

# HI-POWER INDUSTRIAL FLANGE SPREADER

**MODEL : FSH 15 , 15.5TONS** **HI-POWER** 

Min 6 mm to Max. Spread 81 mm.

## ■ Model No. **FSH-15**

Height: 274 mm

Weight: 7.0 kgs

## ■ Specifications:

Max. Pressure: 700 bar

Oil Required: 78.4 cc

max Output: 15 tons / 155 KN

## ■ Spreader Capacity:

| Model No. | Tip Clearance | Max. Spread | Type      |
|-----------|---------------|-------------|-----------|
| FSH-15    | 6 mm          | 81 mm       | Hydraulic |

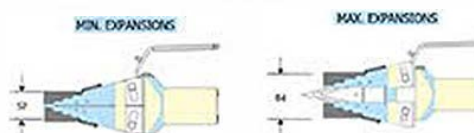
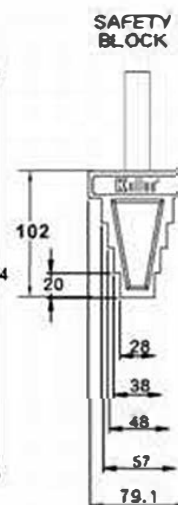
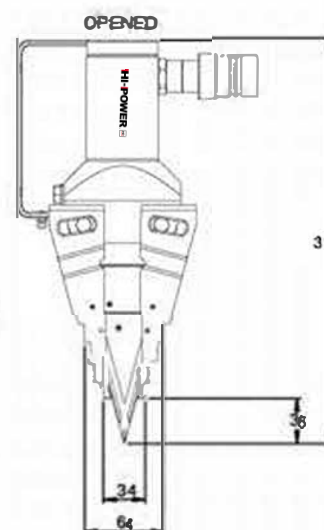
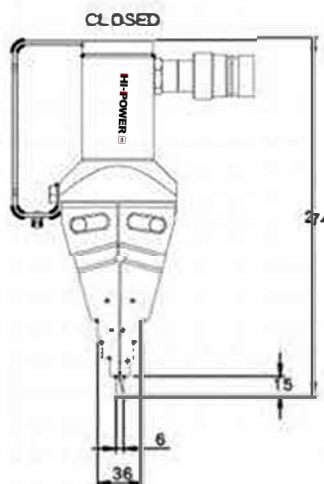
## ■ Features:

- Integrated wedge concept: friction-free, smooth, parallel wedge movement eliminates flange damage and spreading arm failure.
- Unique interlocking wedge design: no first step bending and risk of slipping out of joint.
- Requires very small access gap of only 6 mm (.24 in).
- Few moving parts means durability and low maintenance.
- Operated by any hydraulic pump with rated oil pressure of 700 bar (10,000 psi).

## ■ Accessories:

- \* Safety Block
- \* Stepped Block

## ■ Dimensions:



# HI-POWER ULTIMA Steel Hand Pump

**HI-POWER®**  
High Quality Powerful Solutions

▼ Shown from top to bottom: P90-450 ,P90-900 ,P90-1800 ,P90-2500



**PRO**

**HI-POWER® P-Series PRO SET**  
**HI-POWER® Easiest Way**  
**Hand Pump with Hose & Gauge**



HI-POWER® P90-Series PRO SET

**PROFESSIONAL HAND PUMP**

Reservoir Capacity:

**450 - 7423 cm<sup>3</sup>**

Flow at Rated Pressure:

**2.8 - 4.75 cm<sup>3</sup>/stroke**

Maximum Operating Pressure:

**700 bar , 10000 psi**

- Smart designed to reduce handle effort & creat extra ergonomic power
- Two-Speed operation with a high-efficiency, fast and easy
- Vent free reservoir eliminates spills
- Quick grip handle allows for easy transport
- Internal pressure relief valve for overload protection
- Chrome plated plunger & wiper system for durable,long life performance
- 4 Way Valve for P90-2500D , HHP-3000D & P-464 for double-acting.



## Hoses

HI-POWER® offers complete line of high-quality hydraulic hoses. The integrity of HIPOWER system, Genuine Hose and Couplers  
**HI-POWER®** hyd.hoses SH9206



## HG-2535L SUS GAGUE 2 1/2"

### HGA-4 Gauge Adaptor

Protect yourself from system overloading by simply ordering one part number for a pre-assembled SUS gauge, gauge adaptor&coupler.



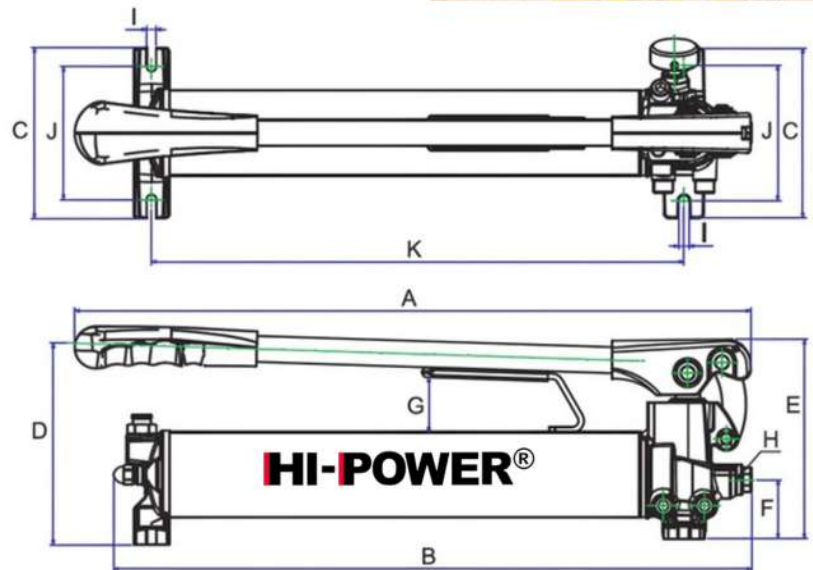
## Extra Capacity Hand Pumps

**P462 and P464** feature extra large reservoirs and high first-stage flow rate. Two-Speed hand pump sPowering by 7.4 litre oil capacity.

**PRO**

## HI-POWER® CYLINDERS

HI-POWER® cylinders S/A or D/A. RC,RCH,RCS,RSM,CLL,CLP,RR  
SELECT HI-POWER® Cylinder  
LET'S GO !



| Model Number      | Oil Capacity (cm <sup>3</sup> ) | Pressure Rating (BAR) |           | Oil Displacement per Stroke (cm <sup>3</sup> ) |           | Piston Stroke (mm) | A    | B     | C    | D    | E    | F    | G    | H        | I    | J    | K    | Weight (kgs) |
|-------------------|---------------------------------|-----------------------|-----------|------------------------------------------------|-----------|--------------------|------|-------|------|------|------|------|------|----------|------|------|------|--------------|
|                   |                                 | 1st Stage             | 2nd Stage | 1st Stage                                      | 2nd Stage |                    | (mm) | (mm)  | (mm) | (mm) | (mm) | (mm) | (mm) | (mm)     | (mm) | (mm) | (mm) |              |
| <b>P90-450</b>    | 450                             | 20                    | 700       | 19.4                                           | 1.2       | 25.4               | 447  | 369.5 | 140  | 163  | 164  | 48.5 | 45   |          | 8    | 112  | 282  | 6.5          |
| <b>P90-900</b>    | 901                             | 20                    | 700       | 19.4                                           | 2.8       | 25.4               | 560  | 530   | 140  | 167  | 164  | 48.5 | 45   |          | 8    | 112  | 442  | 7.8          |
| <b>P90-1800</b>   | 1800                            | 20                    | 700       | 19.4                                           | 2.8       | 25.4               | 633  | 597.5 | 140  | 170  | 164  | 48.5 | 36.5 | 3/8" NPT | 8    | 112  | 510  | 10           |
| <b>P90-2500</b>   | 2500                            | 27.5                  | 700       | 39.5                                           | 2.8       | 25.4               | 633  | 578   | 150  | 208  | 195  | 55   | 46   |          | 8    | 121  | 502  | 13.5         |
| <b>P90-2500D</b>  | 2500                            | 27.5                  | 700       | 35.6                                           | 2.8       | 25.4               | 633  | 609   | 150  | 208  | 195  | 38   | 47   |          | 8    | 121  | 502  | 15           |
| <b>HP99-1000B</b> | 901                             | 20                    | 1000      | 19.4                                           | 2.8       | 25.4               | 560  | 530   | 140  | 167  | 164  | 48.5 | 45   |          | 8    | 112  | 442  | 7.8          |

**Pressure Gauge 700 Bar, 10000 psi**  
**Glycerine filled pressure gauge 1000 Bar**  
**Material : SUS stainless steel**

## HG-2535L

### Applications

- For measuring points with high dynamic pressure loads or vibrations

FOR Hydraulic HI-POWER System Max. Pressure 1000 Bar , 14500 psi

### Special features

Vibration and shock resistant  
 Especially sturdy design  
 Scale ranges up to 0 .... 700 bar  
 & 0 ..... 10000 psi

### Description

MODEL : HG-2535L

#### Nominal size in mm

FACE DIA : 2 1/2 inch (63.5 mm.)

#### Accuracy

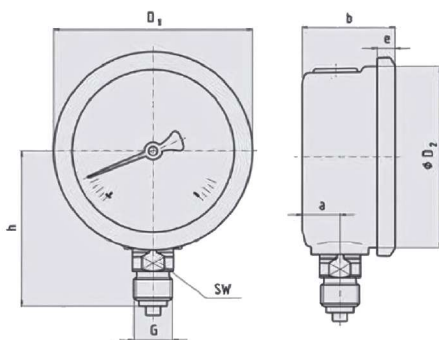
+/- 1%

#### Scale ranges

BAR : 0 .... 200 bar ..... 700 bar  
 PSI : 0 .... 5000 psi ..... 10000 psi

### MODEL : HG-2535L Dimensions in mm

#### Lower mount (LM)



#### Process connection

SUS Stainless Steel Thread

lower mount (LM)

CONNECTION PORT SIZE : 1/4 NPT



#### Permissible temperature

Ambient: -20 ... +60 °C

Medium: +60 °C maximum

#### Temperature effect

When the temperature of the measuring system deviates from the reference temperature (+20 °C):

Max. ±0.4 %/10 K of the span

#### Ingress protection

IP 65 per EN 60529 / IEC 529

Refer to ASME-B40.100, EN837-2



HI-POWER

HI-POWER®

#### DIMENSIONS (mm)

#### Weight in kg

| MODEL    | a  | b ± 0.5 | b <sub>2</sub> ± 0.5 | D <sub>1</sub> | D <sub>2</sub> | e   | G       | h ± 1 | SW | Weight in kg |
|----------|----|---------|----------------------|----------------|----------------|-----|---------|-------|----|--------------|
| HG-2535L | 13 | 44      | 79                   | 80             | 80             | 5.5 | 1/4 NPT | 60    | 14 | 0.40 kgs.    |

#### MODEL HGA-4

Gauge port  
C(NPTF)  
1/4

Male end  
D(NPTF)  
3/8

Female end  
E(NPTF)  
3/8

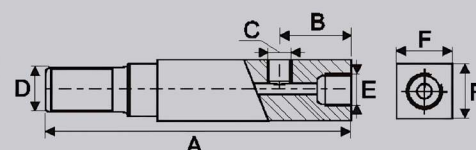
#### DIMENSIONS (mm)

A B C D E F  
133 48 1/4NPTF 3/8NPTF 3/8NPTF 32

### HI-POWER® Gauge Adaptor 700 Bar

HI-POWER HI-Quality # HGA-4 NEW  
 Durable&Easy to mounting for pressure gauge  
 HI-POWER Female ports for hose or coupler ,  
 male screw port for pump or cylinder ,  
 upper port for gauge connection.

#### HGA-4 NEW



HI-POWER®