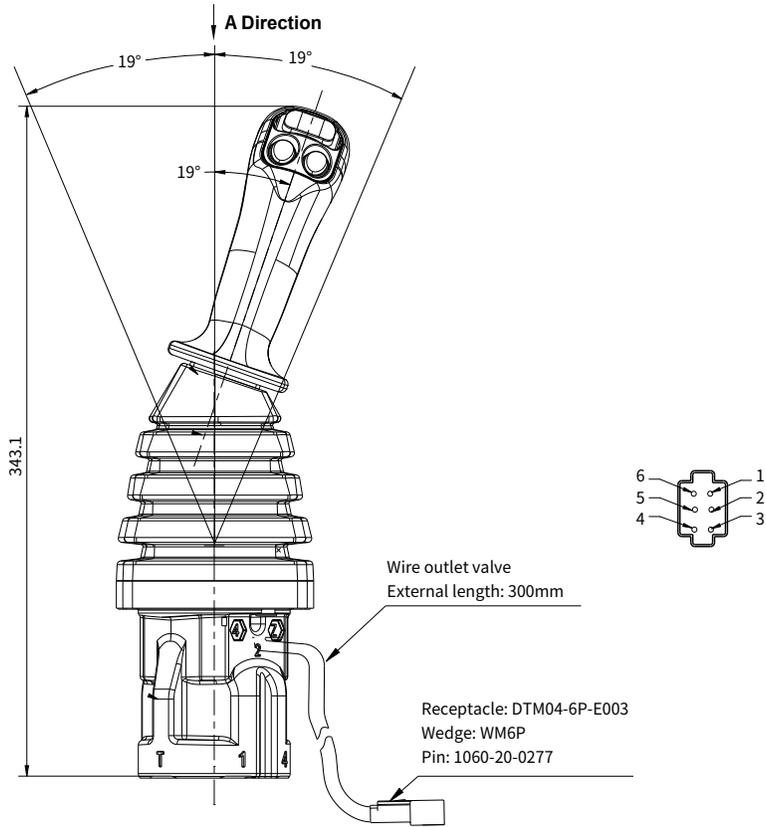
Unit dimensions

· YDVH3



Unit dimensions

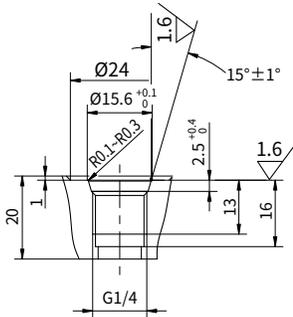
• YDVH3 (Multi-function handle lever)



Joystick electric circuit

Unit dimensions

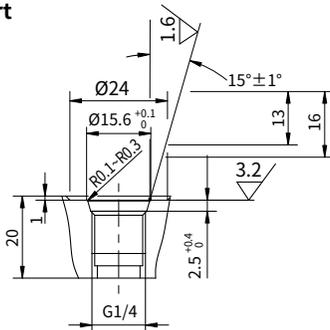
• X port



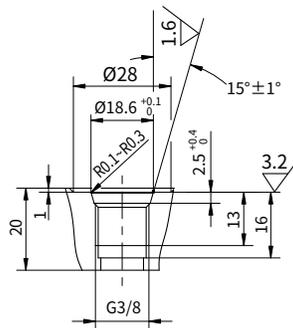
Port: P, 1, 2, 3, 4, T

02

• Y port



Port: P



Port: 1, 2, 3, 4, T



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2.2.2

HYDRAULIC PILOT REMOTE CONTROL JOYSTICKS

Type : YDVH4

Benefits:

- Several ergonomic grips with various E contacts
- Hydraulic proportional output
- Low hysteresis, high precision



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Features

1. General introduction

- YDVH4 series handles were developed specifically for Skid steer loader.
- The left handle integrated shuttle valve function.
- The right handle integrates electromagnetic suction function.
- The handle lever can be configured with a variety of switches.

2. Applications



Skid steer loader



Tractor loader backhoes

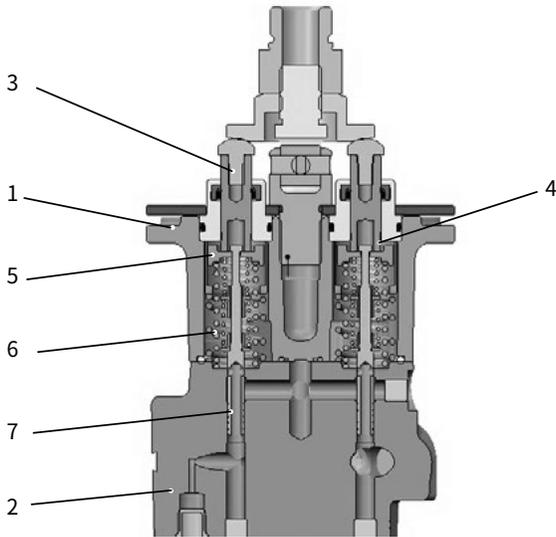


Wheel loaders



Excavator

Section view

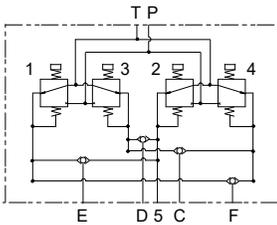


1. Valve body
2. Valve cover
3. Rubber boot
4. Rod seat
5. Spring seat
6. Spring
7. Spool

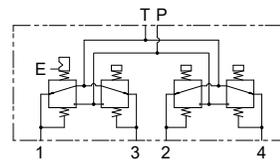
02

Function symbol

• YDVH4 left joystick



• YDVH4 right joystick

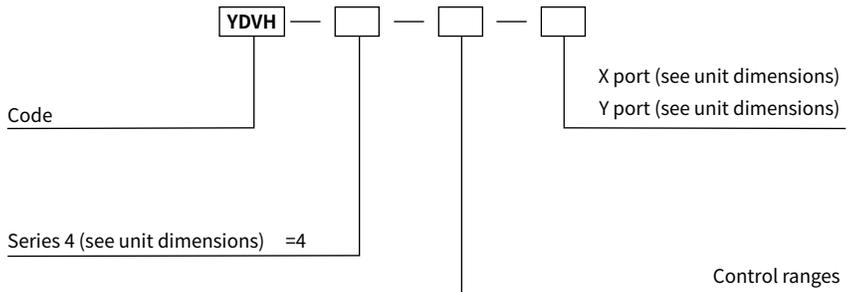


Technical data

Working medium	Hydraulic oil
Pressure fluid temperature range	-20°C ~+90°C
Viscosity range	10~380 cSt
Inlet pressure	100 bar
Back pressure at port T	≤ 3 bar
Pilot oil flow	≤ 20 L/min
Switch Type	Rocker switch, button switch
The specified electricity is loaded	Voltage: 12~30 VDC Current: 100~3000 mA

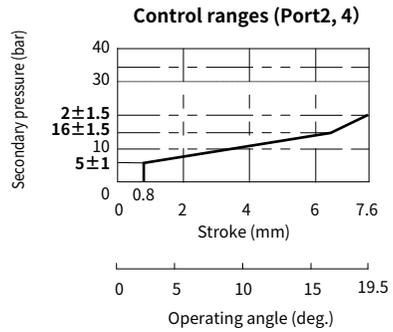
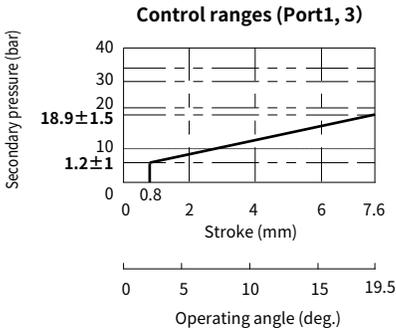
02

Ordering code



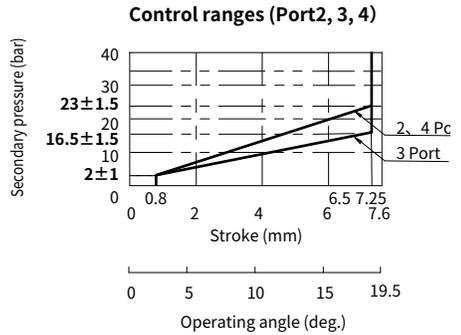
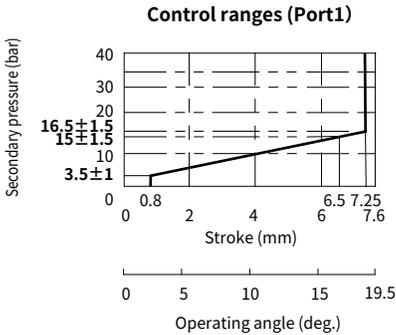
Control ranges

• YDVH4 left joystick



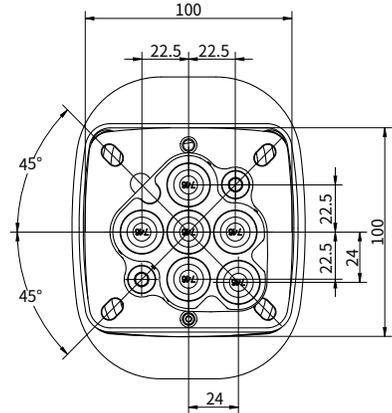
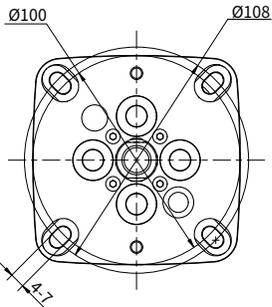
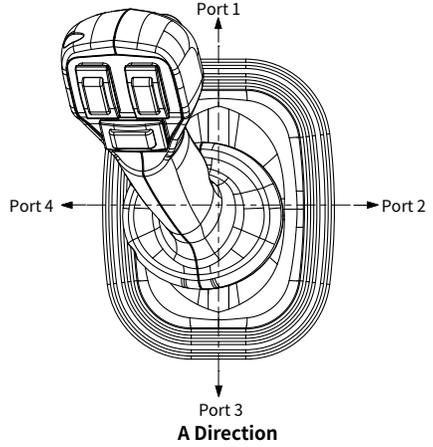
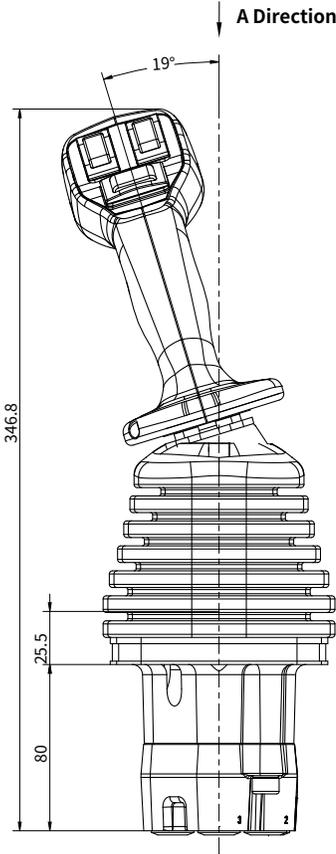
02

• YDVH4 right joystick



Unit dimensions

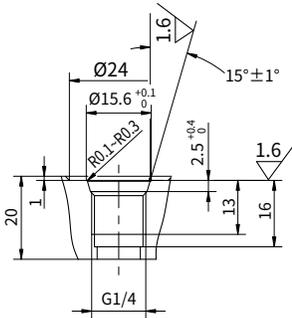
· YDVH4



02

Unit dimensions

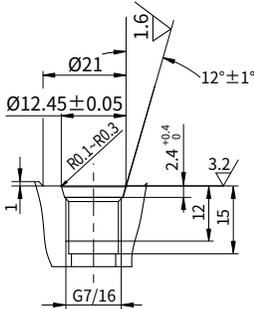
· X port



Port: P, T, 1, 2, 3, 4

02

· Y port



Port: P, T, 1, 2, 3, 4



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2.2.3

HYDRAULIC PILOT REMOTE CONTROL JOYSTICKS

Type : YDVH5

Benefits:

- Several ergonomic grips with various E contacts
- Hydraulic proportional output
- Low hysteresis, high precision



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Features

1. General introduction

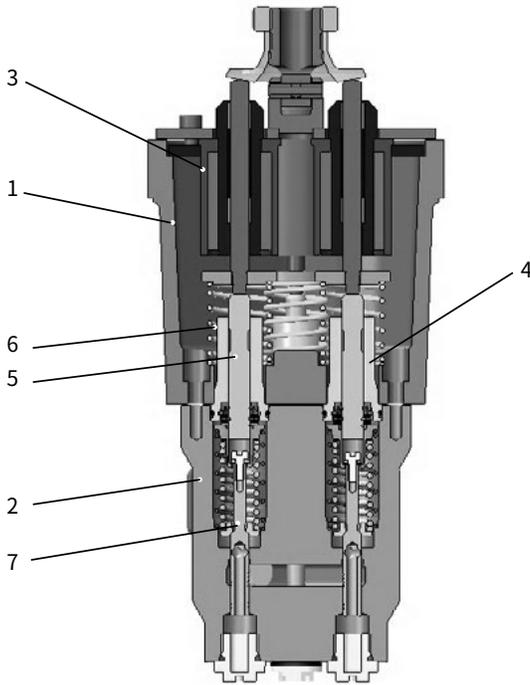
- YDVH5 series handles were developed specifically for loader.
- The handle integrates electromagnetic suction function.
- The handle lever can be configured with a variety of switches.

2. Applications



Wheel loaders

Section view

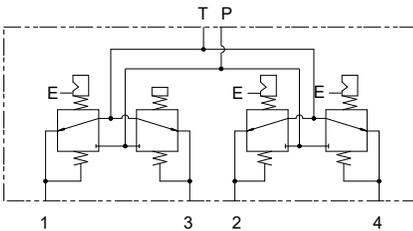


1. Valve body
2. Valve body
3. Electromagnet
4. Rod seat
5. Rod
6. Spring
7. Spool

02

Function symbol

· YDVH5 joystick

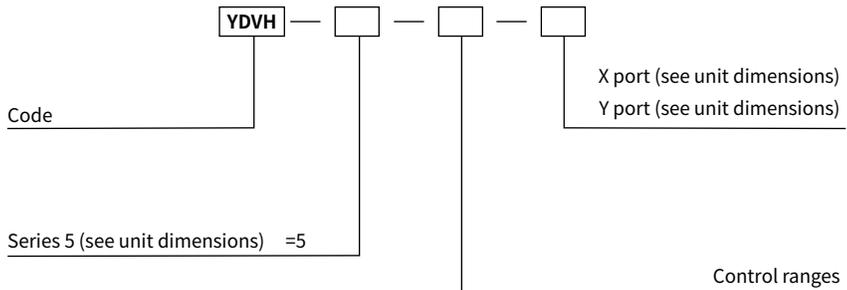


Technical data

Working medium	Hydraulic oil
Pressure fluid temperature range	-20°C ~+90°C
Viscosity range	10~380 cSt
Inlet pressure	100 bar
Back pressure at port T	≤ 3 bar
Pilot oil flow	≤ 20 L/min
Switch Type	Rocker switch, button switch
The specified electricity is loaded	Voltage: 12~30 VDC Current: 100~3000 mA

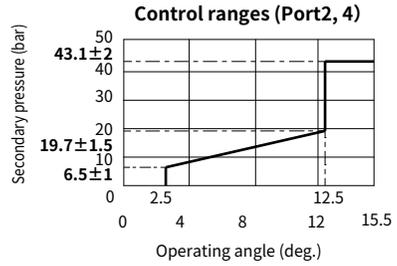
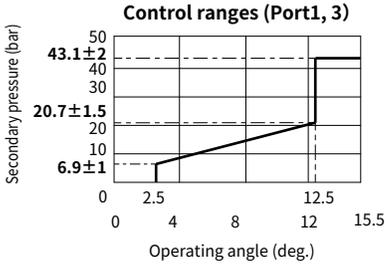
02

Ordering code



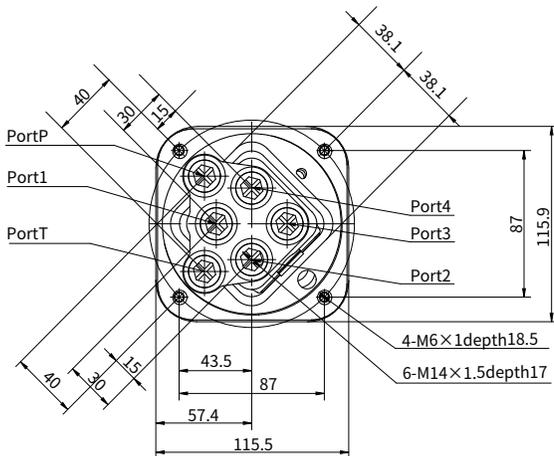
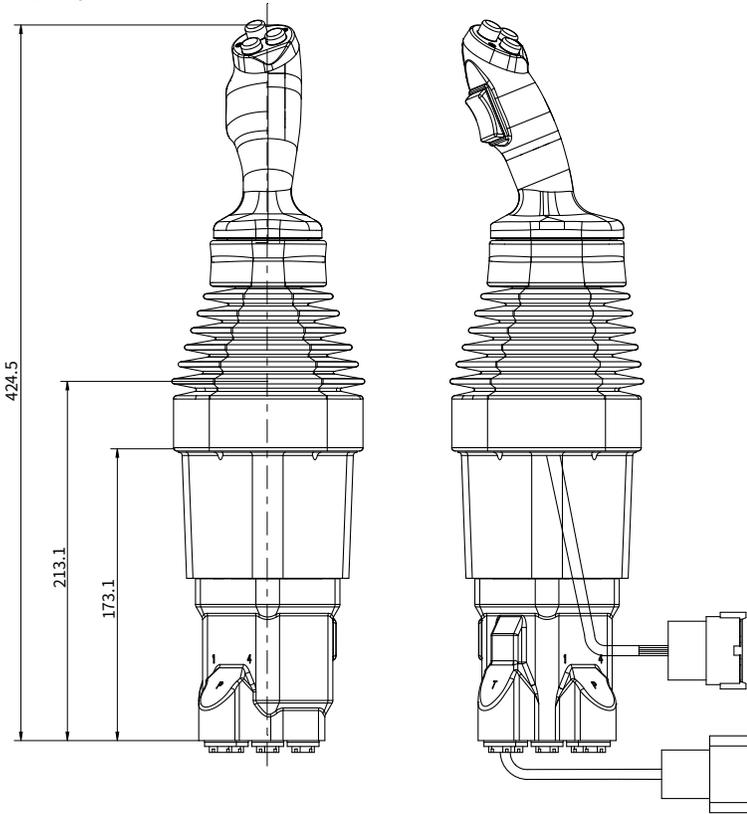
Control ranges

• YDVH5



Unit dimensions

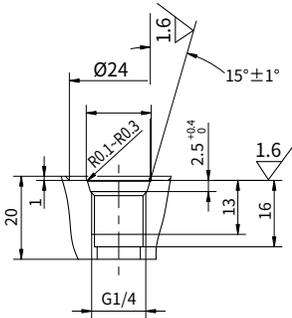
· YDVH5



02

Unit dimensions

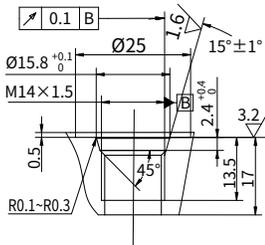
· X port



Port: P, T, 1, 2, 3, 4

02

· Y port



Port: P, T, 1, 2, 3, 4



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2.2.4

HYDRAULIC PILOT REMOTE CONTROL JOYSTICKS

Type : YDVH6

Benefits:

- Several ergonomic grips with various E contacts
- Hydraulic proportional output
- Low hysteresis, high precision



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Features

1. General introduction

- The YDVH6 series is a handle developed specifically for loader applications;
- The handle can integrate three electromagnetic engagement functions;
- The handle lever can be configured with a variety of switches.

2. Applications

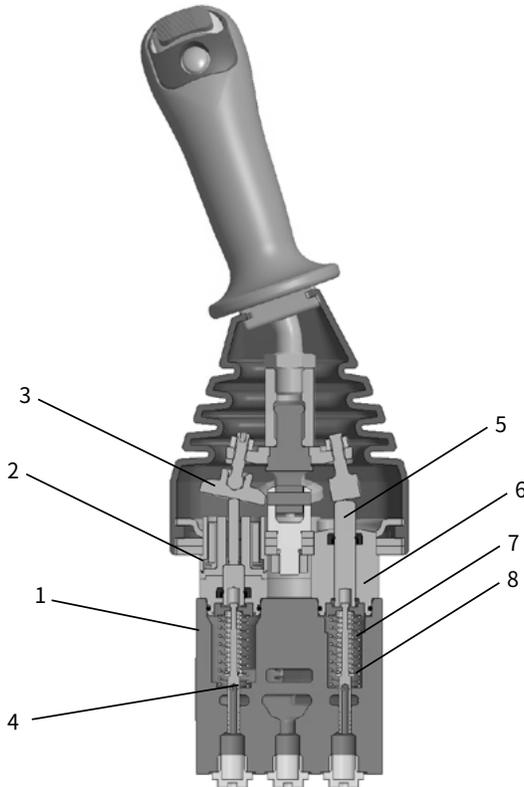


Wheel loaders



Tractor loader backhoes

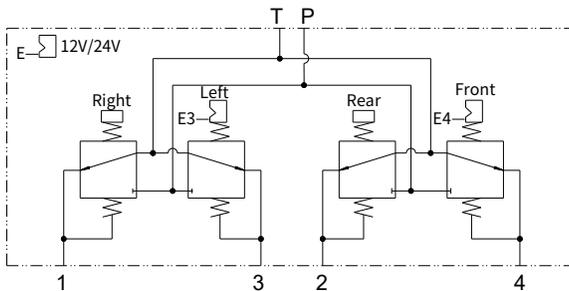
Section view



1. Valve body
2. Solenoid coil
3. Retainer
4. Valve stem
5. Tappet
6. Tappet holder
7. Pressure regulating spring
8. Spring
9. Return spring

Function symbol

· YDVH6 joystick

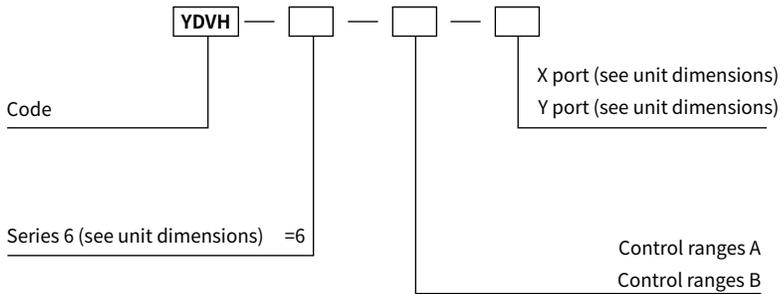


Technical data

Working medium	Hydraulic oil
Pressure fluid temperature range	-20°C ~+90°C
Viscosity range	10~380 cSt
Inlet pressure	50 bar
Back pressure at port T	≤ 3 bar
Pilot oil flow	≤ 16 L/min
Switch Type	FNR switch,Rocker switch,Push button switch
The specified electricity is loaded	Voltage: 12 to 30 VDC Current: 100 to 3000 mA

02

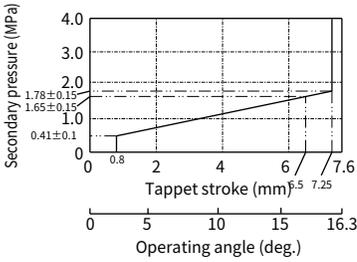
Ordering code



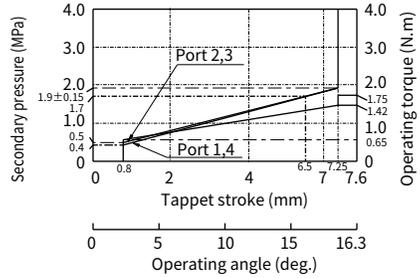
Control ranges

• YDVH6

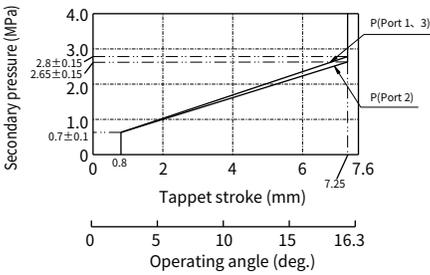
Curve A
Control curve(port 4)



Curve B



Control curve(port 1,2,3)



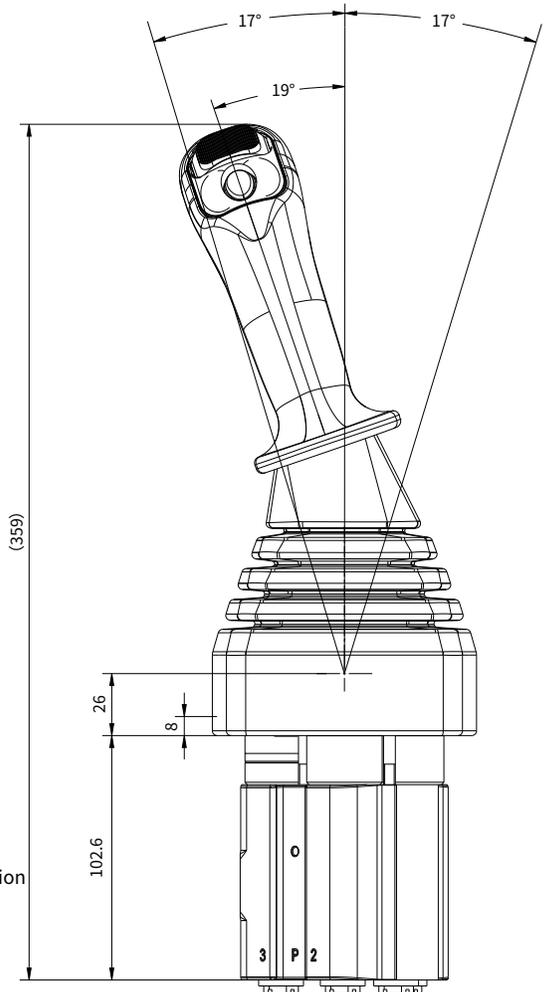
02

Unit dimensions

• YDVH6



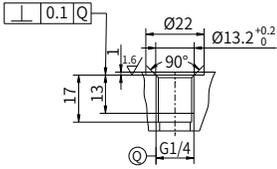
Note: If the Y port is selected, the dimension changes from 78.5 to 82.



02

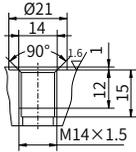
Unit dimensions

• Port X

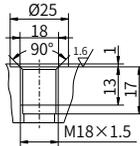


Port size P,1,2,3,4,T

• Port Y



Port size 1,2,3,4,P



Port size T



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