

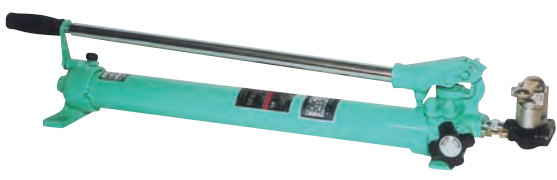
TWAD type Hand Operated Pump for hydraulic (H) type

Low pressure relief type

Model number	TWA	D	0.9
Hand operated pump			
With manual control valve			
Usable oil volume (ℓ)			

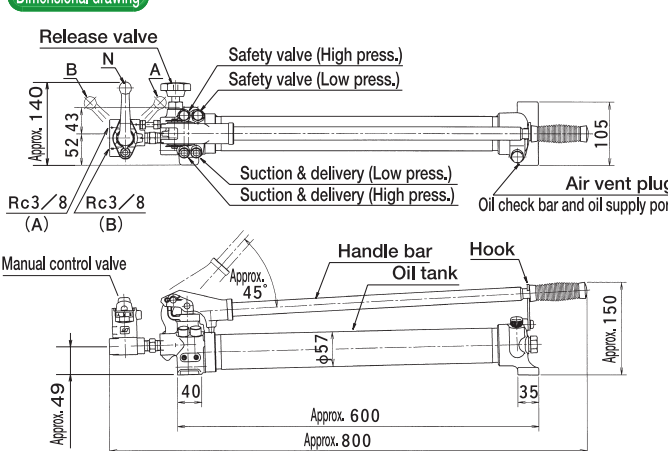
Features

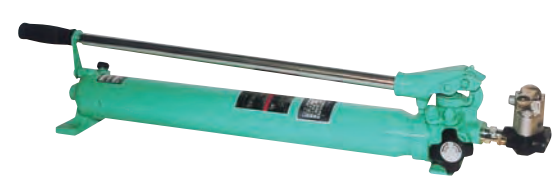
- Pump body is made of special steel and having enough pressure resistant.
- High and low pressure, two stage oil output
- Use this pump with horizontal and contact us when using with other uses.



TWAD-0.9

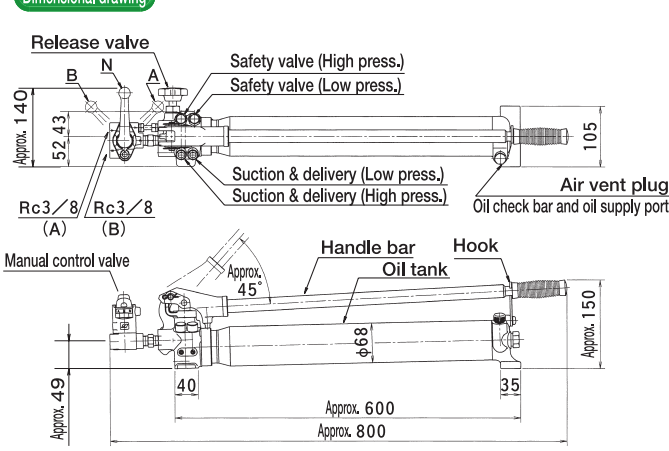
Dimensional drawing

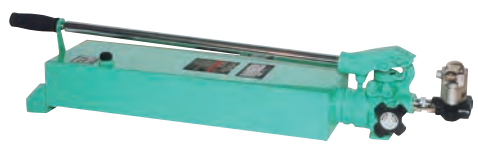




TWAD-1.3

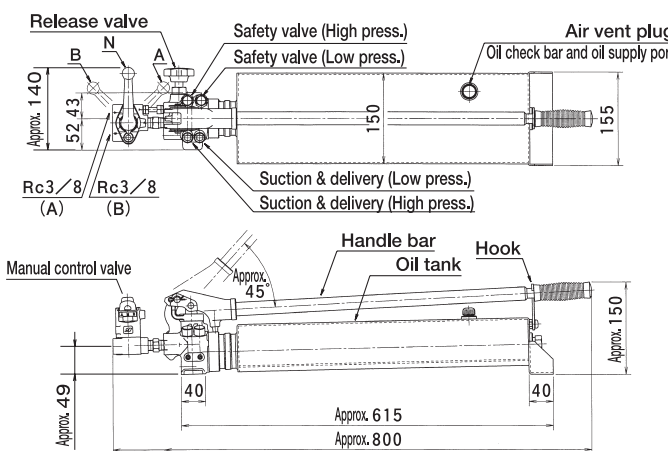
Dimensional drawing



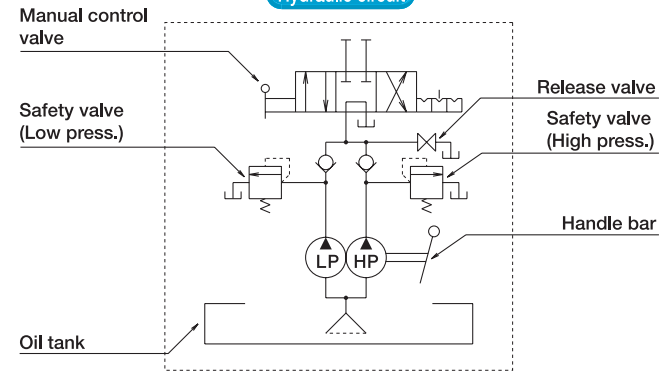


TWAD-4

Dimensional drawing



Hydraulic circuit



Specifications

Model	Items	Usable oil volume (ℓ)	Working pressure MPa		Oil delivery (ml/stroke)		Connection port	Weight approx. (kg)
			High	Low	High	Low		
TWAD-0.9		0.9	72	3	2	11	Rc3/8	9.0
TWAD-1.3		1.3						10.0
TWAD-4		4						14.2

Note) Use ISO VG10 hydraulic working oil or equivalent oil.


TWAD type Hand Operated Pump for hydraulic (H) type

Low pressure unload type

Model number	TWA	D	2.3
Hand operated pump			
With manual control valve			
Usable oil volume (ℓ)			

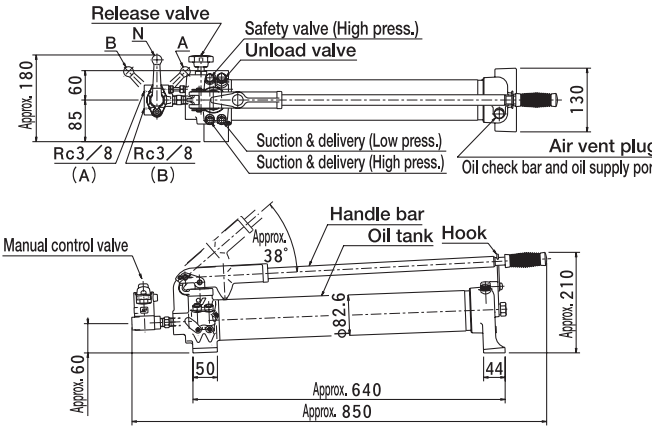
Features

- Pump body is made of special steel and having enough pressure resistant.
- High and low pressure, two stage oil output
- Use this pump with horizontal and contact us when using with other uses.

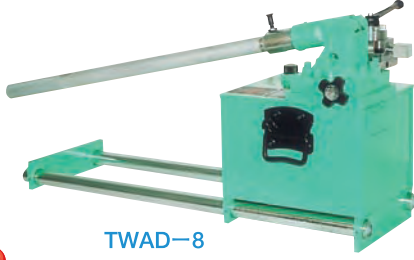


TWAD-2.3

Dimensional drawing



Release valve
Safety valve (High press.)
Unload valve
Suction & delivery (Low press.)
Suction & delivery (High press.)
Air vent plug
Oil check bar and oil supply port
Manual control valve
Handle bar
Oil tank
Hook

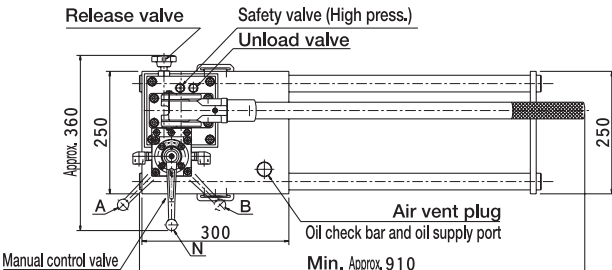


TWAD-8

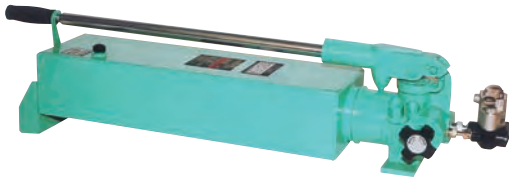
Features

- Low high two stage large output pump applicable for big size jacks due to large usable oil

Dimensional drawing

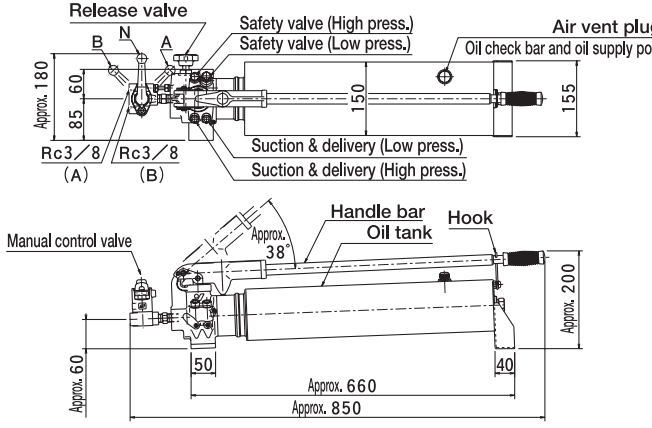


Release valve
Safety valve (High press.)
Unload valve
Suction & delivery (Low press.)
Suction & delivery (High press.)
Air vent plug
Oil check bar and oil supply port
Manual control valve

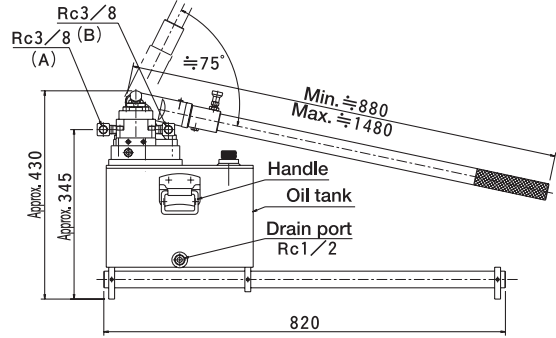


TWAD-6

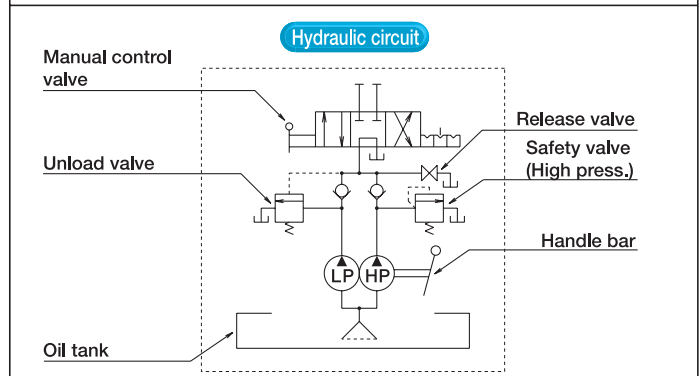
Dimensional drawing



Release valve
Safety valve (High press.)
Safety valve (Low press.)
Air vent plug
Oil check bar and oil supply port
Suction & delivery (Low press.)
Suction & delivery (High press.)
Manual control valve
Handle bar
Oil tank
Hook



Rc3/8 (A)
Rc3/8 (B)
≈75°
Min. ≈880
Max. ≈1480
Approx. 430
Approx. 345
Handle
Oil tank
Drain port
Rc1/2
820



Specifications

Model	Items	Usable oil volume (ℓ)	Working pressure MPa		Oil delivery (mℓ/stroke)		Connection port	Weight approx. (kg)
			High	Low	High	Low		
TWAD-2.3		2.3	72		2	24	Rc3/8	14.8
TWAD-6		6	72	3				20.5
TWAD-8		8	72		9	90		59
TWAD-8M		8	21	2	22			59

Note) Use ISO VG10 hydraulic working oil or equivalent oil.