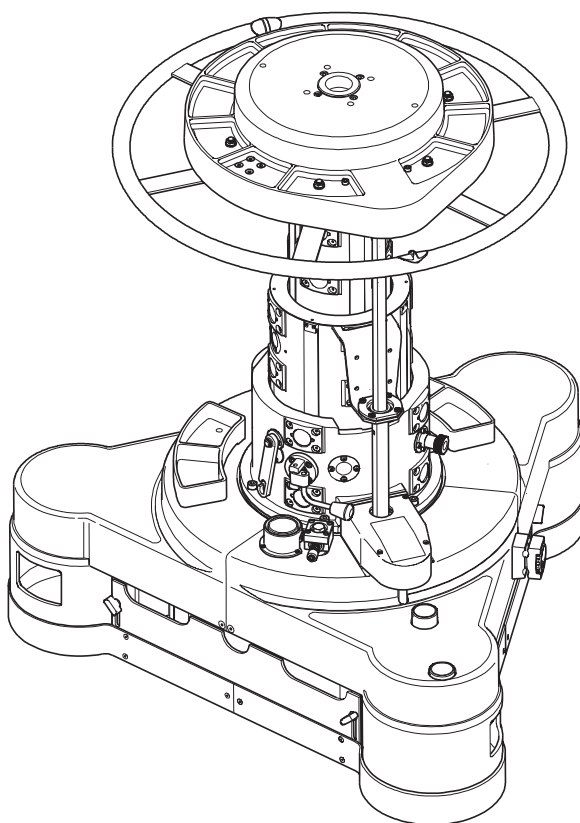




Fulmar



Pedestal





Fulmar

PEDESTAL

3702

MAINTENANCE MANUAL AND ILLUSTRATED PARTS LIST

PUBLICATION PART No. 3702-9

ISSUE 14

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Foreword

This manual provides full and detailed maintenance and spare parts information for the Vinten® Fulmar pedestal. The Fulmar pedestal is an obsolete product and this Maintenance Manual is provide for the final production version.



WARNING!: Read the Safety Section on [page 5](#) before using this pedestal or attempting any adjustment or repair.

It is recommended that this manual is read carefully and the illustrations studied prior to operating or servicing the pedestal. Attention to the details contained herein will ensure that the pedestal will operate efficiently with the minimum of attention over a long service life. Particular attention must be paid to cleaning, especially after use in adverse conditions.

To order spare parts or to obtain further information, application should be made to Vinten Broadcast Limited or to your local distributor, or visit our website at www.vinten.com.



Notes to readers

This is an on-line version of 'Fulmar Pedestal Maintenance Manual' (3702-9). The Fulmar pedestal is an obsolete product and this Maintenance Manual is provide for the final production version.

Navigation

Clicking the mouse on any [blue text](#) will move you around the document. For example, if you click on one of the blue call-outs on an exploded drawing, you will be taken to the appropriate line in the relevant parts list.

[Contents](#)

Clicking here will take you to the Contents Page.



Clicking here will take you to the first page.



Clicking here will take you to the previous page.



Clicking here will take you to the next page.



Click here to go back to the previous view.

Alternatively, you may use the Acrobat Reader navigation buttons.

Safety - Read This First!

Warning symbols in this maintenance manual



Where there is a risk of personal injury, injury to others, or damage to the pedestal or associated equipment, comments appear, highlighted by the word **WARNING!** and supported by the warning triangle symbol.

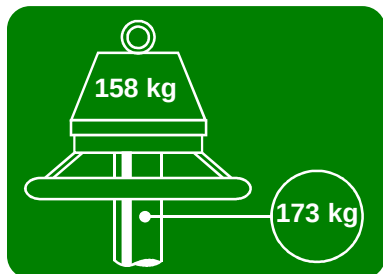
Warning symbols on the pedestal



On encountering the warning triangle and open book symbols it is imperative that you consult this maintenance manual before using this pedestal or attempting any adjustment or repair.

Critical data

Mass



Pedestal 173 kg (383 lb)

Trim weights (total) 7.5 kg (16.5 lb)

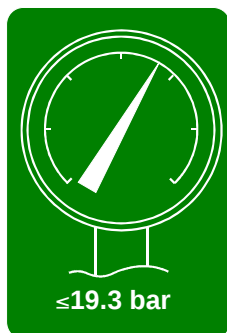
Load

Minimum Load 23 kg (50 lb)

Maximum Load 158 kg (350 lb)

Pressure

Maximum pressure 19.3 bar (280 psi)



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Abbreviations

The following abbreviations are used in this publication:

ac	alternating current	lb	pound (weight)
A	Amps	LF	Lubricated Friction
AF	across flats	LH	left hand
A/R	as required	MISO	metric thread
ASME	American Society of Mech Engineers	m	metre
assy	assembly	mm	millimetre
BS	British Standard	N	Newton
BA	British Association thread	NPT	National Pipe thread
BSF	British Standard Fine thread	NI	not illustrated
BSP	British Standard Parallel Pipe thread	No.	number
BSW	British Standard Whitworth thread	OD	outside diameter
btn	button	PCB	printed circuit board
chs	cheese	PCD	pitch circle diameter
C of G	centre of gravity	pozi	Pozidriv
comp	compression	psi	pounds per square inch
csk	countersunk	pt	point
cu	cubic	PTFE	Polytetrafluoroethylene
c/w	complete with	PVC	Polyvinyl chloride
dc	direct current	RH	right hand
dia	diameter	sect	section
ft	foot	skt	socket
hd	head	SWG	standard wire gauge
hex	hexagon	thk	thick
Hz	Hertz (frequency)	UNC	Unified Coarse thread
IC	integrated circuit	UNF	Unified Fine thread
ID	inside diameter	V	Volts
in.	inch	W	Watts
kg	kilogram		

Technical Specification

NOTE: The drawings in this section are provided only as a guide to construction and material in the pressurized parts of the pedestal. They should NOT be used for dismantling and assembly or the ordering of spare parts. Please refer to [Section 5 - Repair](#) or [Section 6 - Illustrated Parts List](#).

Weight 173 kg (383 lb)

Overall Dimensions

Maximum height 149.5 cm (59 in.)

On-shot stroke 77 cm (30 in.)

Doorway width

Minimum 86.5 cm (34 in.)

Maximum 99 cm (39 in.)

Payload

Minimum 23 kg (50 lb)

Maximum 158 kg (350 lb)

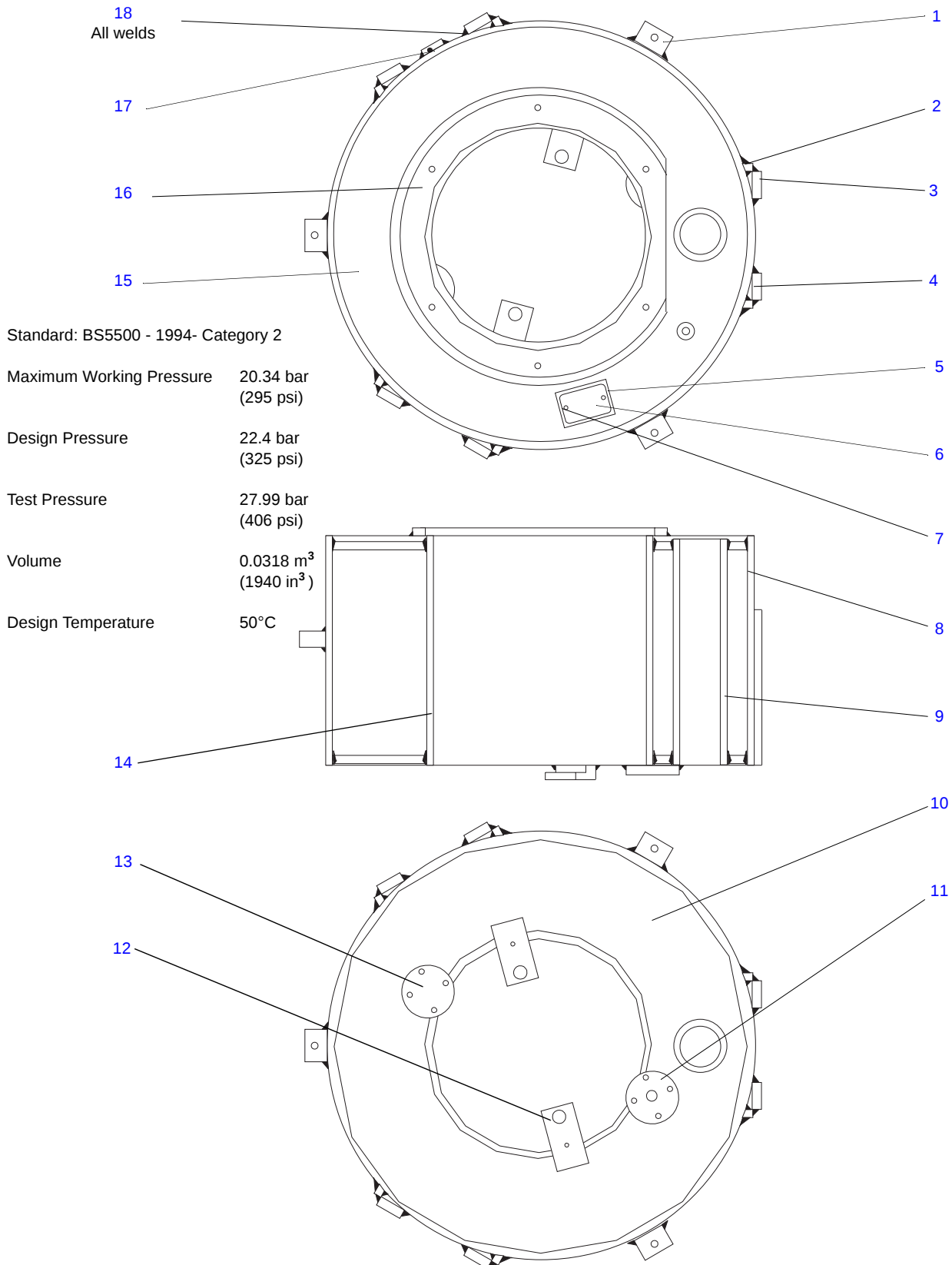
Pneumatic system

Maximum Working Pressure 20.34 bar (295 psi)

Design Pressure 22.4 bar (325 psi)

Test Pressure 27.99 bar (406 psi)

Pressure Tank Assembly (Part No. 3702-42)



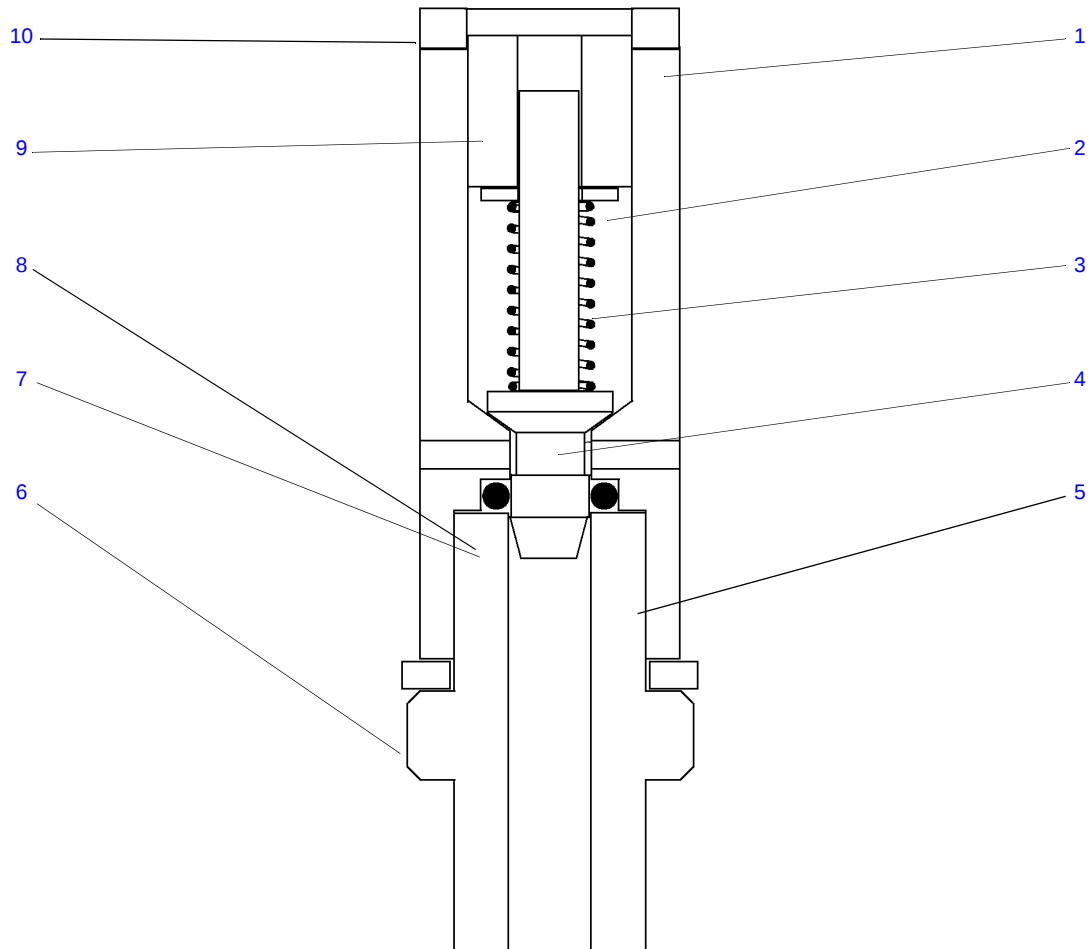


Pressure Tank Assembly (Part No. 3702-42)

Item	Name	Qty	Material
1	Pad	3	Mild steel to BS970 non-lead bearing
2	Packing strip	6	Mild steel to BS970 non-lead bearing
3	Leg mounting (RH)	3	Mild steel to BS970 non-lead bearing
4	Leg mounting (LH)	3	Mild steel to BS970 non-lead bearing
5	Mounting block	1	Mild steel to BS970 non-lead bearing
6	Nameplate	1	22 SWG Aluminium sheet
7	Hammerdrive screw	2	Type U hardened, 00 x 1/8 in.
8	Outer shell	1	20 in. OD x 1/4 in. thick mild steel plate to BS1501-151 GR403A *
9	Tube	1	2 3/8 in. OD x 3/16 in. wall steel tube to BS1501-HFS S360 *
10	End plate (lower)	1	19 7/16 in. x 1/2 in. thick mild steel plate to BS1501-151 GR403A *
11	Pad	1	Mild steel to BS970 non-lead bearing
12	Anchor plate	2	Mild steel to BS970 non-lead bearing
13	Pad	1	Mild steel to BS970 non-lead bearing
14	Inner shell	1	10 3/4 in. OD x 1/4 in. wall steel tube to BS1501-HFS S360 *
15	End plate (upper)	1	19 7/16 in. x 1/2 in. thick mild steel plate to BS1501-151 GR403A *
16	Flange	1	Mild steel to BS970 non-lead bearing
17	Relief valve mounting insert	1	Mild steel to BS970 non-lead bearing
18	Welding wire	A/R	1.0 mm mild steel BS2901 Part 1:1983A18 *

*Material fully certified and covered by mechanical and chemical certificates

Safety Valve Assembly (Part No. 3702-26)

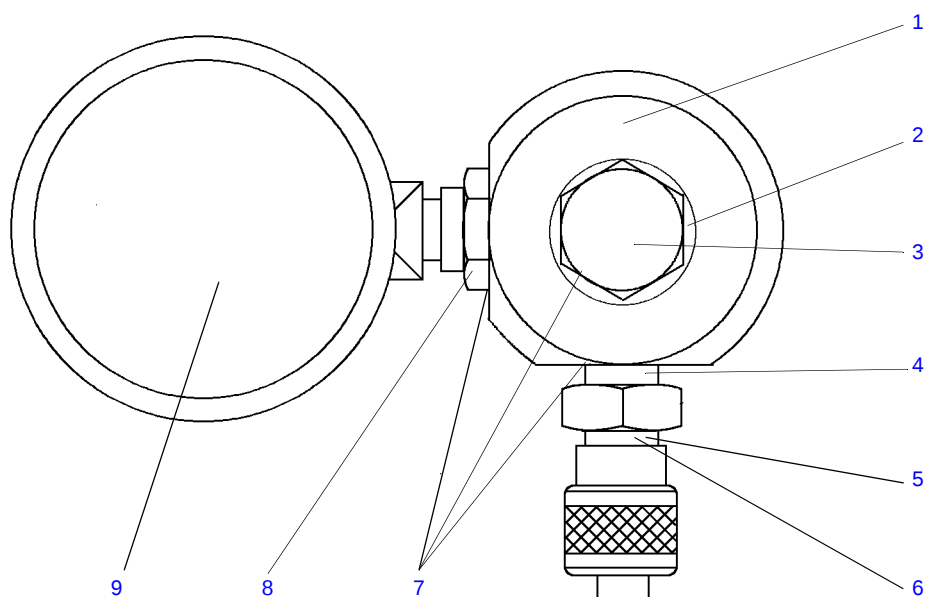


Relief Valve Assembly (Part No. 3374-13)

Item	Name	Qty	Material
1	Body	1	Brass, BS2874 CZ121 Pb4
2	Small washer	1	2BA
3	Spring	1	Flexo Ref 143306
4	Spool	1	Stainless steel EN56AM
5	Spigot	1	Stainless steel EN56AM
6	Bonded seal	1	1/4 in. BSP, Dowty Ref PP-45-B
7	'O' ring	1	Gaco Ref R2025
8	Silicone grease	A/R	MS4
9	Adjuster	1	Stainless steel EN58
10	Locking nut	1	Brass, BS2874 CZ121 Pb4



Pressure Gauge Assembly (Part No. 3702-33) Pressure Gauge Assembly (USA) (Part No. 3054-11)



Pressure Gauge Assembly (Part No. 3702-33) Pressure Gauge Assembly (USA) (Part No. 3054-11)

Item	Name	Qty	Material
1	Banjo	1	Aluminium alloy HE 30 TF
2	Bonded seal	2	1/4 in. BSP, Dowty Ref PP-45-B
3	Banjo bolt	1	Mild steel BS970 EN1A
4	Bonded seal	1	2BA, Dowty Ref PP-45-3
5	Charging valve	1	Modified Part No. J005-020 - Schrader valve No. 9886
5	Charging valve (USA only)	1	Modified Part No. J005-021 - Schrader tank valve No. 8911
6	Valve core	1	Schrader valve core No. 230011
7	Hydraulic sealant	A/R	Loctite 542
8	Adaptor nut	A/R	Brass
9	Pressure gauge	1	Wika 0-400 psi (0-27 bar) 2 in. dia



Design Improvements

Details	Serial No. Information

Section 1

Introduction and Description

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Introduction

- 1 The Vinten Fulmar pedestal ([Fig 1.1](#)) is capable of supporting and counterbalancing a payload weighing between 22.68 kg (50 lb) and 158 kg (350 lb), which provides it with adequate capacity for the majority of cameras, camera mountings, prompters and other accessories.
- 2 The pedestal has a fully counterbalanced, nitrogen-charged column which may be raised and lowered under hand control. Pedestal motion about the studio is controlled by the cameraman who directs the movement with the steering ring. A foot-operated changeover mechanism allows selection of crab or steer modes of movement.

Description

General

- 3 The major assemblies of the Fulmar pedestal are the telescopic column and the base.
- 4 The telescopic column is located in a fixed tube secured to the base assembly, and consists of a three-stage extension unit and a two-stage ram. The ram is pressurised by nitrogen stored in a tubular tank and this tank forms the main structure of the base.
- 5 The pressure of the nitrogen in the ram balances the weight of the moving parts of the pedestal column plus the payload (i.e. the camera and any accessories). When lowering or raising the load the effort applied to the column by the cameraman needs only to overcome the friction of the moving parts and the drag preset by the variable friction control. The column sections are linked internally by cords and chains running over pulleys and sprockets. This system ensures that all three sections extend or retract to the same extent.
- 6 To balance differing payloads, the nitrogen pressure is either increased or decreased as required. Fine adjustment of the column balance is by means of trim weights ([1](#)) which are placed in a circular tray ([3](#)) above the steering ring ([16](#)). Two storage trays ([15](#)) are fitted to the base to hold trim weights which are not in use.

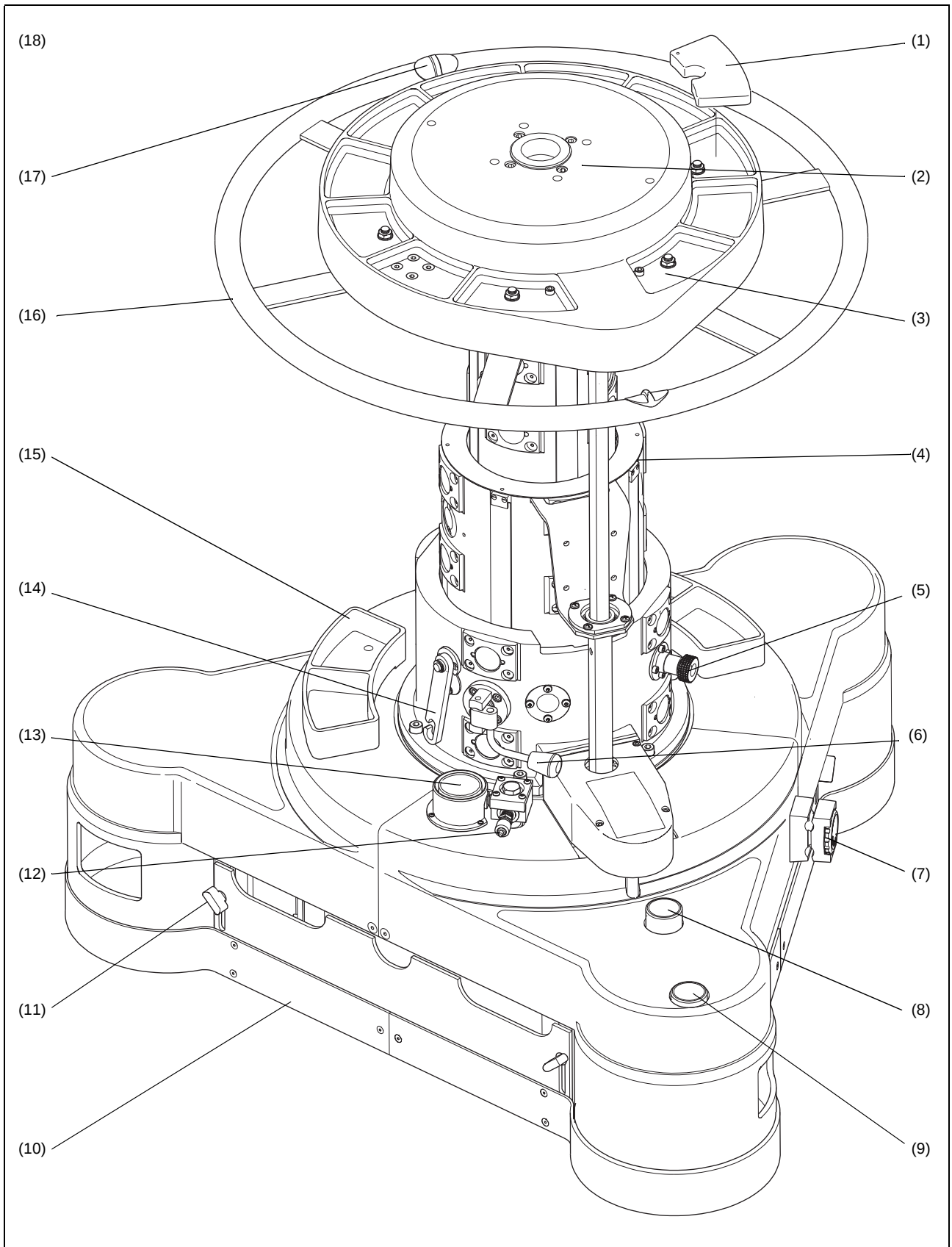


Fig 1.1 Fulmar pedestal

7 The pedestal can be easily manoeuvred around the studio. The steering ring (16) is used to turn the pedestal wheels and the steering mechanism provides two modes of operation - crab, where all three wheels turn together, and steer, where two wheels are locked in the straight-ahead position and the third wheel steers independently.

8 The main assemblies of the pedestal are described in more detail below.

Base

9 The base consists of a robust tubular steel fabrication which forms the nitrogen storage tank and is the frame on which the pedestal is built. On the upper face of the tank there is a machined and tapped flange which provides the mounting face for the fixed tube and on the outer shell are three pairs of equally spaced mountings to which the wheel assemblies are attached.

10 Each wheel unit consists of an alloy housing supporting a twin-wheel axle assembly. The wheel pivot is supported in a pair of ballraces and the upper end of the pivot shaft terminates in a sprocket assembly for the steering mechanism which links all the wheels together by an endless chain. The wheels are rotatable through 360 degrees by means of the steering ring and both the crab and steer modes of movement are controlled by the steering ring, with changeover effected by foot-operated buttons mounted on the base.

11 The wheels are of cast alloy running on ballraces and each is fitted with a low friction, squeal-free tyre.

12 The base unit components are enclosed by contoured covers and side plates. Optional lifting handles may be installed on the covers.

13 A continuous cable guard (10) surrounds the base and is adjustable for height.

Column

14 The three-stage column (4) is located in a fixed tube secured to the welded pressure tank and consists of three concentric column sections and a two-stage ram.

15 The fixed tube is a static unit bolted rigidly to the base. Four pairs of roller bearings are dispersed around this section at 90 degree intervals, with each pair arranged one at the top and one at the bottom of the column. Two pairs of the bearings are fixed and two pairs are adjustable. The adjustable bearings differ from the fixed units in that they have an eccentric shaft with an adjuster, a clamping arrangement on the bearing housing and a screw to close the clamping arrangement onto the eccentric shaft.

16 The adjustable roller bearings are positioned diametrically opposite the fixed roller bearings and are used to take up any clearance across their individual planes of support thus eliminating any sideplay in the column. The outer and centre tubes of the telescopic column are fitted with the same arrangement.

17 The tubes of the column are linked together by a system of chains and sprockets and cords and pulleys which ensure that, during extension and retraction, the telescopic action is equally distributed between the moving sections. All three stages have hardened steel bearing tracks on the outer surfaces, which correspond with the roller bearings on the inner face of the next lower stage to form the motion guides.

18 The balancing force for the column is provided by a two-stage ram. The movements of the ram stages in relation to each other are controlled by the movements of the outer and middle stages of the column. The ram is connected to the pressure tank via a manifold.

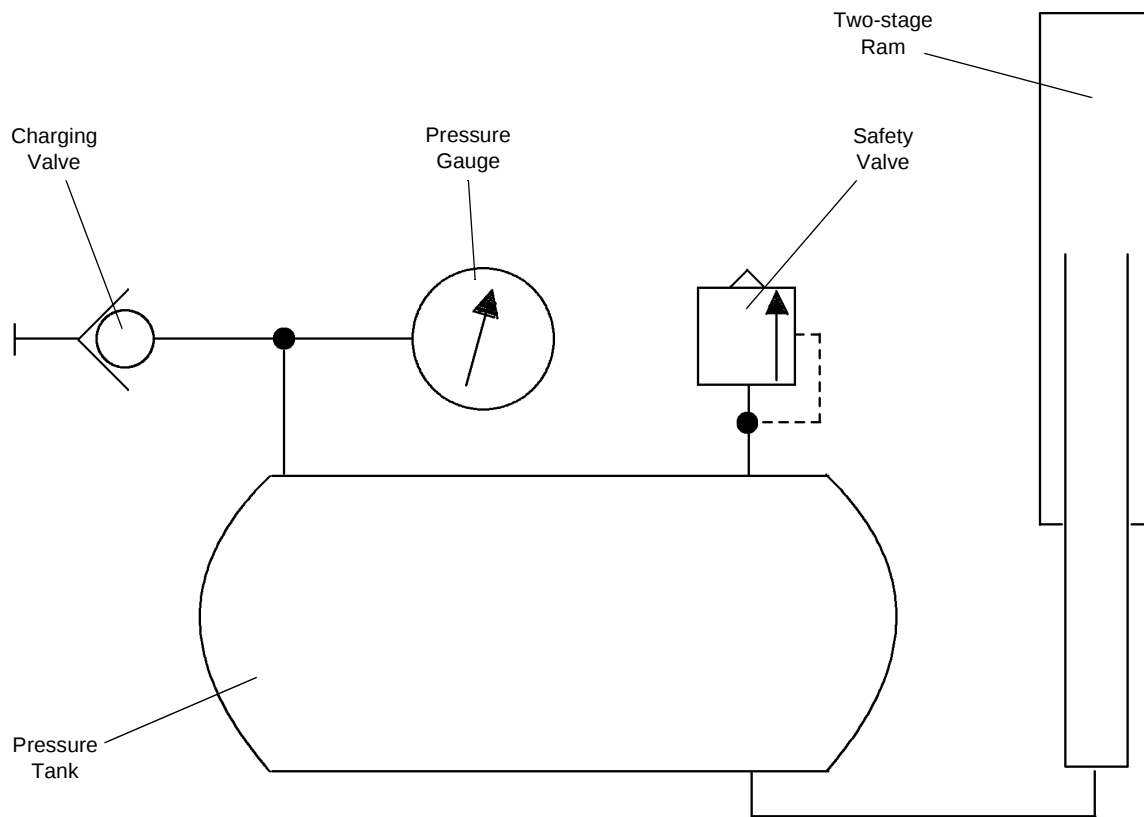


Fig 1.2 Pneumatic system - schematic diagram

Head Mounting Platform

19 The platform consists of a contoured alloy casting attached to the upper stage of the telescopic column. On the top of the platform provision is made for mounting a pan and tilt head (2). On the underside of the platform there are six eccentric shafts carrying nylon rollers which locate the steering ring around the column. The steering mechanism upper section is also fitted to the underside of the head mounting platform as are the brackets and spigots of the locking bar assembly together with the rubber stops.

Pneumatic System

20 The pneumatic system (Fig 1.2) consists of the pressure tank, the manifold and the two-stage ram. A Schrader-type charging valve and pressure gauge are connected to the top face of the pressure tank by a banjo assembly. A safety valve is screwed into a boss in the side of the tank.

Section 2

Operation

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Friction control	14
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Putting into service	2

General

1 To identify components, please refer to [Fig 1.1](#). For further operating instructions, please refer to Fulmar Pedestal Operators Guide, Publication Part No. 3702-8.



Putting into service

Unpacking

- 2 Unpack the pedestal, ensuring that all transport packing and retaining fixings are removed, in particular the white plastic collar under the weight tray.



WARNING!: Do not attempt to unlock the platform locking bars until the pedestal load has been fitted.

- 3 Ensure that both platform locking bars (14) are retaining the platform in its lowest position.

Steering mechanism checks

- 4 There are two foot buttons on the pedestal, one marked CRAB (9) and one marked STEER (8). Bring one of the red indicators (17) on the steering wheel in line with the datum line on the weight tray (3), press the CRAB button and turn the steering wheel. Check that all three wheels turn together and all point in the same direction. Now realign the red indicator, press the STEER button and turn the steering wheel. Check that two of the wheels lock into the straight-ahead position and that the third wheel can still be turned with the steering ring.

Attachment of pan and tilt heads

- 5 The following paragraphs provide the necessary information for mounting Vinten and other pan and tilt heads. However, the head should not be fitted to the pedestal until the appropriate point in the charging procedure is reached (Para 9).

Vinten pan and tilt heads

- 6 Any type of Vinten head, including remotely operated types, may be fitted to the Fulmar pedestal. Fitting is carried out by placing the head in position, locating the four holes and fitting the four bolts provided.

Pan and tilt heads using Mitchell-type centre-screw fixing

- 7 To fit heads using the Mitchell-type centre-screw fixing, it is necessary to fit a stand-off adaptor, Vinten Part No. 3710-3.

- 8 The adaptor is fixed with the standard four-bolt fixing and enables the centre screw to be secured. Vinten heads can be fitted by means of a centre screw if this is preferred.

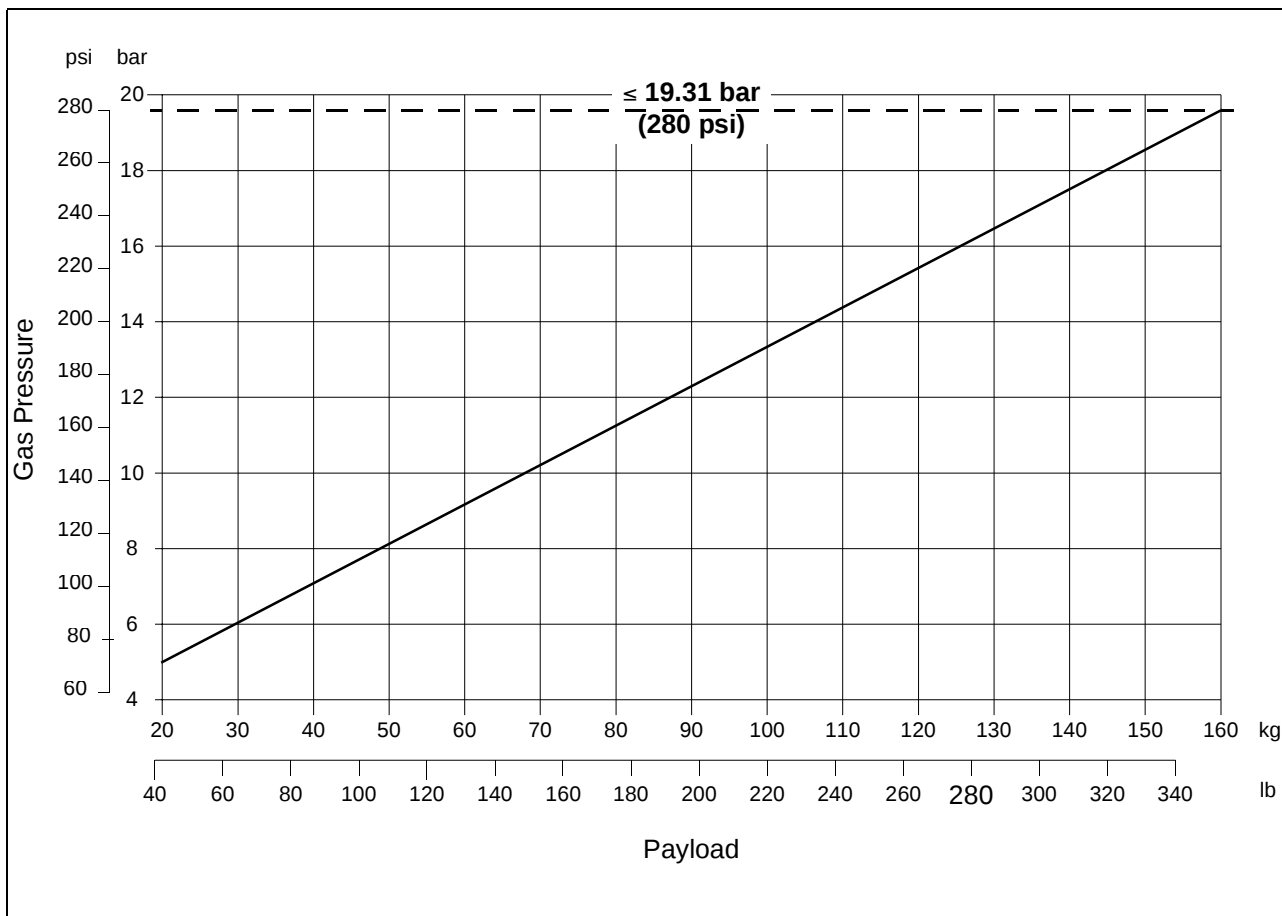


Fig 2.1 Pressurization graph

Nitrogen charging procedure



WARNING!: A pressure reducing valve must be fitted to the pressure line between the nitrogen cylinder and the outlet connection of the hose. The reducing valve must be screwed into the nitrogen cylinder outlet. the maximum pressure on the outlet side of the reducing valve when charging this pedestal must not exceed 19.31 bar (280 psi).

9 Charge the pedestal with nitrogen as follows:-

9.1 Connect nitrogen supply to the charging valve (12) on the pedestal, ensuring that the conditions of the above caution are observed. A recommended charging kit for this pedestal is the charging valve assembly, Vinten Part No. 3702-32. Note that this piece of equipment is NOT a pressure reducing valve.

9.2 Ascertain known payload to be fitted to pedestal (known payload = pan and tilt head, camera, lens and all ancillary equipment). Referring to the graph (Fig 2.1), mark the payload on the horizontal axis then strike a vertical line from the load figure to the balance line. At the intersecting point strike a horizontal line to the vertical axis of the graph and read off the gas pressure. Charge the pedestal gas tank to this pressure.

- 9.3 Fit the pan and tilt head to the platform then fit the camera and accessories. A cable clamp (7) is provided on the pedestal base for camera cables.
- 9.4 Add four of the large trim weights (1) to the weight tray (3) in the platform.
- 9.5 Set the column brake (6) to OFF and turn the column friction adjuster (5) to minimum.
- 9.6 Using firm hand pressure raise and lower the steering ring to check that the pedestal balance is approximately correct. As the locking bars (14) are still engaged the steering ring can only be moved up and/or down about 20 mm (3/4 in.) but this is sufficient to check that the balance is approximately correct. Only a small amount of effort should be needed to move the column. If it rises when released, the pressure is too high and if it falls the pressure is too low. If the pressure is incorrect, slowly add or release nitrogen as required until balance is achieved.
- 9.7 When balance is correct, depress the steering ring and disengage both platform locking bars (14). Gently lift the steering ring. The camera platform should rise. Exercise platform over its full height range at least twice. With platform at its highest position ensure there is no tendency for it to sink, then move platform to mid-position and release. If platform tends to sink, increase nitrogen pressure.
- 9.8 Remove charging equipment and fit blanking cap to charging valve.
- 9.9 The column brake (6) on the fixed section of the column is designed only to hold the column at a set height during camera operation.

Column locking

10 The column can be locked in its lowest position (whether counterbalanced or not) by means of the two locking bars (14). This facility should be used whenever a load is being fitted, or when the pedestal is not in use. The locking bars are attached to the fixed column and both bars can easily be secured by swinging them upwards to the fixing points on the underside of the inner steering ring.

Operation

Balancing

11 Temperature changes may affect the balance of the pedestal column. These effects can be neutralized by adding, or removing, trim weights (1).

Manoeuvring the pedestal.

12 The pedestal is steered by means of the steering ring (16) which always maintains the same position in relation to the head mounting platform irrespective of column height. When the pedestal is in crab mode, all three wheel units are locked together; the direction of track being indicated by the red indicators (17) fitted to the steering ring. When the pedestal is in the steer mode two wheels are locked in the straight-ahead position and one wheel provides conventional steering. To change steering mode align one of the red indicators on the steering ring with the datum line on the weight tray (3) and depress the appropriate button.

Column brake

13 The column, when balanced, may be locked in any position by applying the friction brake (6). The brake is located on the fixed part of the column assembly and is operated by a small lever. The friction brake will not

support an out-of-balance load greater than 9.0 kg (20 lb). DO NOT use the friction brake to hold the column when fitting or removing equipment – ALWAYS engage the locking bars.

Friction control

14 The friction control (5) is located on the fixed part of the column assembly. Friction, or drag, may be applied to the movement of the column to suit the requirements of the operator. Adjustment is by turning the friction control knob, clockwise to increase friction, counter-clockwise to decrease friction.

Cable guard

15 A drop-down cable guard (10) is fitted to the pedestal base. The guard may be adjusted by slackening the six retaining thumbscrews (11), positioning the guard at the required height and then re-tightening the thumbscrews. The guard should be set as close as possible to the studio floor.



Section 3

Tools and Materials

Special tools

- 1 The following special tools are required for certain procedures detailed in Sections 4 and 5

Item	Part No.	Use
Charging valve assembly	3702-32	Nitrogen charging

Consumable materials

- 2 The following consumable materials are required for certain procedures detailed in Sections 4 and 5.

Item	Part No.	Use
Oil, Nycolube 11B	Z150-031	Bearing and general lubrication
Grease, GP50	Z150-081	Crab/steer changeover mechanism
Grease, Chesterton	Z150-105	Ram lubrication
Loctite 221	Z002-026	Steering change-over gear
Loctite 542	Z002-025	Pressure gauge assembly
Loctite Primer T	Z002-019	Primer for 542
Lubricant, chain	Z150-050	Steering chains
Soap solution	--	Leak testing



Section 6

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Introduction

1 This parts list is issued for the Fulmar pedestal, manufactured by VINTEN BROADCAST LIMITED, Western Way, Bury St. Edmunds, Suffolk, IP33 3TB, England.

Ordering spare parts

2 Always quote the pedestal serial number.

3 When ordering a spare part, please quote the part number, NOT the item number.

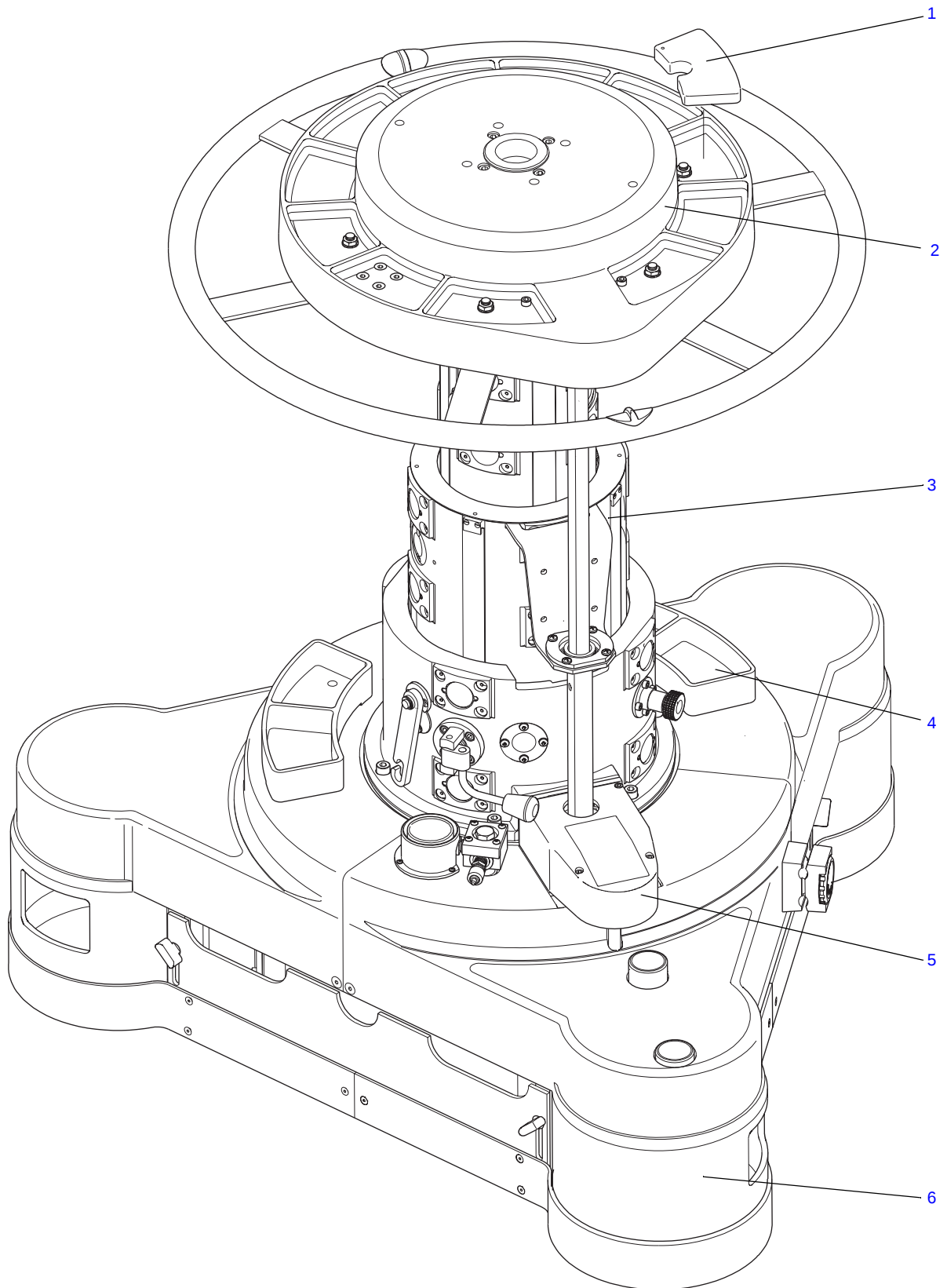
4 Certain items form part of -900SP series composite spare parts. These are detailed in [Fig 6.15](#) and are indicated in the parts list by an asterisk (*).

5 Due to restrictions placed on the transportation of adhesives and other materials, please obtain supplies of consumable materials from your local distributor.

Main assembly part numbers

6 Ensure that the correct serial and part numbers are quoted when ordering main assemblies.

Assembly	Part No.
Base assembly	3702-11
Column assembly	3702-12
Ram assembly	3702-14
Weight tray assembly	3702-13
Steering assembly	3702-24
Wheel housing assembly (steering)	3702-27
Wheel housing assembly (adjustable sprocket)	3702-28
Wheel housing assembly (fixed)	3702-29



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Fig 6.1 Fulmar Pedestal