



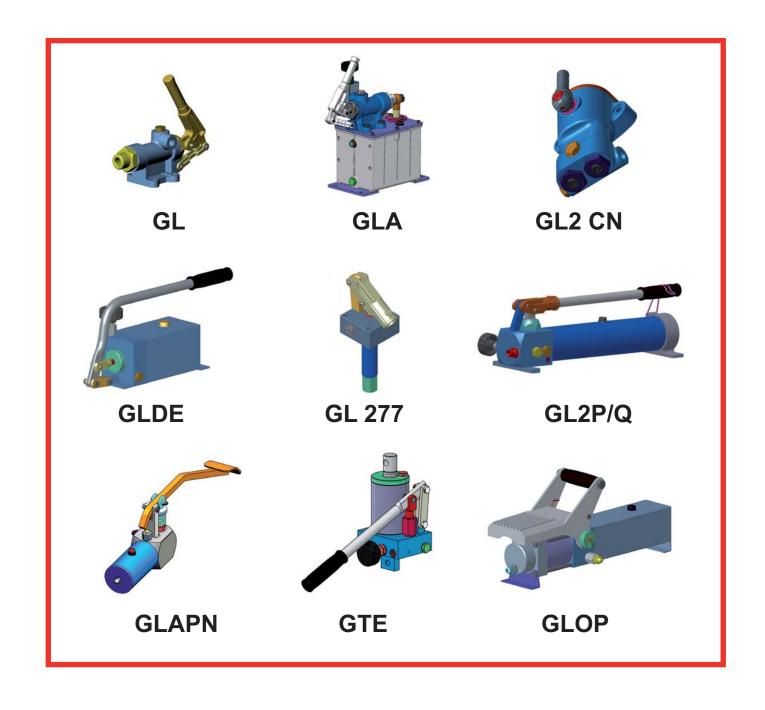
HYDRAULIC COMPONENTS HYDROSTATIC TRANSMISSIONS GEARBOXES - ACCESSORIES

Certified ISO 9001 and 14001



HT 20 / A / 309 / 0912 / E

Hydraulic Hand Pumps





Hydraulic Hand Pumps

Issue n° HT 20 / A / 309 / 0912 / E (Replaces all previous edition)

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The specific data are for product description purposes only and must not be interpreted as warranted characteristics in legal sense.

Protection: external protection is generally with painting RAL 5015 (Blue), on liquid base for models with tank, while epoxy powder for models with cast iron housing.

Aluminium parts are anodized

Lever parts and others is partially zinc-coated.

Special protection are possible on request.

ASSEMBLY, COMMISSIONING AND MAINTENANCE OF THE PRODUCTS DESCRIBED IN THIS CATALOGUE:

SEE HANDBOOK

The main performance curves and the specifications shown in this catalogue are obtained by using mineral based fluid ISO VG 46, with cleanliness class of 17/15/12 ISO 4406 (Class 7 NAS 1638) at a temperature of 50°C.

HYDRAULIC FLUIDS:

General properties:

The fluid must have physical lubricating and chemical properties suitable for use in hydraulic systems, such as, for example:

MINERAL OIL BASED HYDRAULIC FLUIDS HL (DIN 51524 part 1)

MINERAL OIL BASED HYDRAULIC FLUIDS HLP (DIN 51524 part 2)

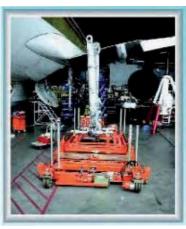
For use of other fluids, environmentally friendly fluids or fire resistant fluids, please consult our Tech. Dpt.



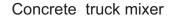
Applications



Culvert cover lifter



Airport ground support equipment







Furniture press



Applications



Hydraulic starter for marine diesel engine



Special structures for disabled persons

All purpose platform



Aerial platform



Windmill





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Double acting pumps steel/aluminium housing without tank		GLDE 20 H ALL GLDE 25 H ALL GLNX (20-35) GLX (20-35) GL 173 M GL 264 GL 271 R GL 277 GL 290 SS GL 292 SS GL 303 ALL GL 315 GL 315 VM	26 27 28 29 30 31 32 33 34 35 36 37 38
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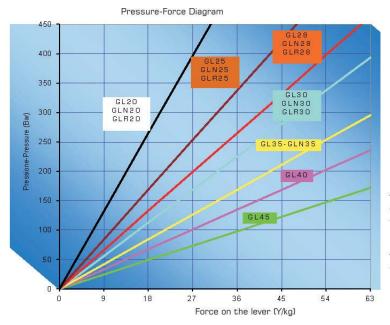
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Hydraulic Hand Pumps



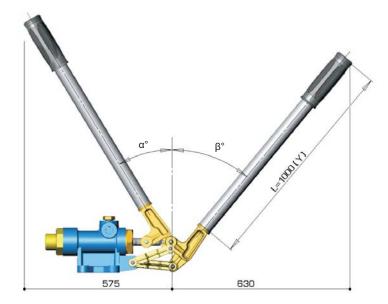
The hand-pumps of the GL-series are manufactured on most modern CNC-machines and by using accurately selected raw materials. The production in large series and the highest quality controls confirm them on the highest world level for products of this type of construction. Their application is in various fields: as emergency or auxiliary pump in mobile or industrial hydraulics; as main pump in the high pressure technology for: material testing, hoisting; levelling; block-technology, cutting machines; presses, etc. The surface tretment are: powder painting (std RAL 5015) with furnace drying at 200° for bodies and yellow zinc-coated for other external part.

Double acting function: symbol
The lever must be actuated
forwards+backwards in order to obtain
the shown delivery (cm³)

Single acting function: symbol

The shown delivery (cm³) is obtained by actuating the pedal/lever in one direction only

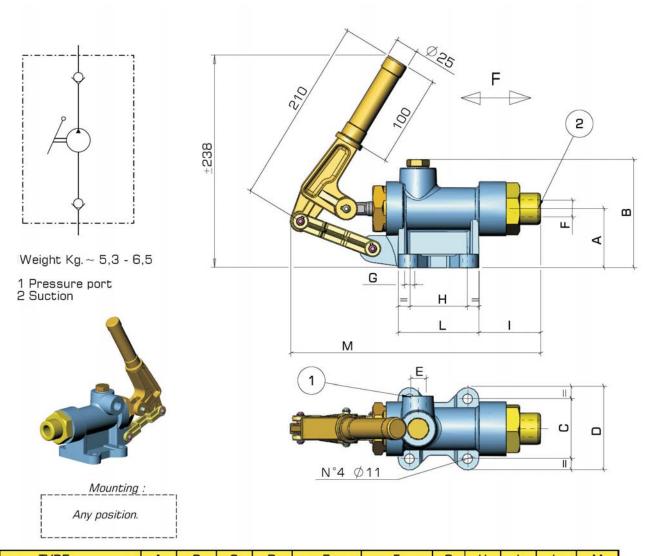
Conversion Table							
S.I.							
1mm * 10 ⁻⁸ = 1m	1mm * 0.039 = 1in						
1Kg * 9.81 = 1N	1Kg * 0.457 = 1lb						
1Bar * 10 ⁻⁵ = 1N/m² (pa)	18ar * 14.286 = 1psi						
1L * 10 ⁻³ = 1m ³	1L * 0.061 = 1in ⁸						
1Cm ³ /A * 10 ⁻⁵ = 1m ³ /A	1Cm ⁸ /A * 0.061 = 1in ⁸ /A						
A = Cycle							



Pump type	α°	eta°
GL 20-25-28-30-35	34	38
GL 40-45	30	55



Hydraulic Hand Pump Type GL (20-45) Double stroke function



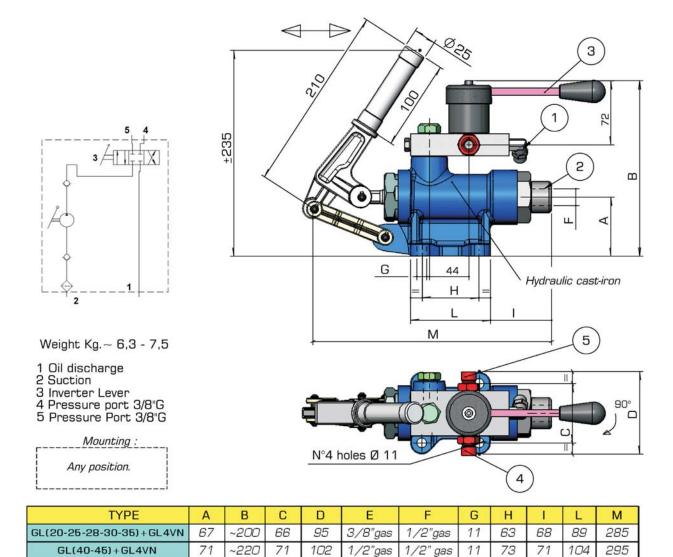
L	TYPE	Α	В	С	D	Е	F	G	Η		L	M
	GL 20-25-28-30-35	67	120	66	95	3/8"gas	1/2"gas	11	63	68	89	285
	GL 40-45	71	137	71	102	1/2"gas	1/2" gas	11	73	71	104	295

TYPE	DELIVERY Co	PRESSURE Bar			
GL 20	18	460			
GL 25*	29	320			
GL 28	36	250			
GL 30	42	220			
GL 35*	<i>57</i>	160			
GL 40*	87	120			
GL 45	111	90			

^{*} Authorized by the Italian Ministry of Mercantile Marine with Nr. 47/1988 and 48/1988. * Authorized Italian Navy Register (RINA) nr. 17874.



Hydraulic Hand Pump Type GL+GL 4VN Double stroke function with diverter for double acting cylinder

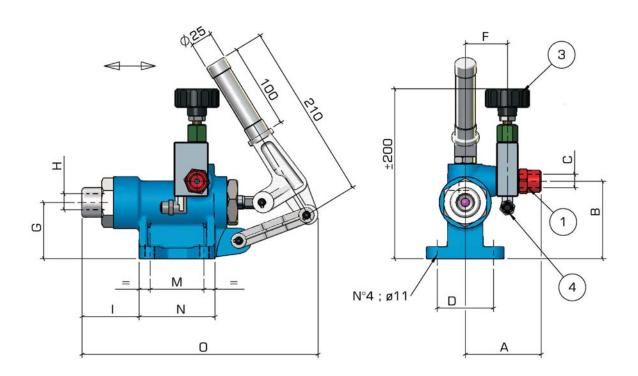




TYPE	DELIVERY Cc	PRESSURE Bar
GL20+GL4VN	18	460
GL25+GL4VN	29	320
GL28+GL4VN	36	250
GL30+GL4VN	42	220
GL35+GL4VN	57	160
GL40+GL4VN	87	120
GL45+GL4VN	111	90



Hydraulic Hand Pump Type GLD (20-45) Double stroke function with release handknob for single acting cylinder



Materials:

- -Cast-iron pump housing
- -Aluminium Valve housing

Weight Kg. ~6.3 - 7

- 1 Pressure Port

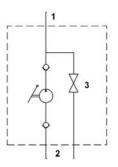
- 2 Suction 3 Release handknob 4 Discharge, pipe ø8





TYPE	Α	В	С	D	F	G	Н	-1	М	N	0
GLD 20-25-28-30-35	90	90	3/8"G	66	52	67	1/2"gas	68	63	89	285
GLD 40-45	100	107	1/2"G	71	56	71	1/2" gas	71	73	104	295

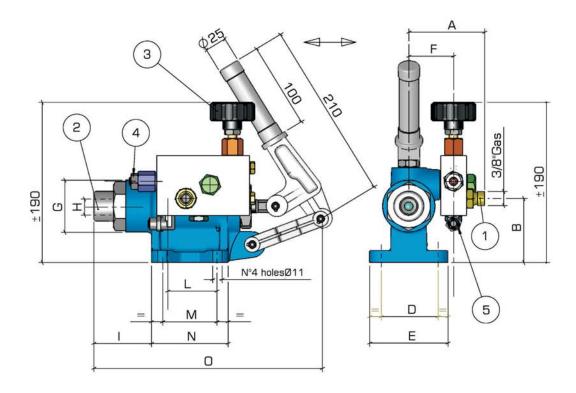
TYPE	DELIVERY cm ³	PRESSURE Bar
GLD 20	18	460
GLD 25	29	320
GLD 28	36	250
GLD 30	42	220
GLD 35	57	160
GLD 40	87	120
GLD 45	111	90



Authorized by the Italian Ministry of Mercantile Marine with Nr. 47/1988 and 48/1988. Authorized Italian Navy Register (RINA) nr. 17874



Hydraulic Hand Pump Type GLDV (20-45) Double stroke function with relief valve for single acting cylinder

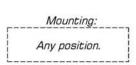


Materials:

- Cast-iron pump housing
- Aluminium valve housing

Weight Kg. 6.7-8

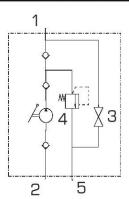
- 1 Pressure Port
- 2 Suction 3 Release handknob
- 4 Max pressure setting 5 Tank port (for pipe ø8)





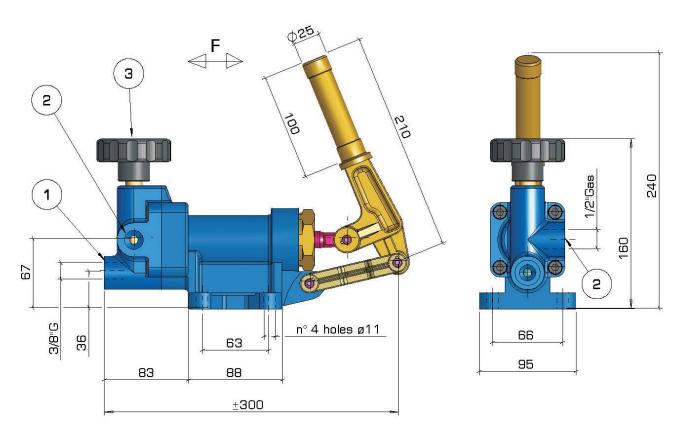
TYPE	Α	В	D	Е	F	G	H	1	L	М	N	0
GLDV 20-25-28-30-35	90	75	66	95	48	67	1/2"gas	68	46	63	89	285
GLDV 40-45	100	79	71	102	52	71	1/2" gas	71	56	73	104	295

TYPE	DELIVERY cm ³	PRESSURE Bar
GLDV 20	18	460
GLDV 25	29	320
GLDV 28	36	250
GLDV 30	42	220
GLDV 35	57	160
GLDV 40	87	120
GLDV 45	111	90





Hydraulic Hand Pump Type GLR (20-30) Double stroke function with release handknob for single acting cylinder



Materials:

Cast-iron pump housing

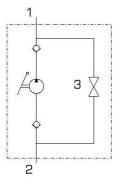
Weight Kg. ~6,3 - 6,5

1 Pressure port 2 Suction 3 Release handknob

Mounting: Any position

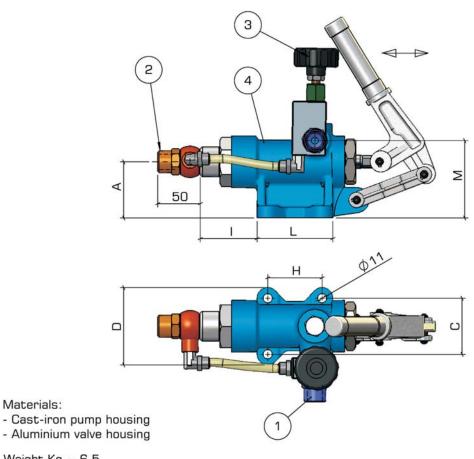


TYPE	DELIVERY cm ³	PRESSURE Bar
GLR 20	18	460
GLR 25	29	320
GLR 28	<i>36</i>	250
GLR 30	42	220





Hydraulic Hand Pump Type GL 189 (20-45) Double stroke function with release handknob group D for single acting cylinder



Weight Kg.~ 6.5

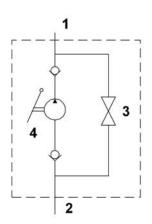
Materials:

- 1 Pressure port 1/2"G 2 Suction 1/2"G
- 3 Release Handknob
- 4 Pump type GL

Mounting:			
	Any position.		

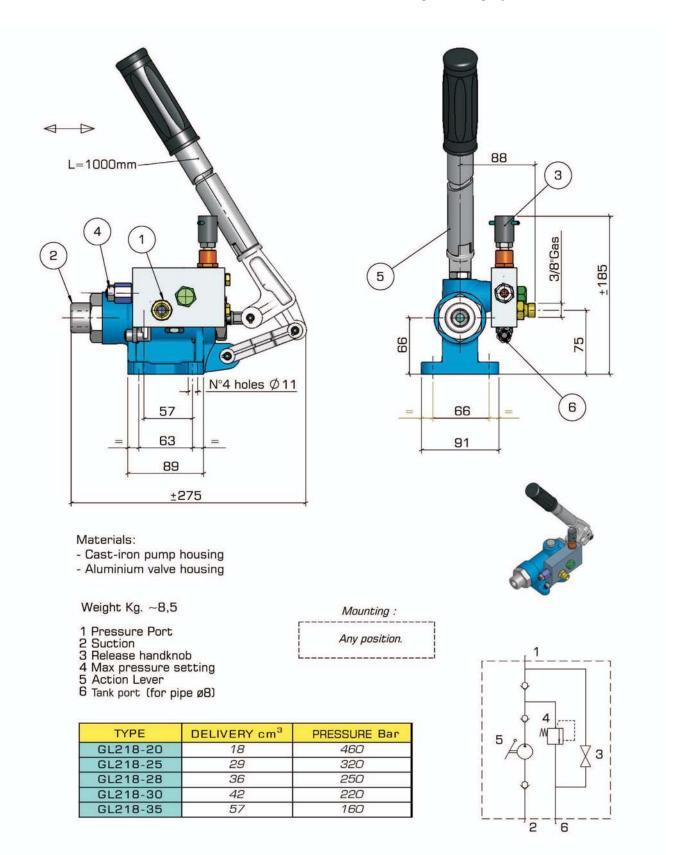
TYPE	Α	С	D	Н	-1	L	М
GL189-(20,25,28,30,35)	67	66	95	63	68	89	91
GL189-(40,45)	71	71	102	73	71	104	104

TYPE	DELIVERY Cc	PRESSURE Bar
GL189-20	18	460
GL189-25	29	320
GL189-28	36	250
GL189-30	42	220
GL189-35	57	160
GL189-40	87	120
GL189-45	111	90



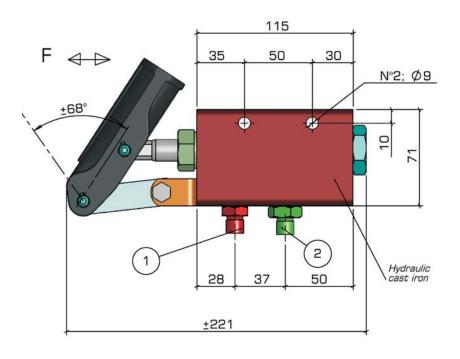


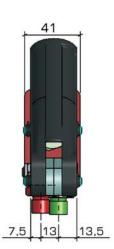
Hydraulic Hand Pump Type GL 218 (20-35) Double stroke function with relief valve for single acting cylinder





Hydraulic Hand Pump Type GL 310-20 Double stroke function for single acting cylinder

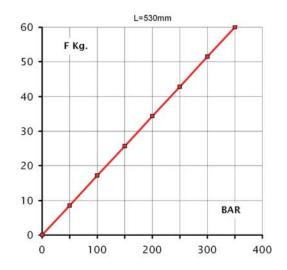




Weight (with extension lever L=530mm) \sim Kg 4

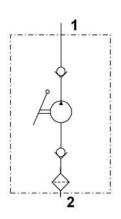
1 Pressure Port 1/4"Gas bspp 2 Suction 1/4"Gas bspp

TYPE	DELIVERY cm ³	PRESSURE Bar
GL310-20	17	350



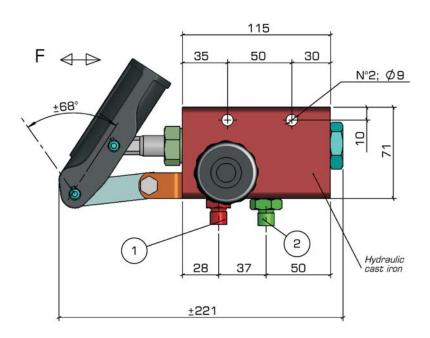


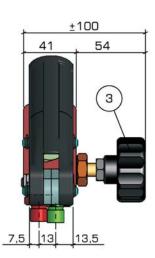






Hydraulic Hand Pump Type GL 310 R-20 Double stroke function for single acting cylinder

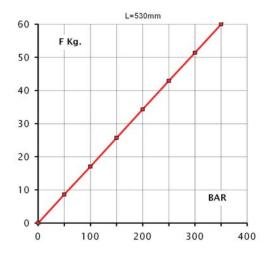




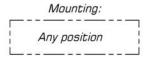
Weight (with extension lever L=530mm) ~Kg 4

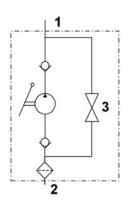
- 1 Pressure Port 1/4"Gas bspp
- 2 Suction 1/4"Gas bspp
- 3 Release handknob

TYPE	DELIVERY cm ³	PRESSURE Bar
GL310R-20	17	350



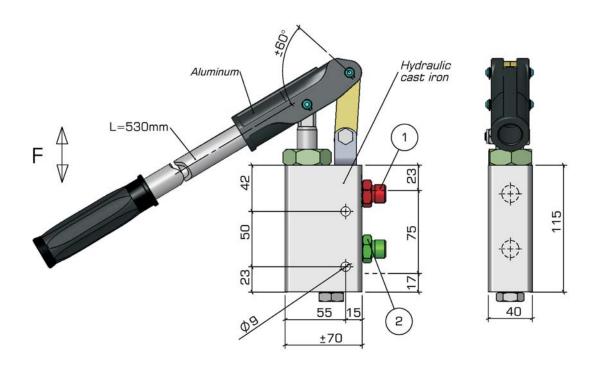






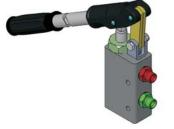


Hydraulic Hand Pump Type GL 325 Double stroke function for single acting cylinder

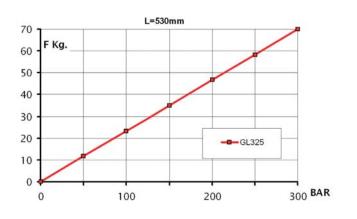


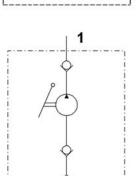
Weight ~Kg 3.7

- 1 Pressure 3/8"Gas bspp
- 2 Suction 3/8"Gas bspp (with filter)



TYPE	DELIVERY cm ³	PRESSURE Bar
GL325	23	300



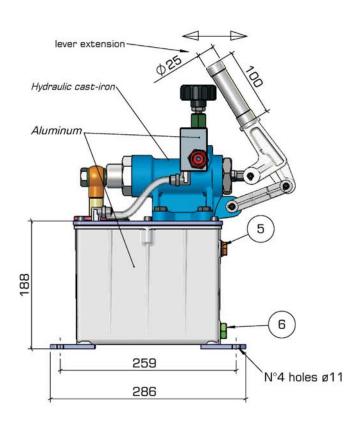


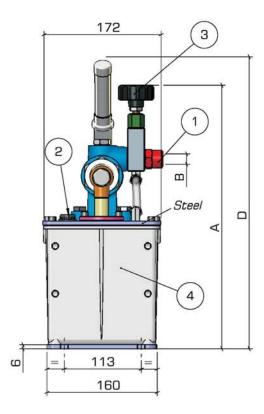
2

Mounting: Any position



Hydraulic Hand Pump Type GLA (20-45) Double stroke function with release handknob for single acting cylinder

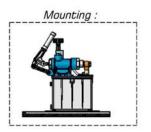




Weight kg. ~11

- 1 Pressure Port 2 Filler Plug 1/2"G 1/2"G -3 Release Handknob

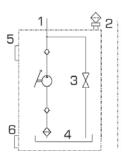
- 4 Tank L 4 5 Oil Level indicator
- 6 Oil Discharge Plug 1/2"G





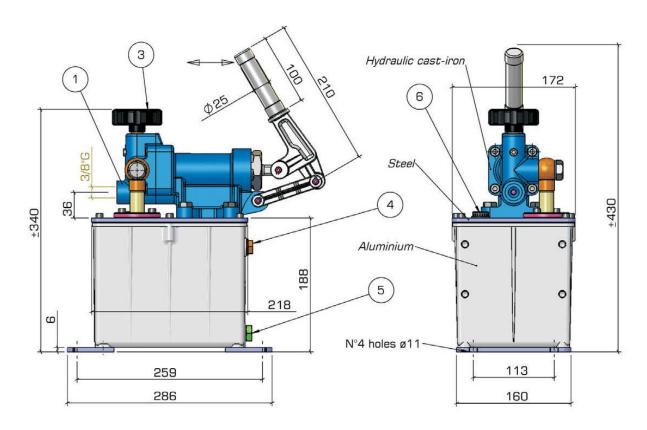
TYPE	А	В	D
GLA 20-25-28-30-35	~390	3/8"gas	~420
GLA 40-45	~410	1/2"gas	~430

TYPE	DELIVERY cm ³	PRESSURE Bar
GLA 20	18	460
GLA 25	29	320
GLA 28	36	250
GLA 30	42	220
GLA 35	57	160
GLA 40	87	120
GLA 45	111	90





Hydraulic Hand Pump Type GLB (20-30) Double stroke function with release handknob for single acting cylinder

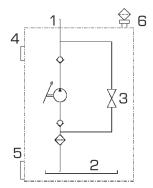


Peso - Weight ~11Kg

- 1 Mandata Pressure Port 2 Serbatoio L 4 Tank L 4 3 Release Handknob

- 4 Oil Level Indicator
- 5 Oil Discharge Plug 1/2"G 6 Filler plug 1/2"G

TYPE	DELIVERY cm ³	PRESSURE BAR
GLB 20	18	460
GLB 25	29	320
GLB 28	36	250
GLB 30	42	220

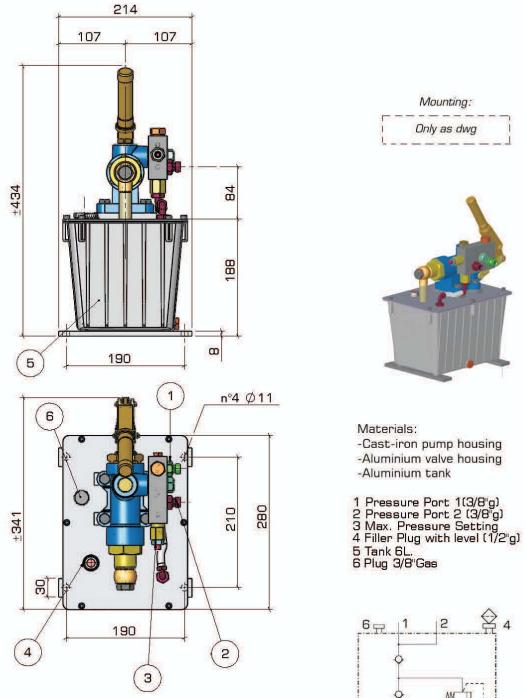




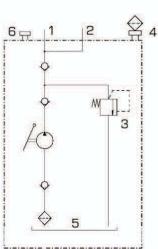




Hydraulic Hand Pump Type GL 215-6 AL Double stroke function with relief valve for single acting cylinder

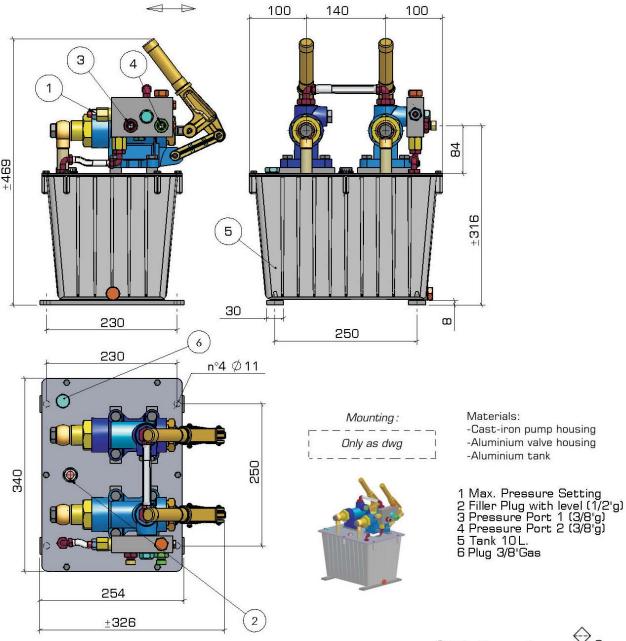


TYPE	DELIVERY Cc	PRESSURE Bar
GL 215-6AL-20	18	460
GL 215-6AL-25	29	320
GL 215-6AL-28	36	250
GL 215-6AL-30	42	220
GL 215-6AL-35	57	160

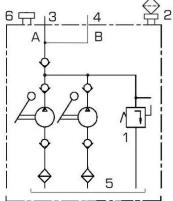




Hydraulic Hand Pump Type GL 215-10 AL Twin pump double stroke function with relief valve for single acting cylinder

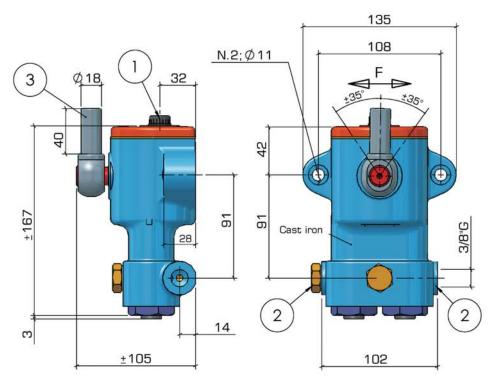


TYPE	DELIVERY Cc	PRESSURE Bar
GL 215-10AL-20	18+18	460
GL 215-10AL-25	29+29	320
GL 215-10AL-28	36+36	250
GL 215-10AL-30	42+42	220
GL 215-10AL-35	57+57	160





Hydraulic Hand Pump Type GL2C...NTwin piston double stroke function for single acting cylinder

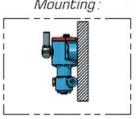


Weight (without oil) Kg. ~4,5

- 1 Oil Inlet 3/8" G 2 Pressure Port 3/8" G

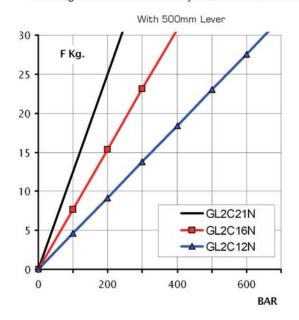
TYPE	DELIVERY cm3	PRESSURE Bar
GL2C12N	5,6	500
GL2C16N	10	250
GL2C21N	17,2	150

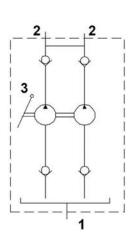






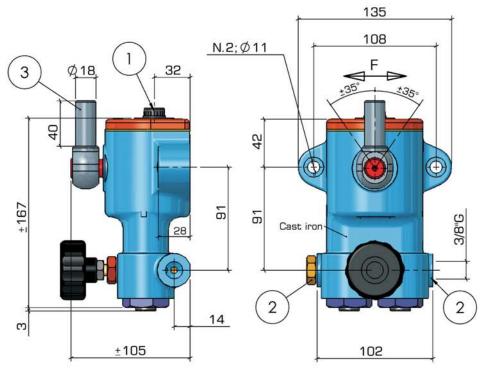
Homologation of Italian Ministry of Defense NATO manufacturers' code no. A5302







Hydraulic Hand Pump Type GL2C...NR Twin piston double stroke function with release handknob for single acting cylinder



Weight (without oil) Kg. ~4,5

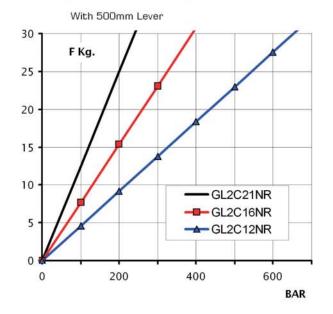
- 1 Oil Inlet 3/8" G 2 Pressure Port 3/8" G 2 Pressure Port 3/8 3 Release handknob

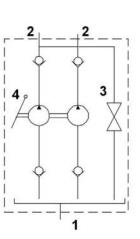
TIPO-TYPE	PORTATA cm3 DELIVERY cm3	PRESSIONE Bar PRESSURE Bar
GL2C12NR	5,6	500
GL2C16NR	10	250
GL2C21NR	17,2	150





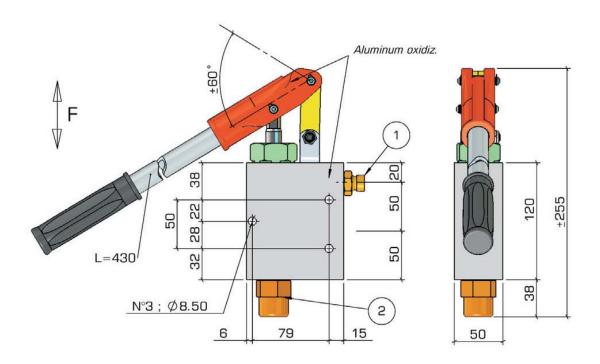
Homologation of Italian Ministry of Defense NATO manufacturers' code no. A5302







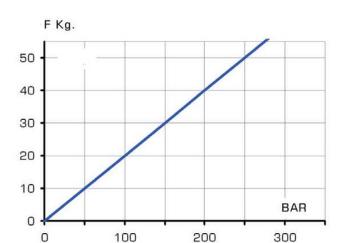
Hydraulic Hand Pump Type GLDE 20H ALL Double stroke function for single acting cylinder

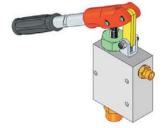


Weight kg. ~3.2

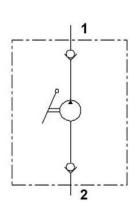
1 Pressure Port 3/8"G 2 Suction

TYPE	DELIVERY cm ³	PRESSURE Bar
GLDE20H-ALL	15	280



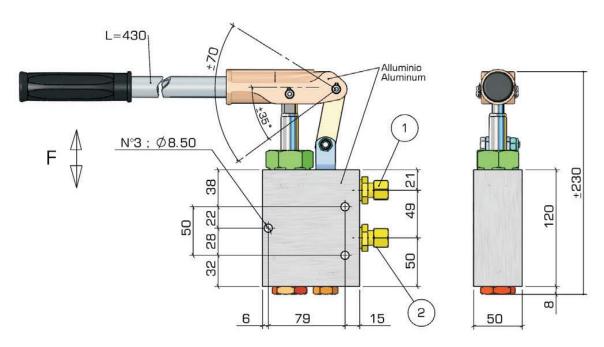


Mounting: Any position.





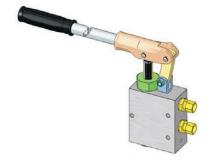
Hydraulic Hand Pump Type GLDE 25 H ALL Double stroke function for single acting cylinder

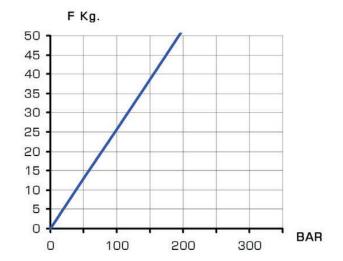


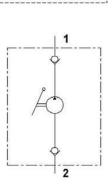
Weight kg. ~3.2

- 1 Pressure Port (for pipe ø15)
- 2 Suction (for pipe ø15)

TYPE	DELIVERY cm ³	PRESSURE Bar
GLDE25H-ALL	25	150





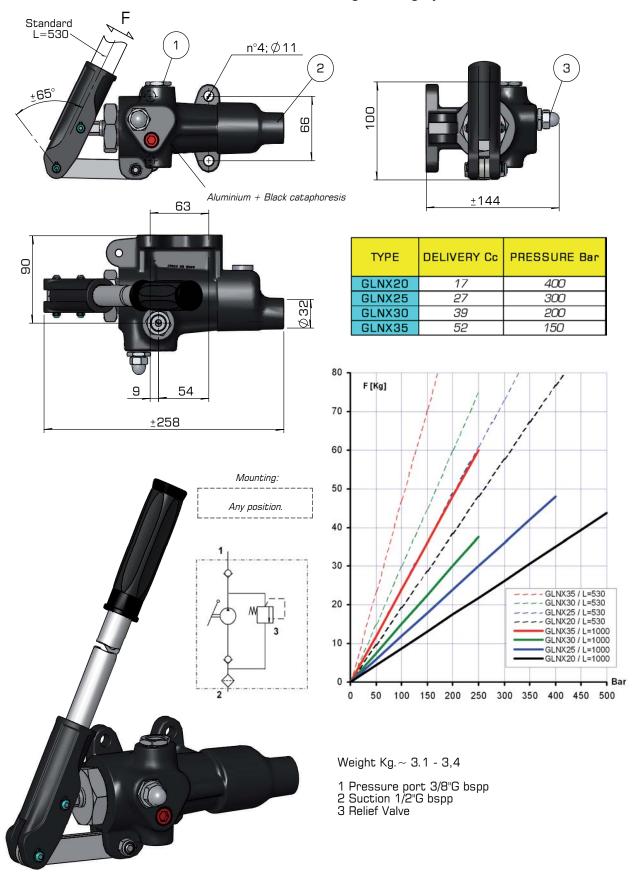


Mounting:

Any position.

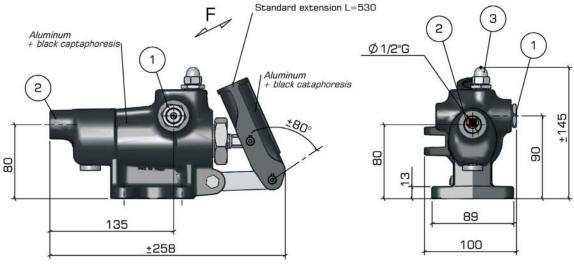


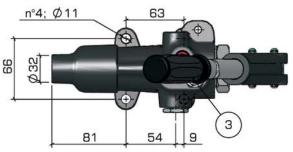
Hydraulic Hand Pump Type GLNX (20-35) Double stroke function for single acting cylinder





Hydraulic Hand Pump Type GLX (20-35) Double stroke function for single acting cylinder





PRESSURE Bar

400

300

200

150

DELIVERY Co

17

27

39

52

TYPE GLX20

GLX25

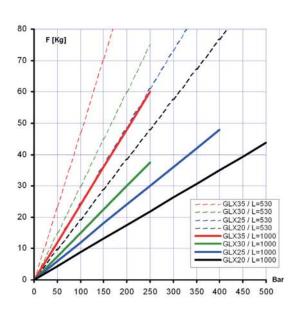
GLX30

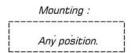
GLX35

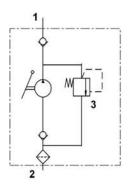
Weight	Kg.∼	3.0 -	3,3
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- 1 Pressure port 3/8"Gas Bspp 2 Suction 1/2"Gas Bspp
- 2 Suction 1/2 3 Relief Valve



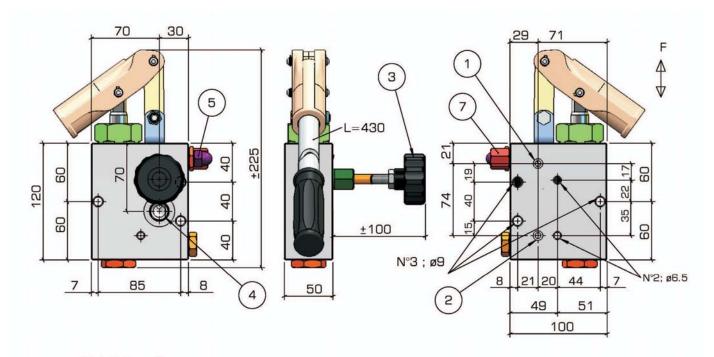








Hydraulic Hand Pump Type GL 173 M-ALL Double stroke function for single acting cylinder

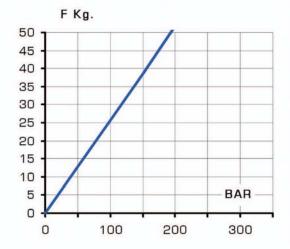


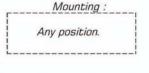
Weight kg. ~3

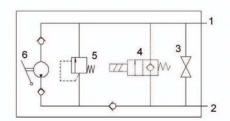
- 1 Pressure Port, ø6 with Or112
- 2 Suction 3 Release Handknob
- 4 Shut-off valve connection (not supplied)
- 5 Relief valve
- 6 Action Lever L=430mm
- 7 Pressure Port, 1/4"G female

TYPE	DELIVERY cm ³	PRESSURE Bar
GL173M-ALL	25	150



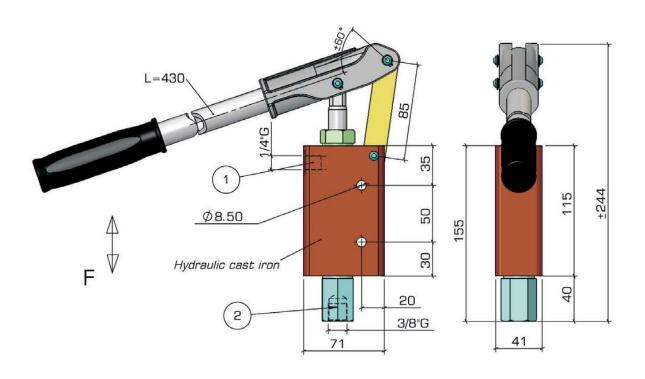








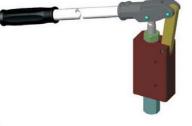
Hydraulic Hand Pump Type GL 264 Double stroke function for single acting cylinder



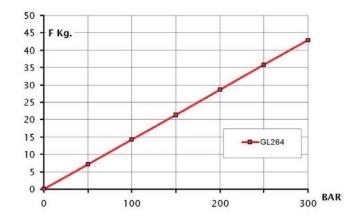
Weight ~Kg 4.3

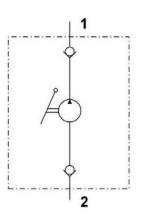
1 Pressure Port 1/4"G 2 Suction 3/8"G

TYPE	DELIVERY cm ³	PRESSURE Bar
GL264	16	280



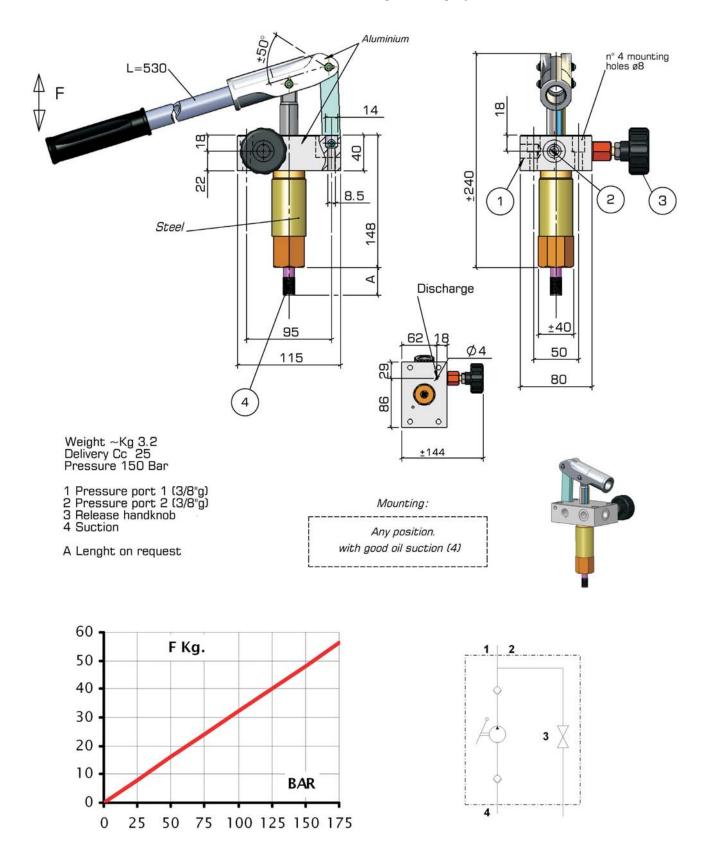






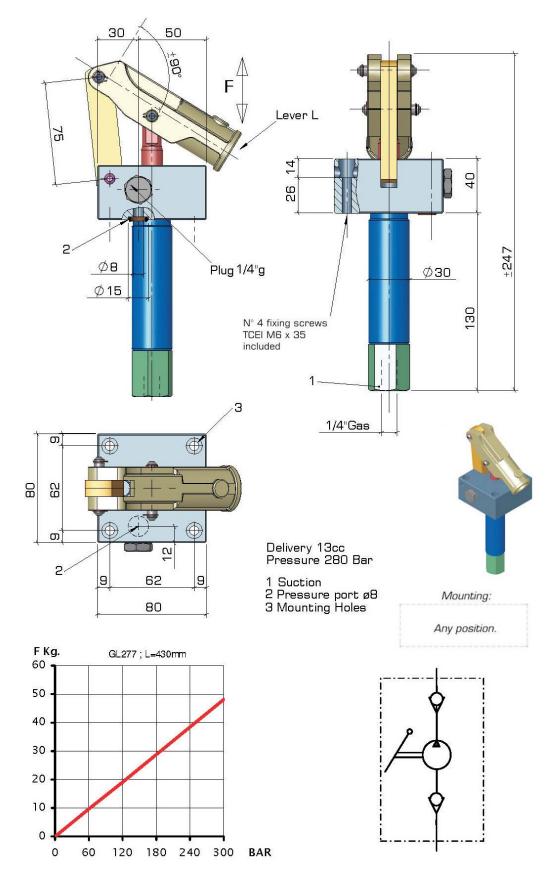


Hydraulic Hand Pump Type GL 271 R Double stroke function for single acting cylinder



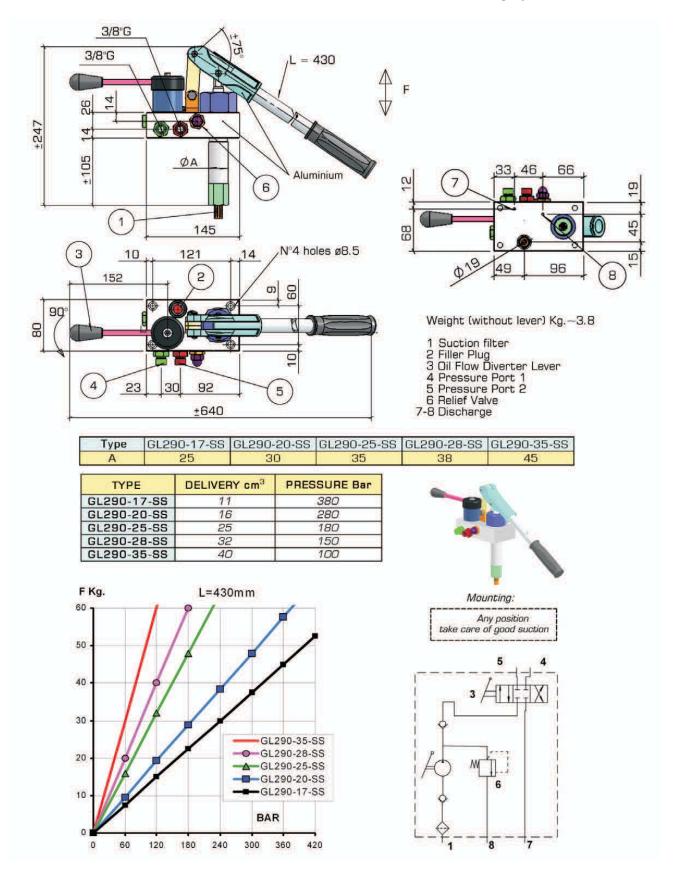


Hydraulic Hand Pump Type GL 277 Double stroke function for single acting cylinder



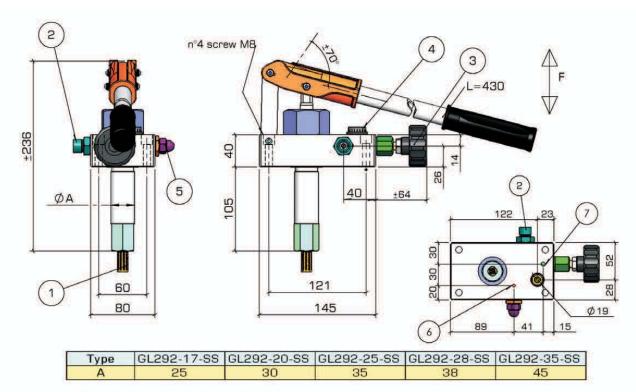


Hydraulic Hand Pump Type GL 290 SS Double stroke function with flow diverter for double acting cylinder





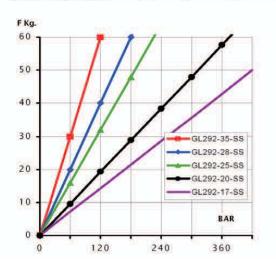
Hydraulic Hand Pump Type GL 292 SS Double stroke function with release handknob and relief valve for single acting cylinder



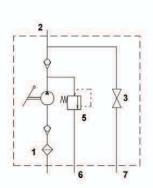
Weight (without lever) Kg. ~3,2-3,5

- 1 Suction Filter 2 Pressure Port 3 Release Hanknob 4 Filler Plug 5 Relief Valve
- 6-7 Scarico Discharge

TYPE	DELIVERY CC	PRESSURE Bar
GL292-17-SS	11	380
GL292-20-SS	16	280
GL292-25-SS	25	180
GL292-28-SS	32	150
GL292-35-SS	50	100





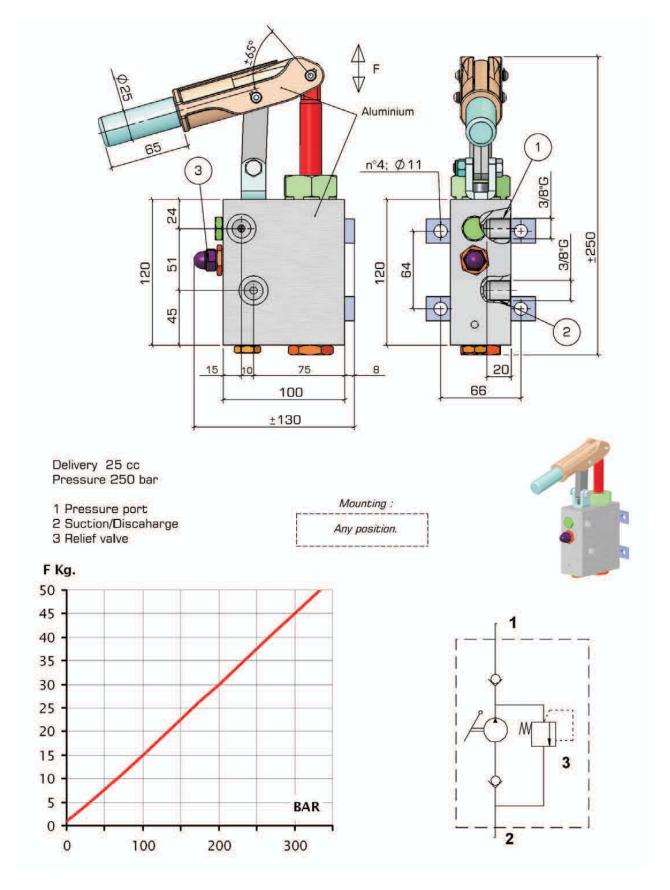


Mounting:

Any position take care of good suction

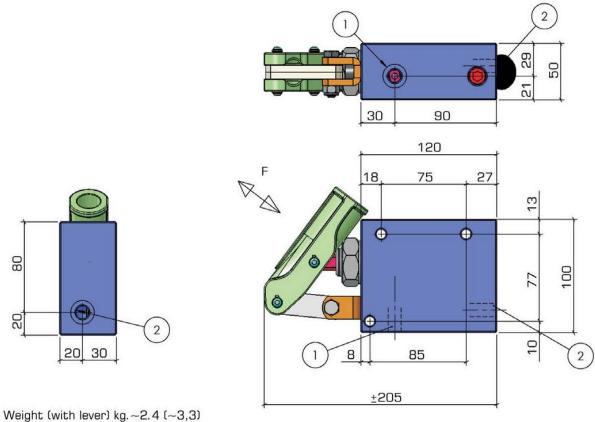


Hydraulic Hand Pump Type GL 303 ALLDouble stroke function with relief valve for single acting cylinder



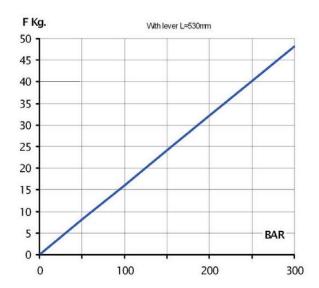


Hydraulic Hand Pump Type GL 315 Double stroke function for single acting cylinder

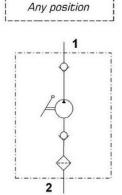


1 Pressure Port 1/4"G 2 Suction 1/4"G -

TYPE	DELIVERY cm ³	PRESSURE Bar
GL315	17	280



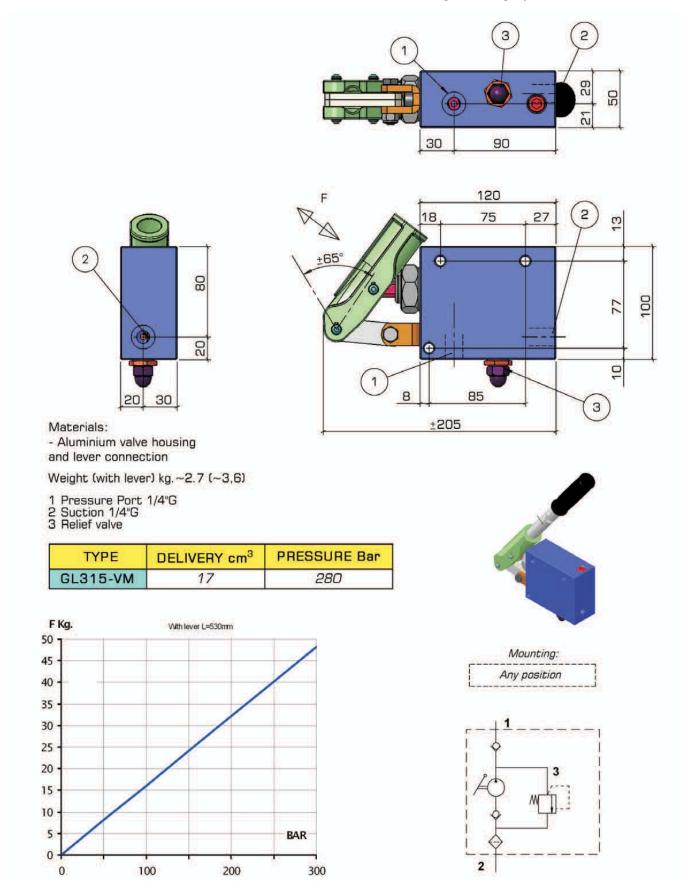




Mounting:



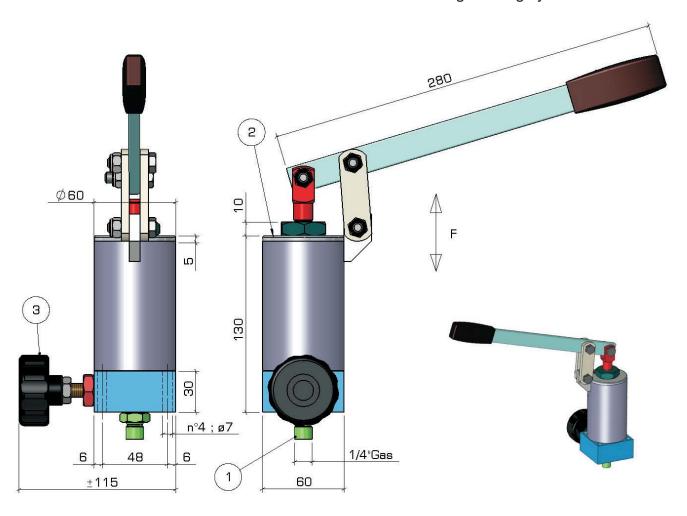
Hydraulic Hand Pump Type GL 315-VM Double stroke function with relief valve for single acting cylinder



Dimensions and characteristics not binding. Modifications reserved without prior notice.

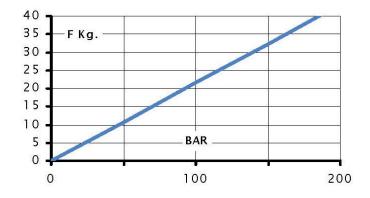


Hydraulic Hand Pump Type GL 12 N Double stroke function with release handknob for single acting cylinder

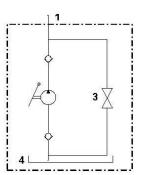


Weight kg. 1,7 Pressure Bar 180 Delivery Cc 2,8

- 1 Pressure Port 2 Filler Plug 3 Release Handknob 4 Tank L. 0,08

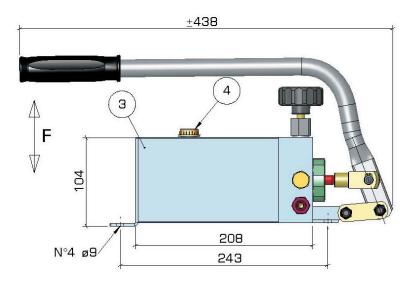


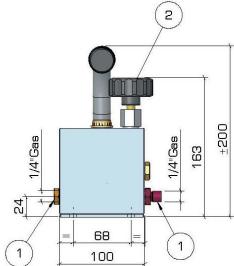






Hydraulic Hand Pump Type GLDE 7 Double stroke function with release handknob for single acting cylinder

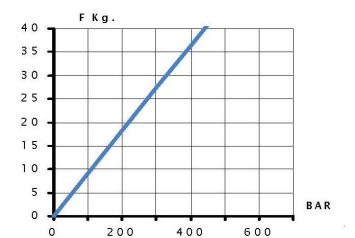




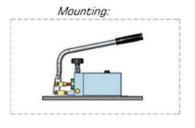
Weight (without Oil) kg. ~7

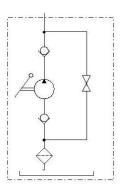
Delivery cc 7 Pressure Bar 400

- 1 Pressure Port 2 Release Handknob 3 Tank L. 1,5 4 Filler Plug



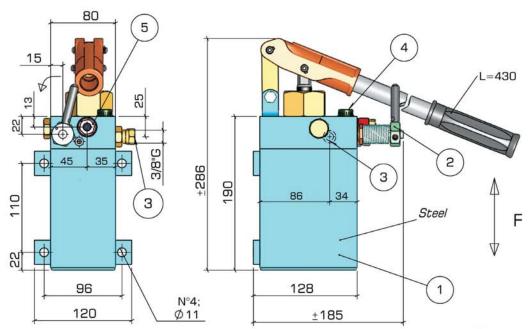








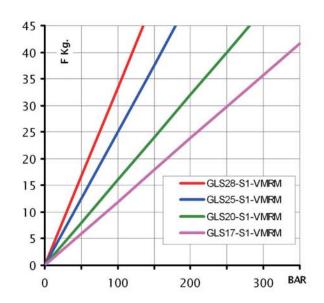
Hydraulic Hand Pump Type GLS....-S1-VMRM Double stroke function with release handknob and relief valve for single acting cylinder

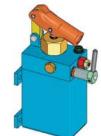


Weight kg.~7

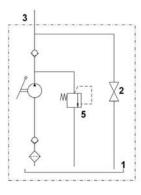
- 1 Tank L. 1 2 Release Handknob (normally closed)
- 3 Pressure Port
- 4 Filler Plug
- 5 Pressure relief setting

TYPE	DELIVERY CC	PRESSURE Bar
GLS17-S1-VMRM	11	350
GLS20-S1-VMRM	16	250
GLS25-S1-VMRM	25	150
GLS28-S1-VMRM	32	130



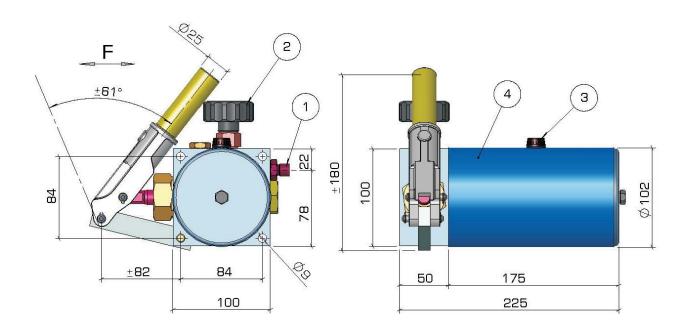


Working Position:





Hydraulic Hand Pump Type GL 170 M Double stroke function with release handknob and relief valve for single acting cylinder



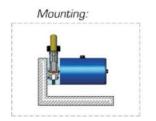
Materials:

- -Aluminium pump head
- -Steel tank

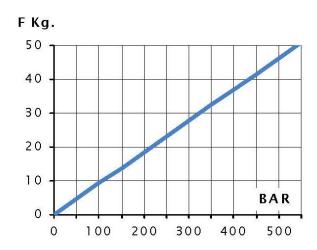
Weight kg 5,0

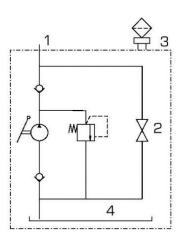
Pressure 500 Bar Delivery 14 Cc

- 1 Pressure port 1/4"G
- 2 Release handknob
- 3 Filler plug 4 Tank 1L



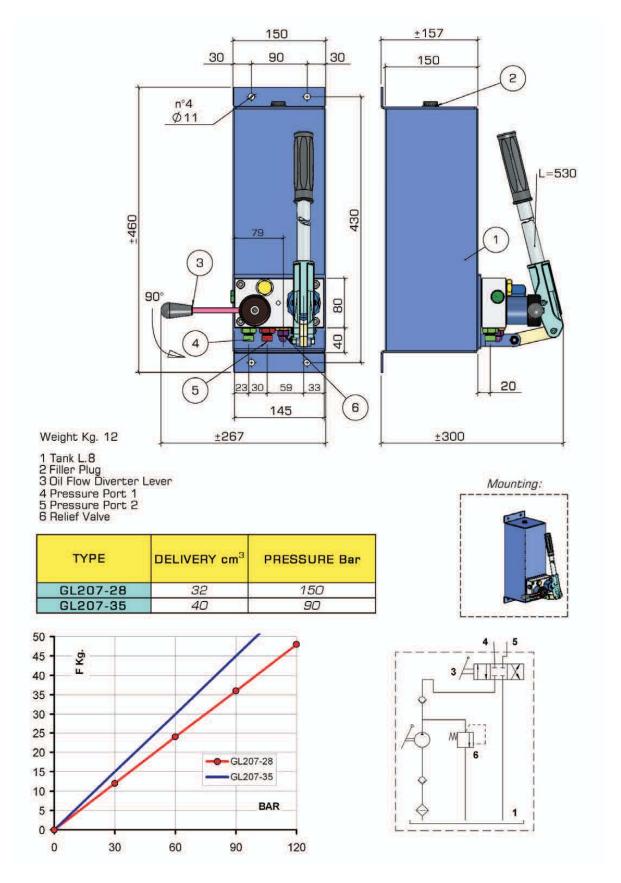








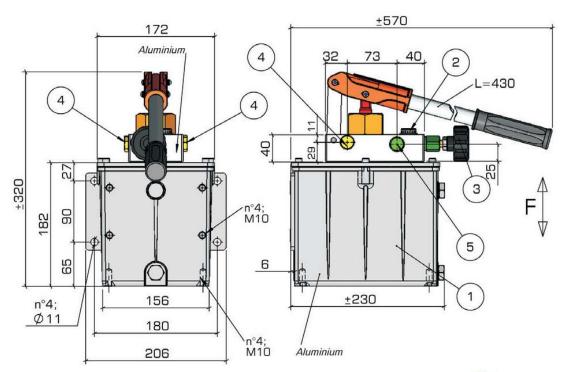
Hydraulic Hand Pump Type GL 207 Double stroke function with flow diverter and relief valve for double acting cylinder



Dimensions and characteristics not binding. Modifications reserved without prior notice.

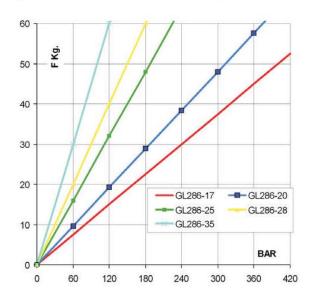


Hydraulic Hand Pump Type GL 286 Double stroke function with flow diverter for differential double acting cylinder

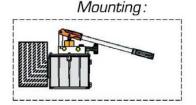


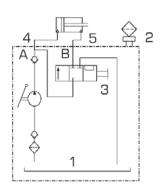
- 1 Tank L 4 2 Filler Plug 3 Flow Diverter handknob 4 n°2 Pressure Ports 1(1/4"G) 5 n°2 Pressure Ports 2(1/4"G)

TYPE	DELIVERY cm ³	PRESSURE Bar
GL286-17	11	380
GL286-20	16	280
GL286-25	25	180
GL286-28	32	150
GL286-35	40	100



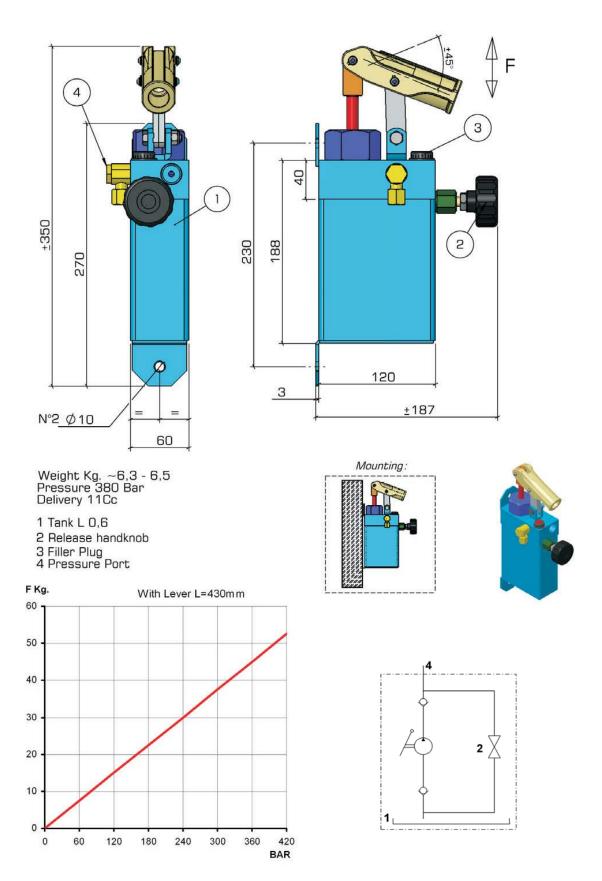






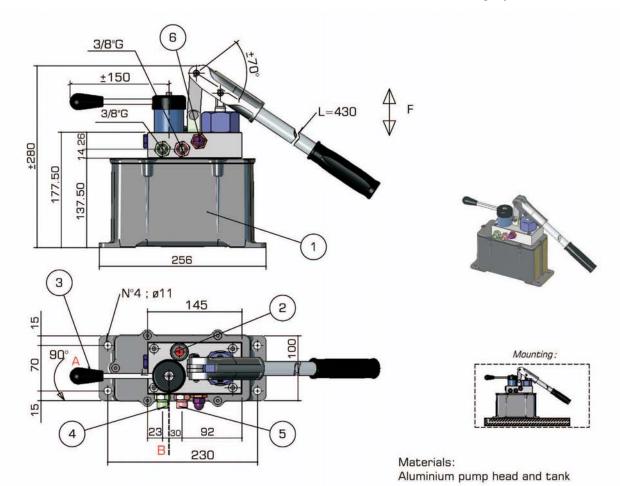


Hydraulic Hand Pump Type GL 289 Double stroke function with release handknob for single acting cylinder





Hydraulic Hand Pump Type GL 290 Double stroke function with flow diverter for double acting cylinder

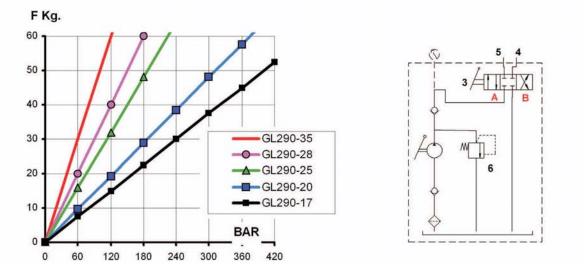


Weight (without oil) Kg. ~6-6,5

- 1 Tank L 2,2 2 Filler Plug 3 Oil Flow Diverter Lever

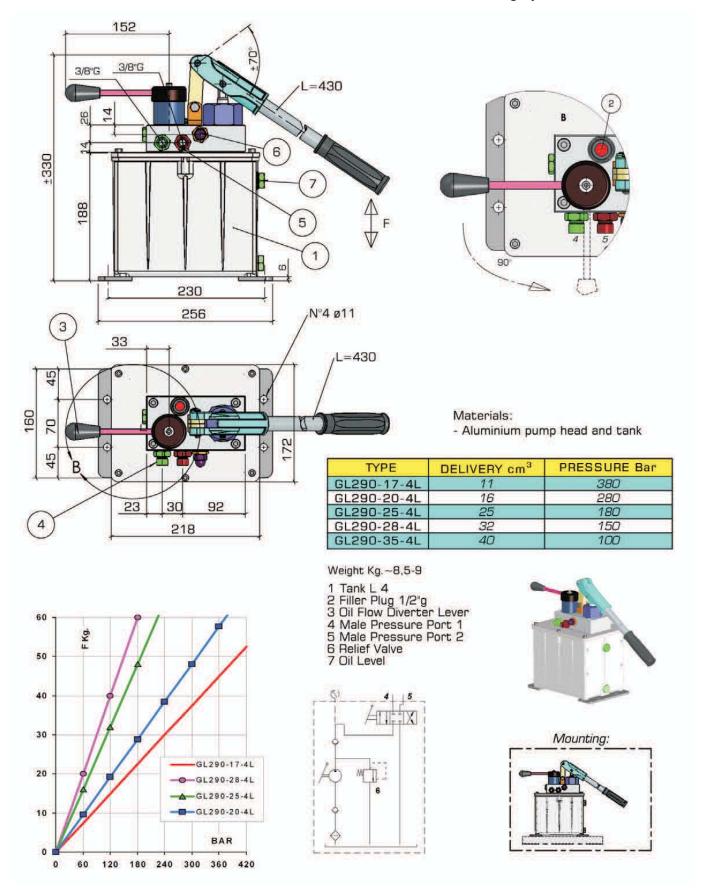
- 4 Pressure Port 1 5 Pressure Port 2 6 Relief valve setting

TYPE	DELIVERY cm ³	PRESSURE Bar
GL290-17	11	380
GL290-20	16	280
GL290-25	25	180
GL290-28	32	150
GL290-35	40	100





Hydraulic Hand Pump Type GL 290 4L Double stroke function with flow diverter for double acting cylinder

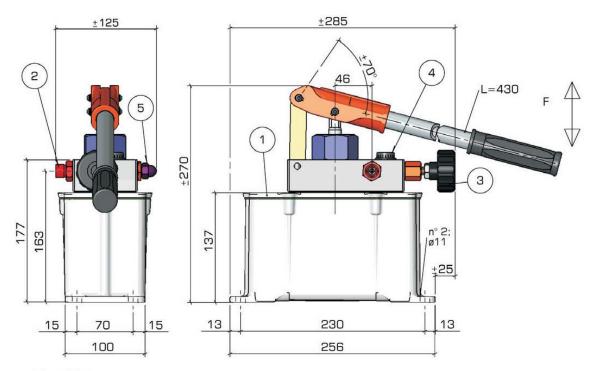


Dimensions and characteristics not binding. Modifications reserved without prior notice.



Hydraulic Hand Pump Type GL 292

Double stroke function with relief valve and release handknob for single acting cylinder



Materials:

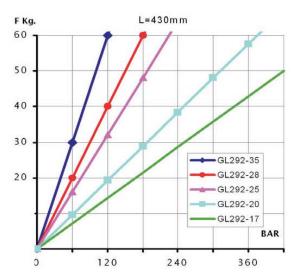
- Alluminium pump head and tank

Weight (without oil) Kg. 5.8-6.3

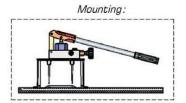
- 1 Tank L 2.2 2 Pressure Port 3/8"G 2 Pressure Port 3/6 3 Release Handknob 4 Filler Plug

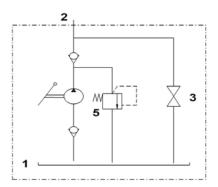
- 5 Relief valve Setting

TYPE	DELIVERY cc	PRESSURE Bar
GL292-17	11	380
GL292-20	16	280
GL292-25	25	180
GL292-28	32	150
GL292-35	40	100





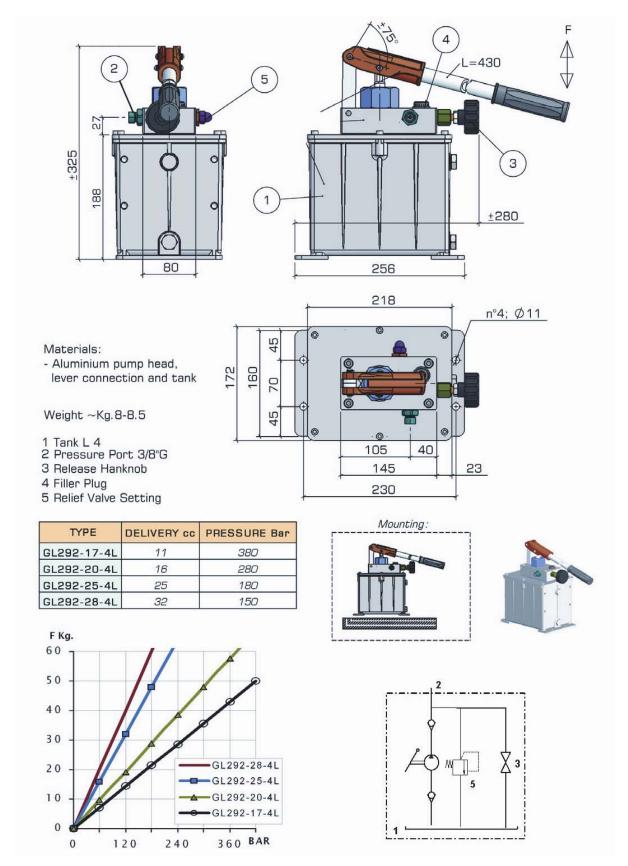




Dimensions and characteristics not binding. Modifications reserved without prior notice.



Hydraulic Hand Pump Type GL 292 4L Double stroke function with relief valve and release handknob for single acting cylinder

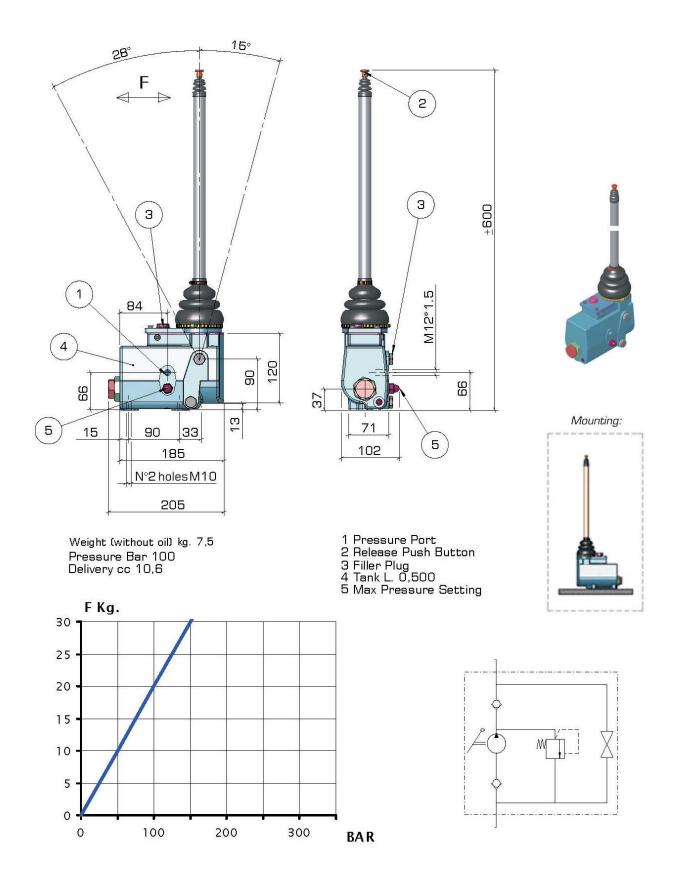


Dimensions and characteristics not binding. Modifications reserved without prior notice.



Hydraulic Hand Pump Type PM 22

Double stroke function with relief valve and release push-button for single acting cylinder

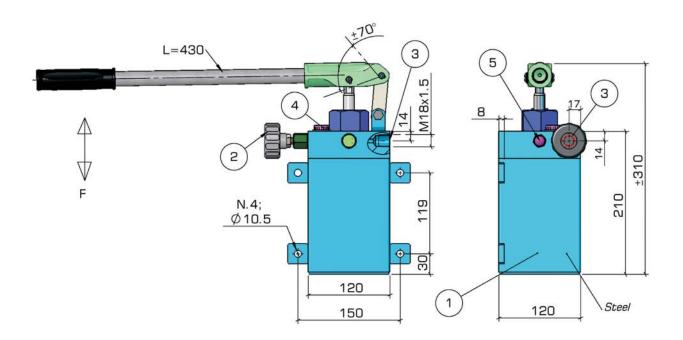


Dimensions and characteristics not binding. Modifications reserved without prior notice.



Hydraulic Hand Pump Type PMS 31

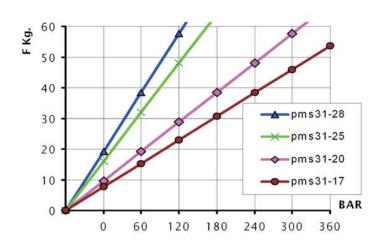
Double stroke function with relief valve and release handknob for single acting cylinder

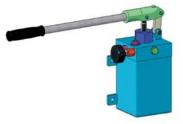


Weight ~kg. 10

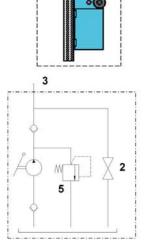
- 1 Tank L. 1,6 2 Release Handknob 3 Pressure Port
- 4 Filler Plug
- 5 Relief valve Setting

TYPE	DELIVERY cm ³	PRESSURE Bar
PMS31-17	11	380
PMS31-20	16	280
PMS31-25	25	180
PMS31-28	32	150



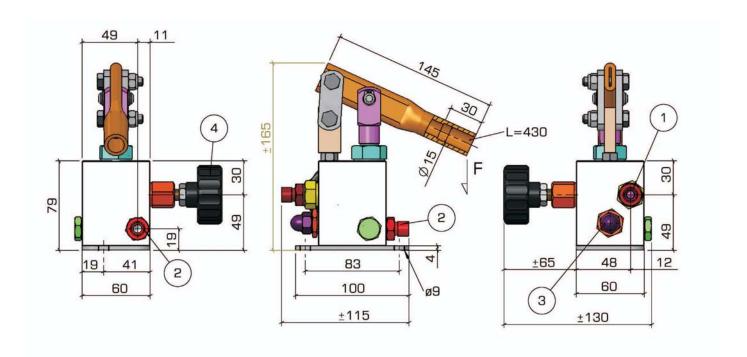


Mounting:





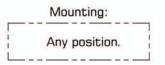
Hydraulic Hand Pump Type GL 16 ALL Single acting function with relief valve and release handknob for single acting cylinder

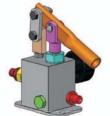


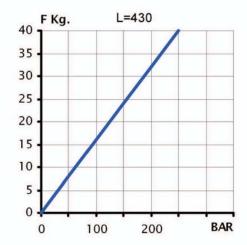
Weight: ~kg. 1.7 Pressure: Bar 250 Delivery: Cc ~5,5 Alluminium Body

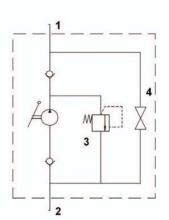
1 Pressure Port 1/4"G 2 Suction 1/4"G 2 Suction 1/4"G 3 Relief valve Setting

4 Release Handknob



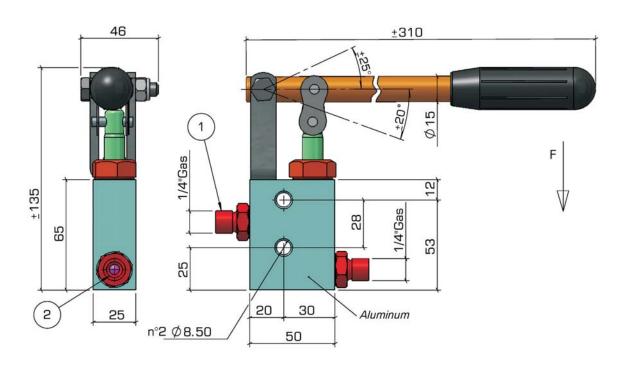






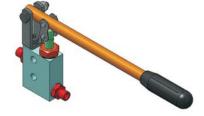


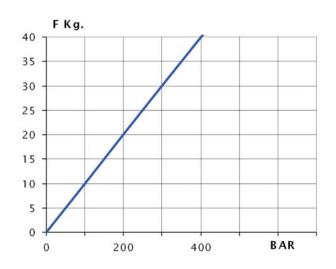
Hydraulic Hand Pump Type GL 111 M Single acting function for single acting cylinder

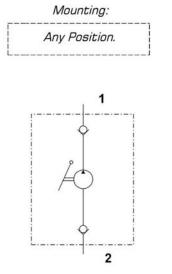


Weight kg. ~1,0 Delivery cc 2,5 Pressure 400 Bar

1 Pressure Port 2 Suction

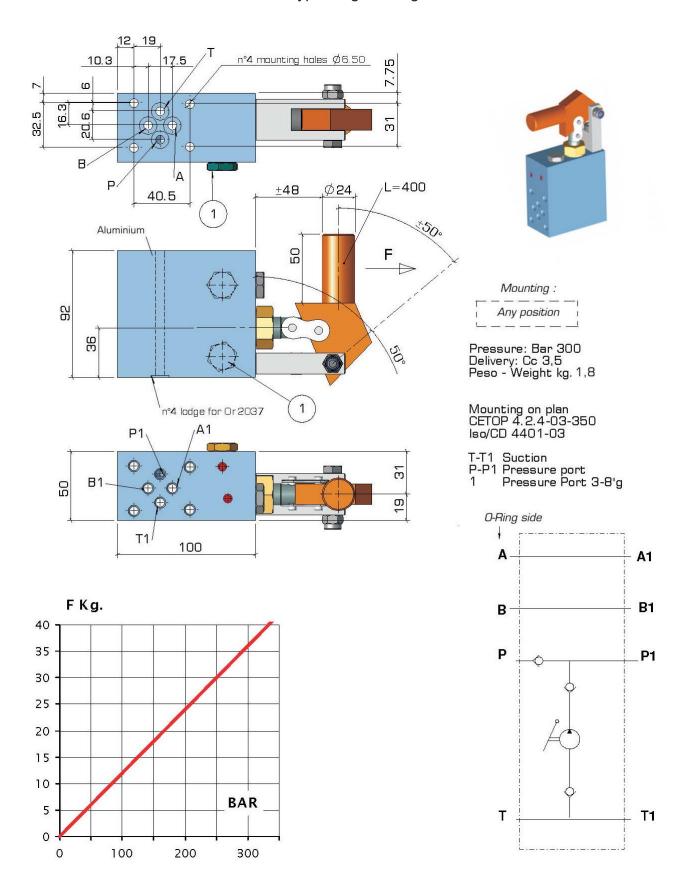






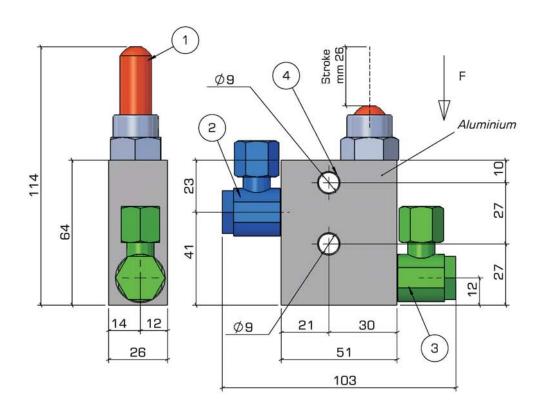


Hydraulic Hand Pump Type GL 186 M Sandwich type Single acting function



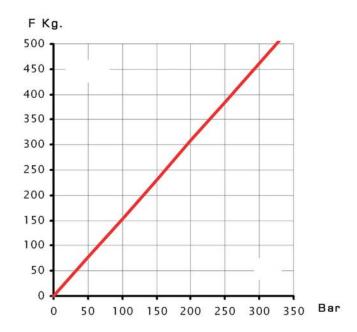


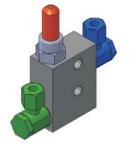
Hydraulic Hand Pump Type GL 246 Single acting function for single acting cylinder



Weight ~0,4 Kg Delivery ~4Cc Pressure 200Bar Stroke 26mm

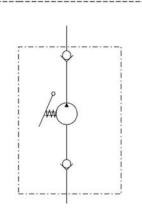
- 1 Piston
- 2 Pressure port (1/4"swivel for ø8 pipe) 3 Suction(1/4"swivel for ø8 pipe)
- 4 Mounting Holes





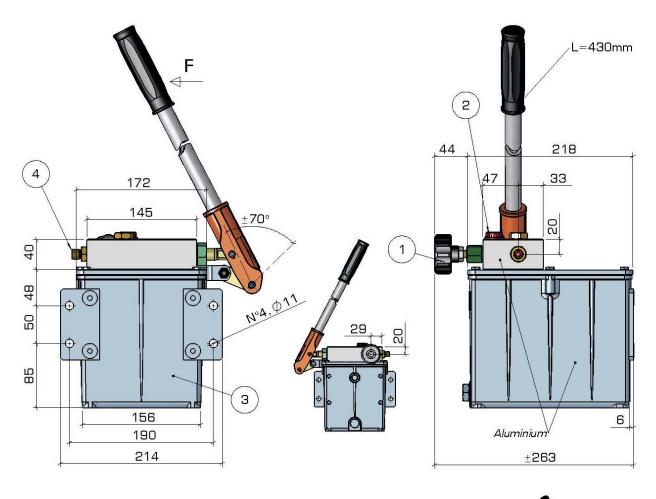
Mounting:

Any position.



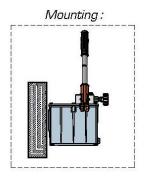


Hydraulic Hand Pump Type GLSE 16 AL Single acting function for single acting cylinder

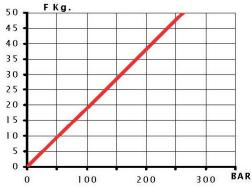


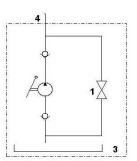
Weight Kg. ~7.5 Delivery cc 11 Pressure 250 Bar

- 1 Release H 2 Filler Plug 3 Tank 3L. Release Handknob
- 4 Pressure Port 1/4"g



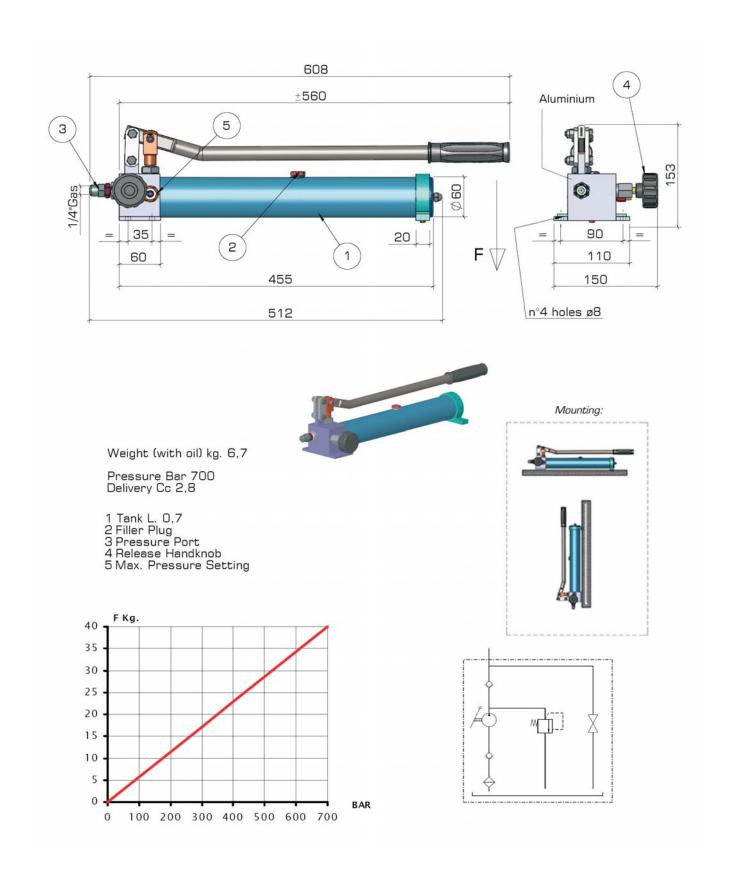






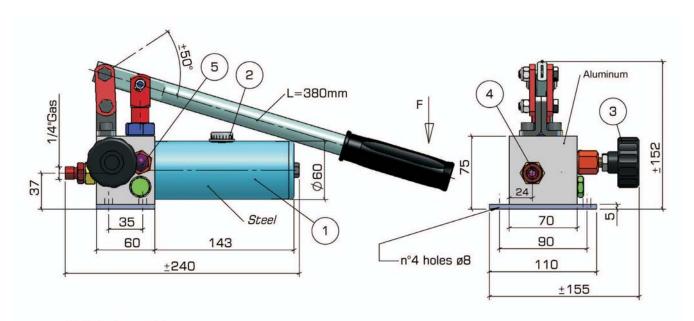


Hydraulic Hand Pump Type GL 1V AL Single acting function with relief valve and release handknob for single acting cylinder





Hydraulic Hand Pump Type GL 12 DAL Single acting function with relief valve and release handknob for single acting cylinder

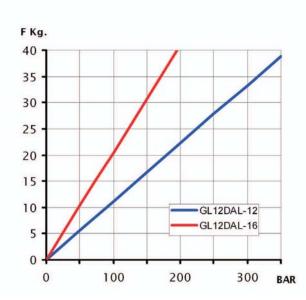


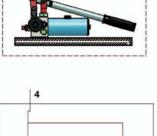
Weight kg. ~3.0

- 1 Tank L. 0,350 2 Filler Plug 3 Release Handknob
- 4 Pressure Port
- 5 Pressure relief Valve

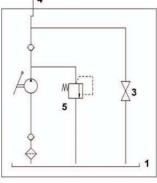


Туре	Pressure Bar	Delivery Cc
GL12DAL-12	370	2,8
GL12DAL-16	200	4,8



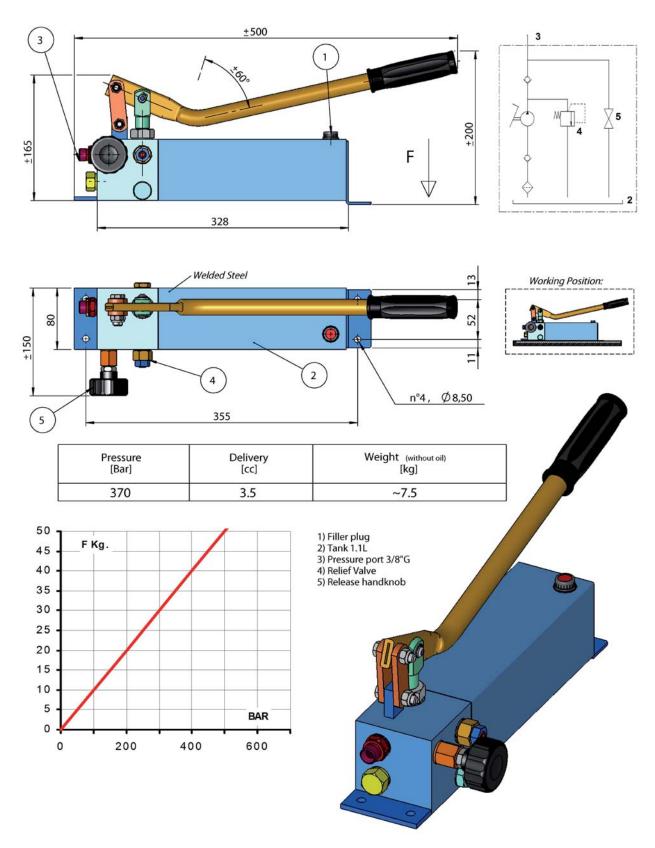


Working Position:



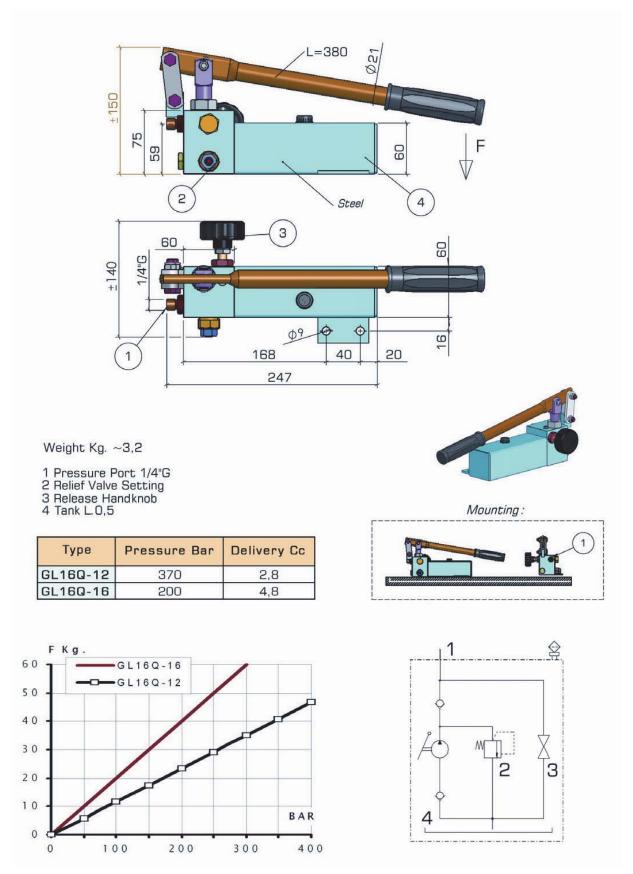


Hydraulic Hand Pump Type GL 12 1M Single acting function with relief valve and release handknob for single acting cylinder





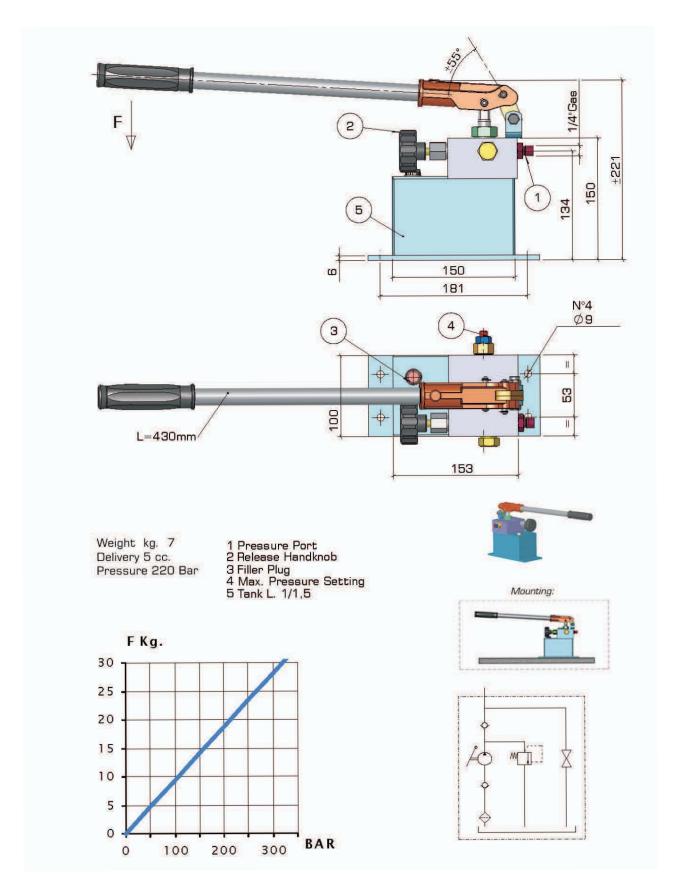
Hydraulic Hand Pump Type GL 16 Q Single acting function with relief valve and release handknob for single acting cylinder



Dimensions and characteristics not binding. Modifications reserved without prior notice.

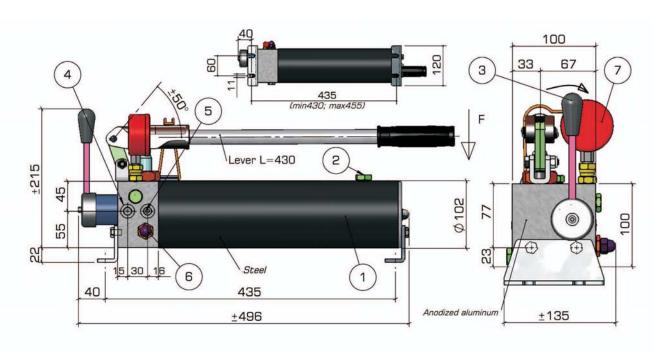


Hydraulic Hand Pump Type GL 113 M Single acting function with relief valve and release handknob for single acting cylinder





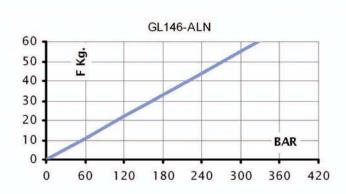
Hydraulic Hand Pump Type GL 146-ALN Single acting function with relief valve and flow diverter for double acting cylinder



- 1 Tank L.~2.1 2 Filler Plug 3 Fluid flow inversion lever o -4 Pressure port 1 (1/4"G female) 5 Pressure port 2 (1/4"G female)

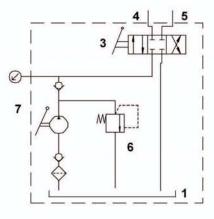
- 6 Pressure relief valve 7 Pressure Gauge (on request)

Weight Kg	Delivery cc	Pressure Bar
~9.0	12.5	150





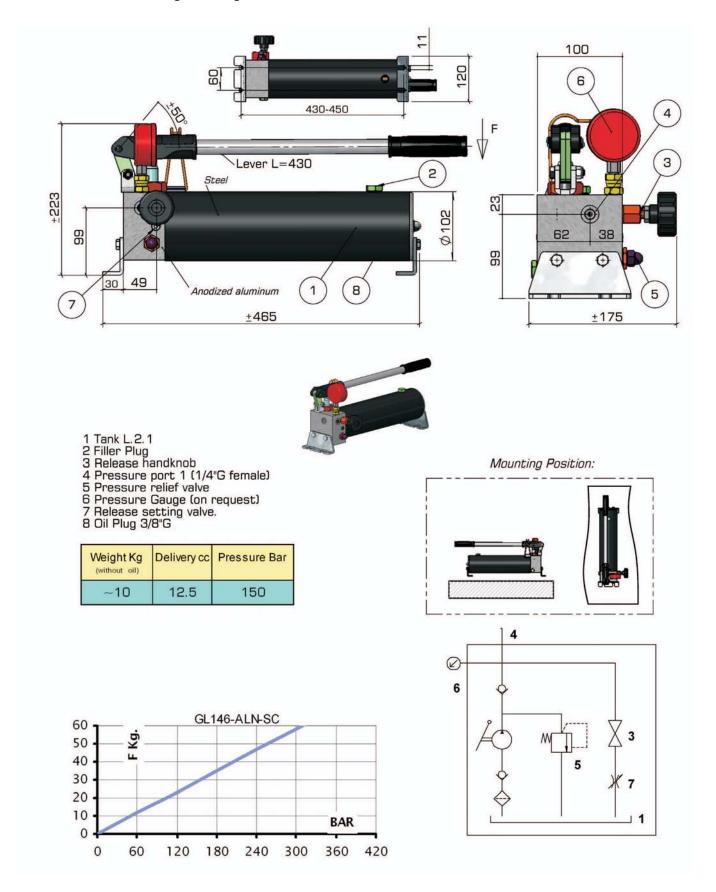
Mounting Position:



Dimensions and characteristics not binding. Modifications reserved without prior notice.

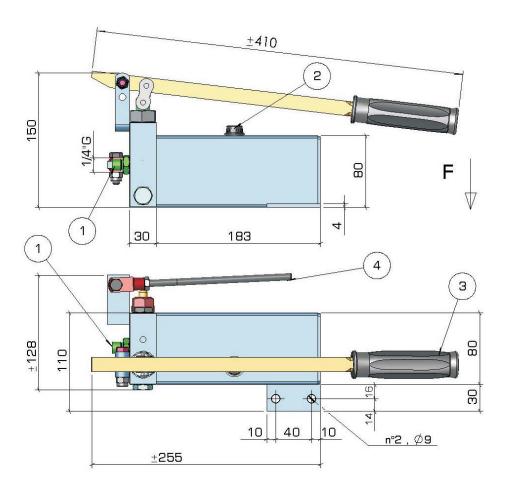


Hydraulic Hand Pump Type GL 146-ALN-SC Single acting function with relief valve and release handknob



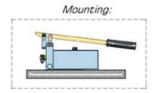


Hydraulic Hand Pump Type GL 226 Single acting function with release lever for single acting cylinder

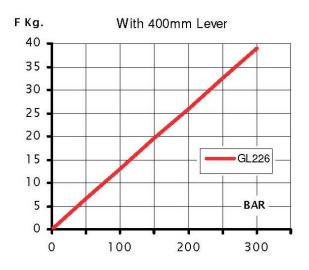


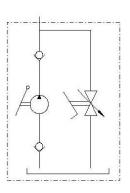
Weight ~ 4,5Kg Delivery 5Cc Pressure 200Bar

- 1 Pressure port 2 Filler plug
- 3 Action lever
- 4 Release lever



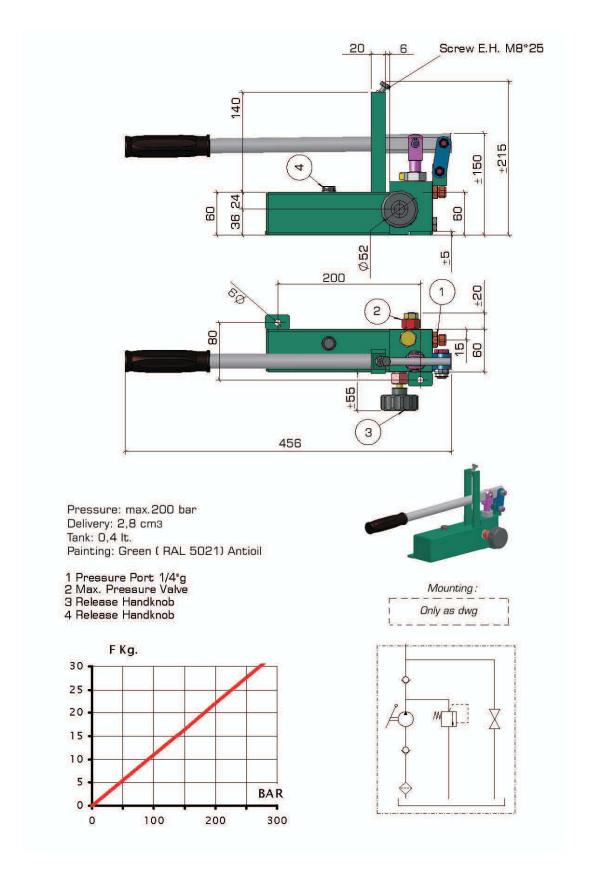






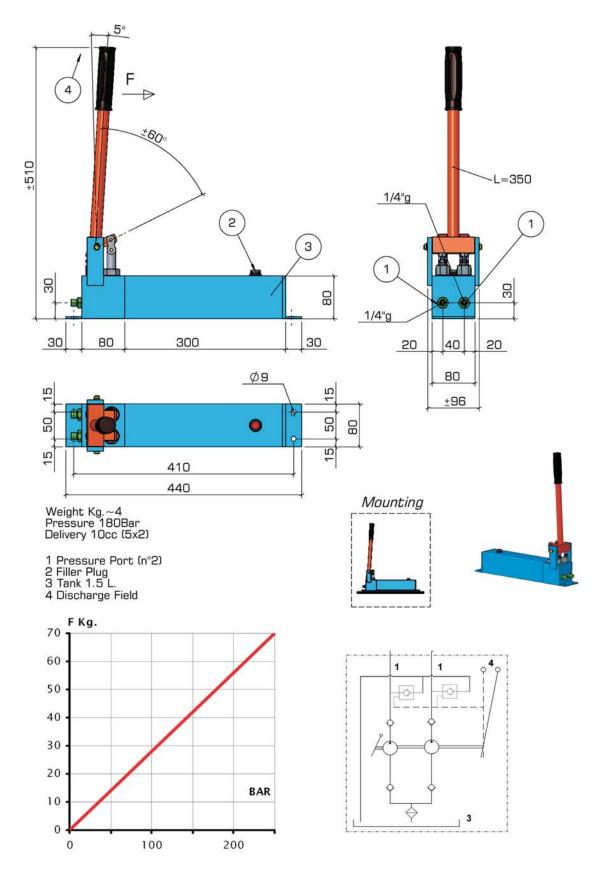


Hydraulic Hand Pump Type GL 236
Single acting function with relief valve and release handknob for single acting cylinder



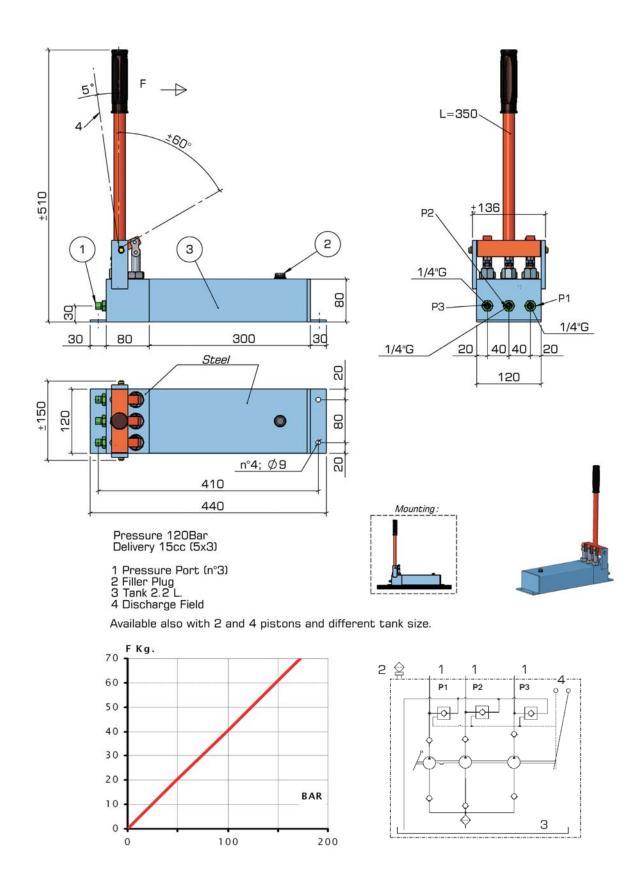


Hydraulic Hand Pump Type GL 105-M2 Single acting function multiple piston pump (two pistons) for single acting cylinder



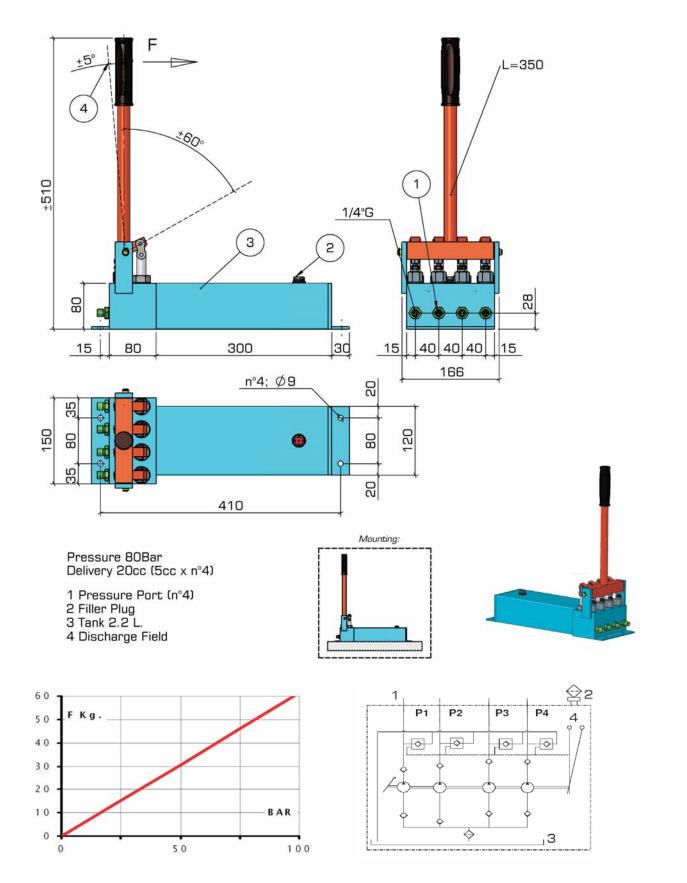


Hydraulic Hand Pump Type GL 105-M3 Single acting function multiple piston pump (three pistons) for single acting cylinder



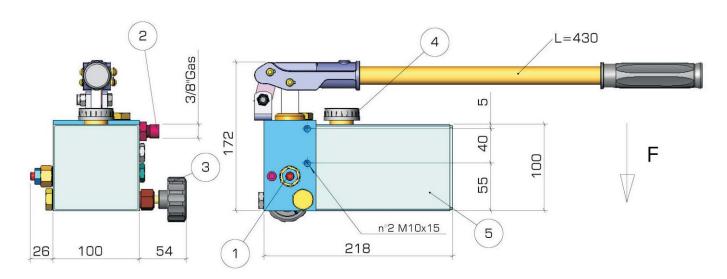


Hydraulic Hand Pump Type GL 105-M4 Single acting function multiple piston pump (four pistons) for single acting cylinder



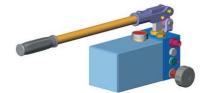


Hydraulic Hand Pump Type GL 2P-RV15Two speed single acting function pump for single acting cylinder

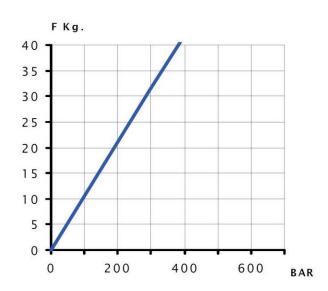


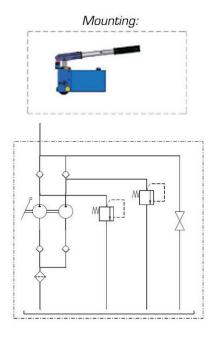
Weight (without oil) kg. 8,2

- 1 Max. Pressure Setting
- 2 Pressure Port
- 3 Release Handknob
- 4 Filler Plug
- 5 Tank L. 1,1



TYPE	DELIVERY cc	PRESSURE Bar
1° Speed	24	30
2° Speed	3,8	400

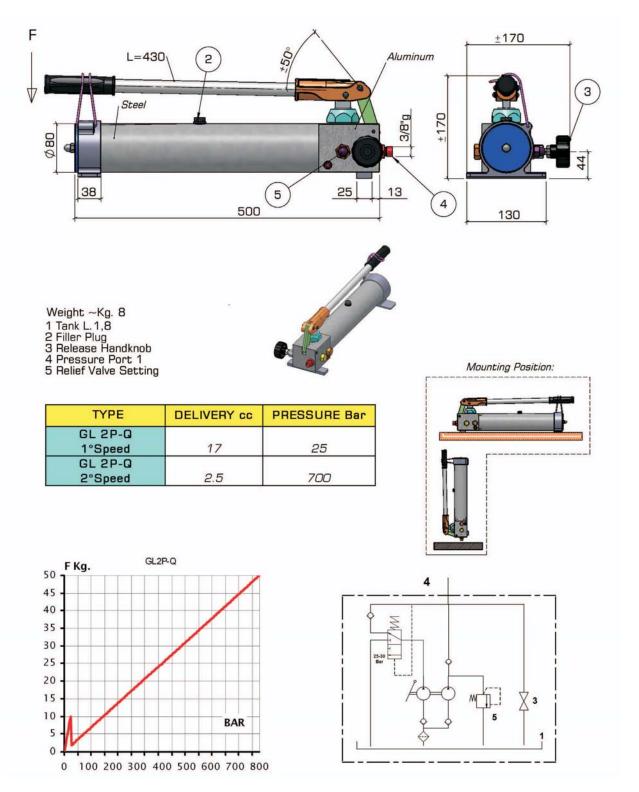






Hydraulic Hand Pump Type GL 2P-Q

Two speed single acting function pump for single acting cylinder

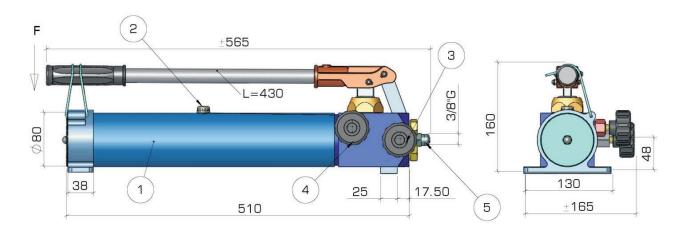


The GL 2P-Q, is particularly suitable for applications with need of 2 piston speeds for pumping. The first speed, gives fast cylinder advancement while with the second speed, the cylinder advancement is very slow but with extremely high pressure however small pumping force.

The switch-over from the first to second speed is automatic. This pump is further equipped with special poppet style valves, made in special treated and hardened steel, wich exclude any drain. Pressure up to 700 bar.



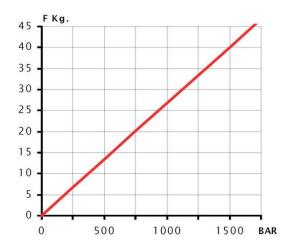
Hydraulic Hand Pump Type GL 2P-Q 150Two speed single acting function pump for single acting cylinder



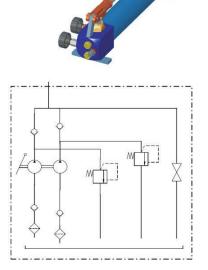
Weight (with oil) kg. ~12

- 1 Tank L.1,8 2 Filler Plug 3 Release Handknob 4 1°Speed Exclusion Handknob
- 5 Pressure Port

TYPE	DELIVERY CC	PRESSURE Bar
GL 2P/Q 150 1°Speed	17	30
GL 2P/Q 150 2°Speed	1	1500







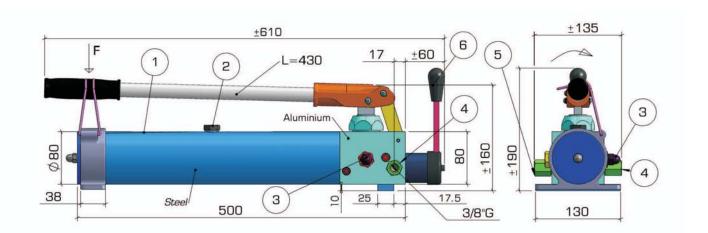
The GL 2P-Q 150, is similar to the model GL 2P-Q but without automatic switching of speeds. The switch-over is obtained by a manual handwheel.

This is a special pump of remarkable oil flow for pressure up to 1500 bar.



Hydraulic Hand Pump Type GL 2P-Q+4VN

Two speed single acting function pump with flow diverter for double acting cylinder



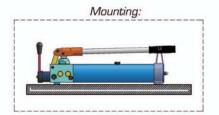
Weight (with oil) kg. ~10

- 1 Tank L.1,8 2 Filler Plug 3 Relief Valve Setting ione -4 Pressure Port 1 (3/8"G female) 5 Pressure Port 2 (3/8"G female)
- 6 Oil Flow Diverter Lever
- 7 Pressure Gauge Plug 1/4"G (on request)

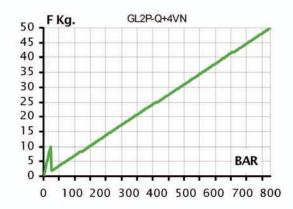
On request, the pump is supplied complete with pressure gauge.

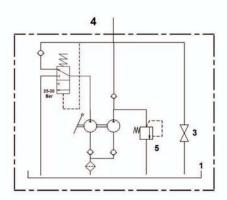


TYPE	DELIVERY cc	PRESSURE Bar
GL2P-Q+4VN 1°Speed	17	25
GL2P-Q+4VN 2°Speed	2.5	700



The GL2P-Q+4VN, is particulary suitable for applications with need of 2 piston speeds for pumping. The first speed gives fast cylinder advancement while with the second speed, the cylinder advancement is very slow but with extremely high pressures however small pumping forces. The switch-over from first to second speed, is automatic. This pump is further equipped with special poppet style valves, made of special treated and hardened steel, which exclude any drain. Pressures up to 700 bar.

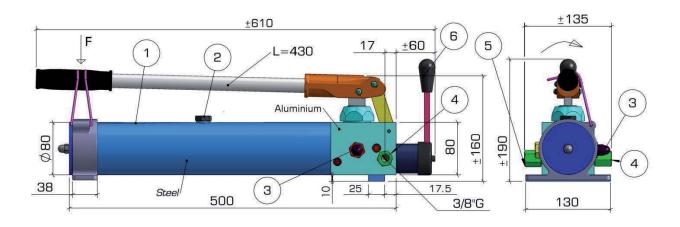






Hydraulic Hand Pump Type GL 2P-Q+4VN-VB

Two speed single acting function pump with flow diverter and check valves for double acting cylinder



On request, the pump is supplied complete

with pressure gauge.

Weight (with oil) kg. ~10

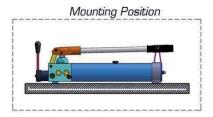
1 Tank L.1,8 2 Filler Plug 3 Relief Valve Setting ione -4 Pressure Port 1 (3/8"G female) 5 Pressure Port 2 (3/8"G female)

6 Oil Flow Diverter Lever 7 Pressure Gauge Plug 1/4"G (on request)

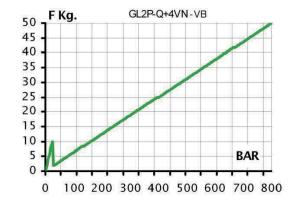
8 Check valves

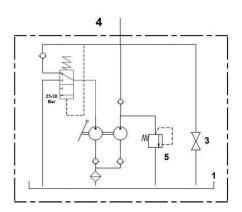
TYPE	DELIVERY cc	PRESSURE Bar
GL2P-Q+4VN-VB 1°Speed	17	25
GL2P-Q+4VN-VB 2°Speed	2.5	700





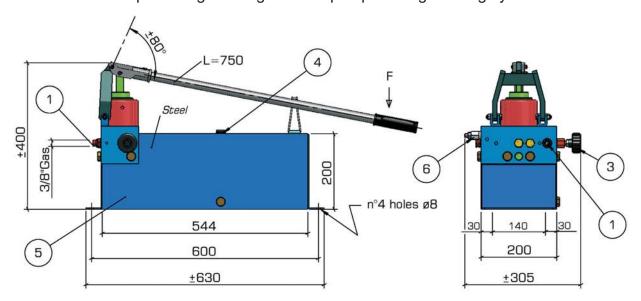
The GL2P-Q+4VN-VB, is particulary suitable for applications with need of 2 piston speeds for pumping. The first speed gives fast cylinder advancement while with the second speed, the cylinder advancement is very slow but with extremely high pressures however small pumping forces. The switch-over from first to second speed, is automatic. This pump is further equipped with special poppet style valves, made of special treated and hardened steel, which exclude any drain. Pressures up to 700 bar.







Hydraulic Hand Pump Type GL 2P 70-12 Two speed single acting function pump for single acting cylinder



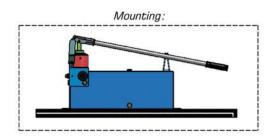
Weight (without oil) kg. ~34

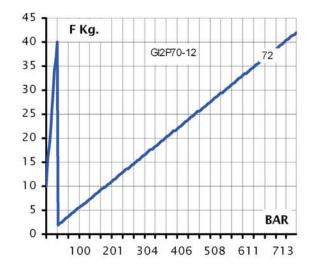
- 1 Pressure Port
- 3 Release Handknob

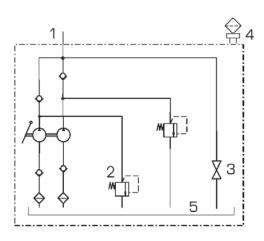
- 4 Filler Plug
 5 Tank L.18
 6 Relief Valve Setting

TYPE	DELIVERY cc	PRESSURE Bar
1° Speed	133	~20
2° Speed	4	700





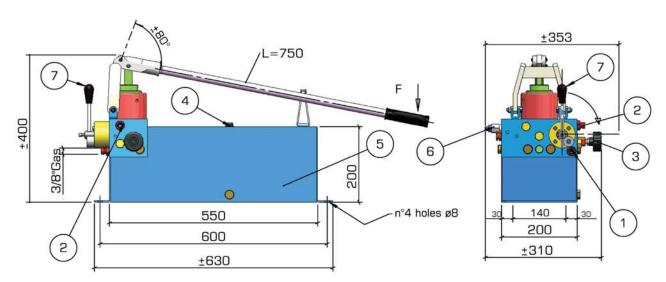




Dimensions and characteristics not binding. Modifications reserved without prior notice.



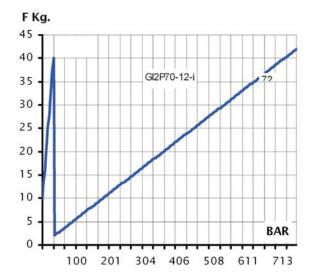
Hydraulic Hand Pump Type GL 2P 70-12-I Two speed single acting function pump with flow diverter for double acting cylinder



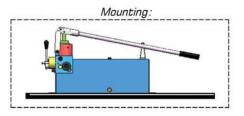
Weight (without oil) kg. ~35

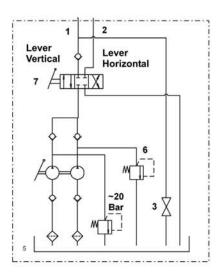
- 1 Pressure Port 1 (3/8"G) 2 Pressure Port 2 (3/8"G) 3 Release Handknob (on pressure port 1)
- 4 Filler Plug 5 Tank L. 18
- 6 Relief valve Setting 7 Oil Flow Diverter Lever

TYPE	DELIVERY cc	PRESSURE Bar	
1° Speed	133	~20	
2° Speed	4	700	



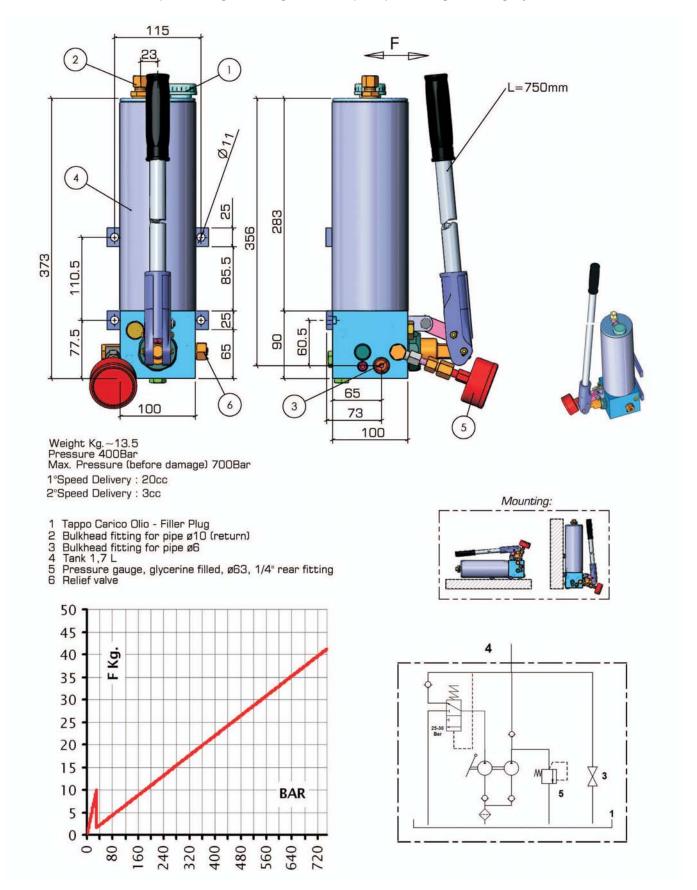








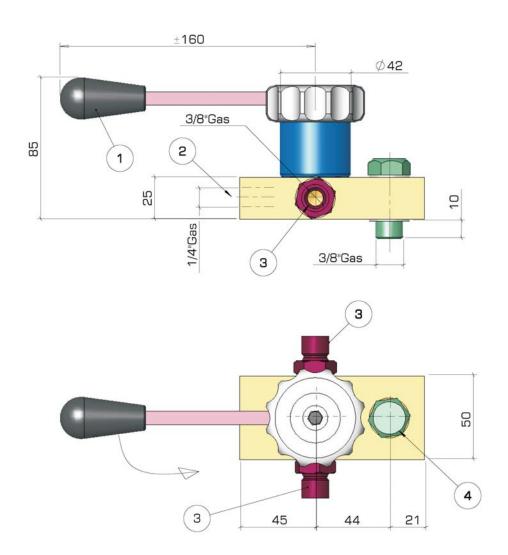
Hydraulic Hand Pump Type GL 241 F3 Two speed single acting function pump for single acting cylinder



Dimensions and characteristics not binding. Modifications reserved without prior notice.

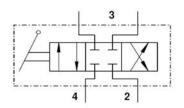


Four Way Diverter Valve Type GL4VN



Weight Kg. ~1,7

- 1 Flow Diverter Lever 2 Oil Discharge 3 Pressure Port 4 Oil Inlet

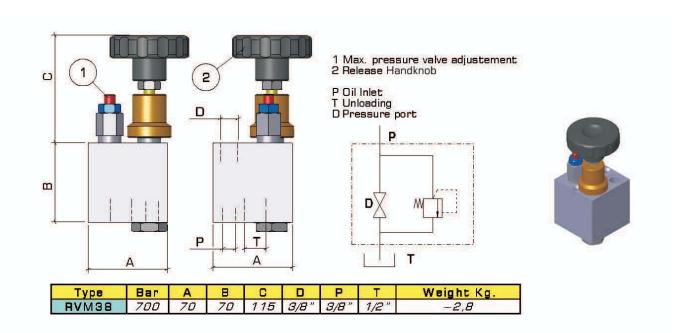




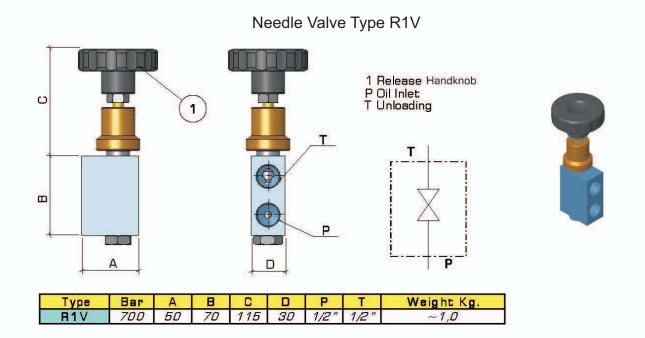
 $\mbox{\ensuremath{4-Way-diverter}}$ valve for the control of double acting cylinders; with modifications also avaible for nearly all other pump models.



Relief+Throttle Valve Type RVM



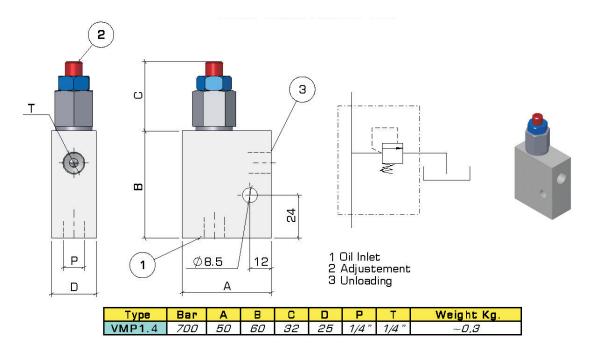
APPLICATIONS: Thanks to the reduced dimensions, this valve is specially suitable for installation on power-packs. FEATURES: Made in steel; easy installation; machining on most advanced facilities; easy maintenance. Combination of ball valve series "R1V" and relief valve series "VMP" maintaining the same characteristics of those.



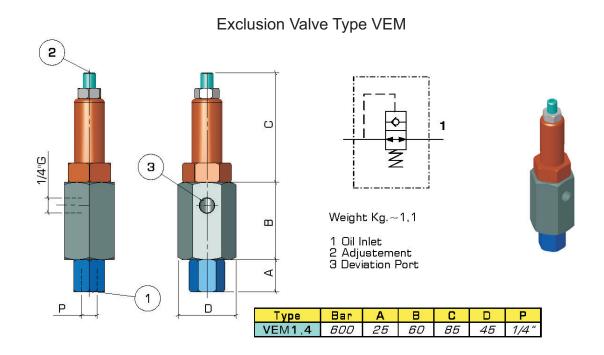
APPLICATIONS: in hydraulic circuit with necessity of rapid pressure unloading by connecting the pressure line to the tank during passages from one operation to another, or to shut down or feed in rapidly oil into the circuit. FEATURES: Made in steel by using most advanced manufacturing facilities, easy to maintenance; corrosion proof; perfectly closing without any drain at any pressure.



Pressure Relief Valve Type VMP



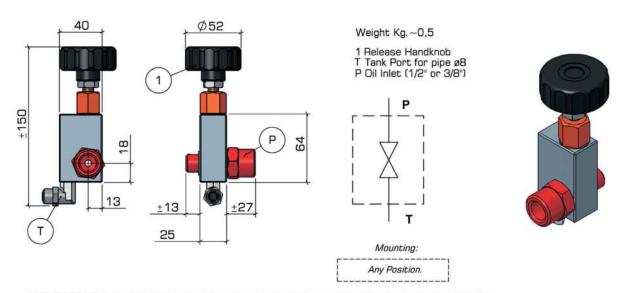
APPLICATIONS: The VMP valves avoid that peak-pressures can damage components of the hydraulic circuit (pumps, motors, gauges, etc.). FEATURES: Made in alluminium by using most advanced manufacturing facilities; easy maintenance; corrosion proof; adjustable for pressures between 5 and 700 Bar by acting on the setting spring.



APPLICATIONS: used in circuits which need the exclusion by means of interceptance of the oil-flow to specific components. FEATURES: made in steel by using most advanced manufacturing facilities, easy maintenance; no pressure drop. Setting of pressure is obtained by acting on the setting spring which, by means of a piston, comands a ball which excludes the oil-flow. In order to assure good function, it is essential that the oil is without contamination.

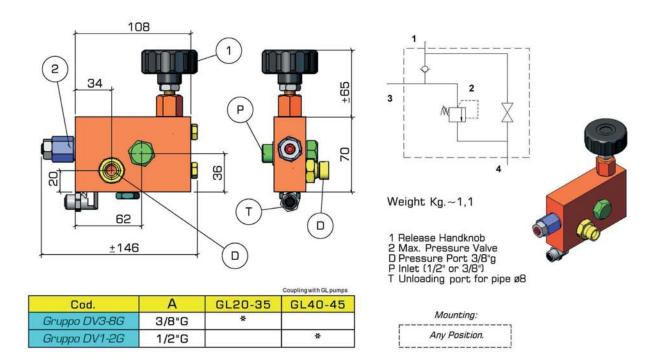


Needle Valve Type D



APPLICATIONS: in hydraulic circuit with necessity of rapid pressure unloading by connecting the pressure line to the tank. Avaiable on pumps type GL. FEATURES: Made in aluminium by using most advanced manufacturing facilities; easy to maintenance; corrosion proof.

Relief+Needle Valve Type DV



APPLICATIONS: in hydraulic circuit with necessity of rapid pressure unloading by connecting the pressure line to the tank and max. pressure setting. Avaiable on pumps type GL. FEATURES: Made in aluminium by using most advanced manufacturing facilities; easy to maintenance; corrosion proof.

As HANSA-TMP has a very extensive range of products and some products have a variety of applications, the information supplied may often only apply to specific situations. If the catalogue does not supply all the information required, please contact HANSA-TMP.

In order to provide a comprehensive reply to queries we may require specific data regarding the proposed application.

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