

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

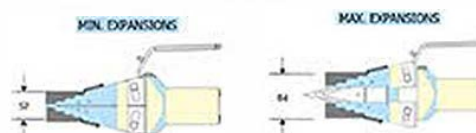
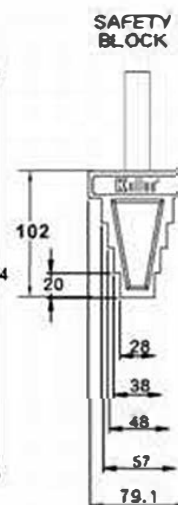
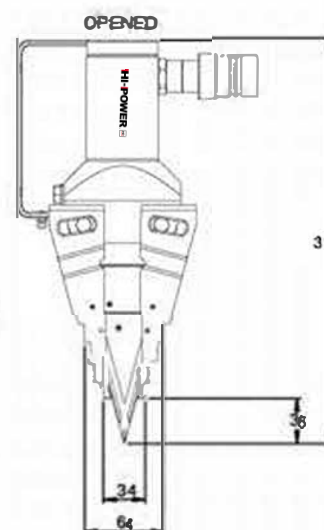
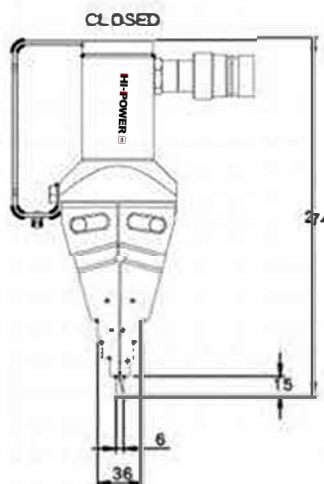
■ Features:

- 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:

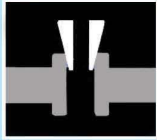
- * Safety Block
- * Stepped Block

■ Dimensions:



Hydraulic Flange Spreader

FSH Series



Capacity: 15 tons

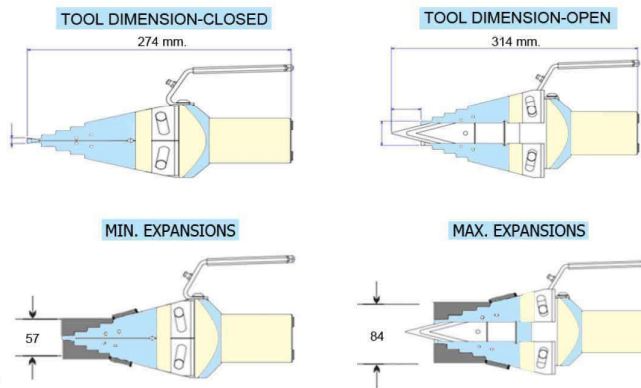
Access gap: 6 mm.

**Maximum Operating Pressure:
700 bar (10,000 psi)**



FSH-15

FSM-15

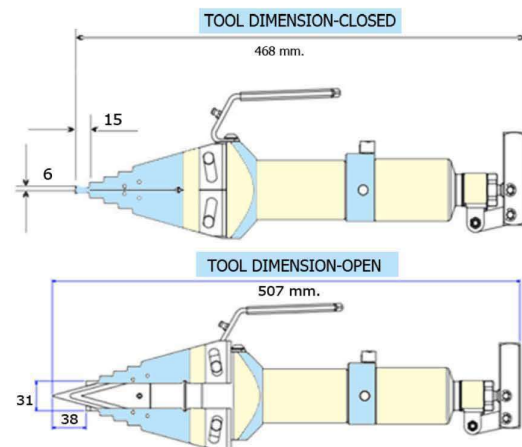
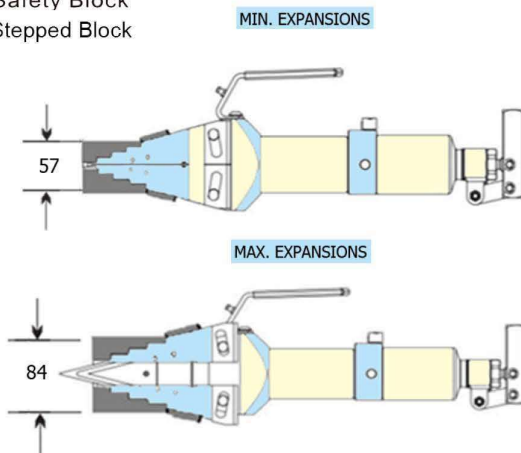


■ Features:

- 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 movement parts mean durability and low maintenance.
- Operated by any hydraulic pump with rated oil pressure of 700 bar (10,000 psi).
- Anti-corrosion treatment suitable for subsea work

■ Accessories:

- Safety Block
- Stepped Block



■ Spreader Capacity:

Model No.	Capacity	Pump Type	Spreading Distance	Max. Spread no stepped block	Max. Spread using stepped block	Weight
FSH-15	155KN (15.5T)	External	6 - 81 mm.	6 - 62 mm.	31 - 81 mm.	7.0 kg
FSM-15	145KN (14.5T)	Integral	6 - 81 mm.	6 - 62 mm.	31 - 81 mm.	9.0 kg

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 cm³

Flow at Rated Pressure:

2.8 - 4.75 cm³/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.



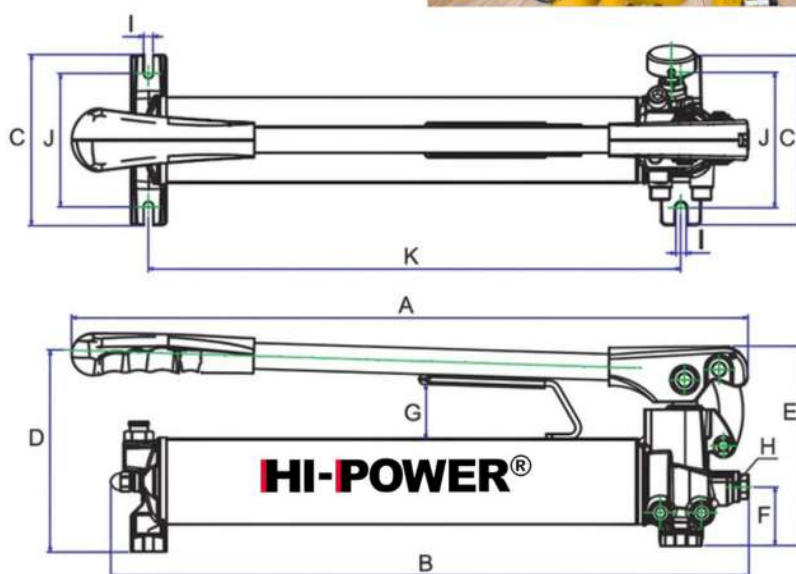
Extra Capacity Hand Pumps

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 (cm³)	Pressure Rating (BAR)		Oil Displacement per Stroke (cm³)		Piston Stroke (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)	K (mm)	Weight (kgs)
		1st Stage	2nd Stage	1st Stage	2nd Stage													
P90-450	450	20	700	19.4	1.2	25.4	447	369.5	140	163	164	48.5	45	3/8" NPT	8	112	282	6.5
P90-900	901	20	700	19.4	2.8	25.4	560	530	140	167	164	48.5	45		8	112	442	7.8
P90-1800	1800	20	700	19.4	2.8	25.4	633	597.5	140	170	164	48.5	36.5		8	112	510	10
P90-2500	2500	27.5	700	39.5	2.8	25.4	633	578	150	208	195	55	46		8	121	502	13.5
P90-2500D	2500	27.5	700	35.6	2.8	25.4	633	609	150	208	195	38	47		8	121	502	15
HP99-1000B	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%

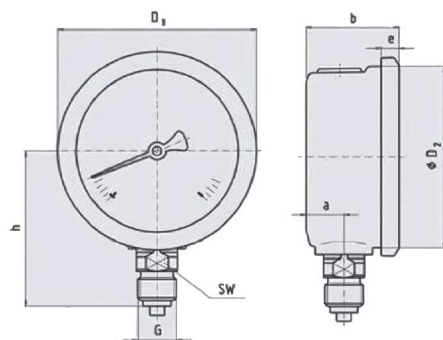
Scale ranges

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 ₂ ± 0.5	D ₁	D ₂	e	G	h ± 1	SW	
HG-2535L	13	44	79	80	80	5.5	1/4 NPT	60	14	0.40 kgs.

MODEL

Gauge port

Male end

Female end

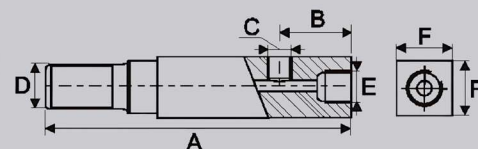
DIMENSIONS (mm)

	C(NPTF)	D(NPTF)	E(NPTF)	A	B	C	D	E	F
HGA-4	1/4	3/8	3/8	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®