

GPMW Motorized Grease Pump

- Motorized volumetric type grease pumps with pressure displacement mechanism
- Simple to install and operate
- High performance unit discharging 10 cm³/min to 12cm³/min

Possessing a pressure displacement mechanism, the GPMW electronically operated volumetric type grease pumps, are designed for the single-line lubrication systems.

Depending upon the power specification chosen, the GPMW pump unit possesses a discharge rate of either 30cm³/min or 36cm³/min.

Various lubrication requirements can be covered by this unit with the ability to select; reservoir type, capacity size, various power options, and the option of a level switch to enable lubrication management from a distant location.



GPMW307C



GPMW300D



GPMW304D

MODEL CODE

GPMW 30 * * * *

Level Switch
 - : No Level Detecting
 L : Level Switch Option

Terminal Board
 : DC Motor No Terminal Board
 T : DC Motor with Terminal Board

Motor Power Code
 C : 1 Phase AC 100V 50/60Hz
 M : 1 Phase AC 110V 50/60Hz
 E : 3 Phase AC 200/200 · 220V 50/60Hz
 F : 1 Phase AC 200/200 · 220V 50/60Hz
 D : DC24V

Grease Capacity & Container Type
 3 : 300cm³ Grease Cup
 4 : 400cm³ Cartridge
 7 : 700cm³ Cartridge
 8 : 800cm³ Grease Cup
 0 : 1000cm³ Cartridge

Nominal Discharge Volume
 30 : 30cm³/min - 36cm³/min (50 - 60Hz)

Base Code

POWER SPECIFICATION

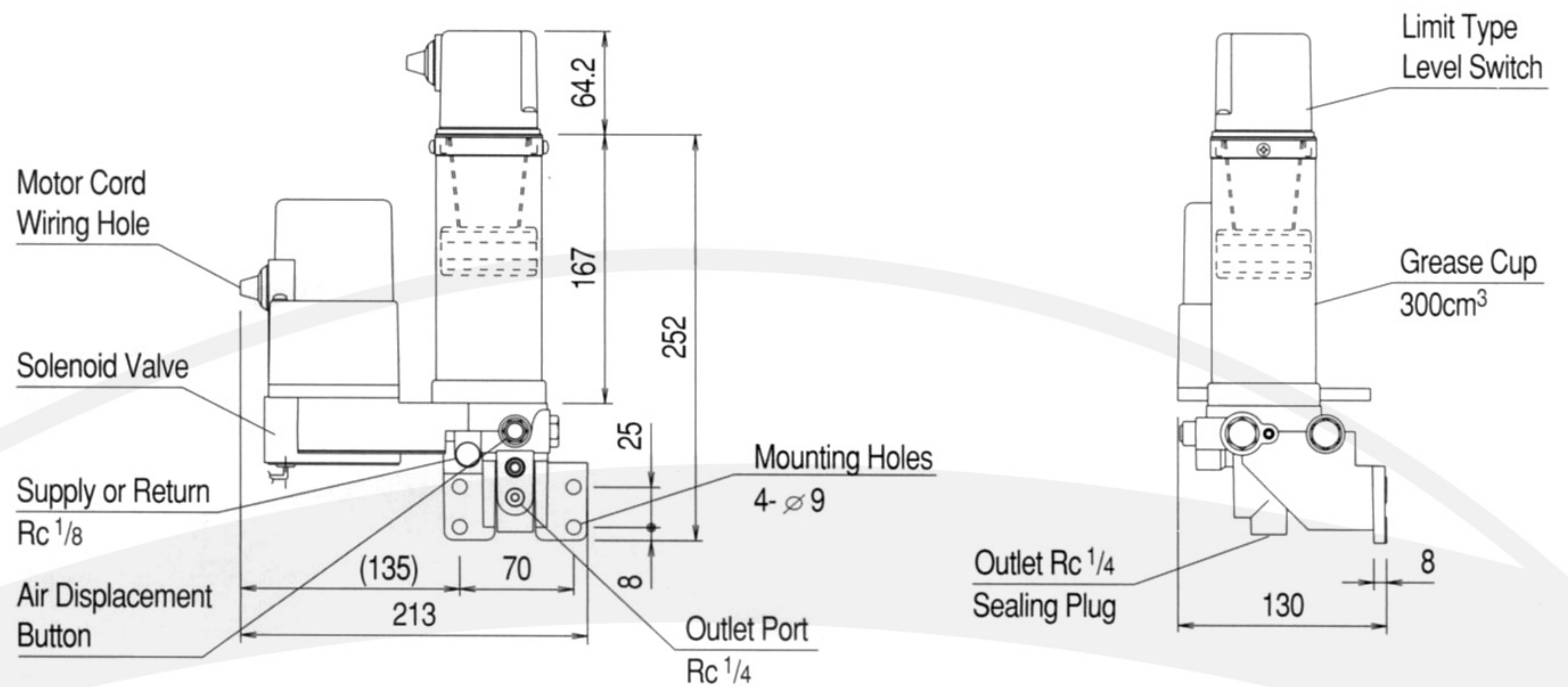
Power Code	C	M	E	F	D
Phase Motor	1	1	3	1	-
Voltage (V)	100	110	200 / 200·220	200 / 200·220	DC24
Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	-
* Tot. Current (A)	0.97	0.87	0.41 / 0.42	0.5	1.8
* Tot. Output (W)	52		55		42.2
Operation	Max. 3mins with resting time of 45mins +				

* Tot. Current & Tot. Output in the above table, shows the total values for the motor and solenoid valve.

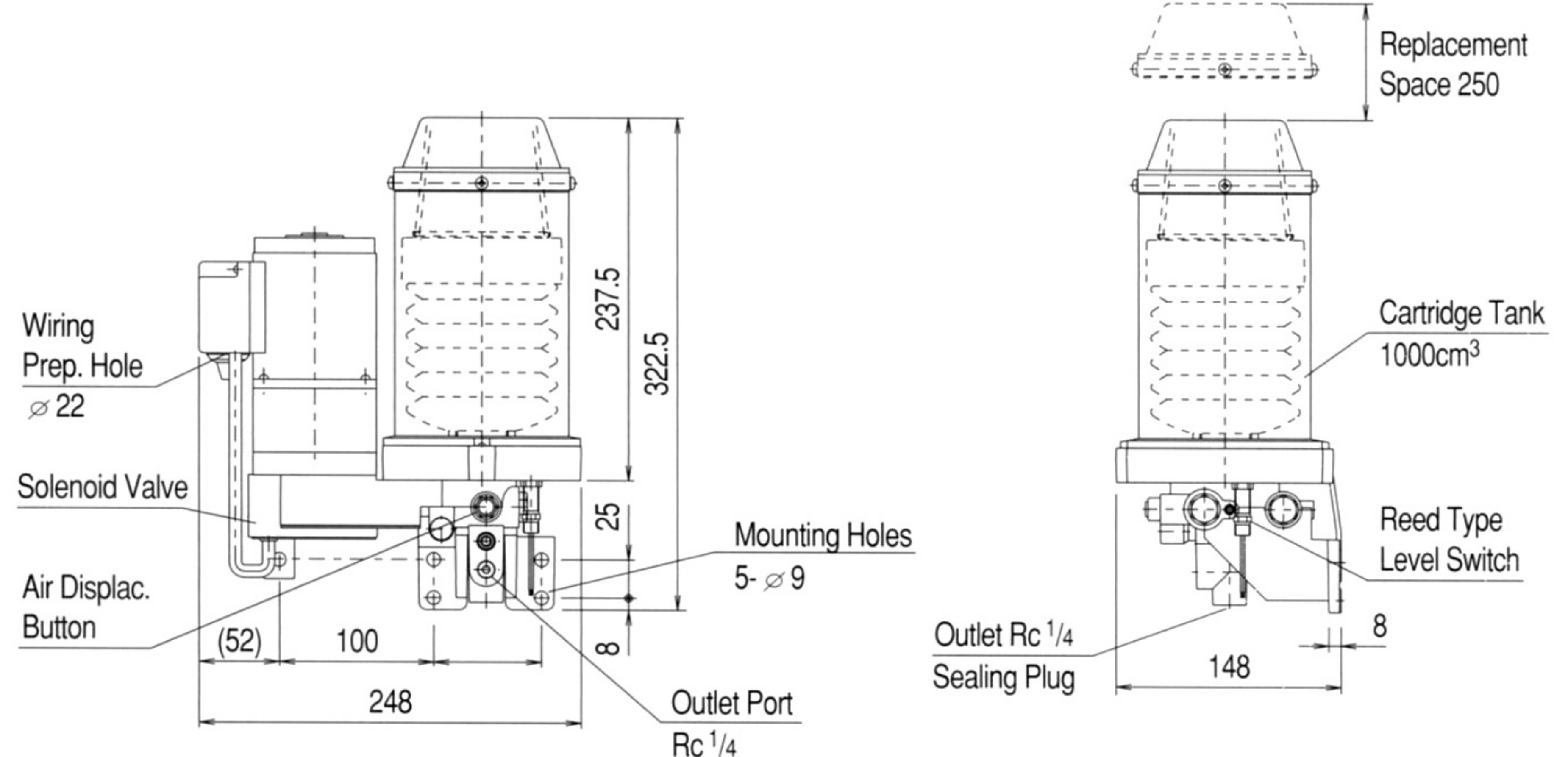
LEVEL SWITCH (OPTION) SPECIFICATION

LIMIT SWITCH TYPE	
Operation	LOW ON or OFF C Contact Point
Contact Rating	AC125V 3A · AC250V 2A (Resist. Load) DC30V 3A (Resist. Load)
Minimum Load	DC5V 160mA
Applicable Pumps	Grease Cup Units
REED SWITCH TYPE	
Operation	LOW ON
Max. O/C Capacity	AC30VA DC50W
Max. O/C Current	AC0.33A DC1.0A
Applicable Pump	Cartridge Type Units

GPMW303DL



GPMW300EL



SPECIFICATION

MODEL CODE	Discharge Volume (cm ³ /min)	Maximum Discharge (MPa)	Outlet Port Size	Pressure Displacement Method	Grease Capacity (cm ³)	Grease Container Type	Operating Temp. Range	Applicable Grease Grade
GPMW303	30 @ 50Hz 36 @ 60Hz 30 @ DC24V	8	2 - Rc 1/4 (Select 1 Port)	Solenoid Valve (2 Way)	300	Grease Cup	0 ~ 40 °C	NLGI No.000 ~ 2
GPMW308					800			
GPMW304					400	Cartridge		
GPMW307					700			
GPMW300					1000			

* Contact SHOWA if NLGI #2 grease is to be utilized.

* Please use our recommended greases or one of SHOWA's system specific greases.

* Avoid using different types of greases together. Do not mix greases.

* An optional terminal board is available for the DC motor units. AC motor units are supplied with terminal boards installed.

DG, GD

Piston Distributor & Junction Block

- Volumetric type single-line piston distributors, dispensing measured volumes of grease
- Variety of discharge volumes available to simplify planning and installation
- GD distribution blocks for DG piston distributors

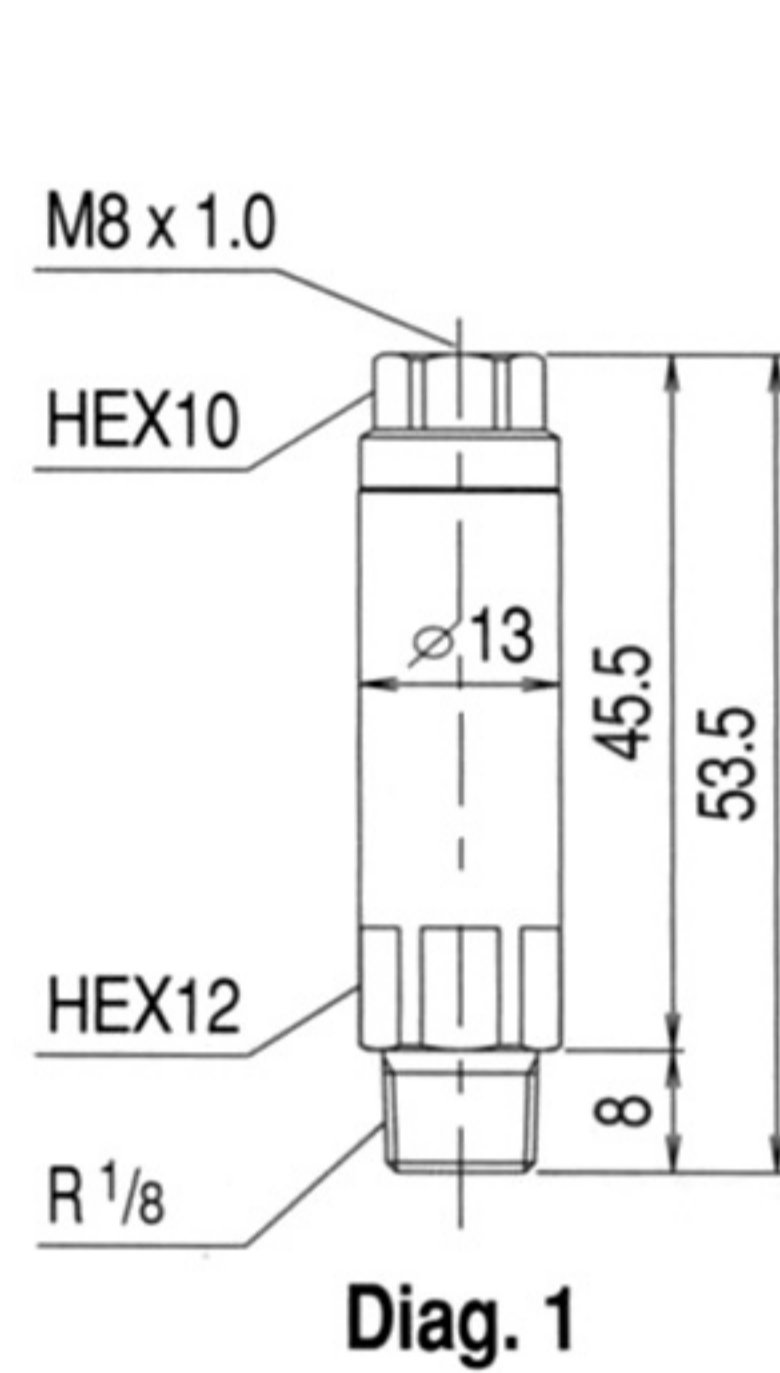
The DG piston distributors, discharge a pre-measured amount of grease utilizing the force of the grease pump's discharge pressure. 8 discharge volumes are available ranging between 0.03cm³ /st to 1.5cm³ /st.

The GD distribution blocks are to be used in conjunction with the DG piston distributors. Single or dual sided distribution port GD blocks are available, with connection port numbers ranging from 4 to 14 ports.

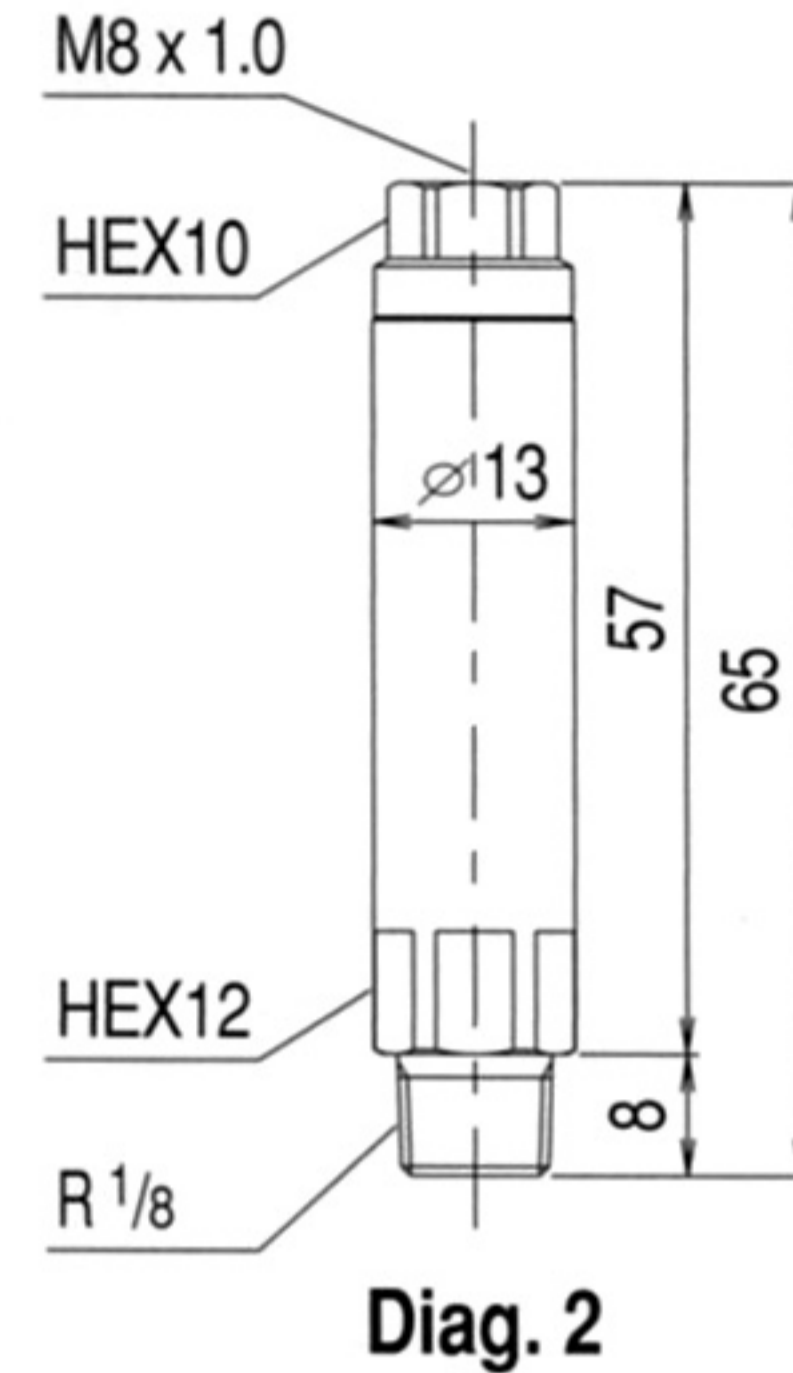


DG Pistons & GDB

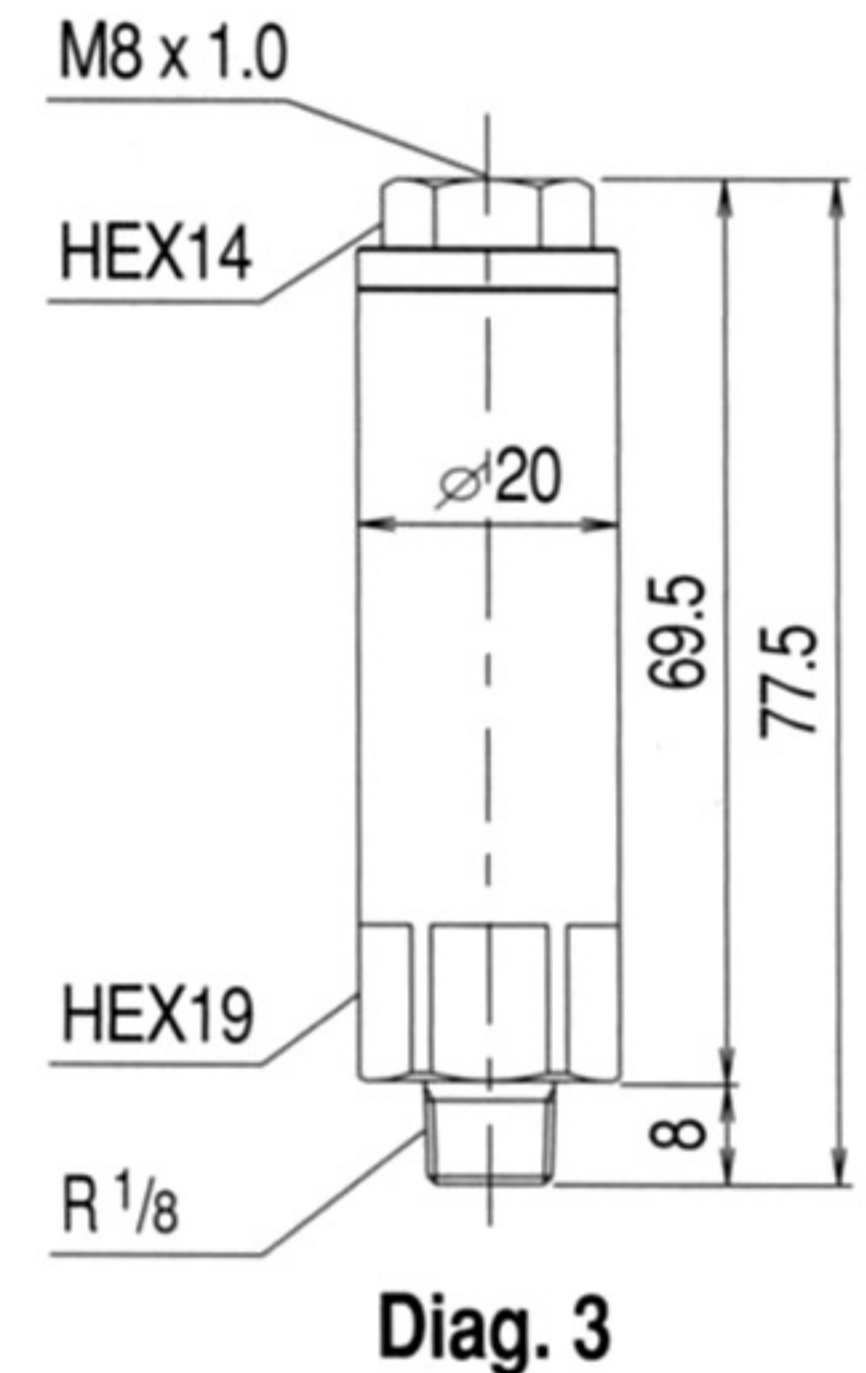
DG PISTONS



Diag. 1



Diag. 2



Diag. 3

MODEL CODE DG 20

Discharge Volume
3 : 0.03cm ³
5 : 0.05cm ³
10 : 0.1cm ³
20 : 0.2cm ³
30 : 0.3cm ³
50 : 0.5cm ³
100 : 1.0cm ³
150 : 1.5cm ³

Base Code

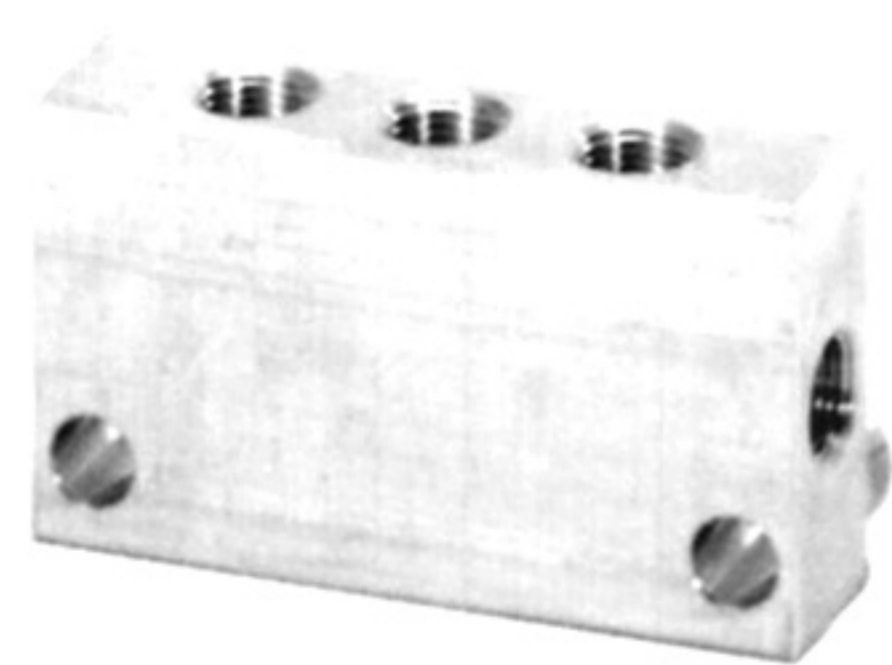
SPECIFICATION

MODEL CODE	Discharge Volume (cm ³ /st)	Activating Pressure (MPa)	Return Pressure (MPa)	Connection Size (GD Blocks)	Connection Size (Outlet Port)	Recommended Piping Size		Size Reference (Diagram)	Applicable Grease Grade
						Main	Branch		
DG3	0.03	Min. 2.5 Max. Usage 10 (*a)	1.2	R 1/8	M8 x 1.0	ø 6+ Interior	ø 4 Exterior	Diag. 1	NLGI No.000 ~ 2
DG5	0.05								
DG10	0.1								
DG20	0.2							Diag. 2	
DG30	0.3								
DG50	0.5								
DG100	1.0								
DG150	1.5	Diag. 3							

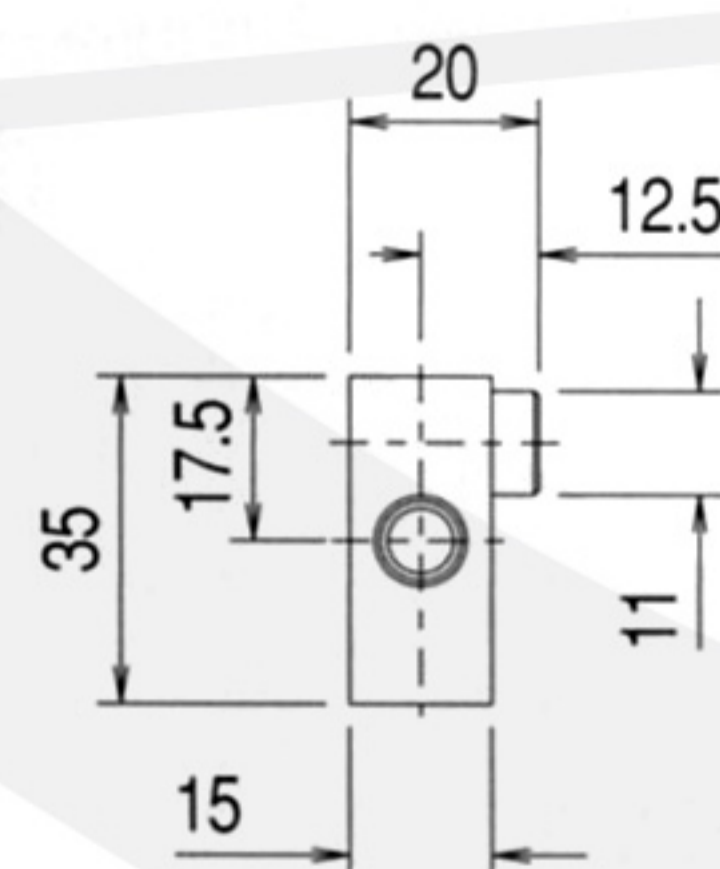
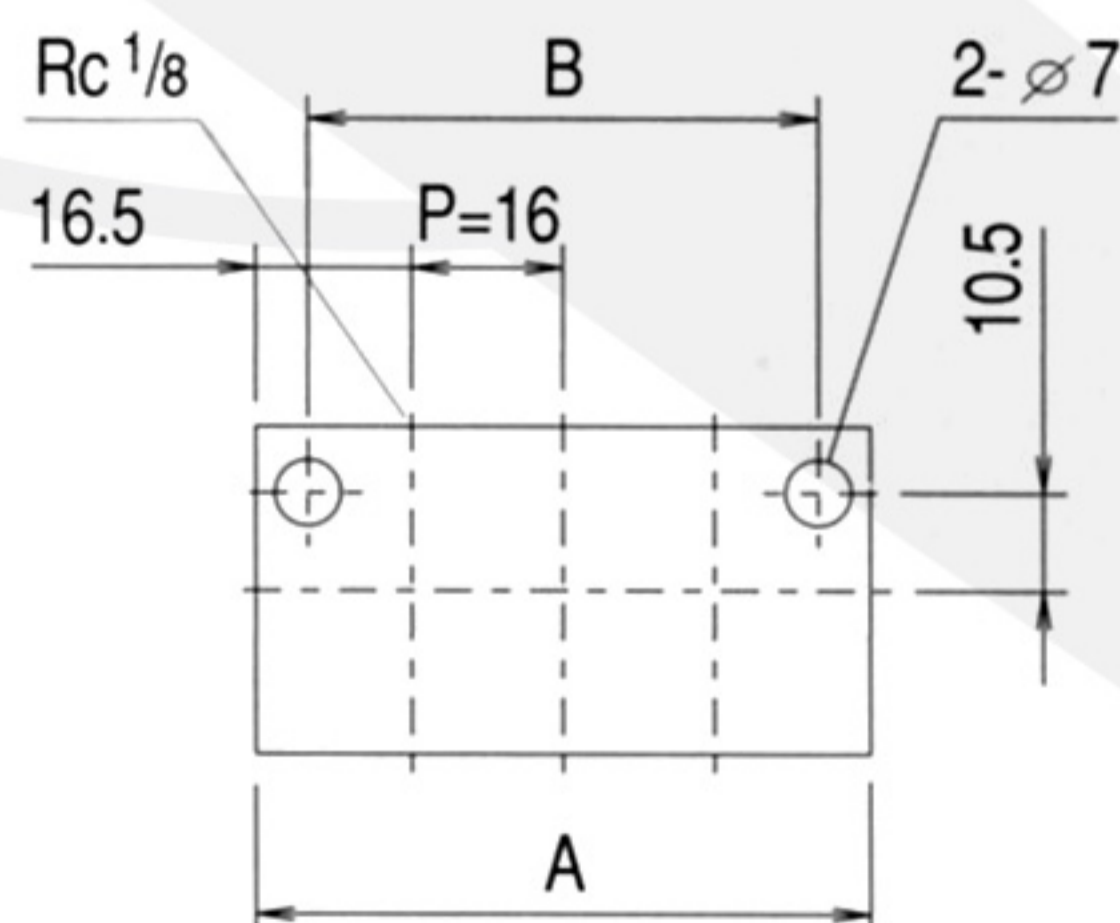
* (*a) The GPMW grease pump's default discharge pressure is set at 8MPa, while the GPHW hand pumps are set at 10MPa.

* "Return Pressure" refers to the internal pressure of the distribution pipes, which it must drop below to enable the pistons to replenish themselves between discharges. Failing to drop the distribution system's pressure below 1.2MPa, prior to the succeeding discharge, will lead to irregular volumes of grease to be discharged.

GDA * K (Dual Sided Outlet Block)

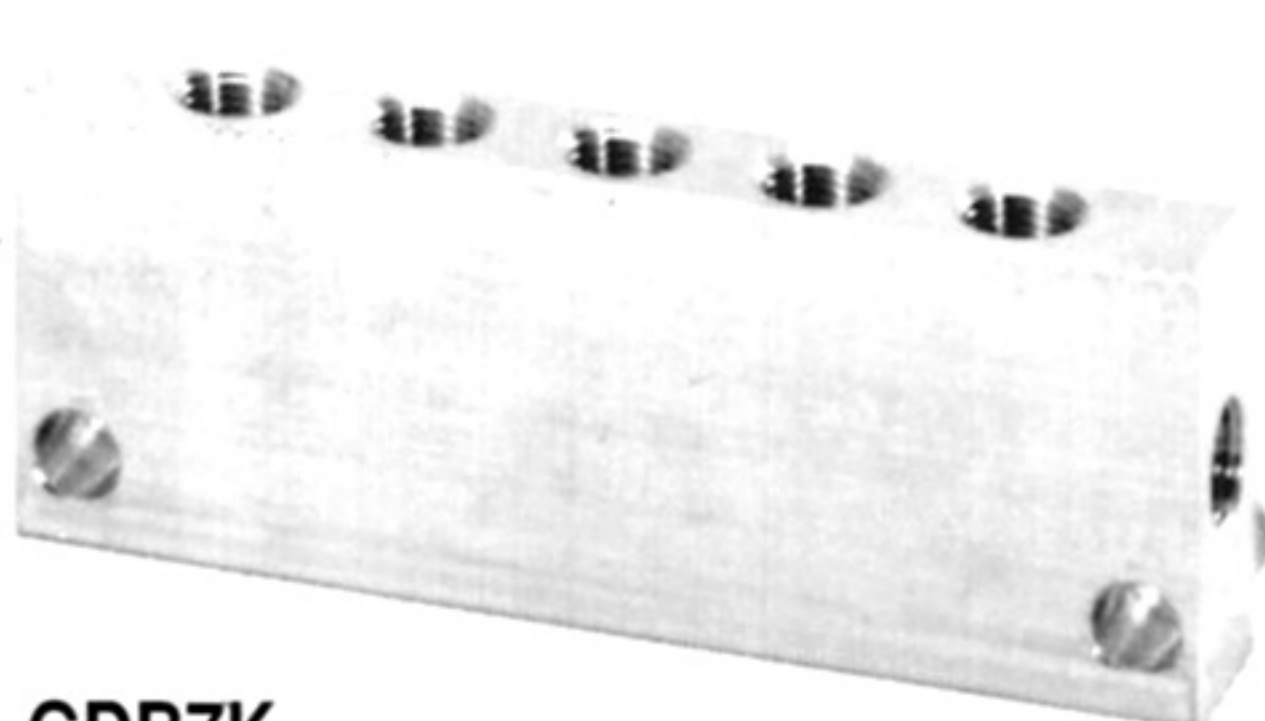


GDA8K

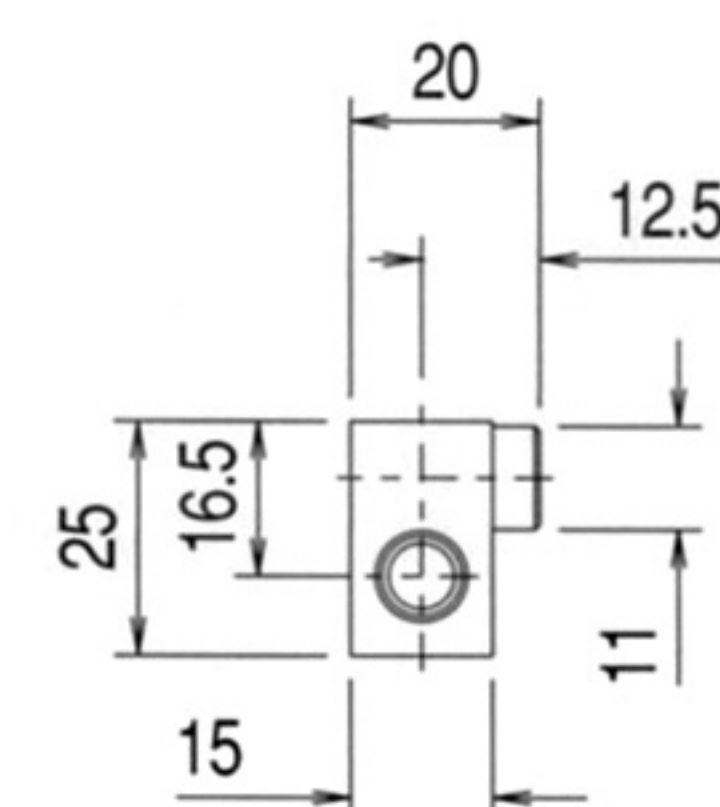
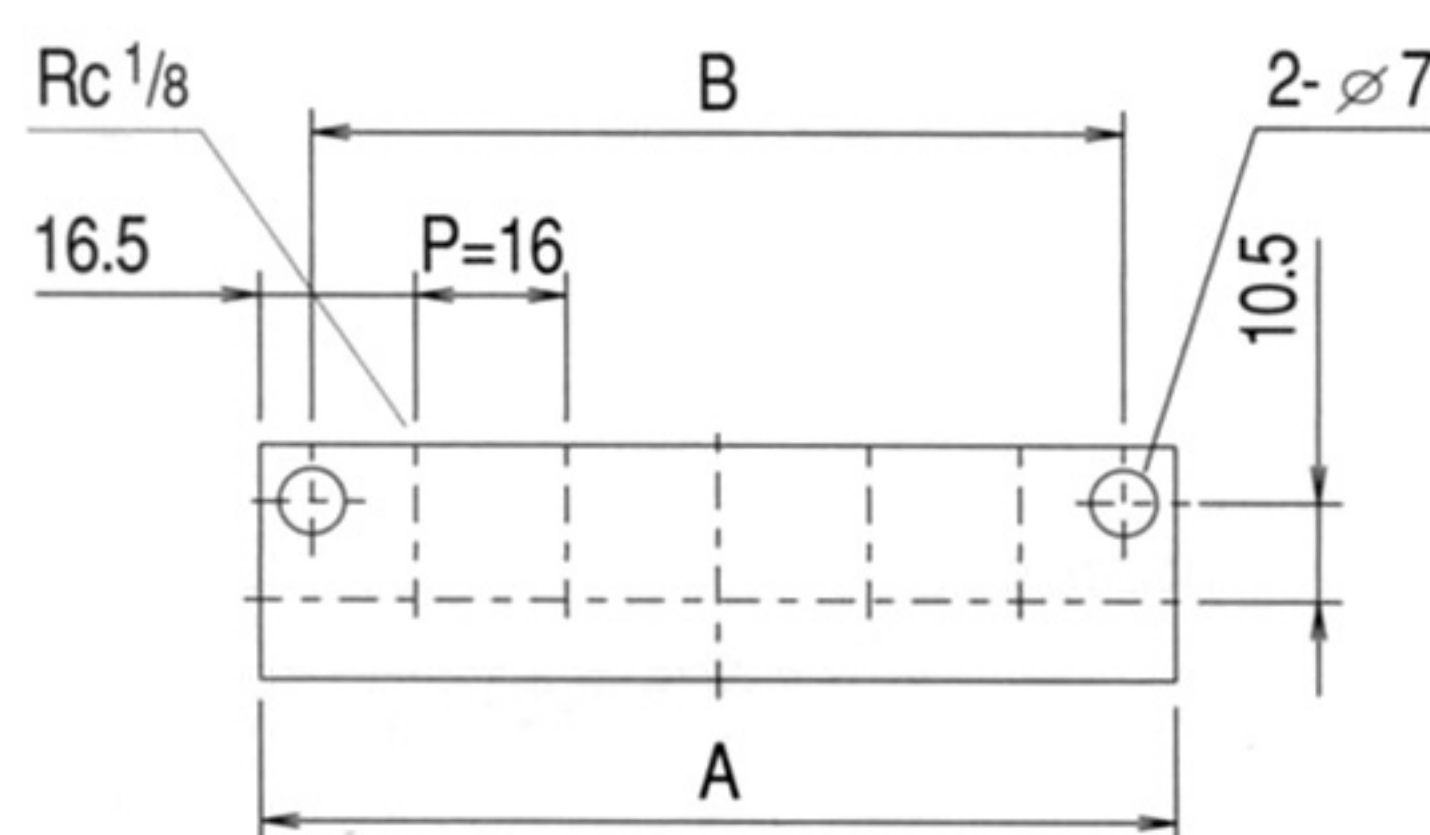


MODEL CODE	Number of Connections	A	B
GDA4K	4	33	-
GDA6K	6	49	38
GDA8K	8	65	54
GDA10K	10	81	70
GDA12K	12	97	86
GDA14K	14	113	102

GDB * K (Single Sided Outlet Block)



GDB7K



MODEL CODE	Number of Connections	A	B
GDB4K	4	49	38
GDB5K	5	65	54
GDB6K	6	81	70
GDB7K	7	97	86
GDB8K	8	113	102
GDB9K	9	129	118
GDB10K	10	145	134