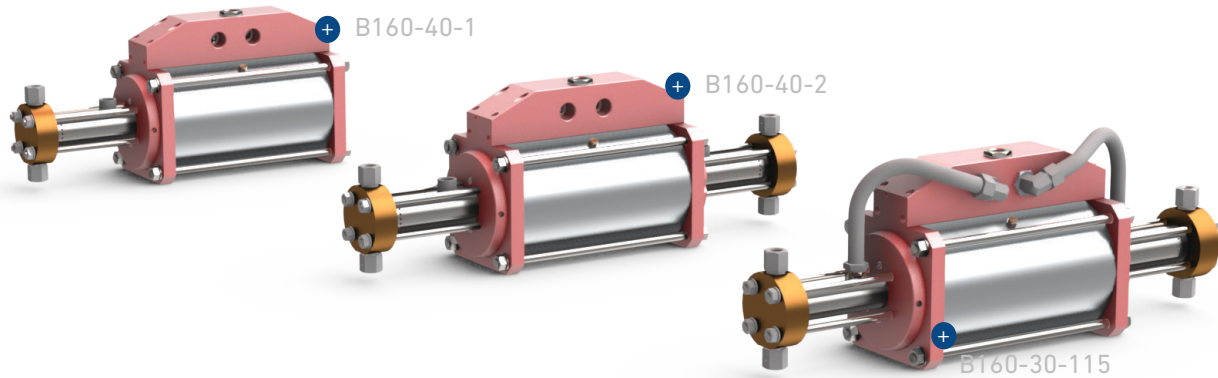


B-Series Air-driven gas boosters

Efficient. Quiet. Operator-friendly.

Resato



Outlet Pressure Range

18 - 1,330 bar
(260 - 19,285 psi)



Maintenance

developed for easy
maintenance



Media

Nitrogen, helium, CO₂, argon, flammable
gases, breathing air, and more

► The B-Series of air-driven gas boosters are suitable for several applications using nitrogen, helium, argon, breathing air, and more gases using special sealing technology. The high pressure compressors are used for pressure testing with gases, industrial gas process feeds, gas charging of accumulators and gas bottles, and other applications. Their long lifetime makes them ideal for applications in the automotive, gas processing, and offshore and onshore industry. The gas boosters are available in a single-acting, double-acting, and dual-stage version. Our experts can consult you on the best suitable booster for your application.

Benefits & Features

- Long seal lifetime based on dedicated engineered polymer compounds that are based on low-friction PTFE resins.
- Lifelong lubrication during assembly avoids lubricated air lines and reduce maintenance on the booster.
- Air drive section of the gas booster contains only a small amount of moving parts reducing wear and noise.
- Guaranteed lifelong operation due to the check valves from ceramic materials.
- Improved reliability and cycling speed due to the lack of mechanical pilot valves and long internal pilot channels.
- Reduced cost of ownership and maintenance downtime because the high pressure seal can be replaced without dismantling the air-drive section.
- Standard provided with vent holes to prevent gas from the high pressure gas section escaping to the air drive section. This ensures a safe operation.
- The V-shaped expansion ring reduces preload and reduces frictional resistance making the booster more efficient for operation and maintenance.

Application Areas

- Compression application for hydrogen, nitrogen, helium, xenon, and other gases
- Accumulator, cylinder, and bottle filling with gas
- Gas pressure testing for hoses and industrial objects
- Gas leak testing (e.g. bubble test) on automotive parts or oilfield equipment
- PRV gas testing and setting
- Accumulator and airbag charging
- High pressure supply for equipment calibration with gas
- Plastic injection molding
- And more

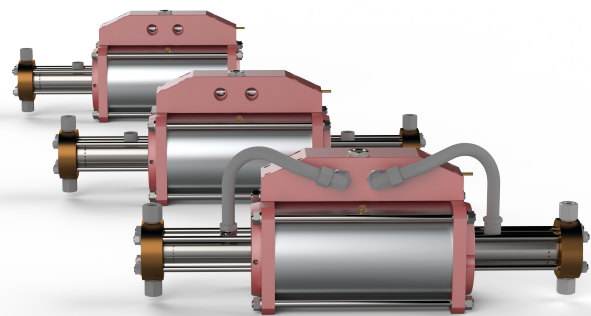


MADE
IN THE
NETHERLANDS

YOUR HIGH PRESSURE EXPERT.

Dimensions

Please contact us for dimensions of a specific gas booster.



Technical Information

Type	Pressure ratio	Max. compression ratio	Stroke volume ratio	Stroke volume	Minimal supply pressure (Ps)	Maximum supply pressure (Ps)	Actual gas outlet pressure (Po)	Max. outlet pressure (Po)	Gas supply connection	Outlet connection	Weight
up to 0-30 bar											
B160-2.5-1	2,5	1:10	-	785 cc	1,8 bar (26 psi)	18 bar (260 psi)	2,5xPa	18 bar (260 psi)	1/2" NPT-F	1/2" NPT-F	17,5 kg
B160-2.5-2	2,5	1:10	-	1570 cc	1,8 bar (26 psi)	18 bar (260 psi)	2,5xPa+Ps	18 bar (260 psi)	1/2" NPT-F	1/2" NPT-F	22 kg
B200-2.5-2	2,5	1:10	-	2450 cc	1,8 bar (26 psi)	18 bar (260 psi)	2,5xPa+Ps	18 bar (260 psi)	1/2" NPT-F	1/2" NPT-F	29 kg
B200-4-2	4	1:10	-	1570 cc	2,8 bar (40 psi)	28 bar (405 psi)	4xPa+Ps	28 bar (405 psi)	1/2" NPT-F	1/2" NPT-F	29 kg
up to 50 bar											
B160-5-1	5	1:15	-	385 cc	2,4 bar (35 psi)	35 bar (510 psi)	5xPa	35 bar (510 psi)	1/2" NPT-F	1/2" NPT-F	17,5 kg
B160-5-2	5	1:15	-	770 cc	2,4 bar (35 psi)	35 bar (510 psi)	5xPa+Ps	35 bar (510 psi)	1/2" NPT-F	1/2" NPT-F	22 kg
B160-2.5-5	1:2,5 / 1:5	1:35	1:2	785 cc	1,3 bar (19 psi)	2,5xPa	5xPa+2xPs	45 bar (650 psi)	1/2" NPT-F	1/2" NPT-F	22 kg
B200-2.5-4	1:2,5 / 1:4	1:35	1:1,6	1225 cc	1,3 bar (19 psi)	4,2xPa	4xPa+1,6xPs	45 bar (650 psi)	1/2" NPT-F	1/2" NPT-F	29 kg
up to 120 bar											
B200-8-2	8	1:15	-	770 cc	3,8 bar (55 psi)	55 bar (795 psi)	8xPa+Ps	55 bar (795 psi)	1/2" NPT-F	1/2" NPT-F	29 kg
B160-10-1	10	1:15	-	200 cc	4,8 bar (70 psi)	70 bar (1015 psi)	10xPa	70 bar (1015 psi)	1/2" NPT-F	1/2" NPT-F	17,5 kg
B160-10-2	10	1:15	-	400 cc	4,7 bar (68 psi)	70 bar (1015 psi)	10xPa+Ps	70 bar (1015 psi)	1/2" NPT-F	1/2" NPT-F	22 kg
B160-15-2	15	1:15	-	250 cc	7,4 bar (110 psi)	110 bar (1595 psi)	15xPa+Ps	110 bar (1595 psi)	1/4" NPT-F	1/4" NPT-F	22 kg
B200-15-2	15	1:15	-	400 cc	7,4 bar (110 psi)	110 bar (1595 psi)	15xPa+Ps	110 bar (1595 psi)	1/2" NPT-F	1/2" NPT-F	29 kg
B160-15-1	15	1:15	-	125 cc	7,5 bar (110 psi)	115 bar (1670 psi)	15xPa	115 bar (1670 psi)	1/4" NPT-F	1/4" NPT-F	17,5 kg
B160-5-15	1:5 / 1:15	1:50	1:3	385 cc	2,3 bar (33 psi)	2,5xPa	15xPa+3xPs	115 bar (1670 psi)	1/2" NPT-F	1/4" NPT-F	22 kg
B200-4-15	1:4 / 1:15	1:60	1:3,8	785 cc	1,9 bar (30 psi)	4xPa	15xPa+3,8xPs	115 bar (1670 psi)	1/2" NPT-F	1/2" NPT-F	29 kg
up to 250 bar											
B200-25-2	25	1:15	-	250 cc	11,6 bar (170 psi)	175 bar (2540 psi)	25xPa+Ps	175 bar (2540 psi)	1/4" NPT-F	1/4" NPT-F	29 kg
B160-30-1	30	1:15	-	70 cc	13,3 bar (190 psi)	210 bar (3050 psi)	30xPa	210 bar (3050 psi)	1/4" NPT-F	1/4" NPT-F	17,5 kg
B160-30-2	30	1:15	-	140 cc	13,2 bar (190 psi)	210 bar (3050 psi)	30xPa+Ps	210 bar (3050 psi)	1/4" NPT-F	1/4" NPT-F	22 kg
B160-5-30	1:5 / 1:30	1:100	1:6	385 cc	2,0 bar (30 psi)	1xPa	30xPa+6xPs	210 bar (3050 psi)	1/2" NPT-F	1/4" NPT-F	22 kg
B160-15-30	1:15 / 1:30	1:30	1:2	125 cc	8,3 bar (120 psi)	15xPa	30xPa+2xPs	250 bar (3625 psi)	1/4" NPT-F	1/4" NPT-F	22 kg
up to 350 bar											
B160-40-1	40	1:15	-	50 cc	19,1 bar (275 psi)	285 bar (4130 psi)	40xPa	285 bar (4130 psi)	M16x1,5 HP-F	M16x1,5 HP-F	17,5 kg
B160-40-2	40	1:15	-	100 cc	18,9 bar (275 psi)	285 bar (4130 psi)	40xPa+Ps	285 bar (4130 psi)	M16x1,5 HP-F	M16x1,5 HP-F	22 kg
B200-45-2	45	1:15	-	140 cc	20,6 bar (300 psi)	310 bar (4495 psi)	45xPa+Ps	310 bar (4495 psi)	1/4" NPT-F	1/4" NPT-F	29 kg
B200-15-45	1:15 / 1:45	1:40	1:3	200 cc	8,1 bar (115 psi)	7,5xPa	45xPa+3xPs	325 bar (4715 psi)	1/2" NPT-F	1/4" NPT-F	29 kg
up to 500 bar											
B160-65-2	65	1:15	-	60 cc	29,6 bar (430 psi)	450 bar (6525 psi)	65xPa+Ps	450 bar (6525 psi)	M16x1,5 HP-F	M16x1,5 HP-F	22 kg
B200-65-2	65	1:15	-	100 cc	29,7 bar (430 psi)	450 bar (6525 psi)	65xPa+Ps	450 bar (6525 psi)	M16x1,5 HP-F	M16x1,5 HP-F	29 kg
B160-65-1	65	1:15	-	30 cc	29,9 bar (435 psi)	450 bar (6525 psi)	65xPa	450 bar (6525 psi)	M16x1,5 HP-F	M16x1,5 HP-F	17,5 kg
B160-15-65	1:15 / 1:65	1:60	1:4	125 cc	7,5 bar (110 psi)	4,5xPa	65xPa+4xPs	450 bar (6525 psi)	1/4" NPT-F	M16x1,5 HP-F	22 kg
B200-15-65	1:15 / 1:65	1:55	1:4,3	200 cc	8,2 bar (120 psi)	4,5xPa	65xPa+4,3xPs	450 bar (6525 psi)	1/2" NPT-F	M16x1,5 HP-F	29 kg
B200-25-65	1:25 / 1:65	1:40	1:2,6	125 cc	12,2 bar (175 psi)	15,6xPa	65xPa+2,6xPs	485 bar (7030 psi)	1/4" NPT-F	M16x1,5 HP-F	29 kg
up to 800 bar											
B160-30-65	1:30 / 1:65	1:30	1:2	70 cc	17,8 bar (260 psi)	25,5xPa	65xPa+2xPs	535 bar (7760 psi)	1/4" NPT-F	M16x1,5 HP-F	22 kg
B200-100-2	100	1:15	-	60 cc	46,4 bar (670 psi)	695 bar (10080 psi)	100xPa+Ps	695 bar (10080 psi)	M16x1,5 HP-F	M16x1,5 HP-F	29 kg
B200-25-100	1:25 / 1:100	1:60	1:4	125 cc	11,8 bar (170 psi)	8,3xPa	100xPa+4xPs	710 bar (10295 psi)	1/4" NPT-F	M16x1,5 HP-F	29 kg
B200-45-100	1:45 / 1:100	1:60	1:2,3	70 cc	2,3 bar (12 psi)	34xPa	100xPa+2,3xPs	725 bar (10295 psi)	1/4" NPT-F	M16x1,5 HP-F	29 kg
B160-115-2	115	1:15	-	36 cc	52,6 bar (760 psi)	790 bar (11455 psi)	115xPa+Ps	800 bar (11600 psi)	M16x1,5 HP-F	M16x1,5 HP-F	22 kg
B160-115-1	115	1:15	-	18 cc	53,1 bar (770 psi)	800 bar (11600 psi)	115xPa	800 bar (11600 psi)	M16x1,5 HP-F	M16x1,5 HP-F	17,5 kg
B160-30-115	1:30 / 1:115	1:50	1:4	70 cc	16,1 bar (230 psi)	10,5xPa	115xPa+4xPs	805 bar (11670 psi)	1/4" NPT-F	M16x1,5 HP-F	22 kg
up to 1350 bar											
B160-180-2	180	1:15	-	22,6 cc	82,2 bar (1190 psi)	1235 bar (17910 psi)	180xPa+Ps	1260 bar (18270 psi)	M16x1,5 HP-F	M16x1,5 HP-F	22 kg
B200-180-2	180	1:15	-	36 cc	82,5 bar (1195 psi)	1235 bar (17910 psi)	180xPa+Ps	1260 bar (18270 psi)	M16x1,5 HP-F	M16x1,5 HP-F	29 kg
B160-180-1	180	1:15	-	11,3 cc	83 bar (1200 psi)	1245 bar (17910 psi)	180xPa	1260 bar (18270 psi)	M16x1,5 HP-F	M16x1,5 HP-F	17,5 kg
B160-30-180	1:30 / 1:180	1:80	1:6	70 cc	15,6 bar (225 psi)	6xPa	180xPa+6xPs	1330 bar (19285 psi)	1/4" NPT-F	M16x1,5 HP-F	22 kg
B160-65-180	1:65 / 1:180	1:40	1:3	30 cc	33,3 bar (480 psi)	36xPa	180xPa+3xPs	1330 bar (19285 psi)	M16x1,5 HP-F	M16x1,5 HP-F	22 kg
B200-65-180	1:65 / 1:180	1:60	1:2,8	50 cc	22,2 bar (320 psi)	36,7xPa	180xPa+2,8xPs	1330 bar (19285 psi)	M16x1,5 HP-F	M16x1,5 HP-F	29 kg

Note: Air supply pressure is 1-7 bar (14-100 psi); Air supply connection for all booster models is 3/4" BSP-F

Options

- ATEX version available
- Greaseless assembly (e.g. Xenon applications)

Since 1991.

Resato is a Dutch provider of smart high pressure solutions with the aim to increase the productivity of its worldwide customers. We develop and manufacture waterjet cutting systems as well as components and systems for pressure testing, injection, and controlling up to 14,000 bars with the mission to meet and exceed the expectations of our customers. Since 2017, we are developing hydrogen filling solutions and high pressure equipment.

YOUR HIGH PRESSURE EXPERT.

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Resato International B.V.
Duitslandlaan 1
9403 DL Assen
Netherlands

✉ info@resato.com
☎ +31 (0) 50 501 6877