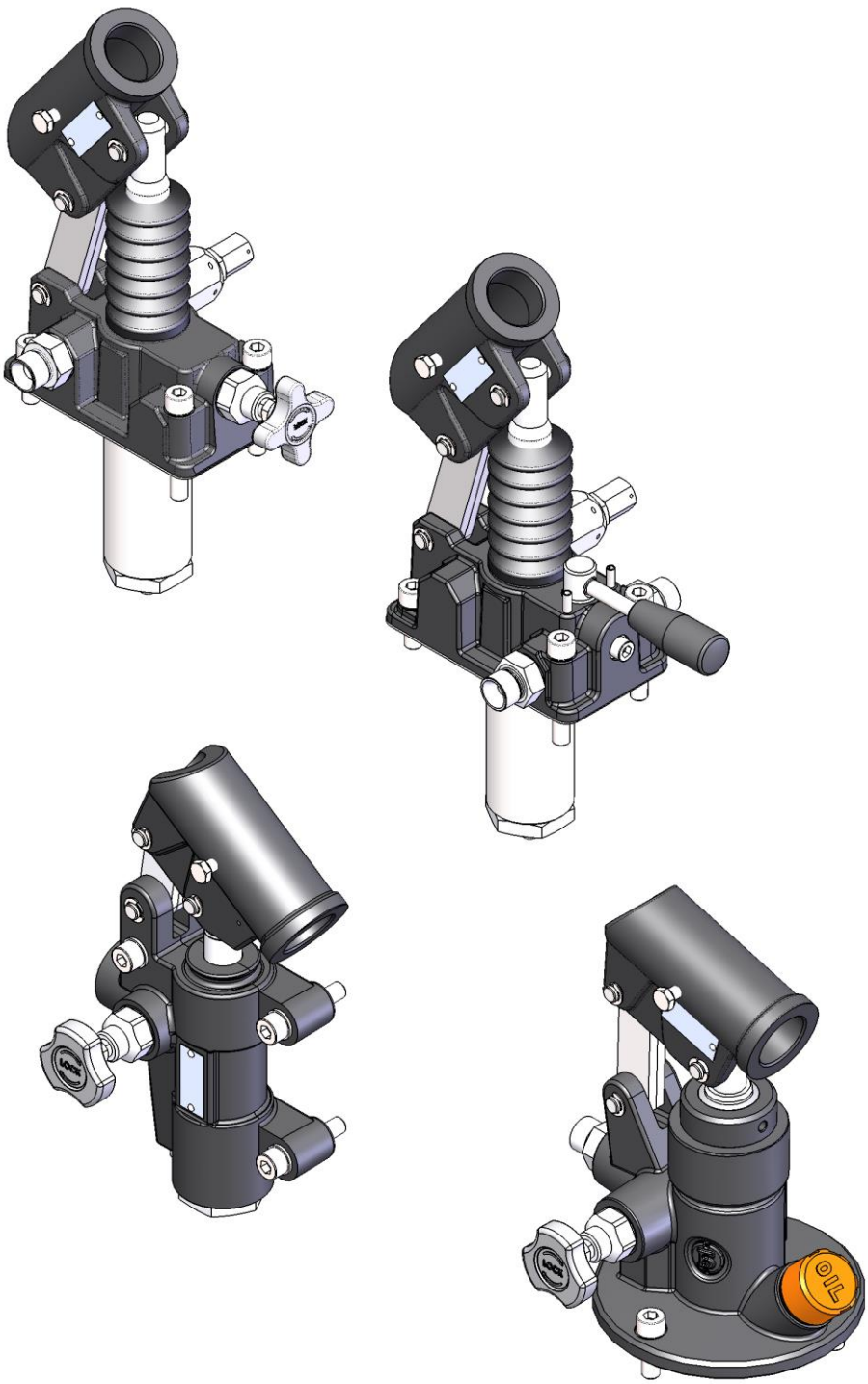
Piston type hand pumps



Badestnost
hydraulic components

ТОВ "Промислова Гідравліка": https://promhydraulic.com.ua/ua/
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Hand pumps are generally employed for intermittent or emergency applications. The wide range for integrated applications with auxiliary valves allow the solution of any requirement. The cast-iron body, high resistance lapped and chrome plated steel rod. They are available in wall bracket and flangeable on tank versions with various types of pumping single acting (PRP) and double-acting (PRB/D).
They can be supplied with steel tanks with alkyd paint from 1 to 10 lt.

PRB – double acting pumps for single acting cylinders
PRBD – double acting pumps for double acting cylinders
PRBC – double acting pump for single acting cylinders
PRP – single acting pump for single acting cylinders

Read this instructions carefully before installation. All operations must be carried out by qualified personnel following the instructions. The user must periodically inspect, based on the conditions of use and the substances used, the presence of corrosion, dirt, the state of wear and correct function of the valves.

All pumps include 550 mm handle, unless WoL code is used. The pump assembly includes suction filter and suction tube. If pump is bought without a tank – suction tube of 176 mm is included in the package.

Additional information
This catalogue shows the product in the most standard configuration. For special requests please contact sales.

WARNING!
All specifications of this catalogue refer to the standard product at this date. Badestnost, oriented in continuous improvement, reserves the right to discontinue, modify or revise specifications, without notice.

BADESTNOST IS NOT RESPONSIBLE FOR ANY DAMAGE CAUSED BY AN INCORRECT USE OF THE PRODUCT

First edition 03-2021

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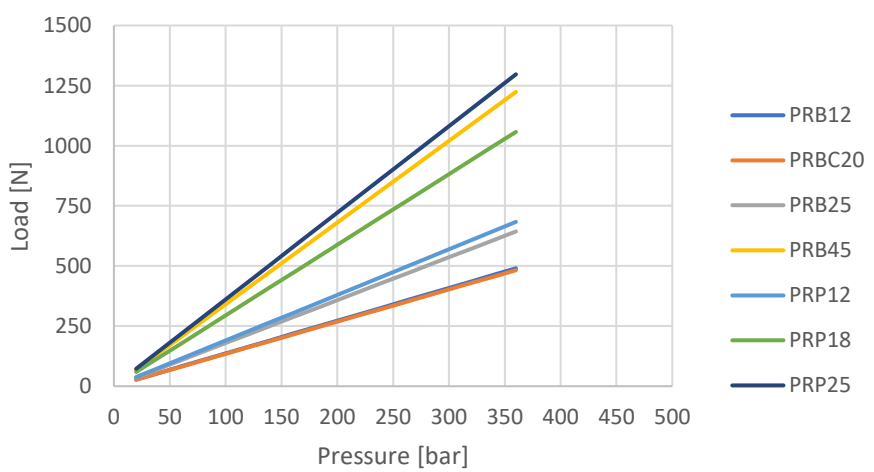
Working conditions

Pump type	PRB(D)12	PRB(D)25	PRB(D)45	PRBC20	PRP12	PRP18	PRP25
Type	Double acting				Single acting		
Displacement	12 cm^3	25 cm^3	45 cm^3	20 cm^3	12 cm^3	18 cm^3	25 cm^3
	0.7 in^3	1.5 in^3	2.7 in^3	1.2 in^3	0.7 in^3	1.1 in^3	1.5 in^3
Max. pressure	380 bar	350 bar	280 bar	350 bar	300 bar	200 bar	160 bar
	5500 psi	5100 psi	4100 psi	4100 psi	4400 psi	2900 psi	2300 psi
Optimal pressure	220 bar	120 bar	80 bar	225 bar	160 bar	120 bar	80 bar
	3200 psi	1700 psi	1200 psi	1200 psi	2300 psi	1700 psi	1200 psi
Fluid	Mineral based oil (DIN51524)						
Fluid temperature (NBR seals)	from -25 °C to 70 °C				*from -13 °F to 158 °F*		
Viscosity (min.)	10 mm^2/s				*10 cSt*		
Viscosity (max.)	500 mm^2/s				*500 cSt*		
Max. level of contamination	20/18/15 - ISO 4406				*NAS 1683 - class 10*		
Ambient temperature	from -20 °C to 60 °C				*from -4 °F to 140 °F*		
Note - for different working conditions contact sales dept.							

Refernce standard					
		BSP	UN-UNF	Metric	NPTF
Thread according to		ISO 228/1	ISO 263	ISO 262	Ansi B1.20.3
		BS 2779	ANSI B1.1 unified		
Cavity dimension according to	ISO	1179	11926	9974-1	
	SAE		J1926	J2244	J476a
	DIN	3852-2 (Shape X or Y)		3852-1 (Shape X or Y)	

Load effort for 550 mm handle



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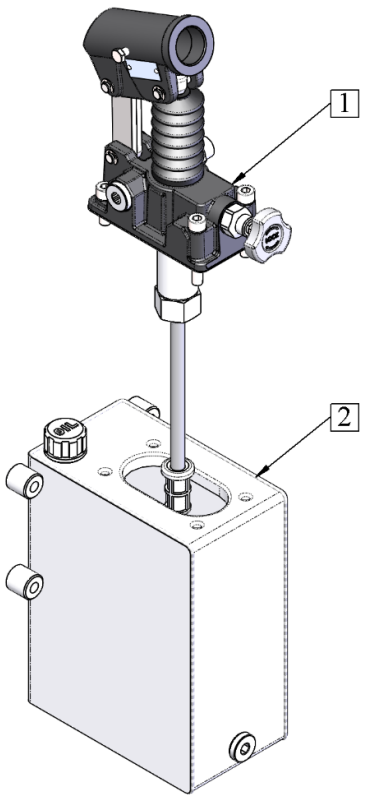
Full order code (pump and tank)

PRB12 + RP3

1 2



1. Pump (page 5)	
2. Prismatic tanks (page 8)	
RP1	1L tank
RP2	2L tank
RP3	3L tank
RP5	5L tank
RP7	7L tank
RP10	10L tank
3. Pump location with respect to the tank	
(180)	Pump rotated 180 deg

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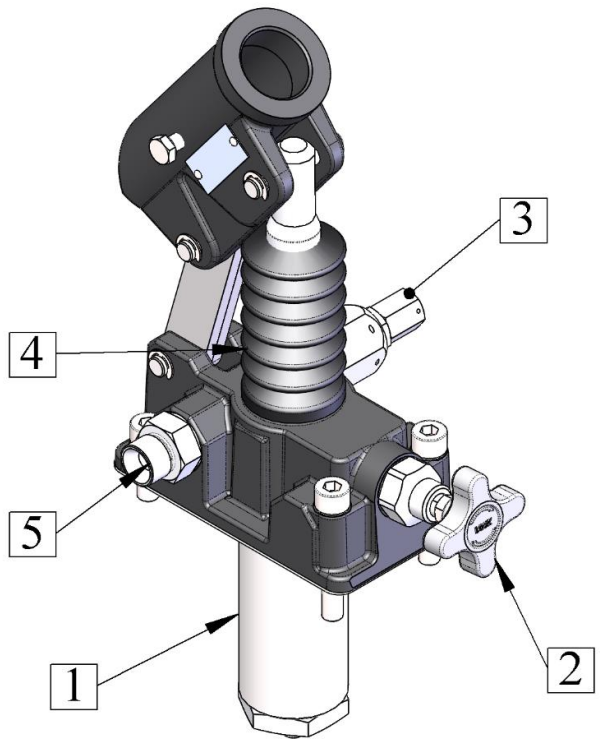
Order code

PRB12 / A - R - M - BP

1 2 3 4 6



1. Pump type	
PRB12/25/45	Double acting pump for single acting cylinders
PRBD12/25/45	Double acting pump for double acting cylinders

2. Release valve	
	3S handle of the release valve
A	4S handle of the release valve
E	without release valve

3. Relief valve (PRB/PRBD)	
	without relief valve
R	with relief valve (right side by default)
RL	with relief valve left side

4. Other	
M	Dust-proof flexible bellow

5. Stud connectors and reducers	
	Outlet stud G3/8 (60 deg cone)
12L	Outlet stud 12L (M18x1,5)
ad3/8NPTF	Outlet reducer 3/8NPTF
G1/4B	G1/4 Banjo
xA	no connector on pos. 2 (PRBD)
xB	no connector on pos. 1(PRBD)
12S	Outlet stud 12S (M20x1,5)

6. Additional options	
WoL	without 550 mm lever
WoF	without suction filter
BP	Black paint RAL9005

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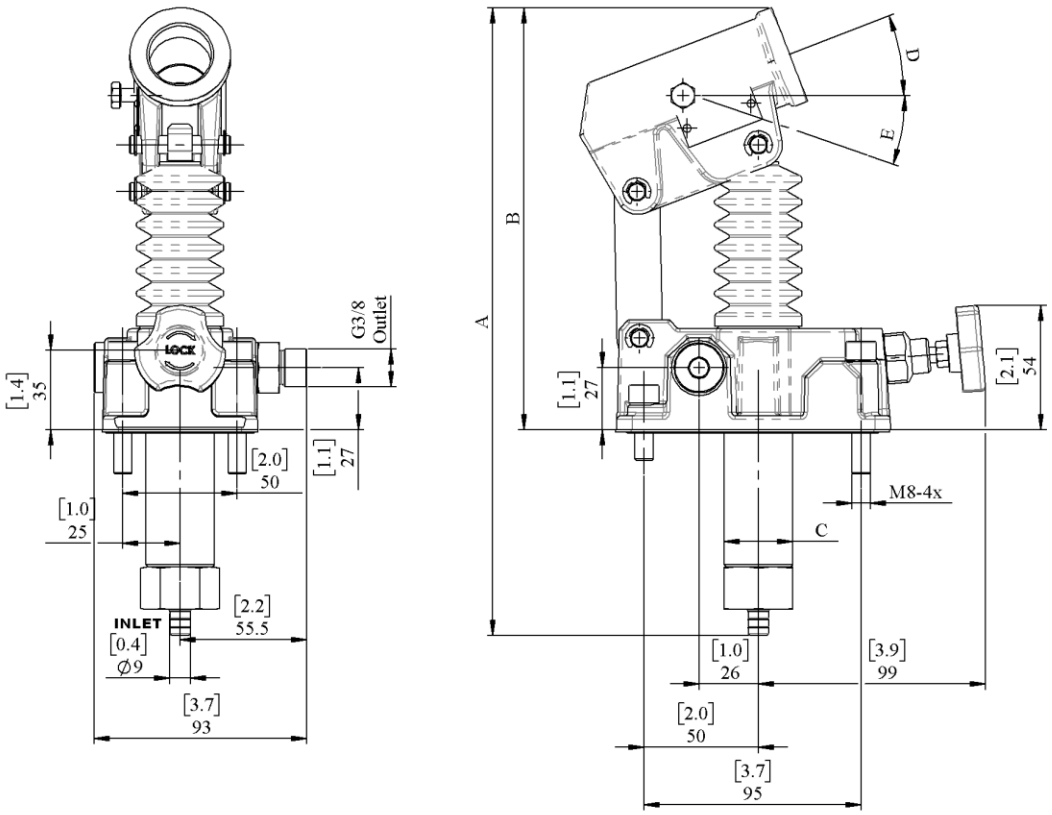
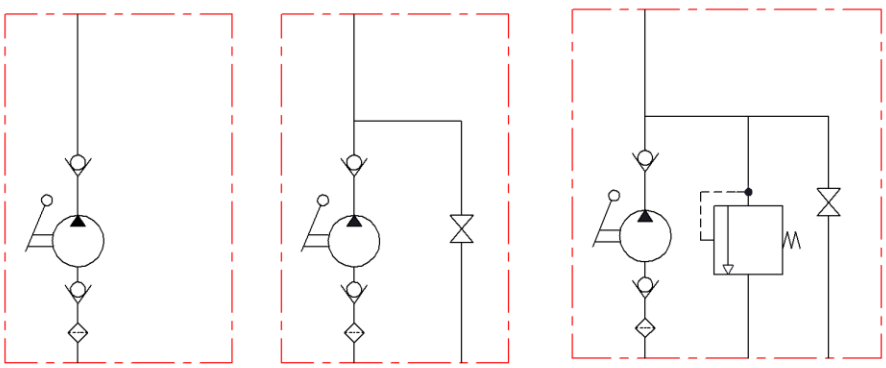
Dimensional data



Hydraulic schemes



Without release and relief valve

Without relief valve

With relief valve

Type	A		B		C		D	E	mass	
	mm*	*in**						°	kg*	*lbs**
PRB12	274	*10.8*	184	*7.2*	30.0	*1.2*	21	20	4.0	*8.8*
PRB25	286	*11.3*	195	*7.7*	35.0	*1.2*	34	21	4.2	*9.3*
PRB45	307	*12.1*	200	*7.9*	40	*1.6*	53.0	25	4.5	*9.9*

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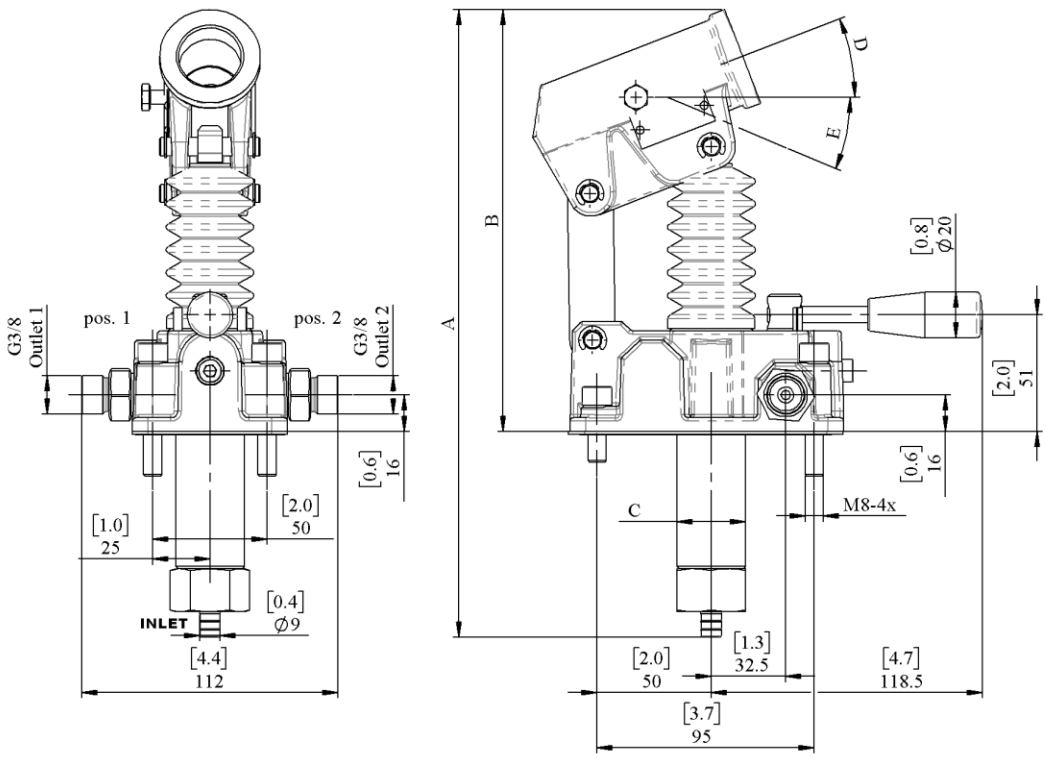
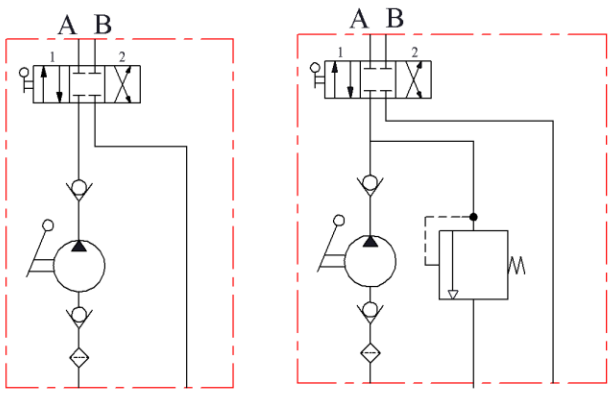
Dimensional data:



Hydraulic schemes



Without relief valve

With relief valve

Type	A		B		C		D	E	mass	
	mm*	*in**						°	kg*	*lbs**
PRBD12	274	*10.8*	184	*7.2*	30.0	*1.2*	21	20	4.0	*8.8*
PRBD25	286	*11.3*	195	*7.7*	35.0	*1.2*	34	21	4.2	*9.3*
PRBD45	307	*12.1*	200	*7.9*	40	*1.6*	53.0	25	4.5	*9.9*

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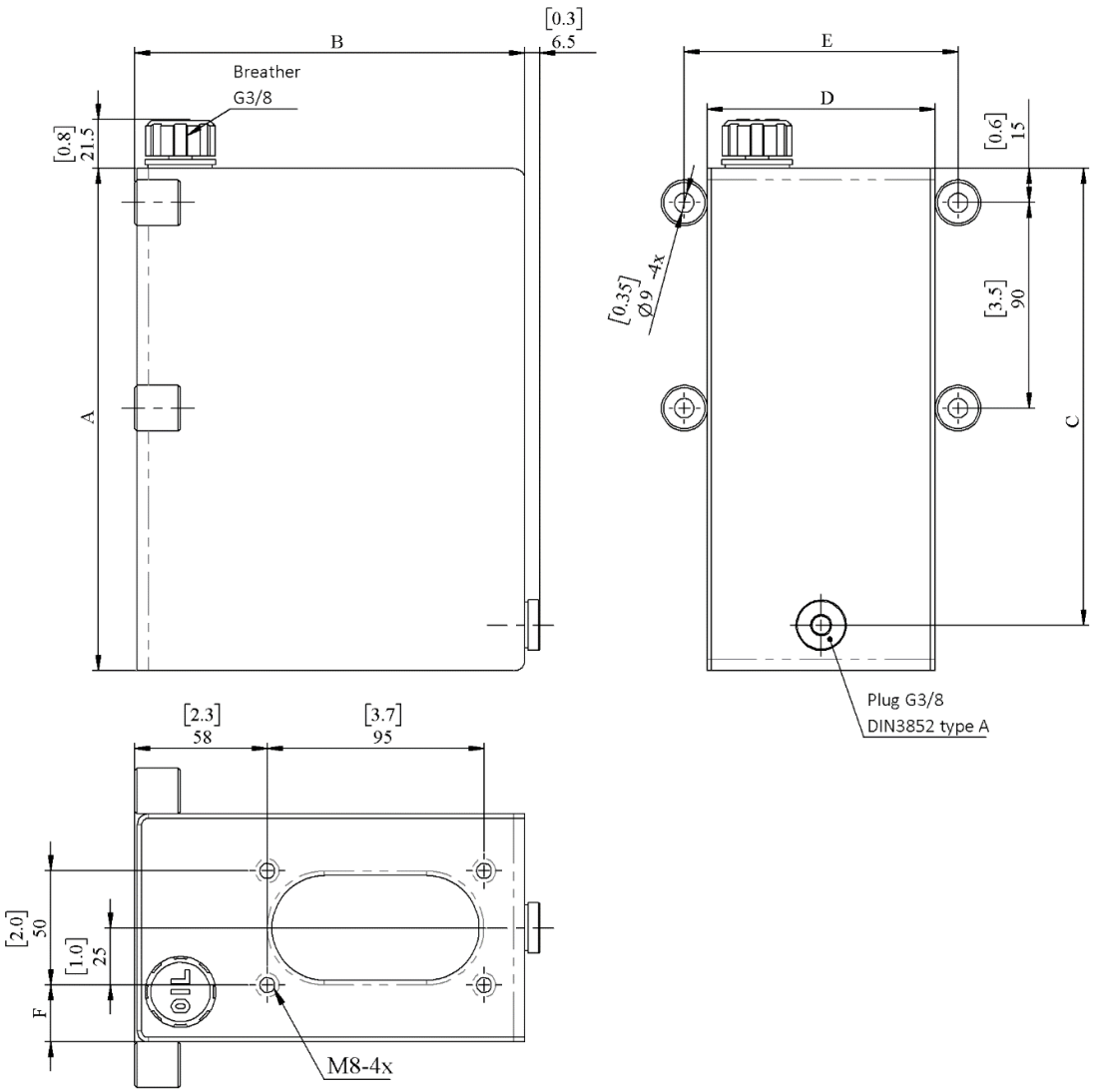
Dimensional data:

Each tank is painted in RAL9005 and includes the corresponding suction tube and filter



Type	A		B		C		D		E		F		mass	
	mm* *in**												kg* *lbs**	
RP1	120	*4.7*	171	*6.7*	100	*3.9*	100	*3.9*	120	*4.7*	25	*1.0*	1.7	*3.7*
RP2	170	*4.7*	171	*6.7*	150	*3.9*	100	*3.9*	120	*4.7*	25	*1.0*	2.2	*4.9*
RP3	220	*8.7*	171	*6.7*	200	*8*	100	*4*	120	*5*	25	*1*	2.6	*5.7*
RP5	200	*7.9*	176	*6.9*	180	*7*	175	*7*	195	*8*	62.5	*2*	3.3	*7.3*
RP7	290	*11.4*	176	*6.9*	270	*11*	175	*7*	195	*8*	62.5	*2*	4.3	*9.5*
RP10	380	*15.0*	176	*6.9*	360	*14*	175	*7*	195	*8*	62.5	*2*	5.3	*11.7*

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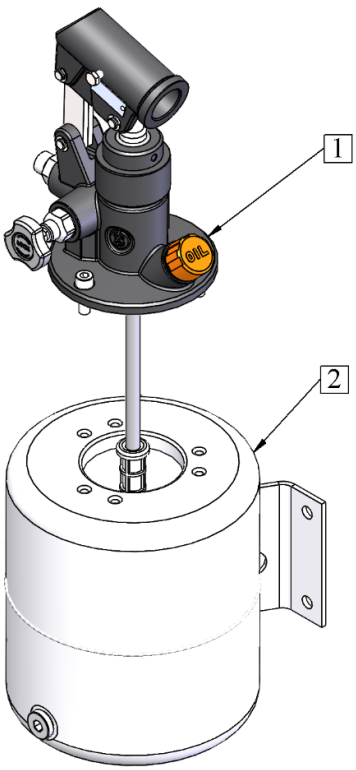
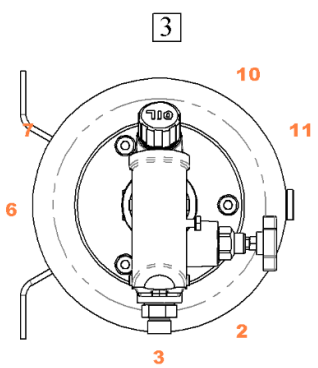
Full order code (pump and tank)

PRP18/S60 + R5

1 2 3



1. Pump (page 10)	
2. Cylindrical tanks (page 13-14)	
R2	2L tank
R3	3L tank
R5	5L tank
R7	7L tank
R4	4L tank, no breather (page 14)
3. Outlet orientation (optional for cylindrical tanks)	
	outlet is oriented to pos. 3
C2	outlet is oriented to pos. 2
C6	outlet is oriented to pos. 6
C7	outlet is oriented to pos. 7
C11	outlet is oriented to pos. 11
C10	outlet is oriented to pos. 10



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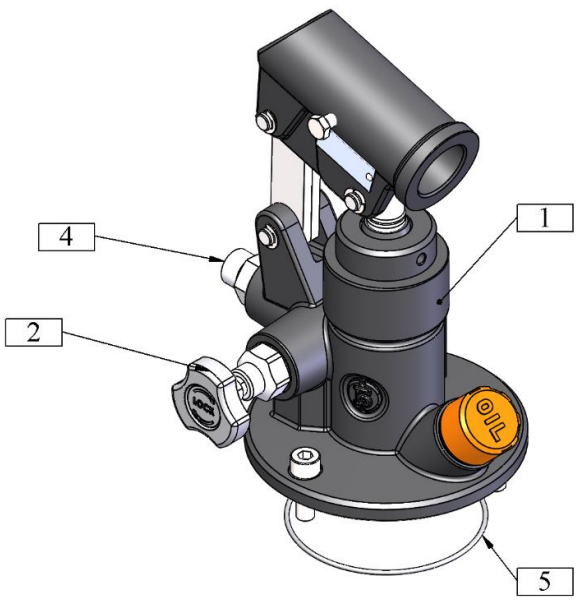
Order code

PRP12/ M-S60-V- BP

1 3 4 5 5



1. Pump type	
PRP12/18/25	Single acting pump for single acting cylinders
PRBC20	Double acting pump for single acting cylinders

2. Release valve	
	3S handle of the release valve
A	4S handle of the release valve
E	without release valve

3. Other	
M	Dust-proof flexible bellow

4. Stud connectors and reducers	
S60	Outlet stud G3/8 (60 deg cone)
12L	Outlet stud 12L (M18x1,5)
ad3/8NPTF	Outlet reducer 3/8NPTF
x	no connectors
12S	Outlet stud 12S (M20x1,5)

5. Additional options	
V	Sealing outside M8 area
DDM	Bonded seal washers for PRPs M8 screws
WoL	without 550 mm lever
WoF	without suction filter
O	Reverse lever arm (180 deg.)

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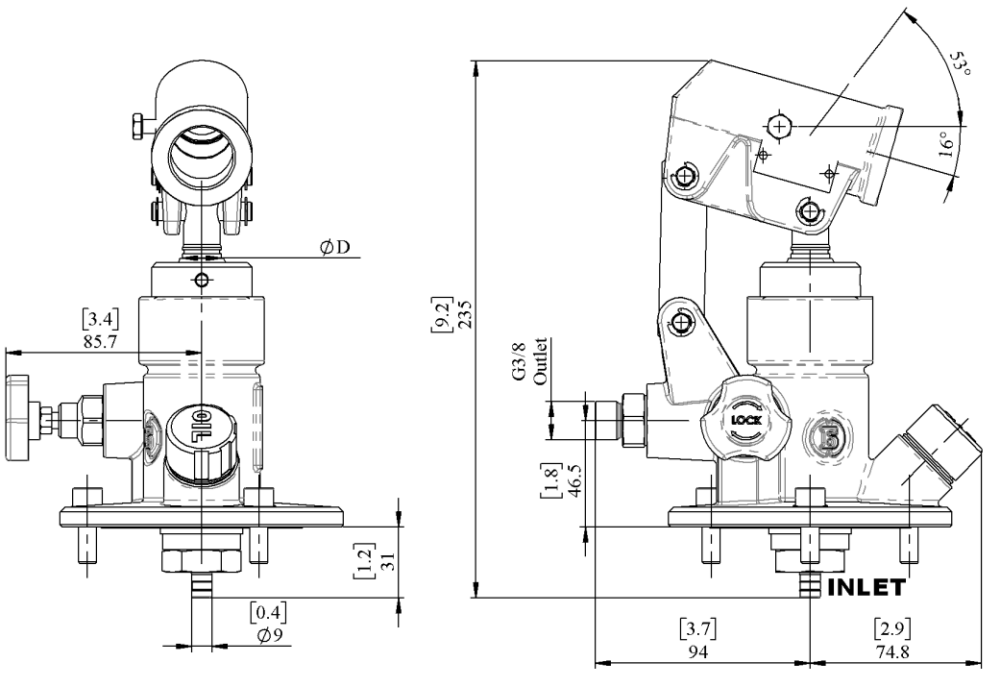
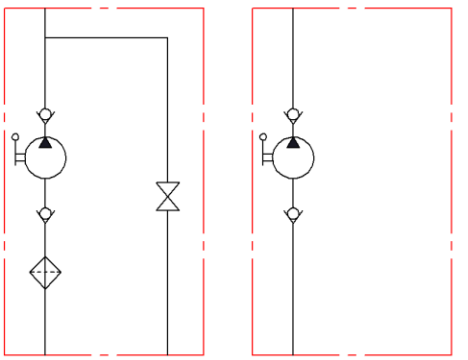
Dimensional data



Hydraulic schemes



With release valve

Without release valve

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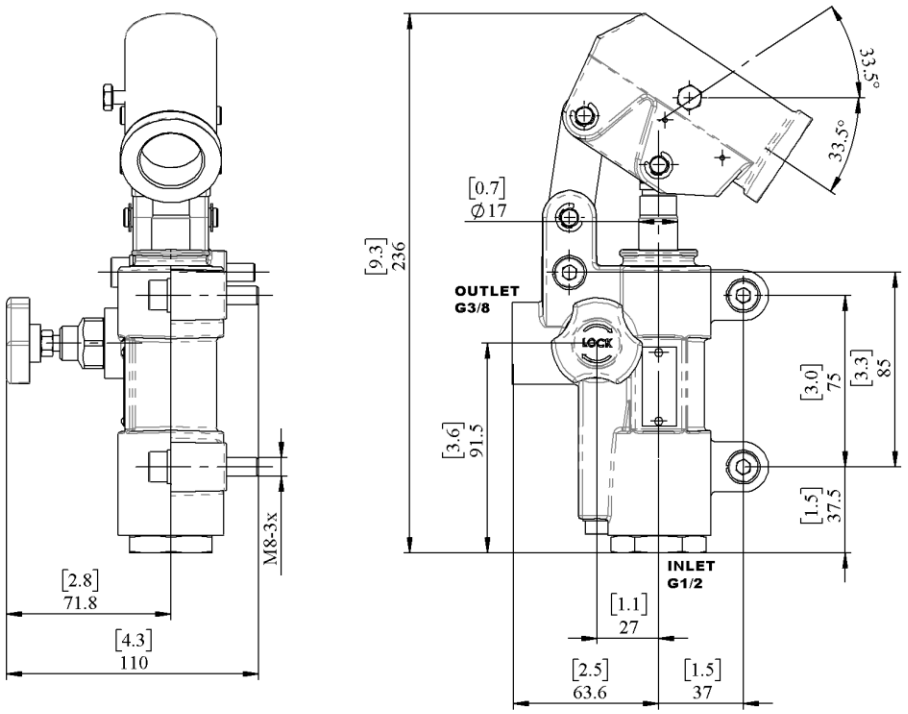
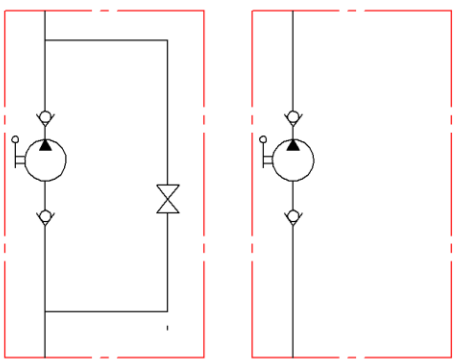
Dimensional data:



Hydraulic schemes



With release valve

Without release valve

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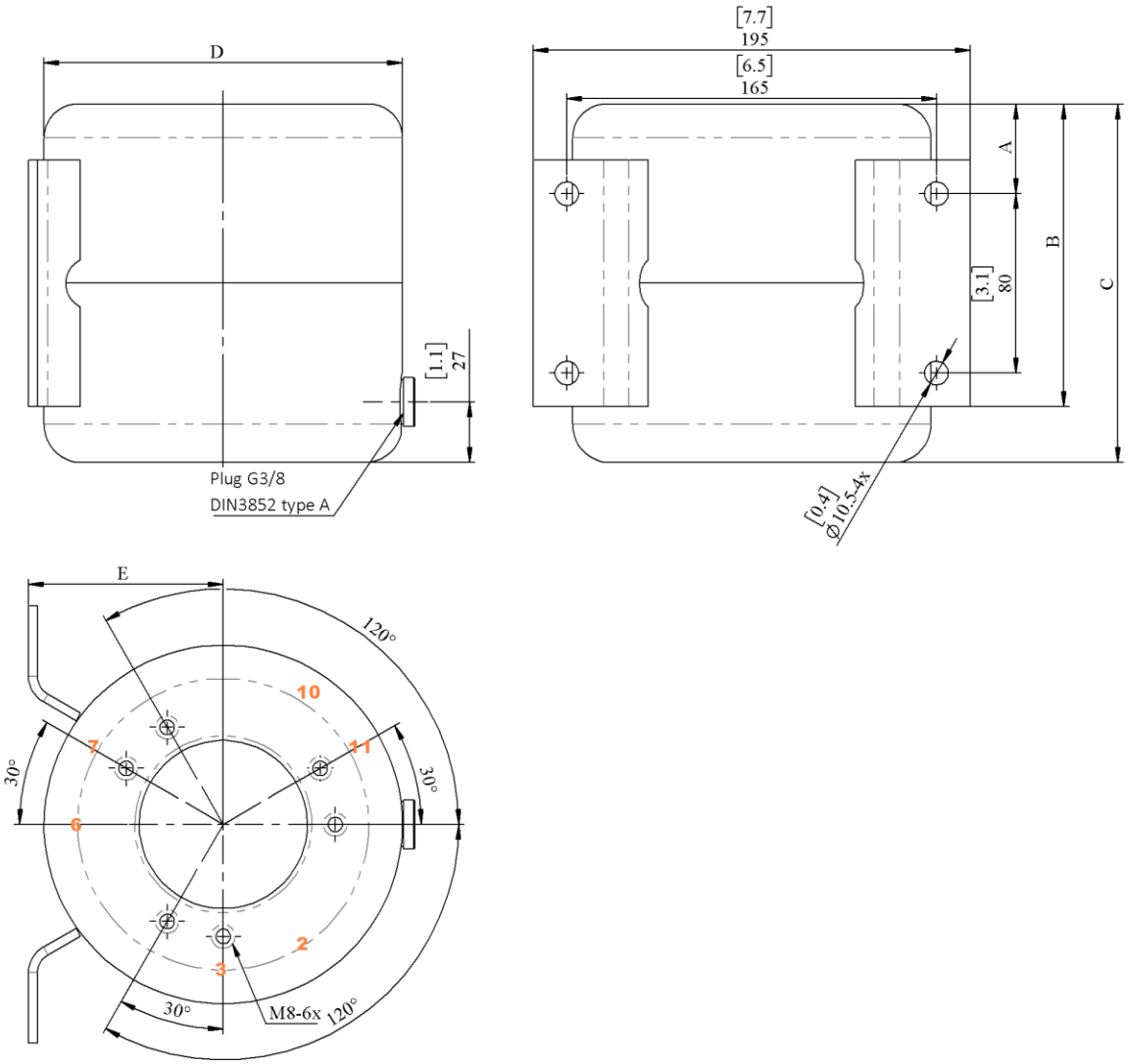
Dimensional data:

Each tank is painted in RAL9005 and includes the corresponding suction tube and filter



Type	A		B		C		D		E		mass	
	mm* *in**										kg**lbs**	
R2G	30	*1.2*	125	*4.9*	130	*5.1*	160	*6.3*	87	*3.4*	1.9	*4.2*
R3G	40	*1.2*	135	*4.9*	160	*5.1*	160	*6.3*	87	*3.4*	2.1	*4.6*
R5G	53	*2*	148	*5.8*	214	*8.4*	185	*7.3*	101	*4.0*	3.0	*6.6*
R7G	53	*2*	148	*5.8*	240	*9.4*	205	*8.1*	113	*4.4*	3.7	*8.2*

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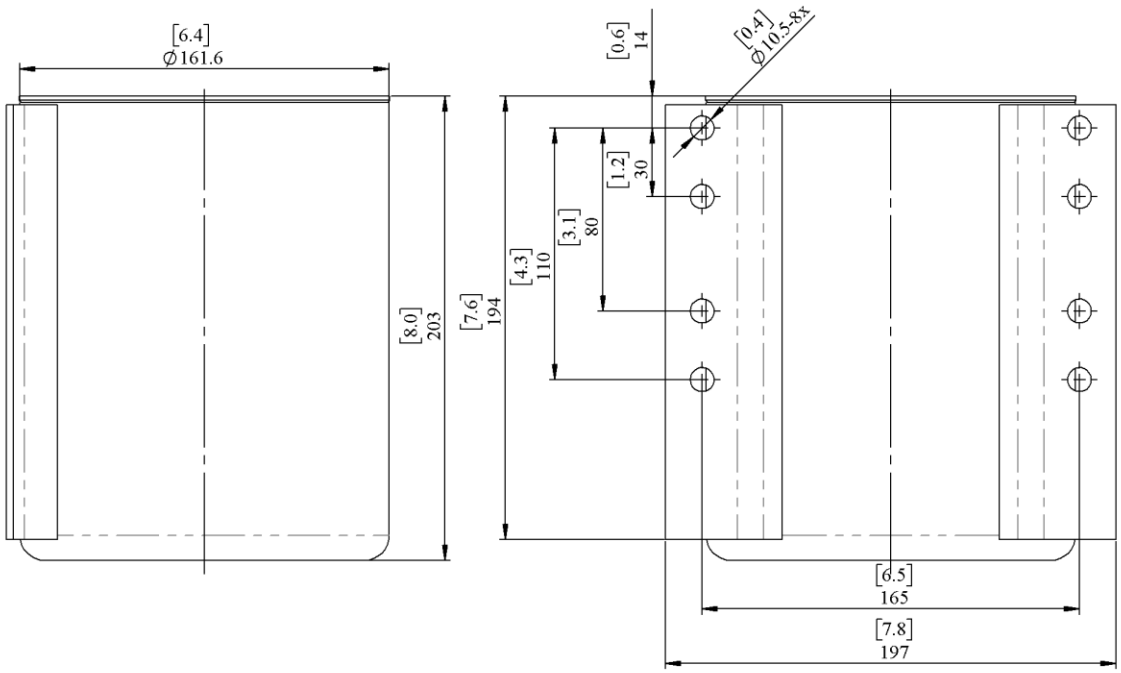

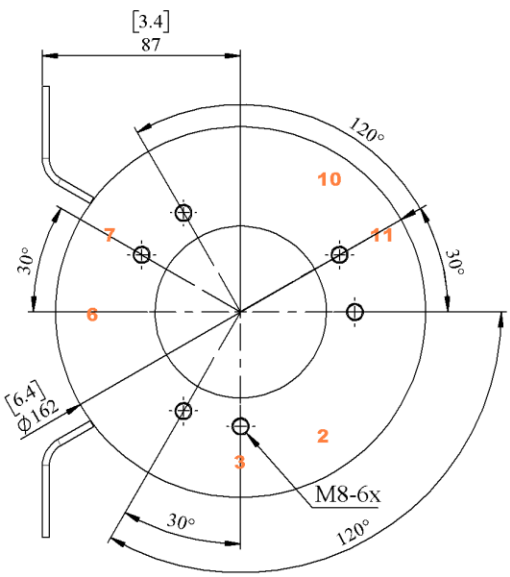

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