THM HYDRAULICS

BHP Series

High Pressure Orbital Motor with Two speed change
Displacement: 229~451 mL/r
Maximum Pressure up to 345 Bar
Maximum Flow up to 170 L/min

Design Feature: Hydraulic control is added to achieve high and low speed switching, with a speed ratio of 1:1.5.

Index

Technical data

Displacement (mL/r)	High Speed Mode	229	267	289	320	451
	Low Speed Mode	344	400	434	480	677
Oil Flow (L/min)	High Speed Mode	170	170	170	170	170
	Low Speed Mode	170	170	170	170	170
Speed (RPM)	High Speed Mode	743	639	588	532	378
	Low Speed Mode	495	426	392	355	252
Pressure drop (MPa)	Cont.	31	31	31	31	25
	Int.	34.5	34.5	34.5	34.5	29
High Speed Mode Torque (Nm)	Cont.	1076	1251	1356	1501	1646
	Int.	1196	1389	1509	1669	1929
Low Speed Mode Torque (Nm)	Cont.	1614	1876	2037	2252	2469
	Int.	1794	2084	2263	2503	2893

Note:

1. "Intermittent" refers to the maximum pressure at the entrance, and "continuous working pressure" refers to the working pressure difference.
2. The motor should not work at the highest pressure and speed at the same time.
3. The running time of the motor should not exceed 10% under intermittent working conditions.
4. The highest working temperature is 80°C.
5. The maximum allowable back pressure of the motor is 10 MPa, but it is recommended that the back pressure should not exceed 5 MPa, and the leakage pipe should be connected when the back pressure exceeds this value.
6. Before the motor works at full load, it is recommended to run in under 40% of the maximum working pressure for one hour.
7. 68# anti-wear hydraulic oil with a viscosity of 37–73 CSt and cleanliness of ISO 18/13 is recommended.

Ordering Code

BHP						A

High Pressure Orbital motor with two speed change = BHP

Displacement (mL/r)
344, 400, 434, 480, 677

Mounting Flange
Square Flange — 4×Ø17 — Pitch Circle Ø162 — Spigot Ø127 = A
Square Flange — 4×Ø14.5 — Pitch Circle Ø160 — Spigot Ø125 = B
Wheel Flange — 4×Ø17 — Pitch Circle Ø209.5 — Spigot Ø178 = C
Wheel Flange — 4×Ø17 — Pitch Circle Ø209.5 — Spigot Ø178 = D
(Motor length gauge)

Output Shaft
Ø53.975 Involute Splined Shaft — z16, DP8/16, a=30° = 1
Ø50 Cylindrical Parallel Key Shaft — Key 14×9×70 = 2
Ø60 Tapered Shaft — Taper 1:10, Parallel Key 16×10×32 = 3
Ø40 Cylindrical Parallel Key Shaft — Key 12×8×70 = 4
Ø57.15 Tapered Shaft — Taper 1:8, Parallel Key 14.3×14.3×50.8 = 5

Ports:
G3/4 = A
M33x2 = B
G1 = C
1 5/16-12 UN = D

Drain Port:
M14x1.5 = 1
7/8-14UNF = 2
G1/4 = 3
9/16-18UNF = 4

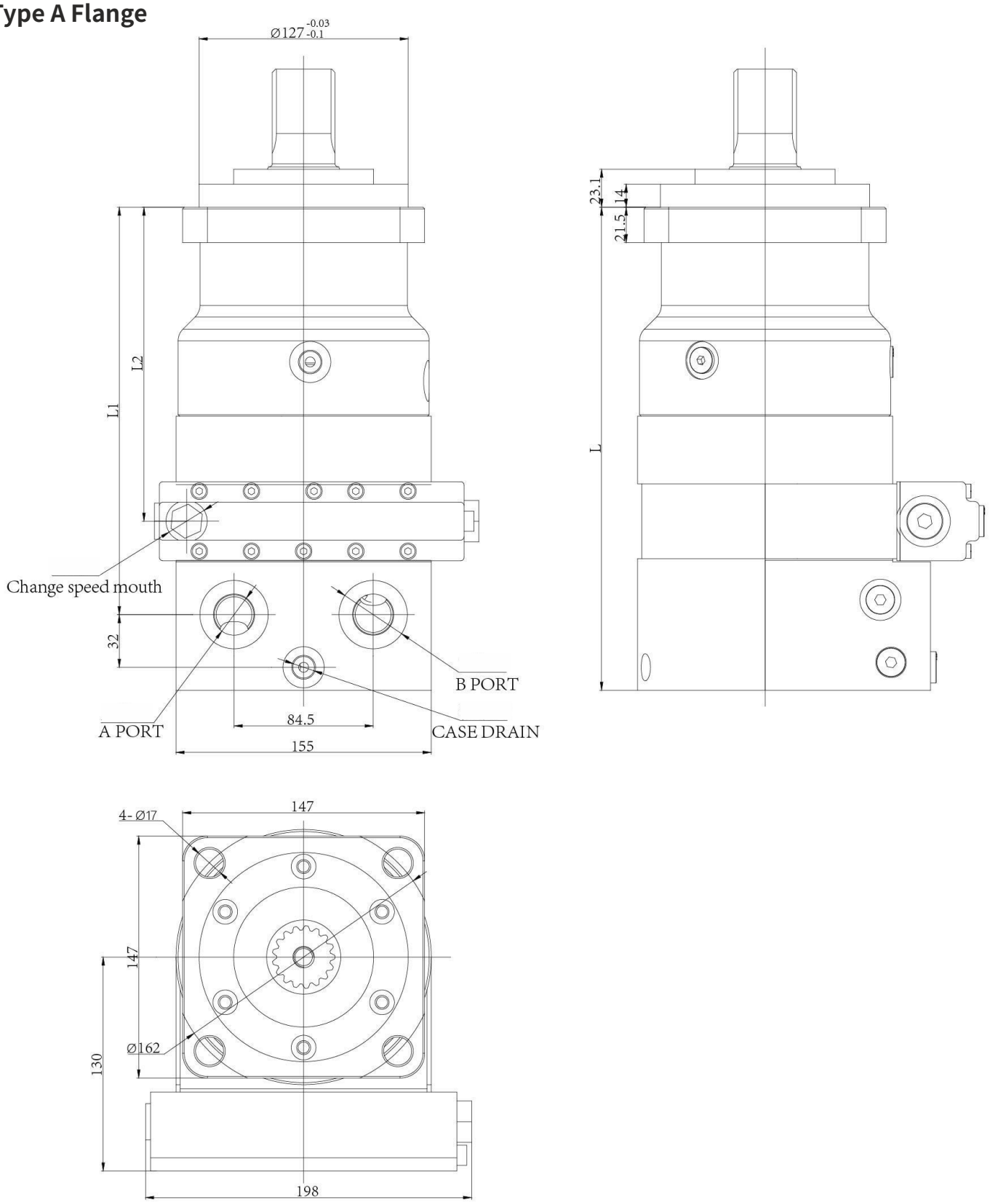
Special Requirements:
Two Speed = A

You can specify any special requirements needed here.

Note: When using this ordering information, users can send the model code, displacement, flange installation size, output shaft code, oil inlet and outlet, and other information to us. If the selected specification is not in the table, or if there are special requirements, please contact customer service or technical personnel for specific information.

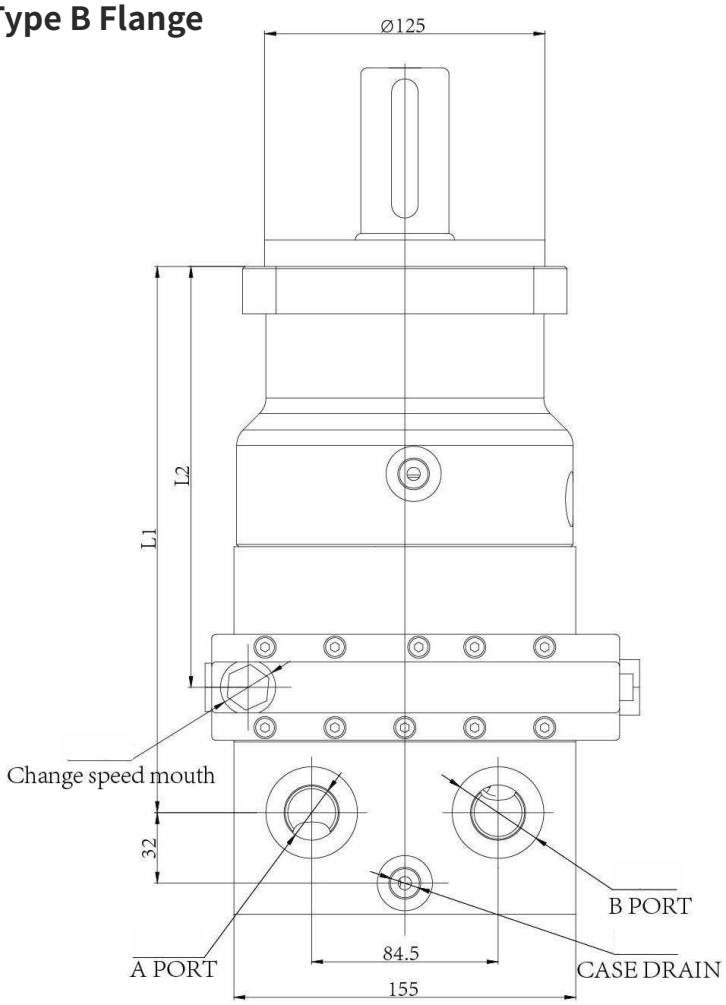
Unit Dimensions

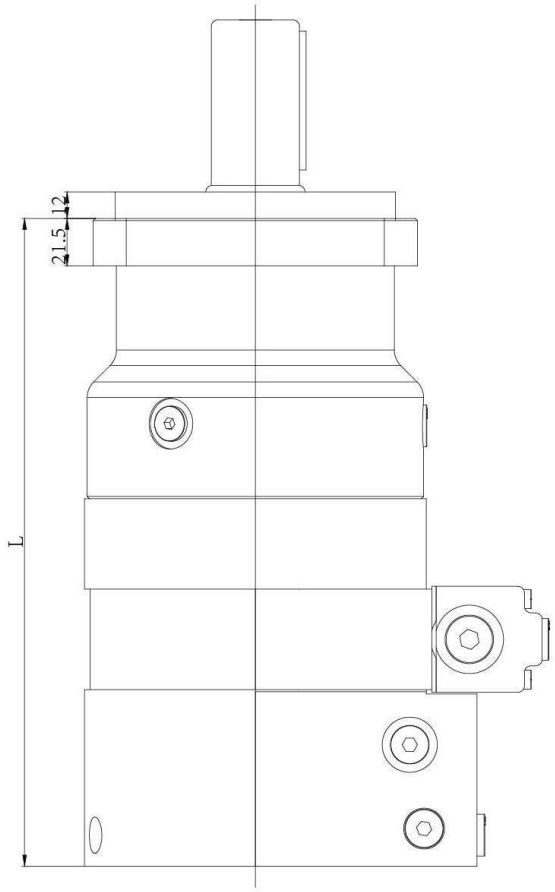
Type A Flange



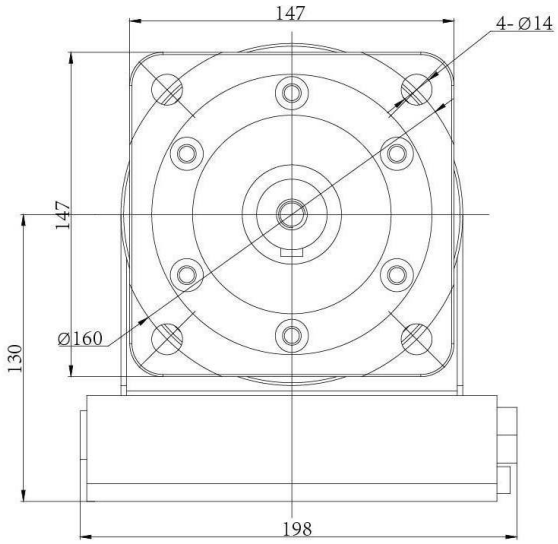
Unit Dimensions

Type B Flange



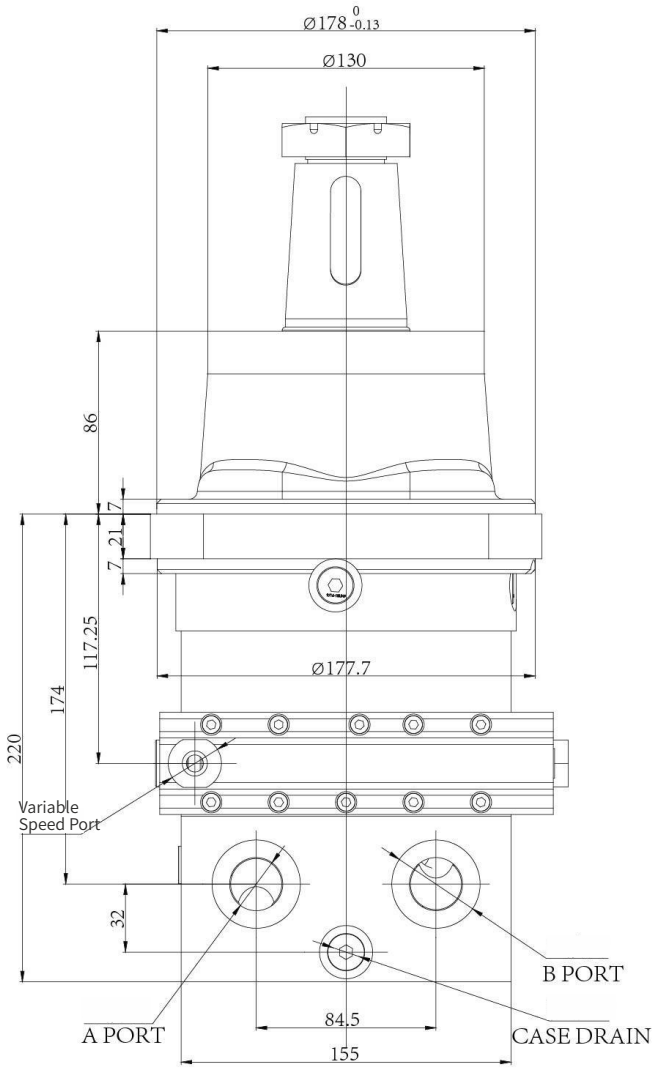


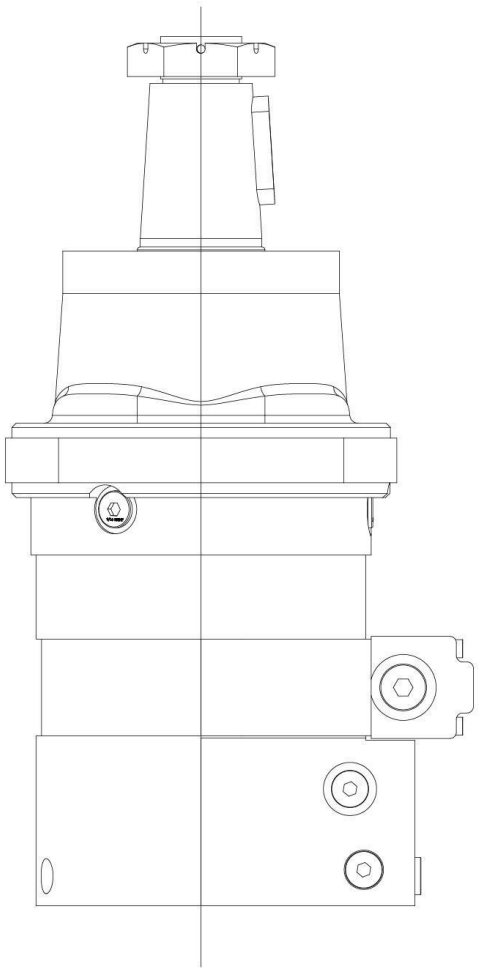
Motor length gauge			
Displacement	L	L1	L2
BHP-344	281.5	235.5	178.5
BHP-400	285	239	182
BHP-434	288	242	185
BHP-480	292	246	189
BHP-677	308	262	205

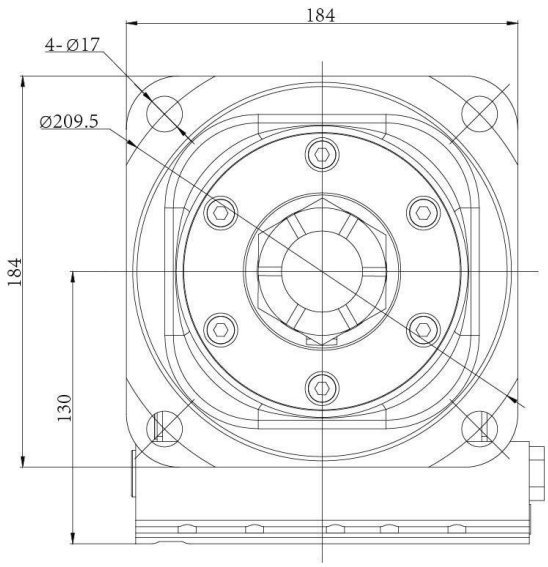


Unit Dimensions

Type C Flange

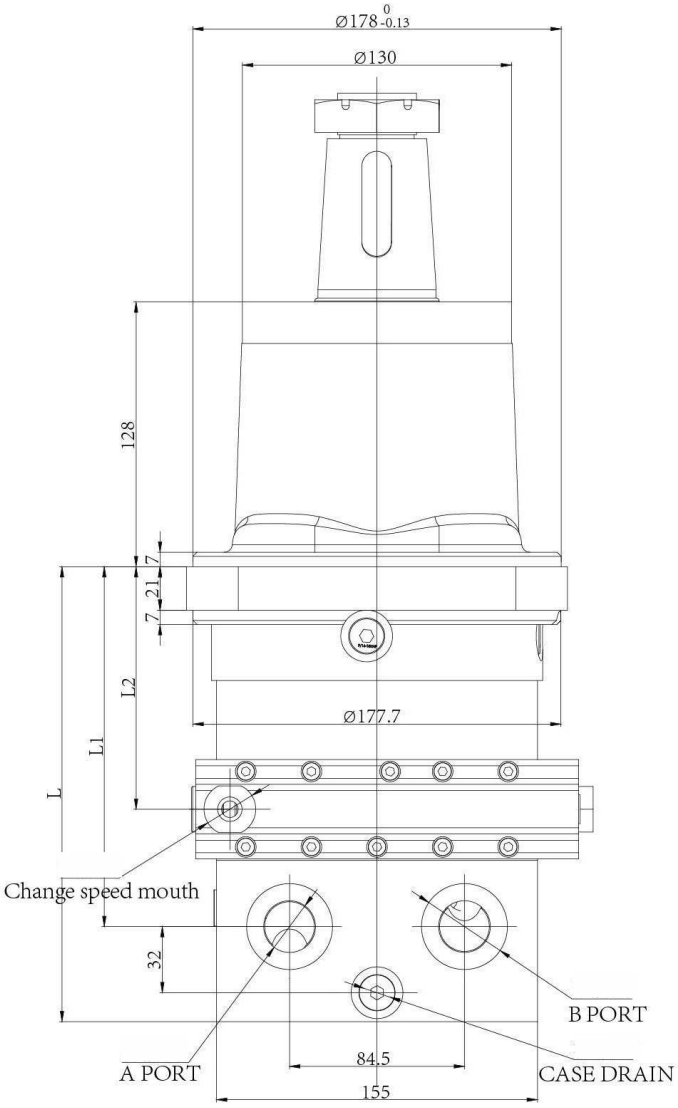


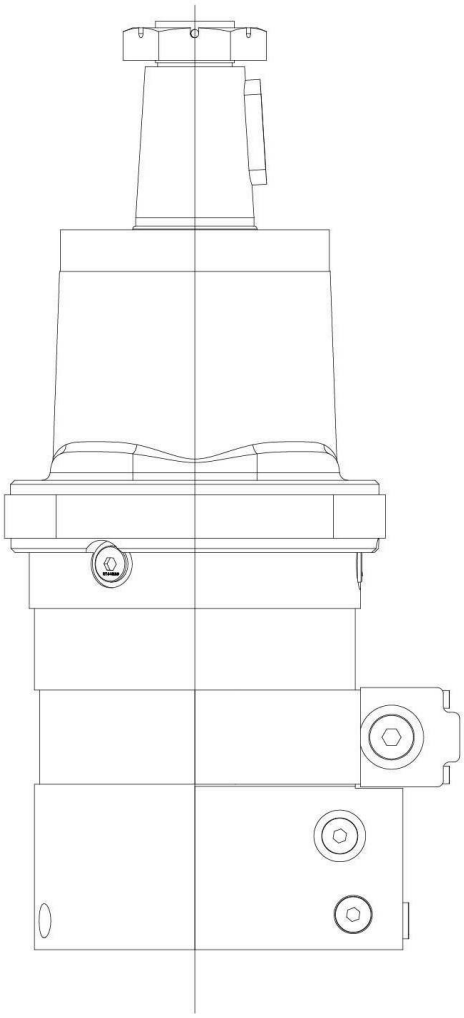


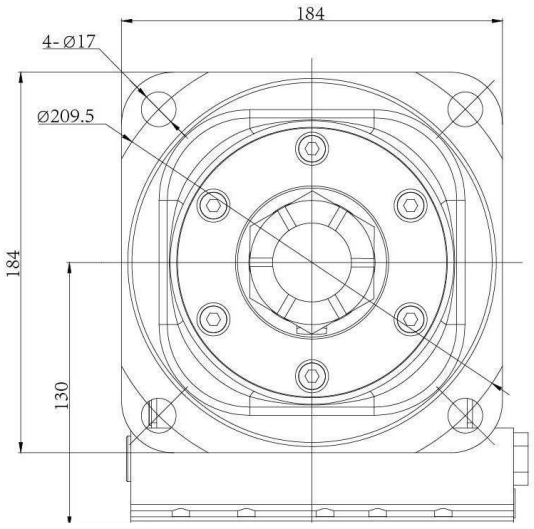


Unit Dimensions

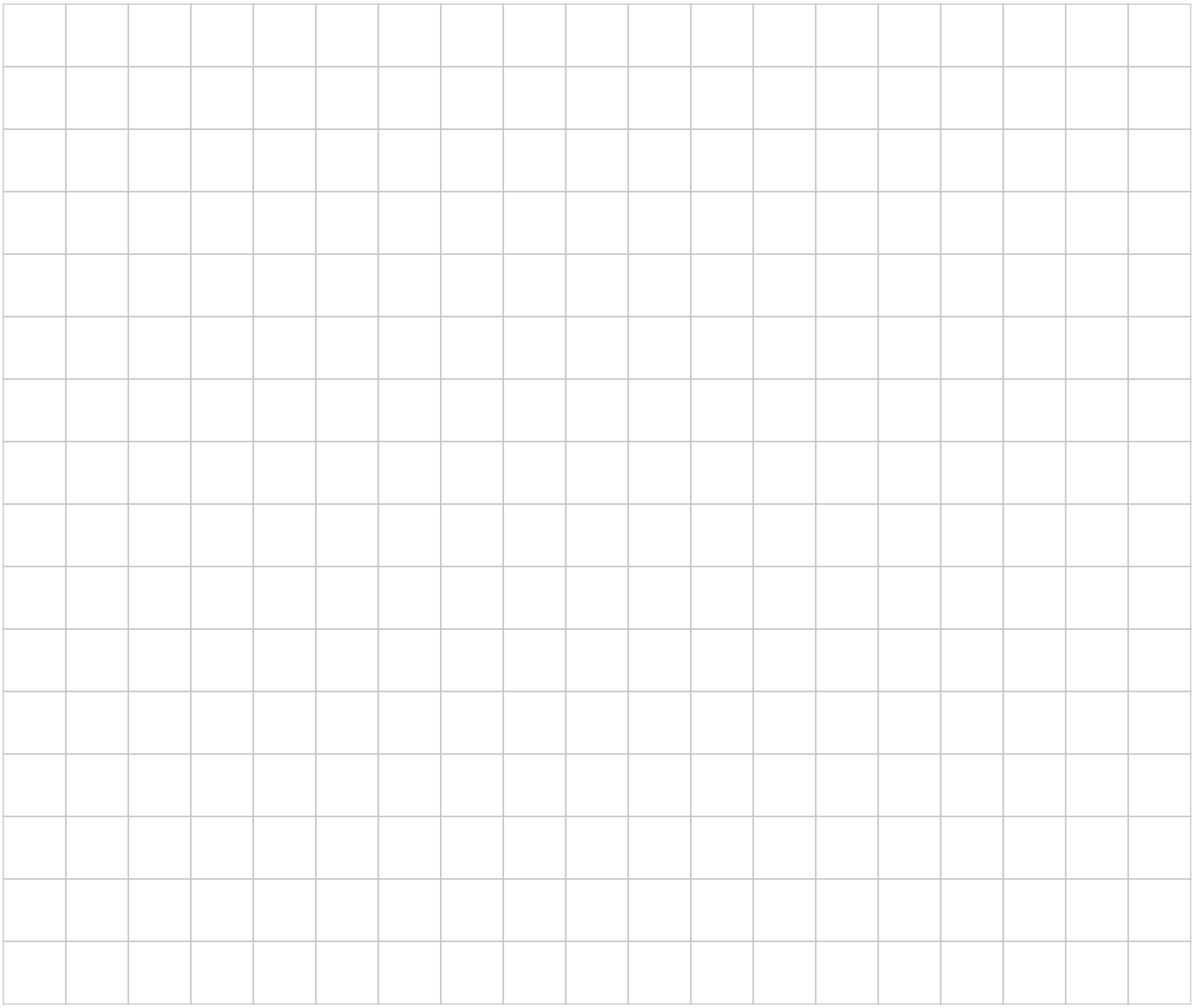
Type D Flange







Motor length gauge			
Displacement	L	L1	L2
BHP-344	209.5	163.5	107.5
BHP-400	213	167	111
BHP-434	216	170	114
BHP-480	220	174	117
BHP-677	236	190	133



The specified data is for product description purposes only and may not be deemed to be guaranteed unless expressly confirmed in the contract.

THM Huade Hydraulics Pvt Ltd

F-127, Phase-VIII, Focal Point,
Ludhiana-141010, Punjab (INDIA)
PH: 0161-2672777, 0161-2672778
E-mail: sales@thmhuade.com
Website: www.thmhuade.com

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