

# Pressure Calibration Nitrogen Sources NPAK (3000 psi / 210 bar)



Zone Acticentre - Bâtiment H - 156/220  
Rue des Famards - CRT2 - CS 10210 - 59273 FRETIN  
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Self contained nitrogen source, regulator, precision fine adjust, hoses, gauge adapters and process connections provide a complete pressure control solution for doing nitrogen calibration of pressure instruments in remote locations.

## Features:

- Proprietary pressure balanced fine adjustment piston allows for extremely precise, finger-tip control of pressure at 0.03 psi (2 mbar) or 3000 psi (210 bar) or any range in between.
- Easily refillable nitrogen cylinder holds enough gas for multiple calibrations
- Nylon bag to hold hose and fittings attached to inside of lid
- Includes storage compartment in control panel for pressure reference test gauge
- Low volume Quick-test hose, gauge adapter and process connection can be attached to NPAK without thread sealant or a wrench
- Optional padded strap for field use (NPAK-STRP)
- Made in U.S.A.



(Reference gauge not included)

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Specifications		
NPAK connection type	National Pipe Thread (NPT)	British Parallel Thread (BSPP)*
Maximum pressure	3000 psi (210 bar)	3000 psi (210 bar)
Pressure media	Compressed nitrogen	Compressed nitrogen
Fine adjust resolution	± 0.0005 psi (0.035 mbar)	± 0.0005 psi (0.035 mbar)
Mechanical rotation	42 turn (pressure balanced)	42 turn (pressure balanced)
Operating temperature range	0° to 130°F (-18° to 56° C)	0° to 130°F (-18° to 56° C)
Cylinder capacity	15.3 ft <sup>3</sup> (430 l)	15.3 ft <sup>3</sup> (430 l)
Cylinder pressure gauge	2.5" (6.5 cm) psi / bar scale, ± 0.5% full scale accuracy	2.5" (6.5 cm) psi / bar scale, ± 0.5% full scale accuracy
Regulated pressure gauge	2.5" (6.5 cm) psi / bar scale, ± 0.5% full scale accuracy	2.5" (6.5 cm) psi / bar scale, ± 0.5% full scale accuracy
Over pressure relief	3200 psi (221 bar) relief pressure	3200 psi (221 bar) relief pressure
Reference connection (brass)	See below	See below
Quick-test hose 1 (brass ends)	6 ft (183 cm) long (QTQT-HOS-6')	2 m (6.6 ft) long (QTQT-HOS-2m)
Quick-test hose 2 (brass ends)	3 ft (92 cm) long (QTQT-HOS-3')	1 m (3.3 ft) long (QTQT-HOS-1m)
Process connection (brass)	(2) 1/4" male NPT (QTHA-2MB0)	(2) 1/4" female BSPP (QTHA-2FB0-RG)
Inlet port (stainless steel)	Male Quick-test with check-valve, cap and chain	Male Quick-test with check-valve, cap and chain
Outlet ports (stainless steel)	(2) Male Quick-test with cap, and chain	(2) Male Quick-test with cap, and chain
Construction	Aluminum, brass, plated steel	Aluminum, brass, plated steel
Internal connections	Stainless steel tubing, tube fittings	Stainless steel tubing, tube fittings
Case	Vented high impact ABS plastic	Vented high impact ABS plastic
Seal material	Buna-N, Teflon™, Delrin™	Buna-N, Teflon™, Delrin™
Dimensions	18.5 x 14.6 x 7.5 in (47 x 37 x 19 cm)	18.5 x 14.6 x 7.5 in (47 x 37 x 19 cm)
Weight	28.8 lb (13.0 kg)	28.8 lb (13.0 kg)

Ordering Information	
NPAK calibration source NPT connections	
Model	Description
NPAK-1MBA-6'-3'	1/8" male NPT gauge adapter (QTHA-1MBA), 2 hoses, 2 process connections
NPAK-2MBA-6'-3'	1/4" male NPT gauge adapter (QTHA-2MBA), 2 hoses, 2 process connections
NPAK-2FBA-6'-3'	1/4" female NPT gauge adapter (QTHA-2FBA), 2 hoses, 2 process connections
NPAK-0000-0-0	NPAK only, no gauge connection, no hoses, no process connections
NPAK calibration source BSPP connections*	
Model	Description
NPAK-2FBA-RG-2m-1m	1/4" female BSPP gauge adapter (QTHA-2FBA-RG), 2 hoses, 2 process connections
NPAK-3FBA-RG-2m-1m	3/8" female BSPP gauge adapter (QTHA-3FBA-RG), 2 hoses, 2 process connections
NPAK-4FBA-RG-2m-1m	1/2" female BSPP gauge adapter (QTHA-4FBA-RG), 2 hoses, 2 process connections

\* Not for sale in North American market

For accessories, repair kits and hoses see page 17. For a complete list of accessories and parts see product manual or detailed specification sheet. For a list of the most commonly used gauge and process connections see page 18. For a complete list refer to Ralston Instruments *Pressure Connection* catalog. Contact your Ralston Instruments dealer or the factory for information on reference gauges and pressure calibration kits.