

GGG-QBG Mobile

High-Pressure Safety Valve Calibration Bench



1. Structural features

- 1). Equipped with GGS-QBG gas booster, it can directly increase medium-pressure gas to high pressure.
- 2). This equipment does not require electricity, and the boosting and calibration systems are integrated. The calibration table and boosting table can be combined up and down to form a high-pressure mobile equipment, or they can be used separately and easily carried and moved.
- 3). Equipped with a hydraulic lifting work vehicle, it can lift the table to an ideal height, which is convenient for transportation and on-site operations
- 4). Equipped with a special aluminium alloy tool box, it is convenient to bring tools and calibration table accessories to the site for calibration.
- 5). The clamping force of 1-9 tons can be adjusted stepless according to different calibers and pressures.
- 6). Dual precision pressure gauge display, more accurate calibration.

- 7). The safety protection baffle with calibration high-pressure safety valve greatly improves the safety performance.
- 8). The pneumatic clamping structure is clean, fast, has a low failure rate, and is easy to operate.
- 9). The operating valve uses high-quality military valves.
- 10). The equipment is equipped with a safety valve with an automatic opening protection device for clamping overpressure.
- 11). The equipment frame and table are made of stainless steel.

2. Technical parameters

- 1). Calibration range: DN20~200mm
- 2). Maximum calibration pressure: 32MPa (320 bars)
- 3). This equipment adopts an adjustable clamping force structure, with a clamping force of 1 to 9 tons and stepless adjustment. When adjusted to the corresponding clamping pressure, the maximum pressure that can be calibrated for each gear diameter is shown in the table below:

Verifiable maximum pressure PS-MPa		Safety valves DN-mm							
		≤32	40	50	65	80	100	150	200
MPa (clamping Pressure)	0.5	8.5	6.0	4.5	2.6	2.0	1.2	0.8	0.4
	1.0	17.0	12.0	8.5	5.3	4.3	2.7	1.6	0.8
	1.5	26.0	18.0	13.2	8.0	6.5	4.1	2.5	1.2
	2.0	32.0	23.0	17.5	10.7	8.6	5.5	3.5	1.8
	2.5	32.0	30.0	22.0	13.0	10.8	6.9	4.2	2.5

Note: This check seat is an adjustable clamping force structure, which must be adjusted according to the diameter and cracking pressure of the safety valve to be calibrated. Otherwise, the clamping pressure is too high, which will damage the safety valve to be calibrated; the clamping pressure is too low, and the sealing requirements cannot be met. For details, see the above table.

4. Calibration accuracy: $\pm 0.4\%$

5. The calibration medium is nitrogen or clean compressed air, and the medium source is prepared by the user.

This equipment should not be used to test other valves.

3. Equipment Configuration

Description	Size	Qty
Test bench	Dimensions: 890×540×270mm Weight: 100kg	1 Set
Booster unit	Dimensions: 890×540×310 mm Weight: 64 kg	1 Set
Precision	0~1.6MPa、0~4.0MPa、0~16MPa、0~	2 pcs each
Clamping foot	New forged two-way clamping foot	1 pairs
Center pad	DN20、25、32、40、50、65、80、100、150、200	1 pcs each
Inch thread seat	ZG $\frac{1}{2}$ "、 $\frac{3}{4}$ "、1"、1 $\frac{1}{4}$ "、1 $\frac{1}{2}$ "、2"、2 $\frac{1}{2}$ "	1 pcs each
Metric thread seat	M27×1.5、M30×1.5、M33×1.5	1 pcs each
Transition pad	Blue	1 pcs
O-ring	Related Sizes	Total 30 pcs
External air	M16×1.5 、 M20×1.5 L=3.5 m	2 pcs
Close head		1 pcs
Safety guard		1 pcs
Hydraulic lift work	SP300	1 pcs
Toolbox	Aluminium Alloy	1 pcs



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Backup drive	Two-position three-way (large)	1 pcs
Backup reset	Two-position three-way (emergency stop switch)	1 pcs
Spare pinch valve	SF-5	1 pcs
Technical data	Instruction manual, certificate of conformity, pressure gauge calibration certificate	1 pcs