Instruction - Parts

VerderAir Pump Runaway Valve

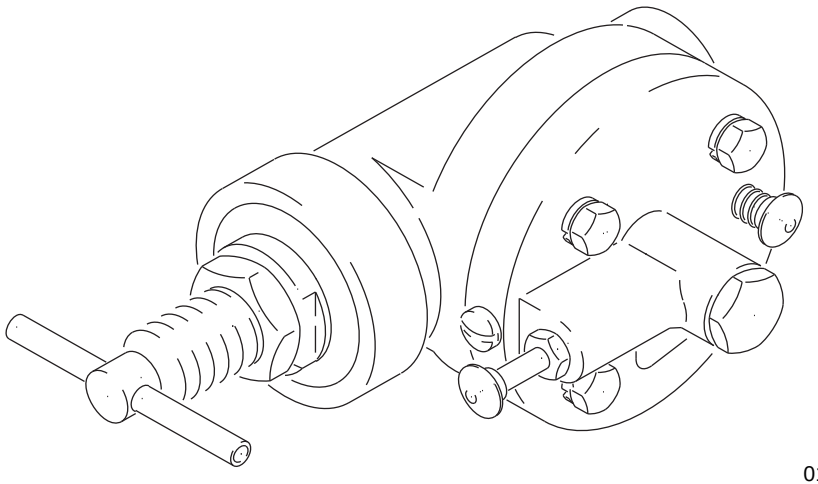
859.0535
Rev. B
EN

A control device used to shut off pump air supply if a runaway condition is detected. For professional use only.

Part No. 819.0064, Series B

120 psi (0.83 MPa, 8.3 bar) Maximum Working Pressure

Important Safety Instructions
Read all warnings and instructions in this manual.
Save these instructions.



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Contents

Warnings

WARNING

EQUIPMENT MISUSE HAZARD

Equipment misuse can cause the equipment to rupture or malfunction and result in serious injury.

- This equipment is for professional use only.
- Read all instruction manuals, tags, and labels before operating the equipment.
- This valve is for use only with compressed air. It is not designed for use with any other power source. Do not use any other gas or fluid in the runaway valve.
- Use the equipment only for its intended purpose. If you are not sure, call Verder Technical Assistance.
- Do not alter or modify equipment.
- Check equipment daily. Repair or replace worn or damaged parts immediately.
- Test the runaway valve periodically and perform routine maintenance and cleaning. See page 5.
- Do not exceed the maximum working pressure of the lowest rated system component. See **Technical Data** in all equipment manuals.
- Wear hearing protection when operating this equipment.
- Comply with all applicable safety regulations.

Installation

Reference letters and numbers in the text refer to FIG. 1 and FIG. 2 and the Parts Drawing.

Install an air filter (A) to remove harmful dirt and moisture from the compressed air supply. Install a main air shutoff valve (B) to isolate the runaway valve for servicing. If you supply your own accessories, be sure they are adequately sized and pressure-rated to meet the system's requirements.

The Typical Installation shown in FIG. 1, is only an example. Contact your Verder representative or Verder Technical Assistance for assistance in designing a system to meet your particular needs.

Install one runaway valve for each pump; the valve will control only one pump.

PRESSURIZED EQUIPMENT HAZARD
This valve is used in a pressurized air line. Relieve the air pressure in the line when installing, removing, or servicing this valve or any other items attached to this valve.

Installing the Runaway Valve

Fig. 1 shows the runaway valve (D) used with a drum-mounted pump. When used with low air flows, the runaway valve operates more reliably installed between the air regulator (A) and the air motor. Use the 90° swivel adapter (E, supplied) to connect the runaway valve outlet to the air line.

Signal Port (See FIG. 2)

When the runaway valve trips, the signal port (S) is pressurized. This air pressure will operate a pilot-operated valve to turn on a remote device such as a signal lamp or alarm. The pressure at this port will be 15% less than the inbound air pressure. *The volume of air passing through the port will be low.*

When no remote sensor is being used, this port is plugged with a screw (3).

Key

A	Air Line Filter/Regulator
B	Main Air Shutoff Valve
C	Bleed-Type Master Air Valve (required, for pump)
D	Pump Runaway Valve
E	Runaway Valve Swivel (supplied)
F	Fluid Drain Valve

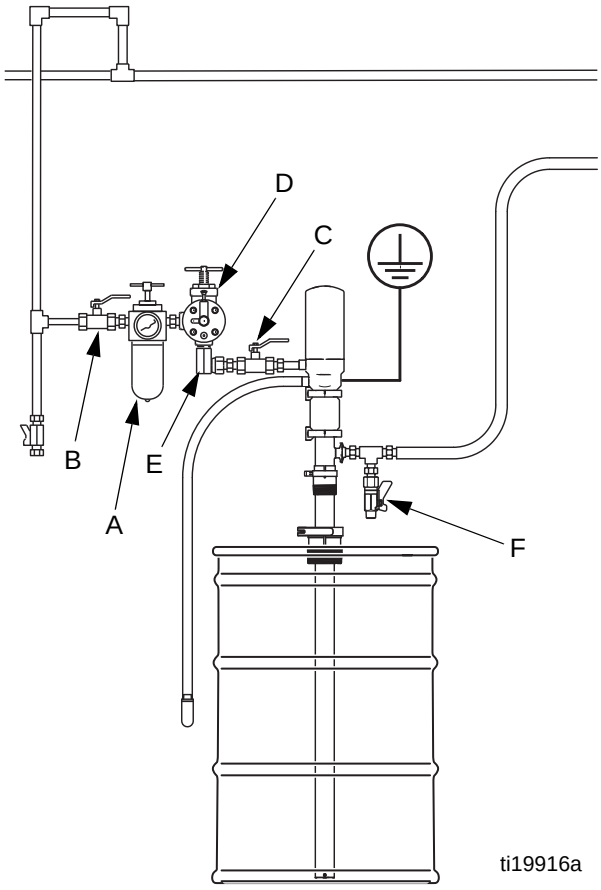
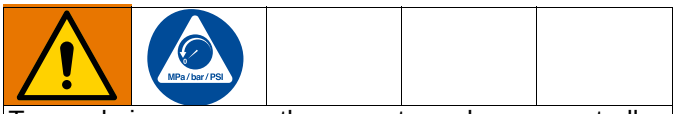


FIG. 1. Typical Installation

Operation

Pressure Relief Procedure

Follow the Pressure Relief Procedure whenever you see this symbol.



Trapped air can cause the pump to cycle unexpectedly, which could result in serious injury from splashing.

1. Shut off the air supply to the valve.
2. Close the bleed-type master air valve.

Causes of a Runaway Pump

Pump runaway refers to a rapid acceleration in pump speed, which can result in serious damage to the pump parts caused by overheating and scoring. Conditions which can cause pump runaway are:

- The fluid supply container is empty, or the fluid supply has been interrupted.
- The pump is cavitating, which means that it has lost its prime because an air pocket has formed around the pump intake. This happens most frequently with highly viscous fluids.
- A fluid hose downstream from the pump has ruptured, resulting in an increased pump cycle rate.

The runaway valve may also trip if changes to the system result in an increased cycle rate. For example, if you increase the number of gun drops, you should readjust the valve to account for the increased cycle rate.

When in a runaway condition, the pump requires much more air than during normal operation. The runaway valve senses this rapid increase in the volume of air being used and greatly reduces the air flow, stopping pump operation.

NOTE: The sudden surge of air when starting the pump may cause the valve to trip. Turn on the air slowly, or readjust the valve.

Adjusting the Valve

1. Loosen the adjustment locknut (24). See FIG. 2.
2. Check that the T-handle (2) is turned all the way **counterclockwise**.
3. Open the dispensing valve or trigger the spray gun.
4. Slowly open the main air shutoff valve (B), the air regulator (A), and the bleed-type master air valve (C). See FIG. 1.

NOTE: A faint hissing sound from the runaway valve is normal. The valve vents a small amount of air from the poppet vent (H) during operation.

5. Adjust the pump to the desired regulated air pressure and cycle rate.
6. Turn the T-handle (2) **clockwise** until the runaway valve trips. Press and hold the RESET valve (R); you will feel pressure on the RESET valve. Turn the handle (2) **counterclockwise** (approximately 1 to 5 turns) until pressure on the RESET valve decreases. Release the RESET valve.

NOTE: At low pressure or a slow cycle rate, perform step 6, then turn the T-handle (2) **clockwise** until you feel a slight pressure pushing on the the RESET valve (R). (Turn it approximately half the counterclockwise distance in step 6.) This may take several tries to achieve the proper setting.

7. Tighten the locknut (24).
8. Test the runaway valve as described in the following paragraph.

Testing the Valve

Test the runaway valve periodically, to ensure proper operation. To test, press the TEST valve (T). The runaway valve should trip. Start the pump by pressing the RESET valve (R) and holding it in for 5 seconds.

Dirt and debris in the compressed air supply may collect in the runaway valve and affect operation. If the runaway valve does not operate properly when tested, disassemble and clean the valve as explained on page 8.

Resetting the Valve

1. Determine the condition that caused the runaway valve to trip. Correct the condition.
2. If the air was shut off, turn it back on slowly. A sudden surge of air will cause the runaway valve to trip.
3. Press the RESET valve (R) and hold it in for 5 seconds. The pump should restart.

NOTE: In some installations, particularly where there is low air volume, it may be necessary to turn off the air supply to reset the valve.

△1 Shown plugged with screw.

△2 Not in view.

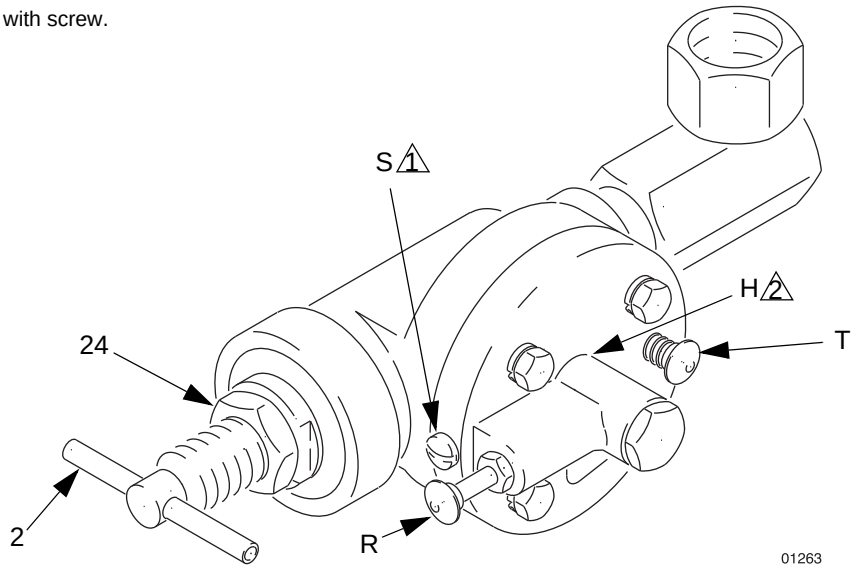


FIG. 2.

Troubleshooting

Problem	Cause	Solution
Valve does not slow down pump when it should; pump runs away	Valve is not adjusted properly.	Readjust valve and test. See page 5.
	Ruptured diaphragm. (If diaphragm is ruptured, the TEST button will have no effect.)	Replace the diaphragm. See page 8.
	Decreased air pressure has caused pump speed to decrease.	Readjust valve and test. See page 5.
	Piston is stuck.	Disassemble and clean valve. Replace o-rings. See page 8.
	Poppet valve (11, 14, 15) is stuck closed.	Disassemble and clean poppet valve. See page 8.
Constant blast of air from vent when air supply is turned on	Poppet valve (11, 14, 15) is stuck open.	Disassemble and clean poppet valve. See page 8.
Valve shuts down for no apparent reason	Increased air pressure has caused pump speed to increase.	Readjust valve and test. See page 5.
	Interrupted or exhausted fluid supply.	Check fluid supply and ensure that it remains constant.
	Valve is not adjusted properly.	Readjust valve and test. See page 5.
	Decreased pump outlet pressure.	Check for properly adjusted fluid outlet pressure.
	Defective poppet valve.	Check and repair. See page 8.
	Air supply was turned on too quickly.	Press RESET valve.
	Air leaking around TEST valve.	Replace TEST valve.
Valve does not reset when RESET valve is pressed	Piston is stuck; no air is escaping from vent.	Disassemble and clean runaway valve. See page 8.
	Air blowing from poppet vent.	Remove RESET valve. Clean needle and seat area. See page 8.
	Valve is not adjusted properly.	Readjust valve and test. See page 5.
	Poppet vent hole plugged.	Disassemble and clean poppet valve. See page 8.

Service

Tools Required

- 10 mm socket wrench
- 11/16” socket wrench
- Adjustable wrench
- Torque wrench
- 1” crow’s-foot
- 1/2” (13 mm) brass rod, or a press
- Mallet
- Small needle-nose pliers
- O-ring pick
- Thread lubricant
- Lithium-base grease

Disassembly

(See **Parts** on page 10)

Repair kit 859.0537 is available to service the diaphragm and o-rings. For best results, use all parts in the kit. Parts included in the kit are marked with an asterisk (for example, 4*).

1. Relieve the pressure. Tighten the locknut (24) to lock the valve at its current adjustment. Remove the runaway valve from the air line.
2. Place the valve in a vise with the T-handle (2) facing left and the poppet valve cap (25) facing upward. Unscrew the adapter (34) from the valve outlet.
3. Using an adjustable wrench on the flats, unscrew the stem guide (17) from the lower housing (22). The adjustment screw (21) will come free with the stem guide and connecting parts.
4. Reach into the valve outlet and push out the piston (18). Remove the o-rings (6, 36) from the piston.
5. Insert a brass rod into the valve outlet so it contacts the valve body (16). Tap the rod with a mallet to unseat the valve body. (This can also be done with a press.) Push the valve body out of the housing (22).
6. Remove the o-rings (5, 7) from the valve body (16). Remove the gasket (13) from the housing (22).
7. Using an 11/16” socket wrench, loosen but do not remove the cap (25) from the upper housing (23).
8. Unscrew the valve housing (19) and pull the RESET valve assembly out of the upper housing (23).

The RESET valve assembly is press-fit together. Do not disassemble it unless the needle (20) or valve housing (19) require replacement.

the TEST valve assembly (items 11, 12, 32 and 33) is also press-fit together. Do not disassemble it unless it is leaking and the parts require replacement.

9. Using a 10 mm socket wrench, remove the four screws (9) and lockwashers (1). Pull the upper housing (23) away from the lower housing (22). Remove the diaphragm (27).
10. Unscrew the cap (25) from the upper housing (23). Remove the gasket (10) from the cap. Remove the poppet valve spring (11). Push down on the poppet so the dowel pin (8) protrudes from the hole on the inside of the housing (23). Grasp the dowel pin (8) with a needle-nose pliers and pull it out of the housing.
11. Remove the poppet (14), push pin (15), and o-ring (4) from the upper housing (23).
12. Clean all parts and inspect for damage. Be sure to clean all air passages, cavities, and surfaces.

Reassembly

(See **Parts** on page 10)

1. Place the lower housing (22) in a vise. Install the diaphragm (27*) in the lower housing so the larger center plate of the diaphragm is facing outward. Align the four large holes in the diaphragm with the four threaded holes in the housing.

2. Lubricate the dowel pin (8). Working from the inside of the upper housing (23), insert the pin (8) into the small center hole. Push the pin all the way in, so it is flush with the surface of the housing.

3. Install the upper housing (23) so the boss (marked RESET) is oriented as shown, and the four holes are aligned with the holes in the diaphragm (27) and lower housing (22). Assemble the two housings using the four screws (9) and lockwashers (1). Using a 10 mm socket wrench, torque to 50–70 in-lb (5.6–7.9 N-m).

4. Grease the o-ring (4*) and install it on the push pin (15). Install the valve poppet (14*) on the barbed end of the push pin. Insert these parts into the center hole of the upper housing (23), with the poppet (14) facing outward.

5. Install the spring (11*) in the upper housing (23) and seat it on the poppet (14). Install the gasket (10*) on the spring retainer cap (25). Apply lithium base grease to the threads of the retainer cap. Screw the cap into the housing using an 11/16” socket wrench, and torque to 50–70 in-lb (5.6–7.9 N-m).

6. Install the RESET valve in the upper housing. Tighten the valve housing (19) to secure.

7. Install the gasket (13*) into the lower housing (22), making sure it seats on the inside shoulder.

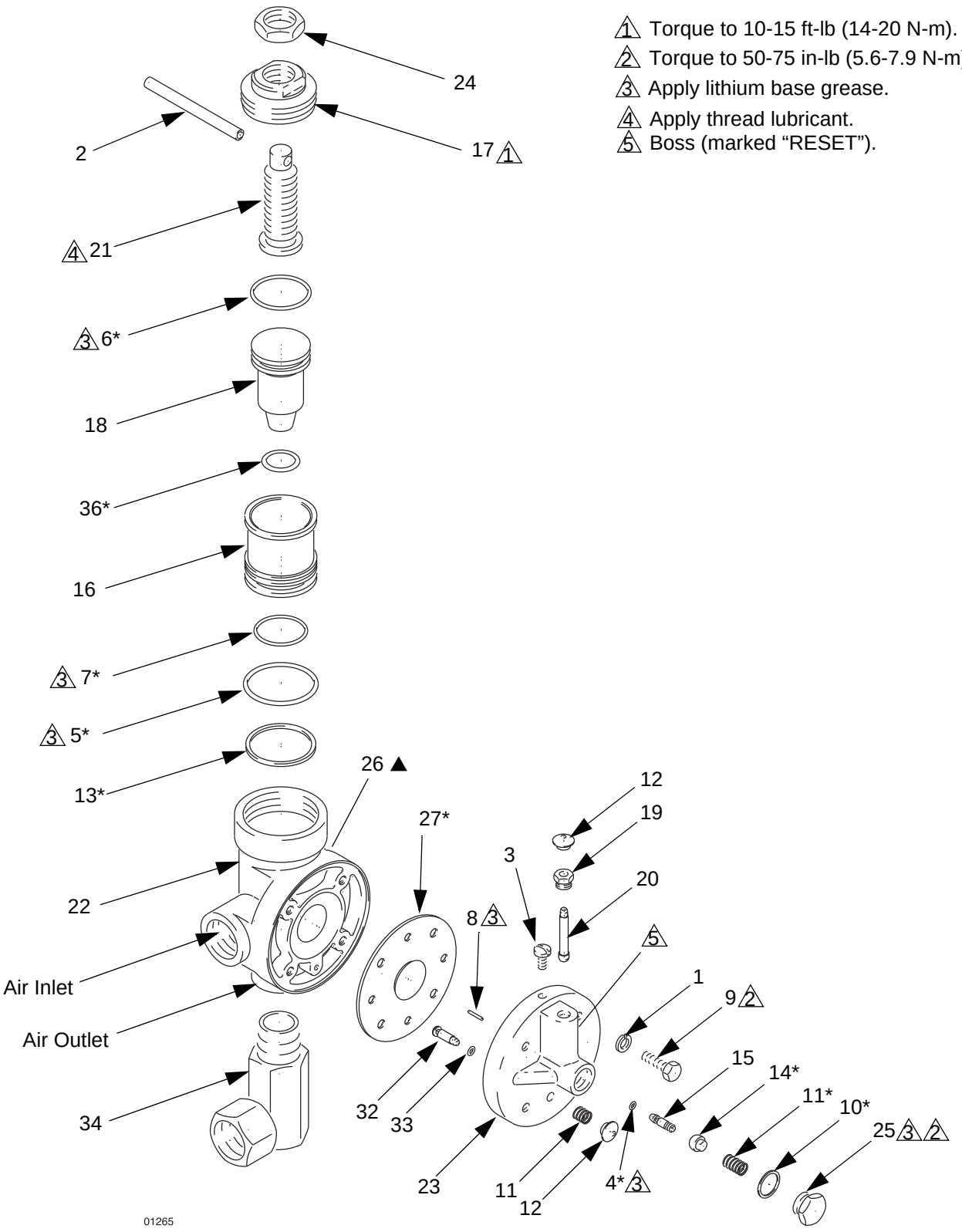
8. Grease the two o-rings (5*, 7*). Install the larger o-ring (5*) in the outside groove of the valve body (16), and the smaller o-ring (7*) in the inside groove. Slide the valve body into the lower housing (22), with the end holding the o-rings facing into the housing. Use a brass rod and mallet (or a press) to seat the valve body securely in the housing.

9. Grease the large piston o-ring (6*), but not the other (36*). Install the two o-rings in the grooves of the piston (18). Slide the piston into the valve body (16), with the narrow end facing inward. Push the piston into the valve body as far as it will go.

10. Apply thread lubricant and turn the adjustment screw (21) all the way **counterclockwise**, then install it and the stem guide (17) in the lower housing (22). Use a 1” crow’s-foot to torque the guide to 10–15 ft-lb (14–20 N-m), so its shoulder is flush with the surface of the housing.

11. Screw the adapter (34) into the valve outlet. Reinstall the runaway valve in the air line. Adjust and test the valve as described on page 5.

Parts


1 Torque to 10-15 ft-lb (14-20 N-m).
2 Torque to 50-75 in-lb (5.6-7.9 N-m).
3 Apply lithium base grease.
4 Apply thread lubricant.
5 Boss (marked “RESET”).
24
2
17 1
4 21
3 6*
18
36*
16
3 7*
3 5*
13*
26 ▲
27*
22
Air Inlet
Air Outlet
34
32
33
23
11
12
4* 3
8 3
3
12
19
20
5
1
9 2
15
14*
11*
10*
25 3 2
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Parts List

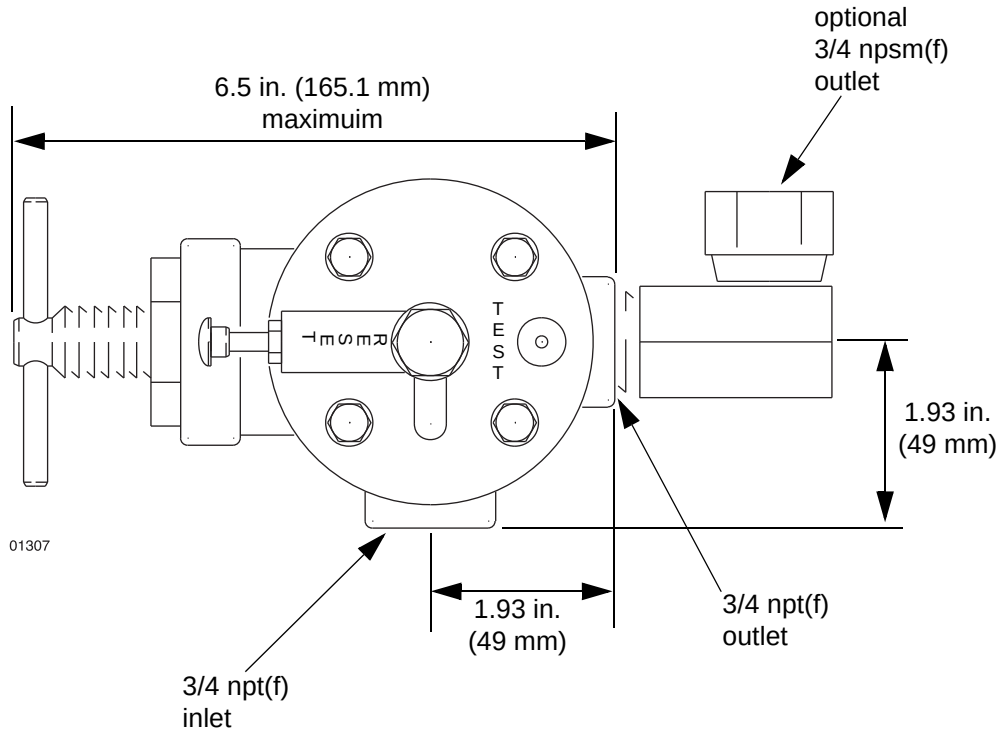
Model 819.0064, Series B
Includes items 1-36

Ref.	Description	Qty.
1	LOCKWASHER, spring; 1/4”	4
2	PIN, spring, straight	1
3	SCREW, machine; 10–32 unf–2a; 0.375” (9.5 mm) long	1
4*	O-RING; buna-N	1
5*	O-RING; buna-N	1
6*	O-RING; nitrile	1
7*	O-RING; buna-N	1
8	PIN, dowel	1
9	SCREW, cap, hex hd; M6 x 1; 20 mm long	4
10*	GASKET; copper	1
11*	SPRING, compression	2
12	PUSHBUTTON	2
13*	GASKET; PTFE	1
14*	POPPET, valve	1
15	PIN, push	1
16	BODY, valve	1
17	GUIDE, stem	1
18	PISTON	1
19	HOUSING, valve	1
20	NEEDLE, valve	1
21	SCREW, adjustment	1
22	HOUSING, valve, lower	1
23	HOUSING, valve, upper	1
24	NUT, jam, hex; 3/4–32 un–2b	1
25	CAP, spring retainer	1
26▲	LABEL, warning	1
27*	DIAPHRAGM	1
32	NEEDLE, valve	1
33	O-RING	1
34	ADAPTER, swivel; 3/4 npt(m) x 3/4 npsm(f)	1
36*	O-RING; buna-N	1

* *These parts are included in Repair Kit 859.0537, which may be purchased separately.*

▲ *Replacement Warning labels, signs, tags, and cards are available at no cost.*

Dimensions


optional
3/4 npsm(f)
outlet
6.5 in. (165.1 mm)
maximuim
TEST
TEST
1.93 in.
(49 mm)
01307
1.93 in.
(49 mm)
3/4 npt(f)
outlet
3/4 npt(f)
inlet

Technical Data

Maximum air input pressure	120 psi (0.84 MPa, 8.4 bar)
Air pressure operating range	20-120 psi (0.14-0.84 MPa, 1.4-8.4 bar)
Air volume range	5-250 cfm (0.14-7.0 m^3/min
Maximum operating temperature	150°F (65.5°C)
* Sound Power	Less than 70 dBa
Air inlet	3/4 npt(f)
Air outlet	
Without swivel attached	3/4 npt(f)
With swivel attached	3/4 npsm(f)
Weight	
Without swivel attached	2 lb. 5 oz. (1.05 kg)
With swivel attached	3 lb. (1.36 kg)

** Sound power measured per ISO-3744.*

EU-DECLARATION OF CONFORMITY

EU-CONFORMITEITSVERKLARING, DÉCLARATION UE DE CONFORMITÉ, EU-KONFORMITÄTSERKLÄRUNG DICHIARAZIONE DI CONFORMITÀ UE, EU-OVERENSSTEMMELSESERKLÆRING, ΔΉΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ΕΕ, DECLARAÇÃO UE DE CONFORMIDADE, DECLARACIÓN UE DE CONFORMIDAD, EU-VAATIMUSTENMUKAISUUSVAKUUTUS, EU-FÖRSÄKRAN OM ÖVERENSSTÄMMELSE, EU PROHLÁŠENÍ O SHODĚ, ELI VASTAVUSDEKLARATSIOON, EU-MEGFELELŐSÉGI NYILATKOZAT, ES ATBILSTĪBAS DEKLARĀCIJA, ES ATITIKTIES DEKLARACIJA DEKLARACJA ZGODNOŚCI UE, DIKJARAZZJONI TA' KONFORMITÀ TAL-UE, EU IZJAVA O SUKLADNOSTI, EÚ VYHLÁSENIE O ZHODE, ЕС ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ, DECLARAȚIA UE DE CONFORMITATE

Model

Modèle, Modell, Modello, Μοντέλο, Modelo, Malli, Mudel, Modelis, Mudell, Модел, Samhail

Runaway Valve

Part

Bestelnr., Type, Teil, Codice, Del, Μέρος, Peça, Referencia, Osa, Součást, Részegység, Daļa, Dalis, Część, Taqsima, Časť, Част, Páirt, Parte

819.0064

Complies With The EC Directives:

Voldoet aan de EG-richtlijnen, Conforme aux directives CE, Entspricht den EG-Richtlinien, Conforme alle direttive CE, Overholder EF-direktiverne, Σύμφωνα με τις Οδηγίες της ΕΚ, Em conformidade com as Directivas CE, Cumple las directivas de la CE, Täyttää EY-direktiivien vaatimukset, Uppfyller EG-direktiven, Shoda se směrnicemi ES, Vastab EÜ direktiividele, Kielégíti az EK irányelvek követelményeit, Atbilst EK direktīvām, Atitinka šias ES direktyvas, Zgodność z Dyrektywami UE, Konformi mad-Direttivi tal-KE, V skladu z direktivami ES, Je v súlade so smernicami ES, Съвместимост с Директиви на ЕО, Tá ag teacht le Treoracha an CE, Respectă directivele CE

2006/42/EC Machinery Safety Directive

Standards Used:

Gebruikte maatstaven, Normes respectées , Verwendete Normen, Norme applicate, Anvendte standarder , Πρότυπα που χρησιμοποιήθηκαν, Normas utilizadas, Normas aplicadas, Sovellettavat standardit, Tillämpade standarder, Použité normy, Rakendatud standardid, Alkalmazott szabványok, Izmantotie standarti, Taikyti standartai, Użyte normy, Standards Użati, Uporabljeni standardi, Použité normy, Използвани стандарти, Caighdeáin arna n-úsáid , Standarde utilizate

ISO 12100

Notified Body for Directive

Aangemelde instantie voor richtlijn , Organisme notifié pour la directive , Benannte Stelle für diese Richtlinie, Ente certificatore della direttiva, Bemyndiget organ for direktiv , Διακοινωμένο όργανο Οδηγίας, Organismo notificado relativamente à directiva, Organismo notificado de la directiva, Direktiivin mukaisesti ilmoitettu tarkastuslaitos, Anmält organ för direktivet, Úředně oznámený orgán pro směrnici, Teavitatud asutus (direktiivi järgi), Az irányelvvel kapcsolatban értesített testület, Pilnvarotā iestāde saskaņā ar direktīvu, Apie direktyvą Informuota institucija, Ciało powiadomione dla Dyrektywy, Korp avżat bid-Direttiva, Priglašeni organ za direktivo, Notifikovaný orgán pre smernicu, Нотифициран орган за Директива, Comhlacht ar tugadh fógra dó , Organism notificat în conformitate cu directiva

Approved By:

Goedgekeurd door, Approuvé par, Genehmigt von, Approvato da, Godkendt af , Έγκριση από, Aprovado por, Aprobado por, Hyväksynyt, Intygas av, Schválil, Kinnitanud, Jóváhagyta, Apstiprināts, Patvirtino, Zatwierdzone przez, Approvat minn, Odobril, Schválené, Одобрено от, Faofa ag, Aprobat de

23 February 2017

Werner Bosman
Managing Director

VERDER BV
Leningradweg 5
9723 TP Groningen
NETHERLANDS

859.0536	B

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Customer Services/Guarantee

CUSTOMER SERVICES

If you require spare parts, please contact your local distributor, providing the following details:

- Model
- Type
- Serial Number, and
- Date of First Order.

GUARANTEE

All VERDER pumps are warranted to the original user against defects in workmanship or materials under normal use (rental use excluded) for two years after purchase date. This warranty does not cover failure of parts or components due to normal wear, damage or failure which in the judgement of VERDER arises from misuse.

Parts determined by VERDER to be defective in material or workmanship will be repaired or replaced.

LIMITATION OF LIABILITY

To the extent allowable under applicable law, VERDER's liability for consequential damages is expressly disclaimed. VERDER's liability in all events is limited and shall not exceed the purchase price.

WARRANTY DISCLAIMER

VERDER has made an effort to illustrate and describe the products in the enclosed brochure accurately; however, such illustrations and descriptions are for the sole purpose of identification and do not express or imply a warranty that the products are merchantable, or fit for a particular purpose, or that the products will necessarily conform to the illustration or descriptions.

PRODUCT SUITABILITY

Many regions, states and localities have codes and regulations governing the sale, construction, installation and/or use of products for certain purposes, which may vary from those in neighboring areas. While VERDER attempts to assure that its products comply with such codes, it cannot guarantee compliance, and cannot be responsible for how the product is installed or used. Before purchasing and using a product, please review the product application as well as the national and local codes and regulations, and be sure that product, installation, and use complies with them.

Original instructions. This manual contains English.
Revision B, February 2017

Austria
Verder Austria
Eitnergasse 21/Top 8
A-1230 Wien
AUSTRIA
Tel: +43 1 86 51 074 0
Fax: +43 1 86 51 076
e-mail: office@verder.at

Belgium
Verder nv
Kontichsesteenweg 17
B–2630 Aartselaar
BELGIUM
Tel: +32 3 877 11 12
Fax: +32 3 877 05 75
e-mail: info@verder.be

China
Verder Shanghai Instruments and Equipment Co., Ltd
Building 8 Fuhai Business Park No. 299
Bisheng Road, Zhangjiang Hiteck Park
Shanghai 201204
CHINA
Tel: +86 21 33932950
Fax: +86 21 33932955
e-mail: info@verder.cn

Bulgaria
Verder Bulgaria Ltd
Vitosh department,
Manastriski Livadi Zapad district,
110 Bulgaria Blvd., 2-nd Floor, apt. 15-16,
1618 - Sofia
BULGARIA
Tel: 0878407370
Fax: 02 9584085
email: office@verder.bg

Czech Republic
Verder s.r.o.
Vodnanská 651/6 (vchod Chlumecka 15)
198 00 Praha 9-Kyje
CZECH REPUBLIC
Tel: +420 261 225 386-7
Web: http://www.verder.cz
e-mail: info@verder.cz

Denmark
Verder A/S
Sales Denmark
Leningradweg 5
NL 9723 TP Groningen
THE NETHERLANDS
Tel: +45 3636 4600
e-mail: info@verder.dk

France
Verder France
Parc des Bellevues,
Rue du Gros Chêne
F–95610 Eragny sur Oise
FRANCE
Tel: +33 134 64 31 11
Fax: +33 134 64 44 50
e-mail: verder-info@verder.fr

Germany
Verder Deutschland GmbH
Retsch-Allee 1-5
42781 Haan
GERMANY
Tel: 02104/2333-200
Fax: 02104/2333-299
e-mail: info@verder.de

Hungary
Verder Hongary Kft
Budafoke ut 187 - 189
HU-1117 Budapest
HUNGARY
Tel: 0036 1 3651140
Fax: 0036 1 3725232
e-mail: info@verder.hu

India
Verder India Pumps Pvt Ltd.
Plot No-3B, D-1 Block,
MIDC Chinchwad,
Pune - 411019
INDIA
e-mail:
Sales@verder.co.in
www.verder.co.in

Italy
Verder Italia
Via Maestri Del lavoro, 5
02100 Vazia, Rieti
ITALY
Tel: +39 07 46 229064
e-mail: info@verder.it

The Netherlands
Verder BV
Leningradweg 5
NL 9723 TP Groningen
THE NETHERLANDS
Tel: +31 50 549 59 00
Fax: +31 50 549 59 01
e-mail: info@verder.nl

Poland
Verder Polska
ul.Ligonia 8/1
PL–40 036 Katowice
POLAND
Tel: +48 32 78 15 032
Fax: +48 32 78 15 034
e-mail: verder@verder.pl

Romania
Verder România
Drumul Balta Doamnei no 57-61
Sector 3
CP 72-117
032624 Bucuresti
ROMANIA
Tel: +40 21 335 45 92
Fax: +40 21 337 33 92
e-mail: office@verder.ro

Slovak Republik
Verder Slovakia s.r.o.
Silacska 1
SK-831 02 Bratislava
SLOVAK REPUBLIK
Tel: +421 2 4463 07 88
Fax: +421 2 4445 65 78
e-mail: info@verder.sk

South Africa
Verder SA
197 Flaming Rock Avenue
Northlands Business Park
Newmarket Street
ZA Northriding
SOUTH AFRICA
Tel: +27 11 704 7500
Fax: +27 11 704 7515
e-mail: info@verder.co.za

Switzerland
Verder Deutschland GmbH
Sales Switzerland
Retsch-Allee 1–5
D-42781 Haan
GERMANY
Tel: +41 (0)61 331 33 13
Fax: +41 (0)61 331 63 22
e-mail: info@verder.ch

United Kingdom
Verder UK Ltd.
Unit 3 California Drive
Castleford, WF10 5QH
UNITED KINGDOM
Tel: +44 (0) 1924 221 001
Fax: +44 (0) 1132 465 649
e-mail: info@verder.co.uk

United States of America
Verder Inc.
312 Corporate Parkway
Suite 101
Macon, GA 31210
USA
Tel: +1 877 783 7337
Fax: +1 478 476 9867
e-mail: sales@verder-us.com