

Resato air-driven gas booster unit Type DBS up to 1200 bar



Example DBS-series

The Resato portable gas booster unit, Type DBS is designed to generate high gas pressures up to 1200 bar.

Main features:

- Suitable for a wide range of gases
- Long working life of seals
- Proven reliability under severe conditions
- Excellent control of flow and output pressure
- Low noise level
- Easy, low costs maintenance.

Functioning:

Resato gas booster units type DBS can be used for gas filling and pressure testing. Compressed air used as a power drive offers enormous advantages over use of other power drives: risk of excessive heat, flame, spark or shock are reduced considerably.

All components, including required connecting materials and tubing are mounted in a solid stainless steel frame. The Resato gas booster unit type DBS is manufactured according to European regulations and will be delivered including:

- Operating manual, Maintenance manual and spare parts manual
- Test certificate
- Calibration certificates for gauges.

Standard equipped with:

- Single-acting, double-acting or two-stage gas booster
- Bleed valve
- Output pressure gauge, stainless steel 100 mm
- Start stop valve
- Air regulator.

Options:

- Pneumatic high pilot valve
- Pneumatic low pilot valve
- Gas supply valve
- Gas supply gauge
- Inter stage gauge.
- Air relieve valve in air supply
- Common leak hole connection
- Atex.

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Please note that general data and specifications given in this brochure are subject to change without notice.

Feel free to contact our sales department if you need more definite information.

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Resato

HIGH PRESSURE TECHNOLOGY



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)	Air drive pressure (Pa)	Air supply connection	Gas supply connection	Outlet connection	Weight
up to 0-30 bar													
DBS160-2.5-1	2,5	1:10	-	785 cc	1,8 bar (26 psi)	18 bar (260 psi)	2,5xPa	18 bar (260 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	1/2" NPT-F	35 kg
DBS160-2.5-2	2,5	1:10	-	1570 cc	1,8 bar (26 psi)	18 bar (260 psi)	2,5xPa+Ps	18 bar (260 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	1/2" NPT-F	40 kg
DBS200-2.5-2	2,5	1:10	-	2450 cc	1,8 bar (26 psi)	18 bar (260 psi)	2,5xPa+Ps	18 bar (260 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	1/2" NPT-F	48 kg
DBS200-4-2	4	1:10	-	1570 cc	2,8 bar (40 psi)	28 bar (405 psi)	4xPa+Ps	28 bar (405 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	1/2" NPT-F	48 kg
up to 50 bar													
DBS160-5-1	5	1:15	-	385 cc	2,4 bar (35 psi)	35 bar (510 psi)	5xPa	35 bar (510 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	1/2" NPT-F	35 kg
DBS160-5-2	5	1:15	-	770 cc	2,4 bar (35 psi)	35 bar (510 psi)	5xPa+Ps	35 bar (510 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	1/2" NPT-F	40 kg
DBS160-2.5-5	1:2,5 / 1:5	1:35	1:2	785 cc	1,3 bar (19 psi)	2,5xPa	5xPa+2xPs	45 bar (650 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	1/2" NPT-F	40 kg
DBS200-2.5-4	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)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	1/2" NPT-F	48 kg
up to 120 bar													
DBS200-8-2	8	1:15	-	770 cc	3,8 bar (55 psi)	55 bar (795 psi)	8xPa+Ps	55 bar (795 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	1/2" NPT-F	48 kg
DBS160-10-1	10	1:15	-	200 cc	4,8 bar (70 psi)	70 bar (1015 psi)	10xPa	70 bar (1015 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	1/2" NPT-F	35 kg
DBS160-10-2	10	1:15	-	400 cc	4,7 bar (68 psi)	70 bar (1015 psi)	10xPa+Ps	70 bar (1015 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	1/2" NPT-F	40 kg
DBS160-15-2	15	1:15	-	250 cc	7,4 bar (110 psi)	110 bar (1595 psi)	15xPa+Ps	110 bar (1595 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/4" NPT-F	1/4" NPT-F	40 kg
DBS200-15-2	15	1:15	-	400 cc	7,4 bar (110 psi)	110 bar (1595 psi)	15xPa+Ps	110 bar (1595 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	1/2" NPT-F	48 kg
DBS160-15-1	15	1:15	-	125 cc	7,5 bar (110 psi)	115 bar (1670 psi)	15xPa	115 bar (1670 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/4" NPT-F	1/4" NPT-F	35 kg
DBS160-5-15	1:5 / 1:15	1:50	1:3	385 cc	2,3 bar (33 psi)	2,5xPa	15xPa+3xPs	115 bar (1670 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	1/4" NPT-F	40 kg
DBS200-4-15	1:4 / 1:15	1:60	1:3,8	785 cc	1,9 bar (30 psi)	1,5xPa	15xPa+3,8xPs	115 bar (1670 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	1/2" NPT-F	48 kg
up to 250 bar													
DBS200-25-2	25	1:15	-	250 cc	11,6 bar (170 psi)	175 bar (2540 psi)	25xPa+Ps	175 bar (2540 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/4" NPT-F	1/4" NPT-F	48 kg
DBS160-30-1	30	1:15	-	70 cc	13,3 bar (190 psi)	200 bar (2900 psi)	30xPa	200 bar (2900 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/4" NPT-F	1/4" NPT-F	35 kg
DBS160-30-2	30	1:15	-	140 cc	13,2 bar (190 psi)	200 bar (2900 psi)	30xPa+Ps	200 bar (2900 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/4" NPT-F	1/4" NPT-F	40 kg
DBS160-5-30	1:5 / 1:30	1:100	1:6	385 cc	2,0 bar (30 psi)	1xPa	30xPa+6xPs	200 bar (2900 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	1/4" NPT-F	40 kg
DBS160-15-30	1:15 / 1:30	1:30	1:2	125 cc	8,3 bar (120 psi)	15xPa	30xPa+2xPs	250 bar (3625 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/4" NPT-F	1/4" NPT-F	40 kg
up to 350 bar													
DBS160-40-1	40	1:15	-	50 cc	19,1 bar (275 psi)	285 bar (4130 psi)	40xPa	285 bar (4130 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	M16x1,5 HP-F	M16x1,5 HP-F	35 kg
DBS160-40-2	40	1:15	-	100 cc	18,9 bar (275 psi)	285 bar (4130 psi)	40xPa+Ps	285 bar (4130 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	M16x1,5 HP-F	M16x1,5 HP-F	40 kg
DBS200-45-2	45	1:15	-	140 cc	20,6 bar (300 psi)	310 bar (4495 psi)	45xPa+Ps	310 bar (4495 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/4" NPT-F	1/4" NPT-F	48 kg
DBS200-15-45	1:15 / 1:45	1:40	1:3	200 cc	8,1 bar (115 psi)	7,5xPa	45xPa+3xPs	325 bar (4715 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	1/4" NPT-F	48 kg
up to 500 bar													
DBS160-65-2	65	1:15	-	60 cc	29,6 bar (430 psi)	445 bar (6450 psi)	65xPa+Ps	445 bar (6450 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	M16x1,5 HP-F	M16x1,5 HP-F	40 kg
DBS200-65-2	65	1:15	-	100 cc	29,6 bar (430 psi)	445 bar (6450 psi)	65xPa+Ps	445 bar (6450 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	M16x1,5 HP-F	M16x1,5 HP-F	48 kg
DBS160-65-1	65	1:15	-	30 cc	29,9 bar (435 psi)	450 bar (6450 psi)	65xPa	450 bar (6450 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	M16x1,5 HP-F	M16x1,5 HP-F	35 kg
DBS160-15-65	1:15 / 1:65	1:60	1:4	125 cc	7,5 bar (110 psi)	4,5xPa	65xPa+4xPs	450 bar (6450 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/4" NPT-F	M16x1,5 HP-F	40 kg
DBS200-15-65	1:15 / 1:65	1:55	1:4,3	200 cc	8,2 bar (120 psi)	4,5xPa	65xPa+4,3xPs	450 bar (6450 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/2" NPT-F	M16x1,5 HP-F	48 kg
DBS200-25-65	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)	1-7 bar (14-100 psi)	1/2" BSP-F	1/4" NPT-F	M16x1,5 HP-F	48 kg
up to 800 bar													
DBS160-30-65	1:30 / 1:65	1:30	1:2	70 cc	17,8 bar (260 psi)	25,5xPa	65xPa+2xPs	535 bar (7760 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/4" NPT-F	M16x1,5 HP-F	40 kg
DBS200-100-2	100	1:15	-	60 cc	46,4 bar (670 psi)	695 bar (10080 psi)	100xPa+Ps	695 bar (10080 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	M16x1,5 HP-F	M16x1,5 HP-F	48 kg
DBS200-25-100	1:25 / 1:100	1:60	1:4	125 cc	11,8 bar (170 psi)	8,3xPa	100xPa+4xPs	710 bar (10295 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/4" NPT-F	M16x1,5 HP-F	48 kg
DBS200-45-100	1:45 / 1:100	1:60	1:2,3	70 cc	2,3 bar (12 psi)	34xPa	100xPa+2,3xPs	725 bar (10295 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/4" NPT-F	M16x1,5 HP-F	48 kg
DBS160-115-2	115	1:15	-	36 cc	52,6 bar (760 psi)	790 bar (11455 psi)	115xPa+Ps	790 bar (11455 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	M16x1,5 HP-F	M16x1,5 HP-F	40 kg
DBS160-115-1	115	1:15	-	18 cc	53,1 bar (770 psi)	800 bar (11.600 psi)	115xPa	800 bar (11.600 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	M16x1,5 HP-F	M16x1,5 HP-F	35 kg
DBS160-30-115	1:30 / 1:115	1:50	1:4	70 cc	16,1 bar (230 psi)	10,5xPa	115xPa+4xPs	805 bar (11670 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/4" NPT-F	M16x1,5 HP-F	40 kg
up to 1350 bar													
DBS160-180-2	180	1:15	-	22,6 cc	82,2 bar (1190 psi)	1235 bar (17910 psi)	180xPa+Ps	1235 bar (17910 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	M16x1,5 HP-F	M16x1,5 HP-F	40 kg
DBS200-180-2	180	1:15	-	36 cc	82,5 bar (1195 psi)	1235 bar (17910 psi)	180xPa+Ps	1235 bar (17910 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	M16x1,5 HP-F	M16x1,5 HP-F	48 kg
DBS160-180-1	180	1:15	-	11,3 cc	83 bar (1200 psi)	1245 bar (17910 psi)	180xPa	1245 bar (17910 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	M16x1,5 HP-F	M16x1,5 HP-F	35 kg
DBSB160-30-180	1:30 / 1:180	1:80	1:6	70 cc	15,6 bar (225 psi)	6xPa	180xPa+6xPs	1250 bar (18125 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	1/4" NPT-F	M16x1,5 HP-F	40 kg
DBS160-65-180	1:65 / 1:180	1:40	1:3	30 cc	33,3 bar (480 psi)	36xPa	180xPa+3xPs	1330 bar (19285 psi)	1-7 bar (14-100 psi)	1/2" BSP-F	M16x1,5 HP-F	M16x1,5 HP-F	40 kg
DBS200-65-180	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)	1-7 bar (14-100 psi)	1/2" BSP-F	M16x1,5 HP-F	M16x1,5 HP-F	48 kg

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