

Hubei Chaoxing Hydraulic Automation Co., Ltd.

For so many years, we focus on making manual hydraulic pumps.
Everyday, we progress. Making best pumps is our only goal.
If you want better pump, just give a try to the new one you find, compare
with the old one you are using. you will make a rational choice.
Give us a try, we return you a surprise.

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Pump selection instructions

How to select your pump from Cx-hydraulic pumps?

1. If you need a single-piston pump without control valve and oil-tank, you can find in AP series and DP series.
2. If you need a single-piston pump with control-valve and without oil-tank, you can find in BP series and DP series.
3. If you need a single-piston pump with control-valve and oil-tank, you can find in BP, DP and PP series.
4. If you want a two-speed pump with control valve and without oil-tank, you can find in CP and DP series.
5. If you want a two-speed pump with control valve and oil-tank, you can find in CP and DP series.
6. If you need a pump to drive two-acting cylinder, you can attach a 4-way valve to the pump. we supply all Cx-hydraulic pumps with attached 4-way valve except for AP series.
7. If you want your pump work more efficient, you can choose DPD from DP series, which is actually two pumps connected in parallel.

Surface treatment

All exposed surfaces of standard pumps have one coat of industrial-quality blue paint. other requirements can be discussed.

Recommended oil

Recommended oil: light hydraulic oil (ISO grade 15, 22, 32 or 46) will give satisfactory performance. In an emergency, when the suggested oils are not available, use 5w or 10w motor oil or automatic transmission fluid.

DP series pumps introduction

Compared with all other series Cxhydraulic pumps, DP series has more models, is more funtional and more easily to be installed. Whenever you want a hand-operated pump,you almost can find a one in DP series which can meet your requirement.

1. Features

- 1.1. Hand-operated
- 1.2. Side-mounting and all models of DP series has the same exterior and the same mounting dimensions
- 1.3. Up to 10000 Psi
- 1.4. 600mm operating handle lever
- 1.5. Built-in unloading-valve and release-valve are available for selection

2. DPDXX pumps

DPD---stands for double-acting pump,or two pumps connected in parallel;

XX---stands for "effective-piston" diameter.

Note: speed of piston times the area of "effective-piston" equals the rate of oil discharge. no matter what direction the piston move.

2.1. Parameters of DPDXX pumps

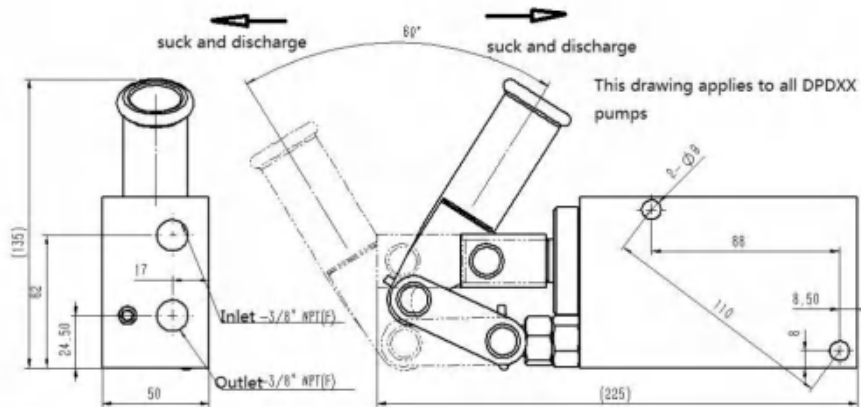
Model	MAX pressure (Psi)	Volume per Stroke (Between 60 degrees Angle) (ml per cycle)	Lever Force per one MPa (Newton)	Inlet/Outlet Port Size (Inches)	Net Weight (Kilogram)
DPD16	7500	15	14	3/8"-NPTF	4.5
DPD20	5000	24	21	3/8"-NPTF	4.5
DPD25	3200	36	33	3/8"-NPTF	4.5
DPD28	2500	44	42	3/8"-NPTF	4.5
DPD35	1500	70	65	3/8"-NPTF	4.5

Built-in overloading-valve is available, just attach"-ov" to the model you select

2.2. Picture of DPDXX



2.3. Mounting dimensions of DPDXX



2.4. DPDXX-R

DPDXX with a built-in release valve becomes DPDXX-R

R--stands for release valve

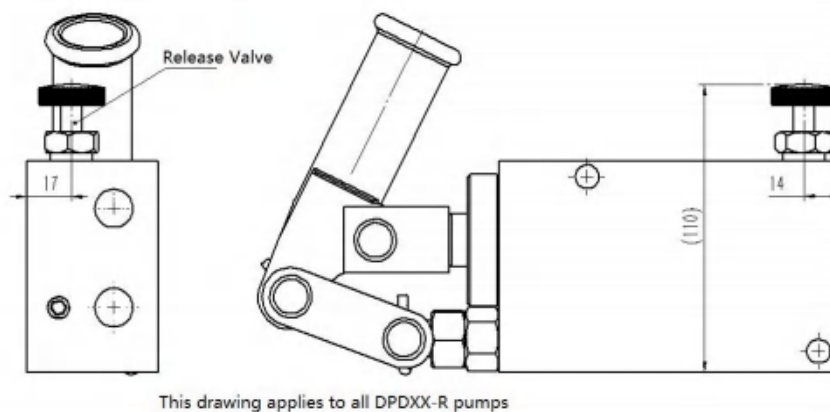
DPDXX-R has the same parameters and same exterior as DPDXX

Built-in overloading-valve is available, just attach "-ov" to the model you select

Below is the Picture of DPDXX-R



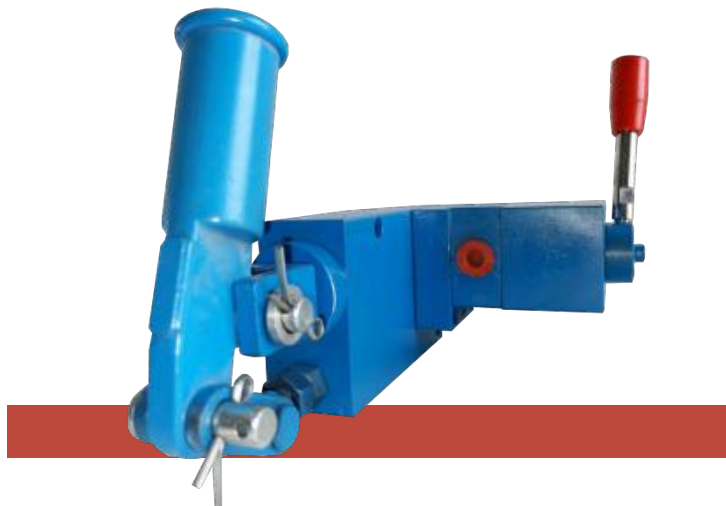
Below is the drawing of DPDXX-R



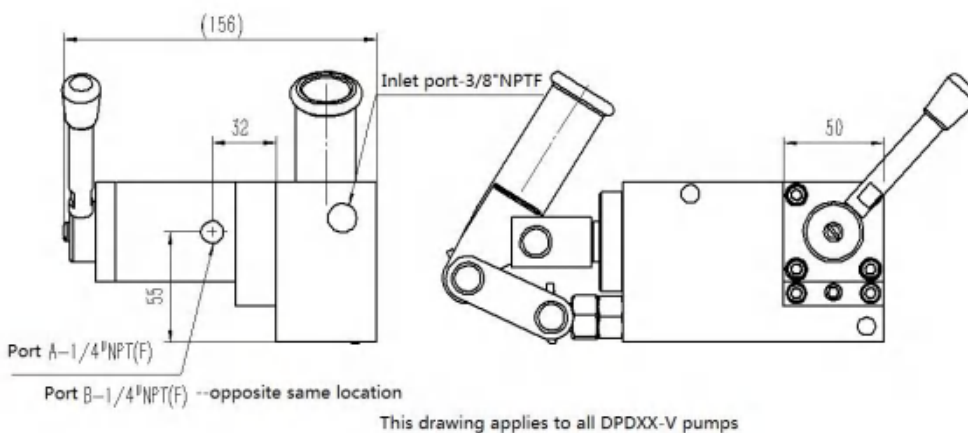
2.5. DPDXX-V

DPDXX with a attached 4-way valve becomes DPDXX-V;
 V--stands for 4-way valve;
 DPDXX-V has the same parameters of DPDXX except for the pressure ports
 Built-in overloading-valve is available, just attach " -ov" to the model you select

Below is the picture of DPDXX-V



Below is the mounting dimensions of DPDXX-V



3. DPSXX pumps

DPS---single piston pump

XX----“effective-piston” diameter

Note: when piston pushes oil out, the speed of piston times the area of “effective-piston” equals the rate of oil discharge.

DPSXX has the same exterior and mounting dimensions as DPDXX

DPSXX with a built-in release vlv becomes DPSXX-R and it has the same exterior and dimensions as DPDXX-R

DPSXX with a attached 4-way valve becomes DPSXX-V and it has the same exterior and dimensions as DPDXX-V

It is recommended that DPSXX is installed with its ports downward

Parameters of DPSXX

Model	MAX pressure (Psi)	Volume per Stroke (Between 60 degrees Angle) (ml per cycle)	Lever Force per one MPa (Newton)	Inlet/Outlet Port Size (Inches)	Net Weight (Kilogram)
DPS14	10000	5.8	10	3/8"-NPTF	4.5
DPS16	7500	7.5	14	3/8"-NPTF	4.5
DPS20	5000	11.8	21	3/8"-NPTF	4.5
DPS22	4000	15	26	3/8"-NPTF	4.5
DPS25	3200	18	33	3/8"-NPTF	4.5
DPS28	2500	22	42	3/8"-NPTF	4.5
DPS35	1500	35	65	3/8"-NPTF	4.5

Built-in overloading-valve is available, just attach " -ov " to the model you select

4. DPDSXX pumps

DPDS---at low pressure, pump works as double-acting pump, when pressure rises up it automatically becomes single piston pump.

XX---"effective piston"diameter

Note:

DPDSXX has the same exterior and mounting dimensions as DPDXX

DPDSXX with a built-in release valve becomes DPDSXX-R and it has the same exterior and dimensions as DPDXX-R

DPDSXX with a attached 4-way valve becomes DPDSXX-V and it has the same exterior and dimensions as DPDXX-V

It is recommended that DPDSXX is installed with its ports upward

Parameters of DPDSXX

Model	Max Pressure (Psi)	Low pressure (Psi)	Volume per cycle at high pressure (ml per cycle)	Volume per cycle at low pressure (ml per cycle)	Lever Force per one MPa (Newton)	Inlet/Outlet Port Size (Inches)	Net Weight (Kilogram)
DPDS16	7500	200	7.5	15	14	3/8"-NPTF	4.5
DPDS20	5000	200	11.8	23	21	3/8"-NPTF	4.5
DPDS25	3200	200	18	36	33	3/8"-NPTF	4.5

AP series pumps

1. AP series pumps introduction

Only with pump valve and pressure-retaining valve built in the pump body, it can be used as stand-by pump in hydraulic system which has its own control-valves.

2. Features

- 2.1. Pressure up to 10000 Psi;
- 2.2. Hand and foot operated both available;
- 2.3. Volume per stroke up to 74 ml;
- 2.4. Base mounted and flange mounted for selection;
- 2.5. Lever length 600mm;
- 2.6. Single piston pump;
- 2.7. Carbon steel body, stainless customizable;
- 2.8. About flange-mounted AP pump, corresponding gasket plate and O-seal are delivered with pump.

3. Note

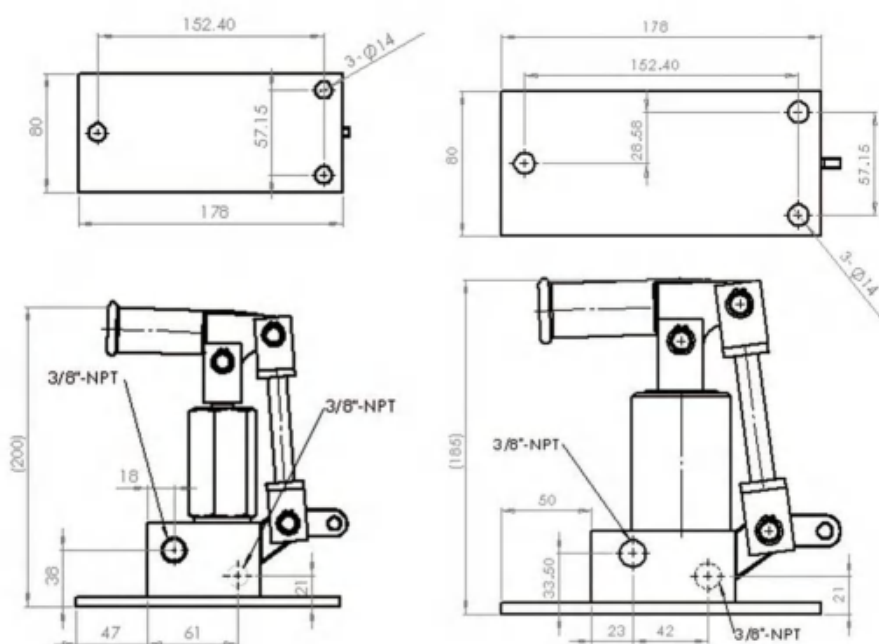
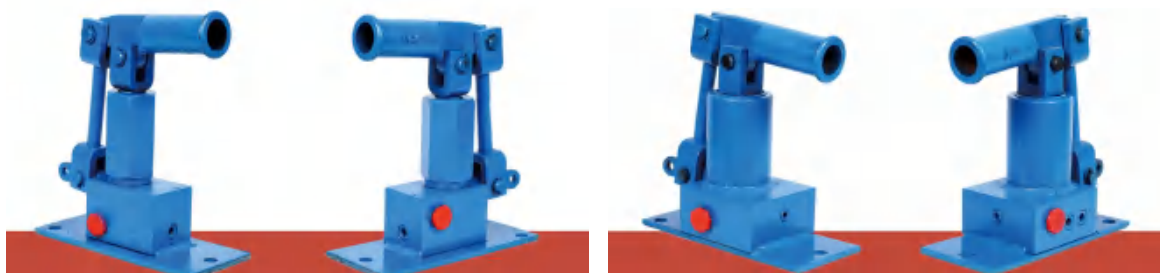
- 3.1. AP series pumps have big suction port, the inner diameter of inlet-pipe for AP1, AP2, AP3 is recommended bigger than 7mm, for AP4, AP5, AP6, bigger than 8mm;
- 3.2. Without overloading valve, pump must work under its respective max pressure



4. Parameters of AP series pumps

4.1. hand-operated, base-mounted

Model	Max pressure (Psi)	Volume per Stroke (cc)	Piston diameter (mm)	Lever (600mm) force per 1 MPa (Newton)	Inlet/Outlet port size (Inches)	Net weight (kilogram)
AP1-H-F	10000	5.9	14	9.5	3/8"NPTF	3.3
AP2-H-F	5000	11.8	20	19.5	3/8"NPTF	3.3
AP3-H-F	3200	18.0	25	30.5	3/8"NPTF	3.3
AP4-H-F	2000	26.0	30	44.0	3/8"NPTF	4.6
AP5-H-F	1250	42.0	40	78.0	3/8"NPTF	4.6
AP6-H-F	750	74.0	50	122.0	3/8"NPTF	4.6

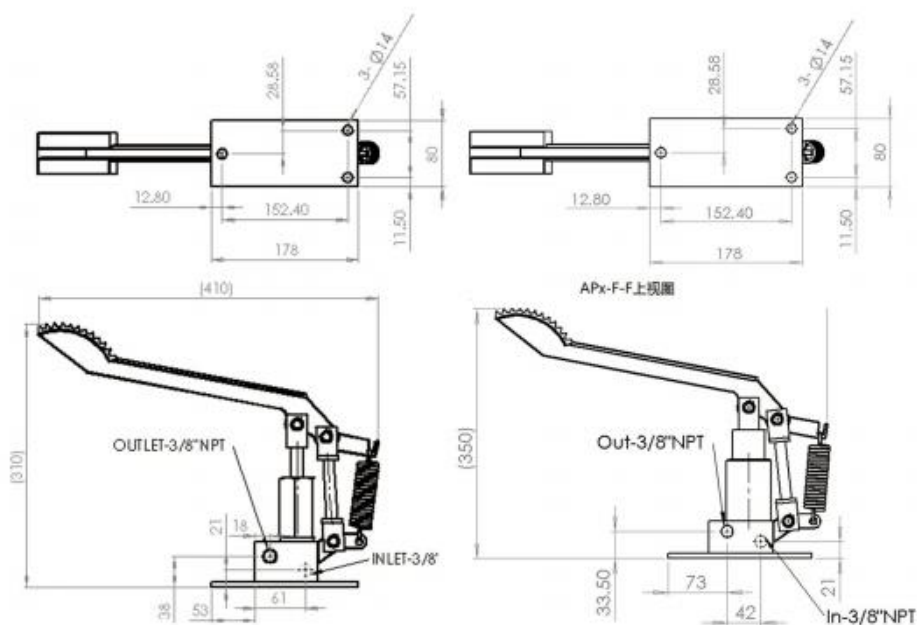


4.2. foot-operated, base-mounted

Model	Max pressure (Psi)	Volume per Stroke (cc)	Piston diameter (mm)	Lever force per 1 MPa (Newton)	Inlet/Outlet port size (Inches)	Net weight (kilogram)
AP1-F-F	5000	5.9	14	19.0	3/8"NPTF	5.2
AP2-F-F	2500	11.8	20	38.0	3/8"NPTF	5.2
AP3-F-F	1600	18.0	25	60.0	3/8"NPTF	5.2
AP4-F-F	1000	26.0	30	86.0	3/8"NPTF	6.2
AP5-F-F	600	42.0	40	154.0	3/8"NPTF	6.2
AP6-F-F	300	74.0	50	240.0	3/8"NPTF	6.2



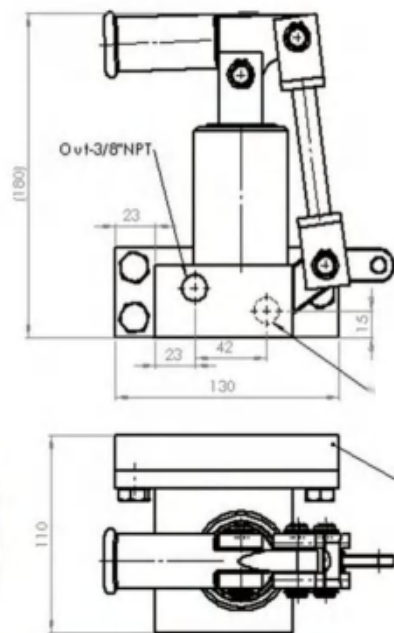
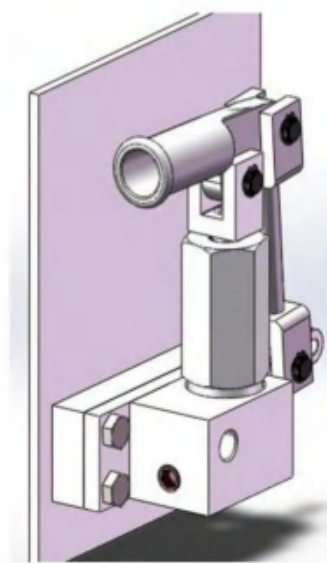
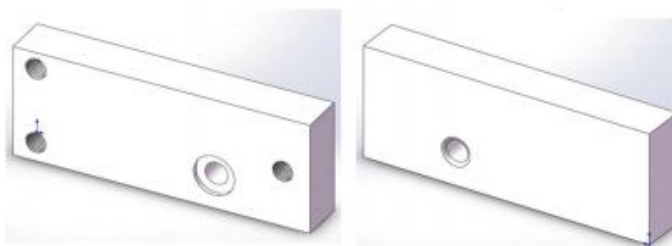
APx-F-F top view



4.3. hand-operated, flange-mounting

Model	Max pressure (Psi)	Volume per Stroke (cc)	Piston diameter (mm)	Lever (600mm) force per 1 MPa	Inlet/Outlet port size (Inches)	Net weight (kilogram)
AP1-H-S	10000	5.9	14	9.5	3/8"NPTF	3.3
AP2-H-S	5000	11.8	20	19.5	3/8"NPTF	3.3
AP3-H-S	3200	18.0	25	30.5	3/8"NPTF	3.3
AP4-H-S	2000	26.0	30	44.0	3/8"NPTF	4.6
AP5-H-S	1250	42.0	40	78.0	3/8"NPTF	4.6
AP6-H-S	750	74.0	50	122.0	3/8"NPTF	4.6

Gasket-plate and O-seal are delivered with pump.



Diameter of suction port: 10mm

Seal welding to the side of tank

BP series pumps

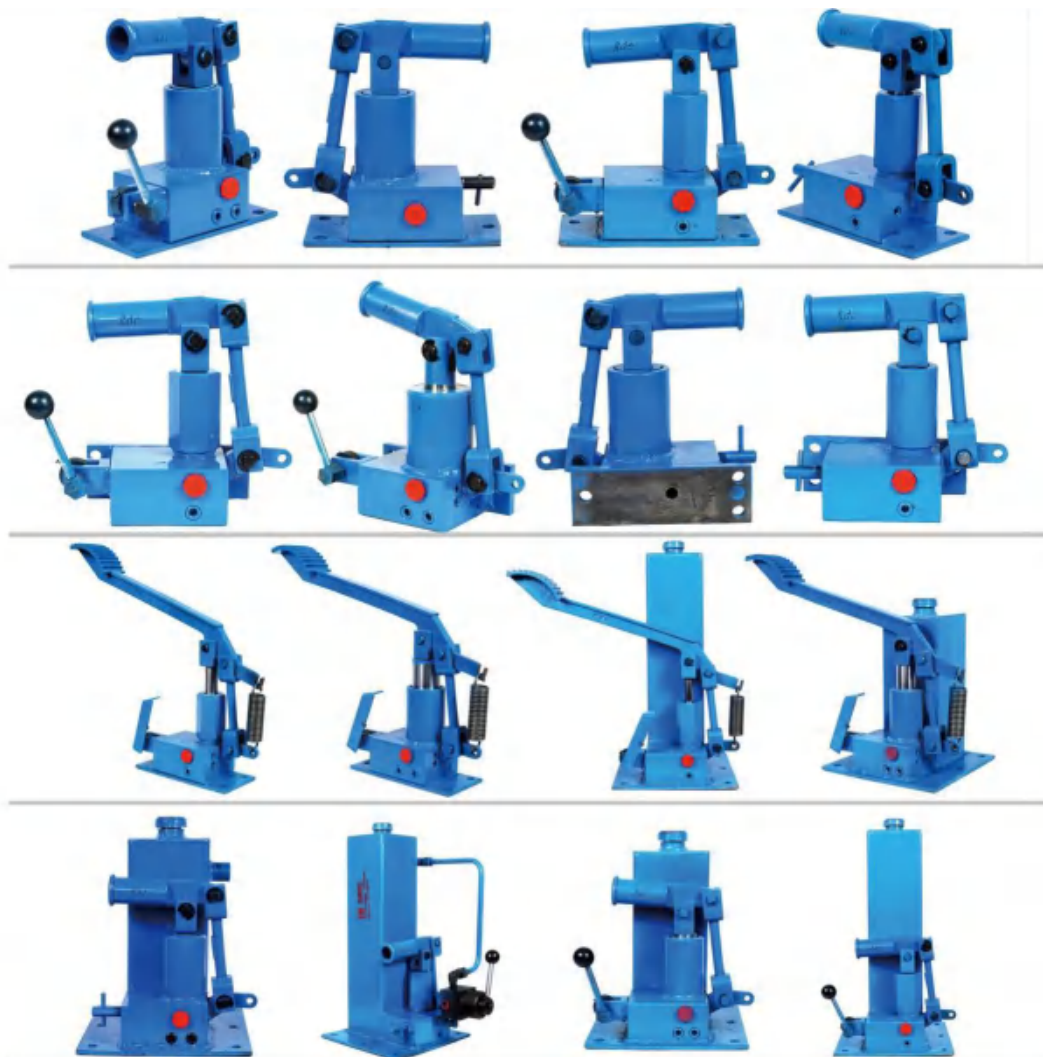
1. BP series introduction

Compared with AP series, all BP pumps have overloading-valve and release-valve. BP pump can be supplied with or without built-in oil-tank. Like AP pumps, BP pump also has pressure-retaining valve which can make it work more reliable.

2. Features

- 2.1. Pressure up to 10000 Psi;
- 2.2. Hand and foot operated both available;
- 2.3. Volume per stroke up to 74 ml;
- 2.4. Base mounted and flange mounted for selection;
- 2.5. Lever length 600mm;
- 2.6. Single piston pump;
- 2.7. Carbon steel body, stainless customizable;
- 2.8. With or without built-in oil-tank.

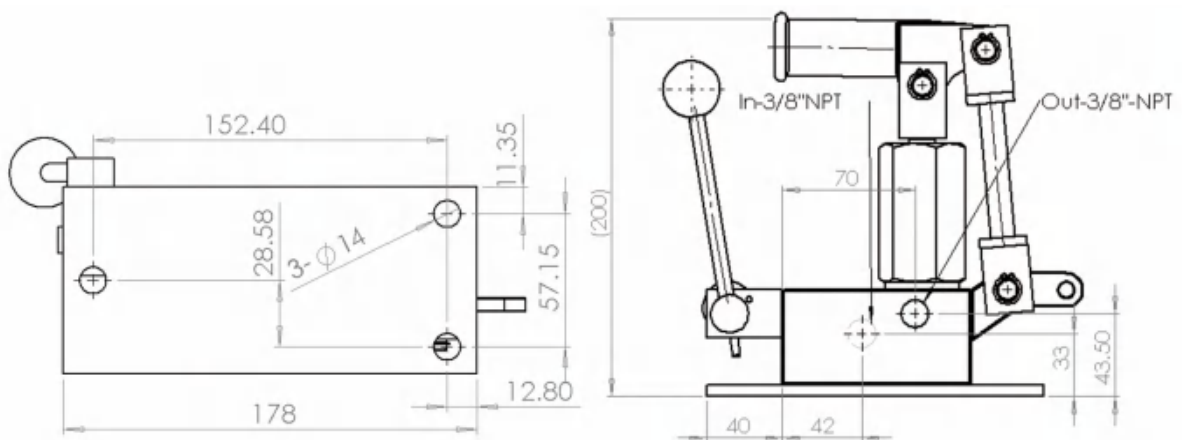
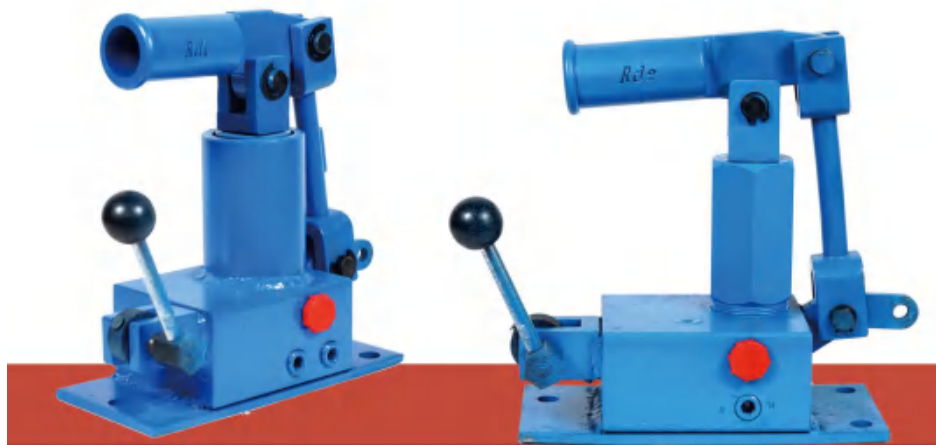
BP series pumps have big suction port, the inner diameter of inlet-pipe for BP1, BP2, BP3 is recommended bigger than 7mm, for BP4, BP5, BP6, bigger than 8mm;



3. Parameters of BP series pumps

3.1. Hand-operated, base-mounted, cam-release

Model	Max pressure (Psi)	Volume per Stroke (cc)	Piston diameter (mm)	Lever (600mm) force	Inlet/Outlet port size (Inches)	Net weight (kilogram)
BP1-H-F-C	10000	5.9	14	9.5	3/8"NPTF	5.0
BP2-H-F-C	5000	11.8	20	19.5	3/8"NPTF	5.0
BP3-H-F-C	3200	18.0	25	30.5	3/8"NPTF	5.0
BP4-H-F-C	2000	26.0	30	44.0	3/8"NPTF	6.0
BP5-H-F-C	1250	42.0	40	78.0	3/8"NPTF	6.0
BP6-H-F-C	750	74.0	50	122.0	3/8"NPTF	6.0

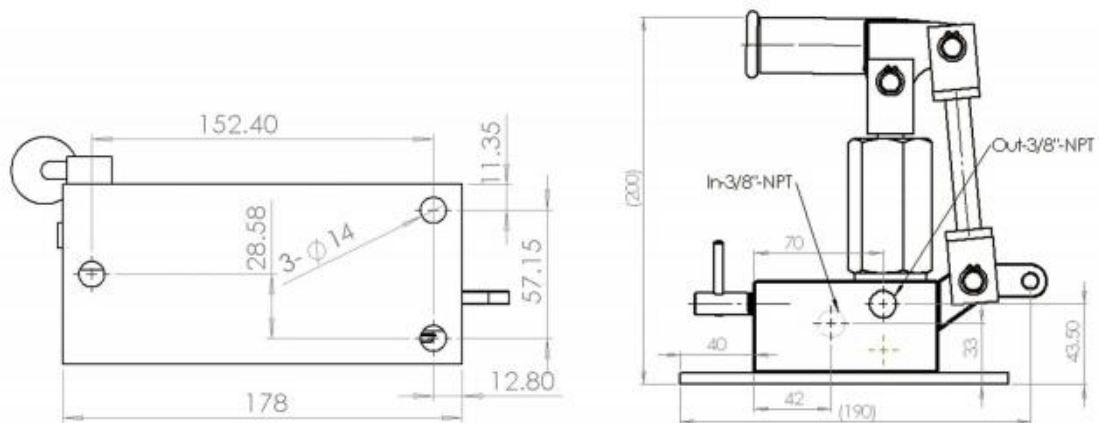


Bottom view

3.2. Hand-operated, base-mounted, screw-release

Model	Max pressure (Psi)	Volume per Stroke (cc)	Piston diameter (mm)	Lever (600mm) force per 1 MPa	Inlet/Outlet port size (Inches)	Net weight (kilogram)
BP1-H-F-S	10000	5.9	14	9.5	3/8"NPTF	4.8
BP2-H-F-S	5000	11.8	20	19.5	3/8"NPTF	4.8
BP3-H-F-S	3200	18.0	25	30.5	3/8"NPTF	4.8
BP4-H-F-S	2000	26.0	30	44.0	3/8"NPTF	5.8
BP5-H-F-S	1250	42.0	40	78.0	3/8"NPTF	5.8
BP6-H-F-S	750	74.0	50	122.0	3/8"NPTF	5.8

Note: close release-valve bare-handed, forbid using any tool

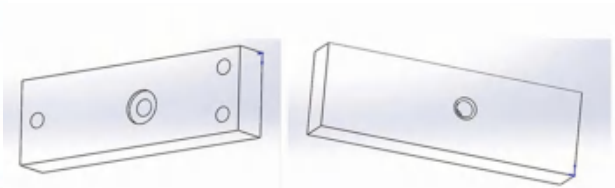
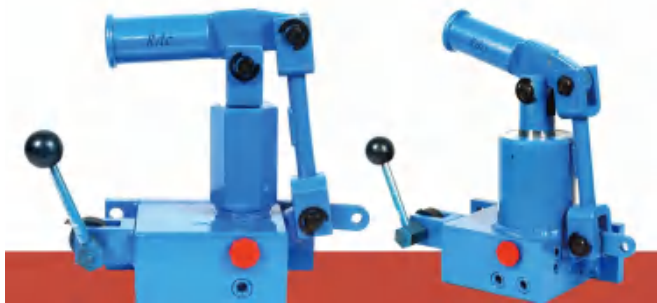


Bottom view

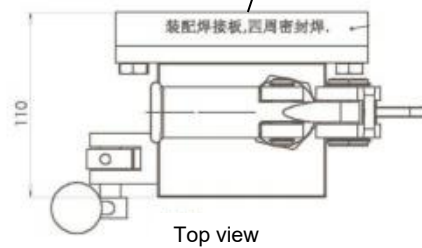
3.3. Hand-operated, flange-mounted, cam-release

Model	Max pressure (Psi)	Volume per Stroke (cc)	Piston diameter (mm)	Lever (600mm) force per 1 MPa (Newton)	Inlet/Outlet port size (Inches)	Net weight (kilogram)
BP1-H-S-C	10000	5.9	14	9.5	3/8"NPTF	4.9
BP2-H-S-C	5000	11.8	20	19.5	3/8"NPTF	4.9
BP3-H-S-C	3200	18.0	25	30.5	3/8"NPTF	4.9
BP4-H-S-C	2000	26.0	30	44.0	3/8"NPTF	5.9
BP5-H-S-C	1250	42.0	40	78.0	3/8"NPTF	5.9
BP6-H-S-C	750	74.0	50	122.0	3/8"NPTF	5.9

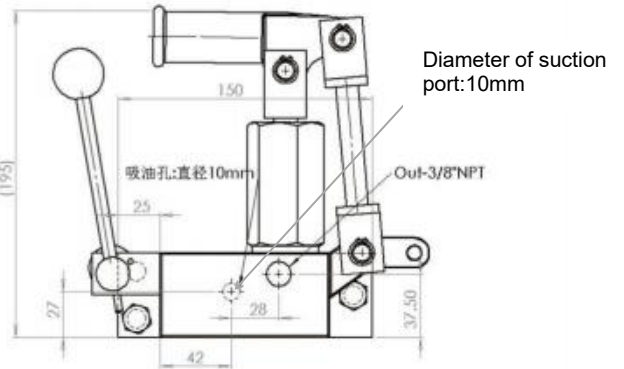
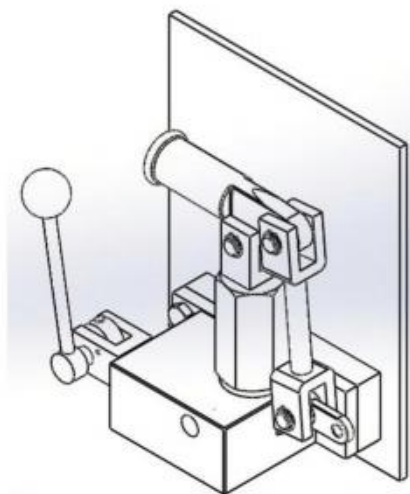
gasket-plate and o-seal are delivered with pump.



Seal welding to the side of tank



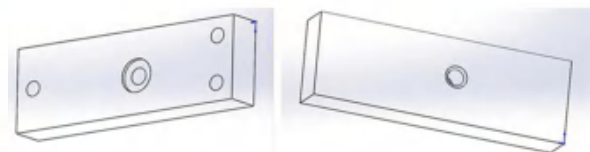
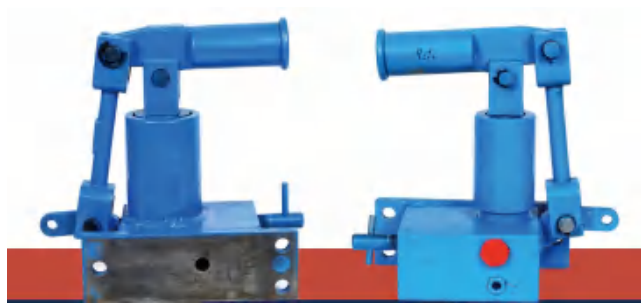
Top view



3.4. Hand-operated, flange-mounted, screw-release

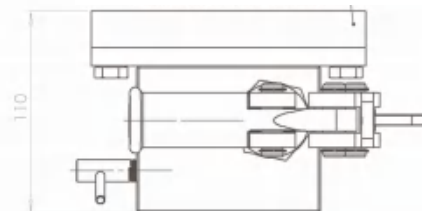
Model	Max pressure (Psi)	Volume per Stroke (cc)	Piston diameter (mm)	Lever (600mm) force per 1 MPa (Newton)	Inlet/Outlet port size (Inches)	Net weight (kilogram)
BP1-H-S-S	10000	5.9	14	9.5	3/8"NPTF	4.9
BP2-H-S-S	5000	11.8	20	19.5	3/8"NPTF	4.9
BP3-H-S-S	3200	18.0	25	30.5	3/8"NPTF	4.9
BP4-H-S-S	2000	26.0	30	44.0	3/8"NPTF	5.9
BP5-H-S-S	1250	42.0	40	78.0	3/8"NPTF	5.9
BP6-H-S-S	750	74.0	50	122.0	3/8"NPTF	5.9

Note: close release-valve bare-handed, forbid any tool.

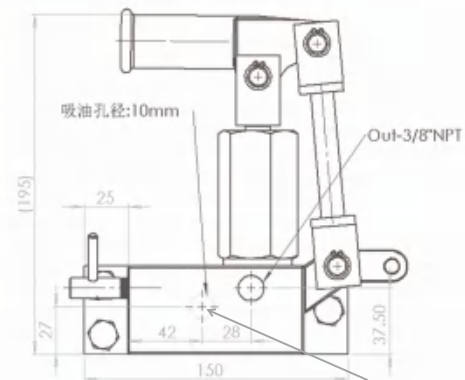
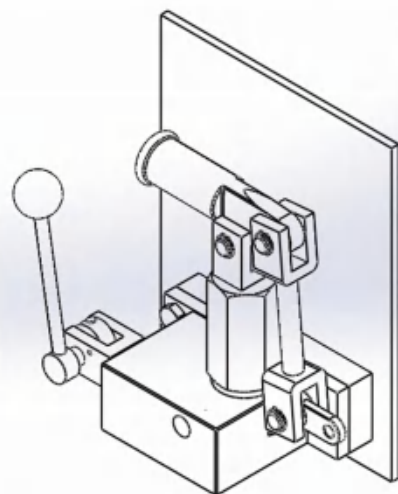


Gasket plate

Seal welding to the side of tank



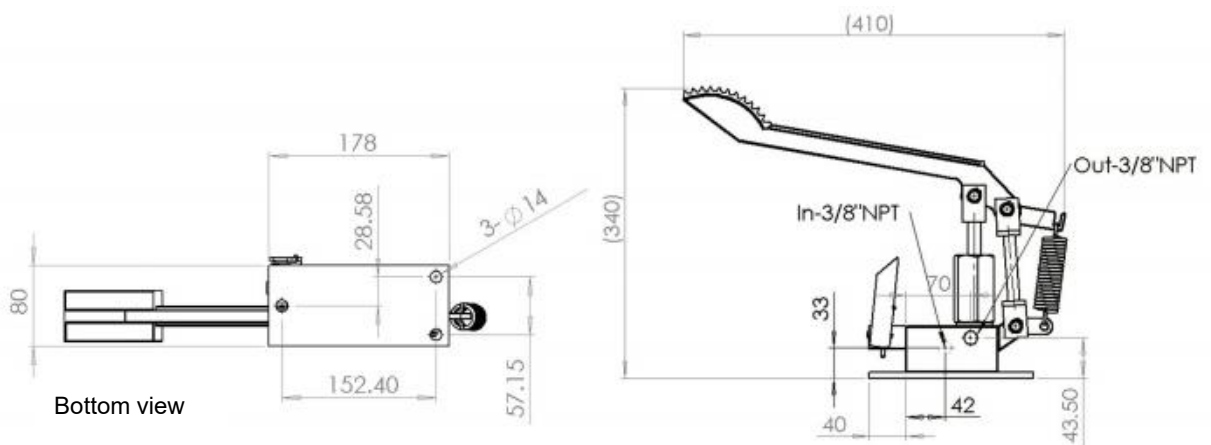
俯视图



Diameter of suction port:10mm

3.5. Foot-operated, base-mounted, cam-release

Model	Max pressure (Psi)	Volume per Stroke (cc)	Piston diameter (mm)	Lever (600mm) force per 1 MPa (Newton)	Inlet/Outlet port size (Inches)	Net weight (kilogram)
BP1-F-F-C	5000	5.9	14	19.0	3/8"NPTF	6.0
BP2-F-F-C	2500	11.8	20	38.0	3/8"NPTF	6.0
BP3-F-F-C	1500	18.0	25	60.0	3/8"NPTF	6.0
BP4-F-F-C	1000	26.0	30	86.0	3/8"NPTF	7.0
BP5-F-F-C	600	42.0	40	154.0	3/8"NPTF	7.0
BP6-F-F-C	350	74.0	50	240.0	3/8"NPTF	7.0



3.6. Hand-operated, screw-release, built-in tank

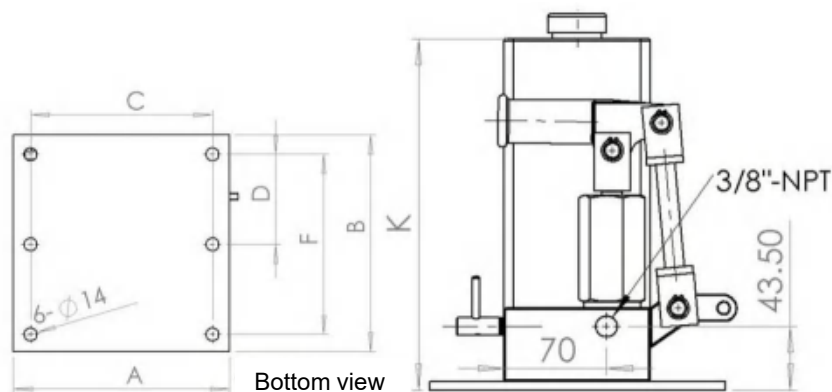
Model	Max pressure (Psi)	Volume per Stroke (cc)	Piston diameter (mm)	Lever (600mm) force per 1 MPa (Newton)	Inlet/Outlet port size (Inches)	Net weight (kilogram)
BP1-H-xx-S	10000	5.9	14	9.5	3/8"NPTF	9.0-15.0
BP2-H-xx-S	5000	11.8	20	19.5	3/8"NPTF	9.0-15.0
BP3-H-xx-S	3200	18.0	25	30.5	3/8"NPTF	9.0-15.0
BP4-H-xx-S	2000	26.0	30	44.0	3/8"NPTF	10.0-16.0
BP5-H-xx-S	1250	42.0	40	78.0	3/8"NPTF	10.0-16.0
BP6-H-xx-S	750	74.0	50	122.0	3/8"NPTF	10.0-16.0

Note: close release-valve bare-handed, forbid any tool.

Note: xx--stands for oil-tank code., there are three codes which are 12, 24, 40.
 12--stands for 1.2 liters
 24--stands for 2.4 liters
 40--stands for 4.0 liters

Example: BP1-H-24-S, BP series, piston diameter 14mm, hand-operated, 2.4 liters tank, screw-release.

Net weight can not be fixed because of oil-tank reason.



Oil-tank

tank code	A(mm)	B(mm)	C(mm)	D(mm)	F(mm)	K(mm)
12	202	202	168.3	84.14	168.3	240
24	202	202	168.3	84.14	168.3	380
40	228	254	193.7	109.5	219.0	280

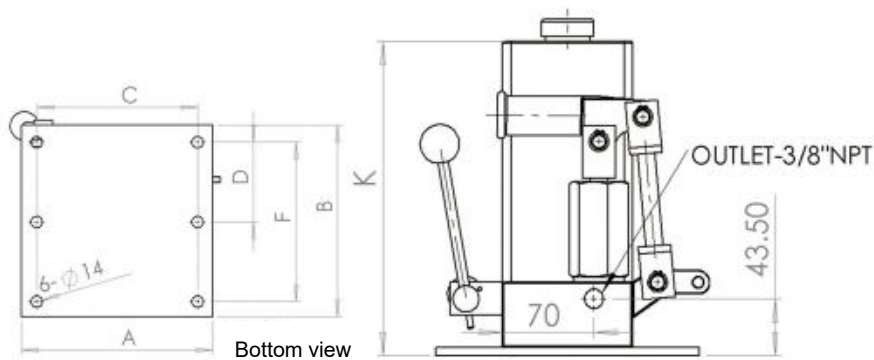
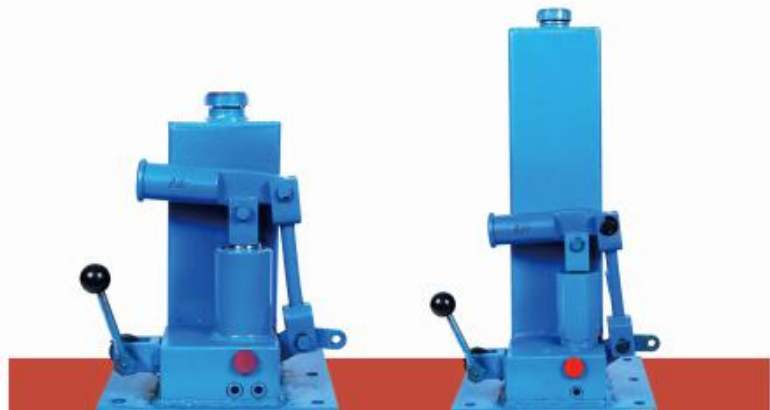
3.7. Hand-operated, cam-release, built-in oil tank

Model	Max pressure (Psi)	Volume per Stroke (cc)	Piston diameter (mm)	Lever (600mm) force per 1 MPa (Newton)	Inlet/Outlet port size (Inches)	Net weight (kilogram)
BP1-H-xx-C	10000	5.9	14	9.5	3/8"NPTF	9.0-15.0
BP2-H-xx-C	5000	11.8	20	19.5	3/8"NPTF	9.0-15.0
BP3-H-xx-C	3200	18.0	25	30.5	3/8"NPTF	9.0-15.0
BP4-H-xx-C	2000	26.0	30	44.0	3/8"NPTF	10.0-16.0
BP5-H-xx-C	1250	42.0	40	78.0	3/8"NPTF	10.0-16.0
BP6-H-xx-C	750	74.0	50	122.0	3/8"NPTF	10.0-16.0

Note: xx--stands for oil-tank code., there are three codes which are 12, 24, 40.
 12--stands for 1.2 liters
 24--stands for 2.4 liters
 40--stands for 4.0 liters

example: BP1-H-24-C,
 BP series, piston diameter 14mm, hand-operated, 2.4 liters tank, cam-release.

Net weight can not be fixed because of oil-tank reason.



Oil-tank

tank code	A(mm)	B(mm)	C(mm)	D(mm)	F(mm)	K(mm)
12	202	202	168.3	84.14	168.3	240
24	202	202	168.3	84.14	168.3	380
40	228	254	193.7	109.5	219.0	280

3.8. Foot-operated, cam-release, built-in oil-tank

Model	Max pressure (Psi)	Volume per Stroke (cc)	Piston diameter (mm)	Lever (600mm) force per 1 MPa (Newton)	Inlet/Outlet port size (Inches)	Net weight (kilogram)
BP1-F-xx-C	5000	5.9	14	19.0	3/8"NPTF	10.0-15.0
BP2-F-xx-C	2500	11.8	20	38.0	3/8"NPTF	10.0-15.0
BP3-F-xx-C	1500	18.0	25	60.0	3/8"NPTF	10.0-15.0
BP4-F-xx-C	1000	26.0	30	86.0	3/8"NPTF	11.0-16.0
BP5-F-xx-C	600	42.0	40	154.0	3/8"NPTF	11.0-16.0
BP6-F-xx-C	300	74.0	50	240.0	3/8"NPTF	11.0-16.0

Note: xx--stands for oil-tank code., there are three codes which are 12, 24, 40.

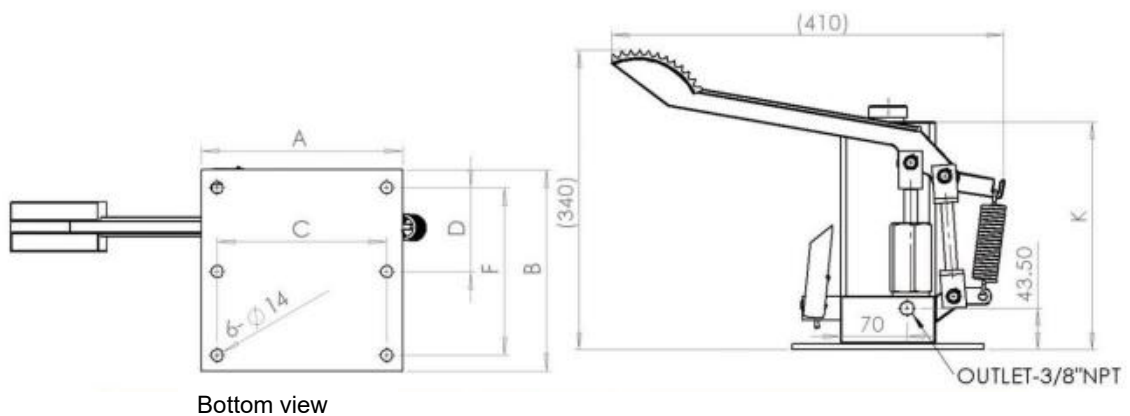
12--stands for 1.2 liters

24--stands for 2.4 liters

40--stands for 4.0 liters

example: BP1-F-24-C, BP series, piston diameter 14mm, foot-operated, 2.4 liters tank, cam-release.

Net weight can not be fixed because of oil-tank reason.



Oil-tank

tank code	A(mm)	B(mm)	C(mm)	D(mm)	F(mm)	K(mm)
12	202	202	168.3	84.14	168.3	240
24	202	202	168.3	84.14	168.3	380
40	228	254	193.7	109.5	219.0	280

CP series pumps

1. CP series pumps introduction

CP series is two-piston pump which can works at two modes. which are high-volume / low pressure and low-volume / high pressure. The two modes automatically switch to each other at about 200Psi--300Psi.

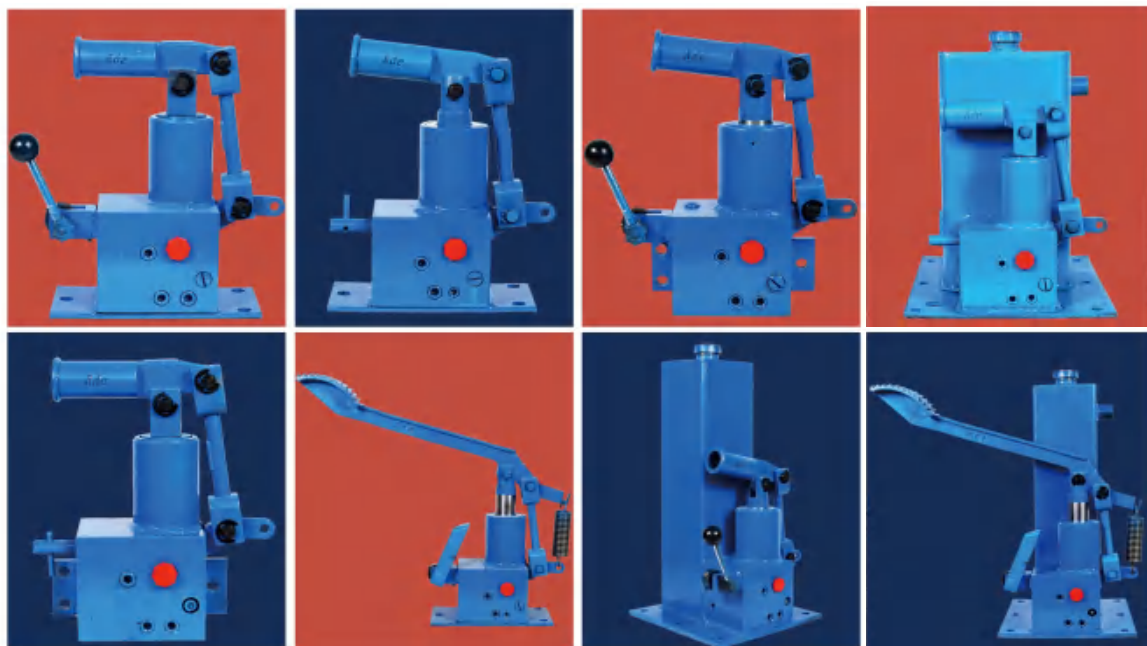
All CP pumps have pressure-retaining valve which can make the pump work more reliable. Every pump has replenishing-valve which make the big piston replenish the small piston and the pump achieve good volume efficiency.

2. features

- 2.1 Pressure up to 10000 Psi;
- 2.2. Hand and foot operated both available;2.3, Volume per stroke up to 74 ml;
- 2.4. Base mounted and flange mounted for selection;
- 2.5. Lever length 600mm;
- 2.6. double-piston pump;
- 2.7. Carbon steel body, stainless customizable;
- 2.8. With or without built-in oil-tank.

3. note

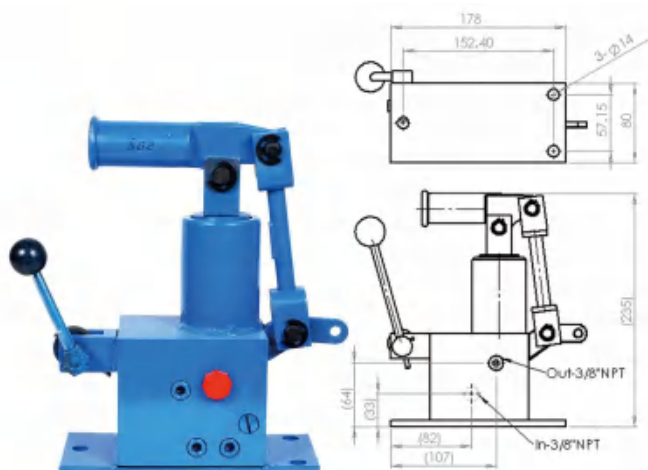
No matter how high the working pressure is, close the screw-release valve of CP pump bare-hand. never do it with the help of any tool.



4. Parameters of CP pumps

4.1. Hand-operated, base-mounted, cam-release

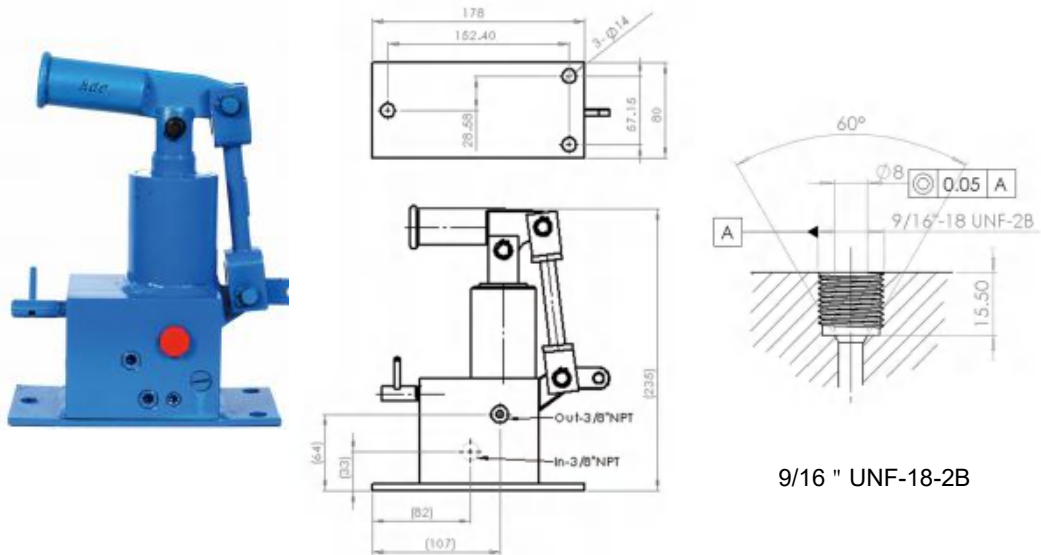
Model	Max pressure (Psi)	volume per stroke at low pressure (cc)	volume per stroke at high pressure (cc)	piston diameter (mm)	lever force per 1 MPa (Newton)	Inlet/Outlet port size (inches)	Net weight (kilogram)
CP14-H-F-C	10000	26	4.2	30-12	8.4	3/8"-NPTF	8.0
CP15-H-F-C	10000	42	4.2	40-12	8.4	3/8"-NPTF	8.0
CP16-H-F-C	10000	74	4.2	50-12	8.4	3/8"-NPTF	8.0
CP24-H-F-C	5000	26	11.8	30-20	19.5	3/8"-NPTF	8.0
CP25-H-F-C	5000	42	11.8	40-20	19.5	3/8"-NPTF	8.0
CP26-H-F-C	5000	74	11.8	50-20	19.5	3/8"-NPTF	8.0



4.2. Hand-operated, base-mounted, screw-release

Model	Max pressure (Psi)	volume per stroke at low pressure (cc)	volume per stroke at high pressure (cc)	piston diameter (mm)	lever force per 1 MPa (Newton)	Inlet/Outlet port size (inches)	Net weight (kilogram)
CP04-H-F-S	20000	26	1.9	30--8	3.7	3/8"NPTF// 9/16"UNF-18-2B	8.0
CP05-H-F-S	20000	42	1.9	40--8	3.7	3/8"NPTF// 9/16"UNF-18-2B	8.0
CP06-H-F-S	20000	74	1.9	50--8	3.7	3/8"NPTF// 9/16"UNF-18-2B	8.0
CP14-H-F-S	10000	26	4.2	30--12	8.4	3/8"NPTF	8.0
CP15-H-F-S	10000	42	4.2	40--12	8.4	3/8"NPTF	8.0
CP16-H-F-S	10000	74	4.2	50--12	8.4	3/8"NPTF	8.0
CP24-H-F-S	5000	26	11.8	30--20	19.5	3/8"NPTF	8.0
CP25-H-F-S	5000	42	11.8	40--20	19.5	3/8"NPTF	8.0
CP26-H-F-S	5000	74	11.8	50-20	19.5	3/8"NPTF	8.0

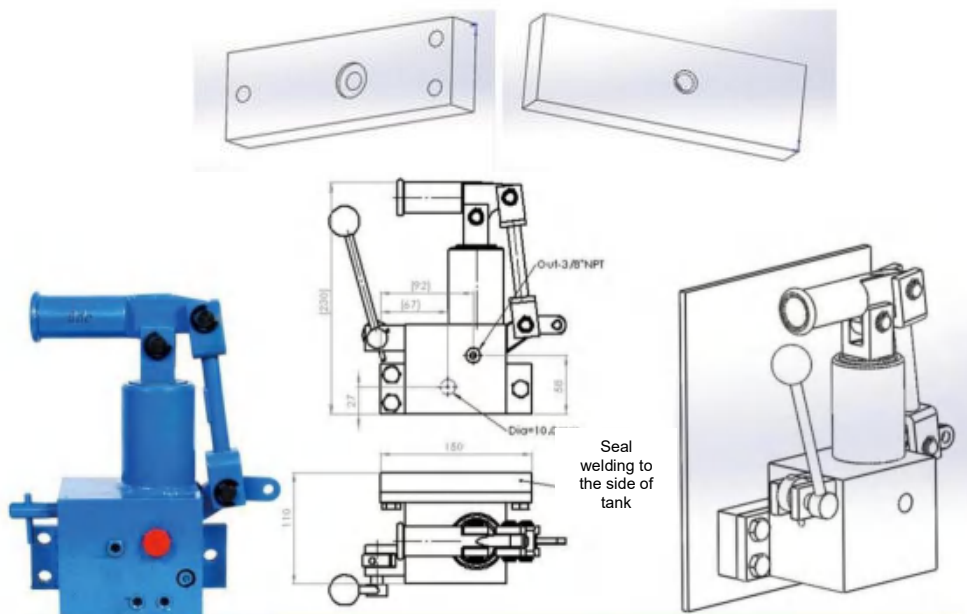
Note: close release-valve bare-handed, forbid any tool



4.3. Hand-operated, flange-mounting, cam-release

Model	Max pressure (Psi)	volume per stroke at low pressure (cc)	volume per stroke at high pressure (cc)	piston diameter (mm)	lever force per 1 MPa (Newton)	Inlet/Outlet port size (inches)	Net weight (kilogram)
CP14-H-S-C	10000	26	4.2	30-12	8.4	3/8"-NPTF	8.2
CP15-H-S-C	10000	42	4.2	40-12	8.4	3/8"-NPTF	8.2
CP16-H-S-C	10000	74	4.2	50-12	8.4	3/8"-NPTF	8.2
CP24-H-S-C	5000	26	11.8	30-20	19.5	3/8"-NPTF	8.2
CP25-H-S-C	5000	42	11.8	40-20	19.5	3/8"-NPTF	8.2
CP26-H-S-C	5000	74	11.8	50-20	19.5	3/8"-NPTF	8.2

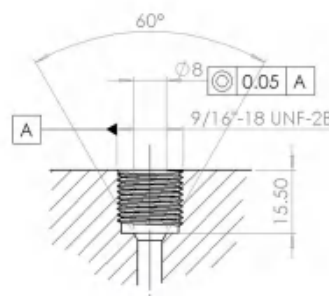
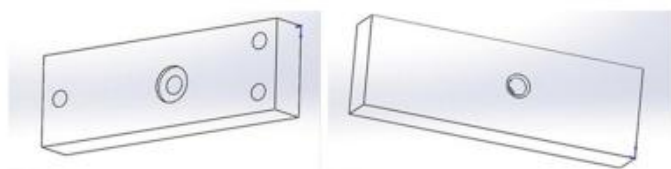
Note: gasket plate and O-seal are delivered with pump.



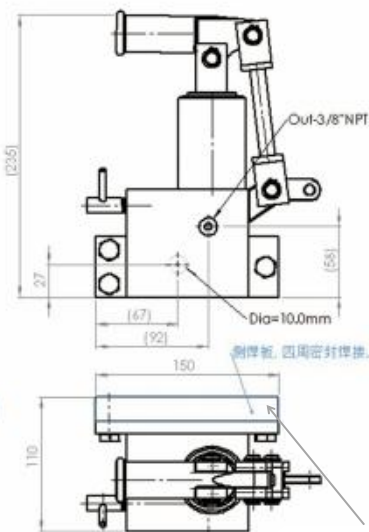
4.4. Hand-operated, flange-mounting, screw-release

Model	Max pressure (Psi)	volume per stroke at low pressure	volume per stroke at high pressure (cc)	piston diameter (mm)	lever force per 1 MPa (Newton)	Outlet port size (inches)	Net weight (kilogram)
CP04-H-S-S	20000	26	1.9	30--8	3.7	9/16"UNF-18-2B	8.0
CP05-H-S-S	20000	42	1.9	40--8	3.7	9/16"UNF-18-2B	8.0
CP06-H-S-S	20000	74	1.9	50--8	3.7	9/16"UNF-18-2B	8.0
CP14-H-S-S	10000	26	4.2	30--12	8.4	3/8"NPTF	8.0
CP15-H-S-S	10000	42	4.2	40--12	8.4	3/8"NPTF	8.0
CP16-H-S-S	10000	74	4.2	50--12	8.4	3/8"NPTF	8.0
CP24-H-S-S	5000	26	11.8	30--20	19.5	3/8"NPTF	8.0
CP25-H-S-S	5000	42	11.8	40--20	19.5	3/8"NPTF	8.0
CP26-H-S-S	5000	74	11.8	50-20	19.5	3/8"NPTF	8.0

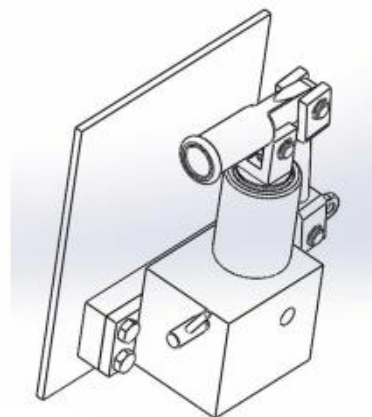
Note: close release-valve bare-handed, forbid any tool
 Note: Gasket plate and O-seal are delivered with pump.



9/16 " UNF-18-2B

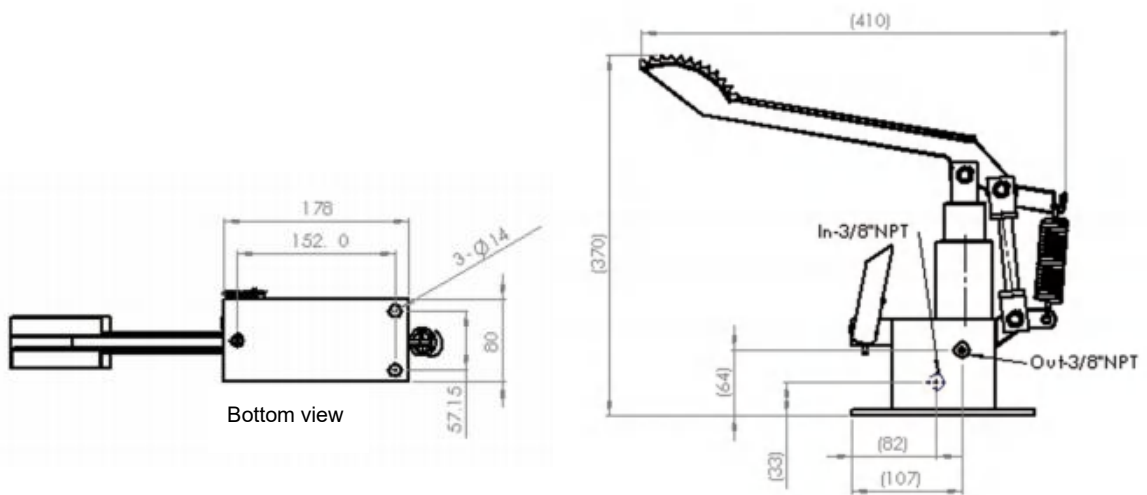


Seal welding to the side of tank



4.5. Foot-operated, base-mounting, cam-release by foot

Model	Max pressure (Psi)	volume per stroke at low pressure (cc)	volume per stroke at high pressure (cc)	piston diameter (mm)	lever force per 1 MPa (Newton)	Outlet port size (inches)	Net weight (kilogram)
CP14-F-F-C	5000	26	4.2	30--12	8.4	3/8"NPTF	9.2
CP15-F-F-C	5000	42	4.2	40--12	8.4	3/8"NPTF	9.2
CP16-F-F-C	5000	74	4.2	50--12	8.4	3/8"NPTF	9.2
CP24-F-F-C	2500	26	11.8	30--20	19.5	3/8"NPTF	9.2
CP25-F-F-C	2500	42	11.8	40--20	19.5	3/8"NPTF	9.2
CP26-F-F-C	2500	74	11.8	50--20	19.5	3/8"NPTF	9.2



4.6. Hand-operated, cam-release by hand, built-in oil tank

Model	Max pressure (Psi)	volume per stroke at low pressure (cc)	volume per stroke at high pressure (cc)	piston diameter (mm)	lever force per 1 MPa (Newton)	Outlet port size (inches)	Net weight (kilogram)
CP14-H-xx-C	10000	26	4.2	30-12	8.4	3/8"-NPTF	12.0-16.5
CP15-H-xx-C	10000	42	4.2	40-12	8.4	3/8"-NPTF	12.0-16.5
CP16-H-xx-C	10000	74	4.2	50-12	8.4	3/8"-NPTF	12.0-16.5
CP24-H-xx-C	5000	26	11.8	30-20	19.5	3/8"-NPTF	12.0-16.5
CP25-H-xx-C	5000	42	11.8	40-20	19.5	3/8"-NPTF	12.0-16.5
CP26-H-xx-C	5000	74	11.8	50-20	19.5	3/8"-NPTF	12.0-16.5

Note: xx--stands for oil-tank code., there are three codes which are 12, 24, 40.

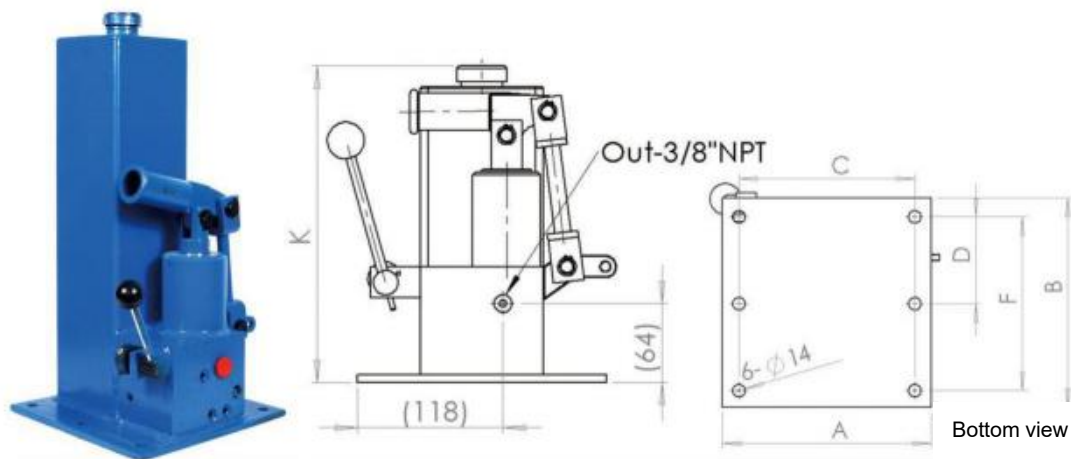
12--stands for 1.2 liters

24--stands for 2.4 liters

40--stands for 4.0 liters

example: CP14-H-24-C, CP series, piston diameter 30--12mm, hand-operated, 2.4 liters tank, cam-release.

Net weight can not be fixed because of oil-tank reason.



Oil-tank

tank code	A(mm)	B(mm)	C(mm)	D(mm)	F(mm)	K(mm)
12	202	202	168.3	84.14	168.3	240
24	202	202	168.3	84.14	168.3	380
40	228	254	193.7	109.5	219.0	280

4.7. Hand-operated, screw-release, built-in oil tank

Model	Max pressure (Psi)	volume per stroke at low pressure (cc)	volume per stroke at high pressure (cc)	piston diameter (mm)	lever force per 1 MPa (Newton)	Outlet port size (inches)	Net weight (kilogram)
CP04-H-xx-S	20000	26	1.9	30--8	3.7	9/16"UNF-18-2B	12.5--17.5
CP05-H-xx-S	20000	42	1.9	40--8	3.7	9/16"UNF-18-2B	12.5--17.5
CP06-H-xx-S	20000	74	1.9	50--8	3.7	9/16"UNF-18-2B	12.5--17.5
CP14-H-xx-S	10000	26	4.2	30--12	8.4	3/8"NPTF	12.5--17.5
CP15-H-xx-S	10000	42	4.2	40--12	8.4	3/8"NPTF	12.5--17.5
CP16-H-xx-S	10000	74	4.2	50--12	8.4	3/8"NPTF	12.5--17.5
CP24-H-xx-S	5000	26	11.8	30--20	19.5	3/8"NPTF	12.5--17.5
CP25-H-xx-S	5000	42	11.8	40--20	19.5	3/8"NPTF	12.5--17.5
CP26-H-xx-S	5000	74	11.8	50-20	19.5	3/8"NPTF	12.5--17.5

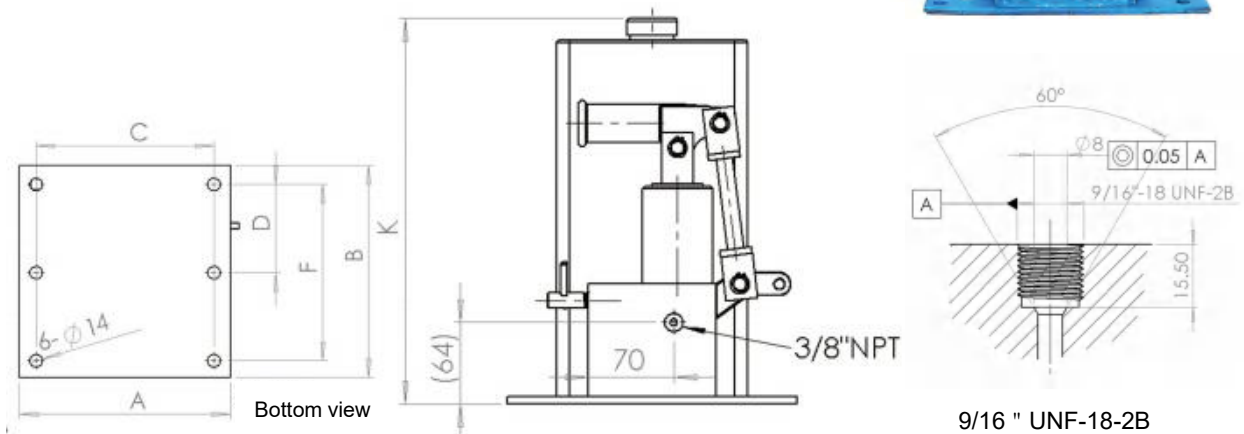
Note: close release-valve bare-handed, forbid any tool

Note: xx--stands for oil-tank code., there are three codes which are 12, 24, 40.

- 12--stands for 1.2 liters
- 24--stands for 2.4 liters
- 40--stands for 4.0 liters

example: CP14-H-24-S, CP series, piston diameter 30--12mm, hand-operated, 2.4 liters tank, screw-release.

Net weight can not be fixed because of oil-tank reason.



Oil-tank

tank code	A(mm)	B(mm)	C(mm)	D(mm)	F(mm)	K(mm)
12	202	202	168.3	84.14	168.3	240
24	202	202	168.3	84.14	168.3	380
40	228	254	193.7	109.5	219.0	280

4.8. Foot-operated, cam-release by foot, built-in tank

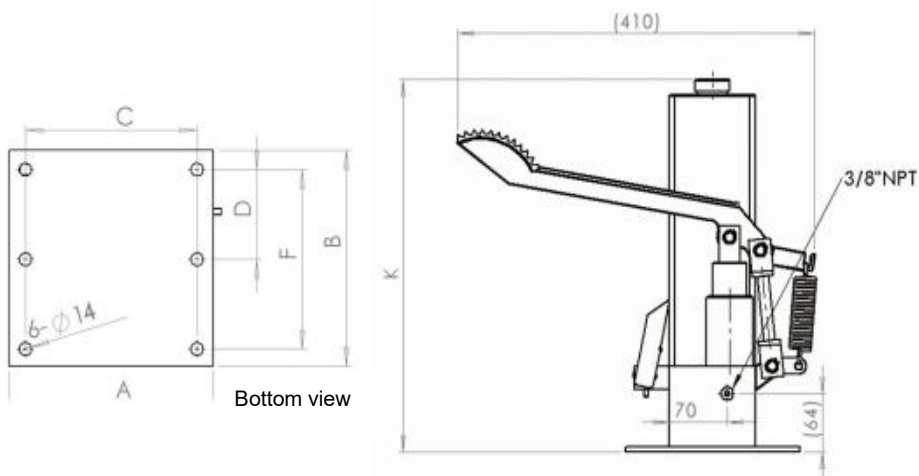
Model	Max pressure (Psi)	volume per stroke at low pressure (cc)	volume per stroke at high pressure (cc)	piston diameter (mm)	lever force per 1 MPa (Newton)	Outlet port size (inches)	Net weight (kilogram)
CP14-F-xx-C	10000	26	4.2	30-12	8.4	3/8"-NPTF	13.2--18.0
CP15-F-xx-C	10000	42	4.2	40-12	8.4	3/8"-NPTF	13.2--18.0
CP16-F-xx-C	10000	74	4.2	50-12	8.4	3/8"-NPTF	13.2--18.0
CP24-F-xx-C	5000	26	11.8	30-20	19.5	3/8"-NPTF	13.2--18.0
CP25-F-xx-C	5000	42	11.8	40-20	19.5	3/8"-NPTF	13.2--18.0
CP26-F-xx-C	5000	74	11.8	50-20	19.5	3/8"-NPTF	13.2--18.0

Note: xx--stands for oil-tank code., there are three codes which are 12, 24, 40.

- 12--stands for 1.2 liters
- 24--stands for 2.4 liters
- 40--stands for 4.0 liters

example: CP14-F-24-C, CP series, piston diameter 30--12mm, foot-operated, 2.4 liters tank, cam-release by foot.

Net weight can not be fixed because of oil-tank reason.



Oil-tank

tank code	A(mm)	B(mm)	C(mm)	D(mm)	F(mm)	K(mm)
12	202	202	168.3	84.14	168.3	240
24	202	202	168.3	84.14	168.3	380
40	228	254	193.7	109.5	219.0	280

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