

## Mechanical Features

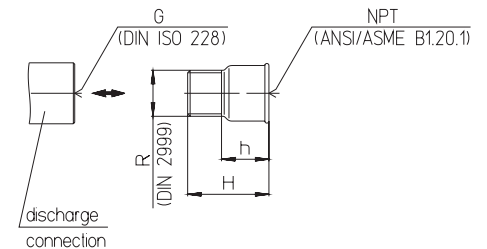
### Terminal Box Position acc. to EN 12157

In accordance with EN 12157 the terminal box is positioned above the outlet on immersion and suction pumps: Position 1 is the standard design for immersion pumps, position 2 for end-suction pumps, and position 3 for miniature centrifugal pumps. If a non-standard position is required, please provide details when ordering.

Position	Motor overhead view	Motor overhead view
1		Terminal box opposite to discharge port. Standard set-up for immersion pumps.
2		Terminal box to the left of the discharge port. Standard set-up for suction pumps. For Horizontal End-Suction pumps please refer to page 35-01.
3		Terminal box on the discharge port side. Standard set-up for miniature centrifugal pumps.
4		Terminal box on the right of the discharge port.

### Pipe / discharge connection

Pipe / discharge connection threads G are made according DIN ISO 228. Optional adaptors to threads NPT can be ordered at additional charge according to the following dimensions:



Discharge Inch	H Inch	h Inch
1/2	1.7	1.02
3/4	1.9	1.14
1	2.1	1.26
1 1/4	2.3	1.38
1 1/2	2.5	1.50
2	2.7	1.62
2 1/2	2.9	1.74

G (DIN ISO 228)	parallel internal thread
R (DIN 2999)	tapered outside thread
NPT (ANSI/ASME B1.20.1)	tapered internal thread

### Paintwork

Standard RAL 9005  
 Upon request Other colors and unpainted or primed available upon request.

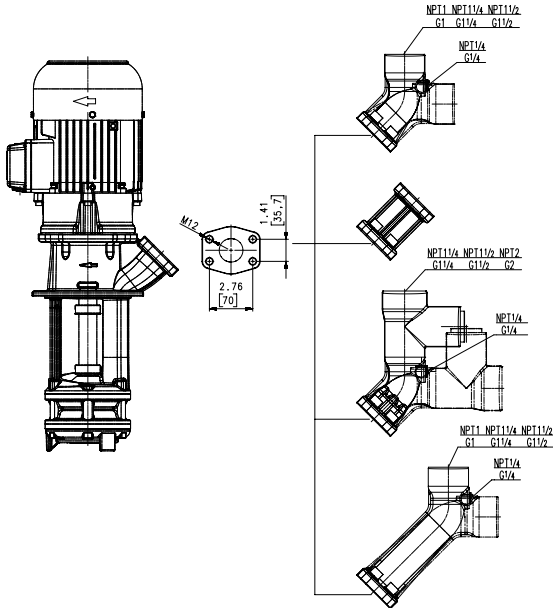
## Mechanical Features

### Brinkmann Pumps with SAE flanges or 45 degree flanges

Most Brinkmann pumps with motors larger than 0.67 HP (0.5 kW) are equipped with the user friendly SAE flange or 45 degree flange connection which allows for either vertical or horizontal pipe connection. Each SAE flange or 45 degree flange is equipped with an additional NPT ¼ (G ¼) pressure gauge connection.

For optimized chip transport and to avoid chip blockages inside the pumps, all flow is directed in long soft turns. All flanges are designed in a way that any cross section diameter changes down stream are always increasing never decreasing in order to prevent bottle necks inside the pump.

#### Small pump body (Ø 5.51 inch / Ø 140 mm)



#### SAE flange NPT 1, NPT 1¼, NPT 1½, NPT 2 (G 1, G 1¼, G 1½, G 2)

Standard as shown on data sheets. Fully interchangeable. Upon request also available for TC and TH pumps.

#### SAE Extension Port

This extension port is available upon request for all pumps which are featuring an SAE flange.

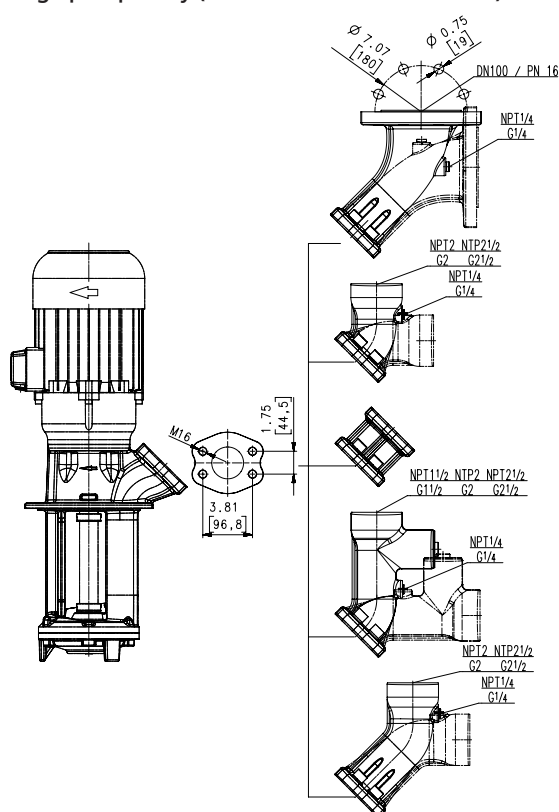
#### Regulating Valve for SAE flange NPT 1, NPT 1¼, NPT 1½, NPT 2 (G 1, G 1¼, G 1½, G 2)

This regulating valve allows to adjust the flow rate of the pump even during regular operation. This valve has no complete shut off function. An additional check valve is available upon request.

#### SAE flange NPT 1, NPT 1¼, NPT 1½, NPT 2 (G1, G1¼, G1½, G2)

Standard for Brinkmann motors larger than 15 HP (11 kW) and for standard motors (i.e. Siemens).

#### Large pump body (≥ Ø 7.87 inch / ≥ Ø 200 mm)



#### Flange DN100/PN16

This flange is available upon request for all pumps with larger pump body which are featuring a 45 degree flange.

#### 45 degree flange NPT 2, NPT 2½ (G 2, G 2½)

Standard as shown on data sheets. NPT 2 (G 2) is available upon request instead of the NPT 2 ½ (G 2 ½) without surcharge.

#### Extension Port for 45 degree flange

This extension port is available upon request for all pumps which are featuring a 45 degree flange.

#### Regulating Valve for 45 degree flange NPT 1½, NPT 2, NPT 2½ (G 1½, G 2, G 2½)

This regulating valve allows to adjust the flow rate of the pump even during regular operation. This valve has no complete shut off function.

#### Extended 45 degree flange NPT 2, NPT 2½ (G 2, G 2½)

Standard for Brinkmann motors larger than 15 HP (11 kW) and for standard motors (i.e. Siemens).