

Pressure range

MGC-HIGH 0 to 300 bar MGC-LOW 0 to 300 bar

Dual-scale gauges

All gauges include bar & kg/cm2

High accuracy

MGC-HIGH ±0.6% F.S. of gauge MGC-LOW ±1% F.S. of gauge

Fast calibration

The hydraulic pump rapidly produces the required testing pressure

Easy to use

Easy assembly of the pressure pump and the easy-to-read gauge

Portable

The pressure test set is delivered in a handy and durable carrying case making it easy to move about the ship

Hydraulic pumps

Easy to operate dual step pumps

DNV approval

All JF Instruments calibrators are marine type approved by Det Norske Veritas

Complete marine program

Part of a complete program of marine approved temperature, pressure and signal calibrators; including temperature sensors See more at www.jofra.com

JF Instruments MGC series

Marine Gauge Calibrator

PRODUCT DESCRIPTION

The MGC series is the flexible pressure calibration systems to optimize the performance of the vessel. The MGC series is using quality mechanical gauges as the pressure reference - just connect the reference gauge and the unit-under-test to the hydraulic pump and perform the calibration. The MGC-HIGH and MGC-LOW both goes to 300 bar. Each system contains from 2 to 4 dual-scale



gauges to cover the range with the best possible accuracy.

Maintain and calibrate monitoring devices for:

- Turbo-charger lubrication Lubricating oil systems Cylinder / piston / fuel valve cooling media Fuel oil inlet Scavenge air Exhaust gas Sea water cooling Thrust / shaft plane / stern tube bearings Crankcase protection Charge air Turbine and gear bearings Uptake gas Steam Feed water Servo oil propeller pitch Cooling water outlet Purifiers Refrigeration systems Starting air
- Gland steam
 Hydraulic systems
 Condensing system
 Oil burner
 Main steam
 Generators
 Condensers
 Safety valves



FEATURES MGC-LOW

The MGC-LOW consists of 2 or 3 dual-scaled precision pressure gauges with ±1% F.S. accuracy and a hydraulic handpump fitted with hose, valve and couplings: delivered in a handy carrying case.

The pressure gauges are all dual-scaled in bar & kg/cm² and of a quality matching marine requirements.

The calibrator is easy to operate and the hydraulic pump very rapidly produces the required testing pressure.

The gauges provide the user with a clear indication of pressure for comparison to the system instrument. The operator can then identify the extent of any error; it is possible to compensate for or note the error and thereby only replace faulty pressure indicators.

FUNCTIONAL SPECIFICATIONS

Pressure specifications
MGC-LOW0 to 300 bar
Accuracy
MGC-LOW±1% F.S. of connected gauge
Pressure units
MGC-LOW bar and kg/cm ² , dual scale
Pressure medium
MGC-LOW Hydraulic oil
Shipping (+ std. accessories + carrying case)
Weight: MGC-LOW

- System 1: 6 and 16 bar & kg/cm² - System 2: 16 and 40 bar & kg/cm²

STANDARD DELIVERY MGC-LOW

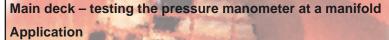
- System 3: 40 and 100 bar & kg/cm²
- System 4: 10, 40 and 300 bar & kg/cm²
- Carrying case, plastic
- T-620 hydraulic pump or T-620 H

2-3 gauges (select system)

- 1.64 ft (0.5 m) hose
- · BSP adapters:
 - Adaptor, 1/4" BSP male x 1/4"BSP male (60R115)
 - Adaptor, 1/4" BSP female x 1/4" BSP female (60R324)
 - Adaptor, 1/4" BSP female x 3/8" BSP female (60R325)
 - Adaptor, 1/2" BSP female x 1/4" BSP female (60R326)
 - Adaptor, 1/4" BSP female x 3/4" BSP female (60R327)
- Traceable calibration certificate
- User manual

ACCESSORIES

AUGES	JUNIES
102151	Precision gauge 0 to 6 bar - kg/cm ² , class 1
126319	Precision gauge 0 to 10 bar - kg/cm ² , class 1
102158	Precision gauge 0 to 16 bar - kg/cm ² , class 1
102165	Precision gauge 0 to 40 bar - kg/cm ² , class 1
102172	Precision gauge 0 to 100 bar - kg/cm ² , class 1
126320	Precision gauge 0 to 300 bar - kg/cm ² , class 1
AM-T-656	Service kit for T-620 and T-620H pumps
60R120	Bonded seal 1/4" BSP
65P175	1 meter, Pressure hose, (Max. 5.000psi / 350bar)
	* 1/4" BSP female to 1/4" BSP male
65P180	2 meter, Pressure hose, (Max. 5.000psi / 350bar)
	* 1/4" BSP female to 1/4" BSP male
601156	1.5 meter, Pressure hose, (Max. 10000psi / 700bar)
	* 1/4" BSP female to 1/4" BSP male
601157	5 meter, Pressure hose, (Max. 10000psi / 700bar)
	* 1/4" BSP female to 1/4" BSP male
60R155	Lloyds valve without clamp
60R160	Clamp for lloyds valve
	* Lloyds valve system part no. is 60R155 + 60R160
50-REP61	5 Quick connector set, female 1/4"BSP to 1/4" BSP



When the ship is unloading, a manometer is required on each loading hose to be able to read the pressure at frequent intervals. This is due to the fact that in the agreement made between the shipowner and the shipping agent it is usually required that the ship must hold 7 kg on the manifold or unload the cargo in max. 24 hours.



The owner saves money because he does not need to send the manometers ashore to be calibrated. At the same time, he is more likely to be able to convince his counterpart that the pressure read-out is correct, which again will justify payment of his demurrage.

FEATURES MGC-HIGH

The MGC-HIGH consists of 3 or 4 dual-scaled precision pressure gauges with $\pm 0.6\%$ F.S. accuracy and a hydraulic jack pump fitted with hose, valve and couplings: delivered in a handy carrying case.

The pressure gauges are all dual-scaled in bar & kg/cm² and of a quality matching marine requirements.

The gauges are easy to read and the hydraulic pump rapidly produces the required testing pressure.

The gauges provide the user with a clear indication of pressure for comparison to the system instrument. The operator can then identify the extent of any error; it is possible to compensate for or note the error and thereby only replace faulty pressure indicators.

FUNCTIONAL SPECIFICATIONS

Pressure specifications
MGC-HIGH0 to 300 bar
Accuracy
MGC-HIGH±0.6% F.S. of connected gauge
Pressure units
MGC-HIGH bar and kg/cm ² , dual scale
Pressure medium
MGC-HIGH Hydraulic oil







STANDARD DELIVERY MGC-HIGH

- 3-4 gauges (select system)
 - System 1: 6, 16 and 40 bar & kg/cm²
 - System 2: 10, 40, 100 and 300 bar & kg/cm²
 - System 3: 10, 40 and 100 bar & kg/cm²
 - System 4: 10, 40 and 300 bar & kg/cm²
- Carrying case, aluminium
- P-142 hydraulic pump
- 16.4 ft (5 m) hose
- BSP adapters:
 - Adaptor, 1/4" BSP male x 1/4"BSP male (60R115)

100403 Precision gauge 0 to 6 bar - kg/cm², class 0.6

- Adaptor, 1/4" BSP female x 1/4" BSP female (60R324)
- Adaptor, 1/4" BSP female x 3/8" BSP female (60R325)
- Adaptor, 1/2" BSP female x 1/4" BSP female (60R326)
- Adaptor, 1/4" BSP female x 3/4" BSP female (60R327)
- Traceable calibration certificate
- User manual

ACCESSORIES

100404	Precision gauge 0 to 10 bar - kg/cm ² , class 0.6
100405	Precision gauge 0 to 16 bar - kg/cm ² , class 0.6
100406	Precision gauge 0 to 40 bar - kg/cm ² , class 0.6
100409	Precision gauge 0 to 100 bar - kg/cm ² , class 0.6
100411	Precision gauge 0 to 300 bar - kg/cm ² , class 0.6
60R120	Bonded seal 1/4" BSP
601156	1.5 meter, Pressure hose, (Max. 10000psi / 700bar)
	* 1/4" BSP female to 1/4" BSP male
601157	5 meter, Pressure hose, (Max. 10000psi / 700bar)
	* 1/4" BSP female to 1/4" BSP male
60R155	Lloyds valve without clamp
60R160	Clamp for lloyds valve
	* Lloyds valve system is = 60R155 + 60R160
50-REP6	15 Quick connector set, female 1/4"BSP to 1/4" BSP

Type approval certificate

The MGC-HIGH and MGC-LOW are both type approved by Det Norske Veritas.



ORDERING INFORMATION

Model MGC-LOW Series

Order number Description

Base model number

MGC-LOW gauge calibrator

System

System 1 2 gauges: 6 and 16 bar/kg/cm²
System 2 2 gauges: 16 and 40 bar/kg/cm²
System 3 2 gauges: 40 and 100 bar/kg/cm²
System 4 3 gauges: 10, 40 and 300 bar/kg/cm²

MGC-LOW System 1 Sample order number

JOFRA MGC-LOW System 1 with 2 gauges: 6 and 16 bar / kg/cm² (dual-scale) and standard

accessories.

ORDERING INFORMATION

Model MGC-HIGH Series

 Order number
 Description

 Base model number

 MGC-HIGH
 MGC-HIGH gauge calibrator

 System

 System 1
 3 gauges: 6, 16 and 40 bar/kg/cm²

 System 2
 4 gauges: 10, 40, 100 and 300 bar/kg/cm²

 System 3
 3 gauges: 10, 40 and 100 bar/kg/cm²

MGC-HIGH System 1 Sample order number

System 4

JOFRA MGC-HIGH System 1 with 3 gauges: 6, 16 and 40 bar / kg/cm2 (dual-scale) and standard accessories.

3 gauges: 10, 40 and 300 bar/kg/cm²

accessories.





AMETEK Calibration Instruments

is one of the world's leading manufacturers and developers of calibration instruments for temperature, pressure and process signals as well as for temperature sensors both from a commercial and a technological point of view.

JOFRA Temperature Instruments

Portable precision thermometers. Dry-block and liquid bath calibrators: 4 series, with more than 25 models and temperature ranges from -90° to 1205°C / -130° to 2200°F. All featuring speed, portability, accuracy and advanced documenting functions with JOFRACAL calibration software.

JOFRA Pressure Instruments

Convenient electronic systems ranging from
-1 to 1000 bar (25 inHg to 14,500 psi) multiple choices of pressure ranges, pumps and
accuracies, fully temperature-compensated
for problem-free and accurate field use.

JOFRA Signal Instruments

Process signal measurement and simulation for easy control loop calibration and measurement tasks - from handheld field instruments to laboratory reference level bench top instruments.

JOFRA / JF Marine Instruments

A complete range of calibration equipment for temperature, pressure and signal, approved for marine use.

FP Temperature Sensors

A complete range of temperature sensors for industrial and marine use.

M&G Pressure Testers

Pneumatic floating-ball or hydraulic piston dead weight testers with accuracies to 0.015% of reading.

M&G Pumps

Pressure generators from small pneumatic "bicycle" style pumps to hydraulic pumps generating up to 1,000 bar (15,000 psi).

...because calibration is a matter of confidence



Contact:

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