

6 Failures

This indicator may be applied in those cases where measuring the pressure between the monitor regulator and active regulator is expected to be insufficiently reliable. This may be when gas velocities in the pipe-piece become so high that flow-induced pulsations may occur.

7.1.2 Working

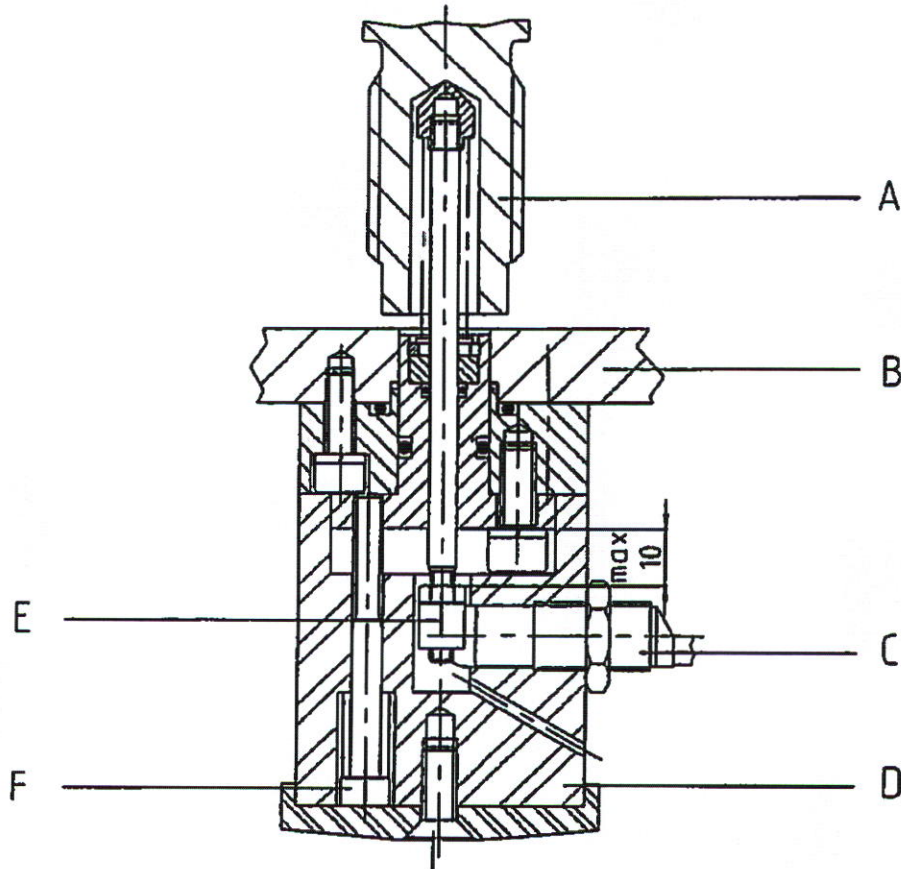


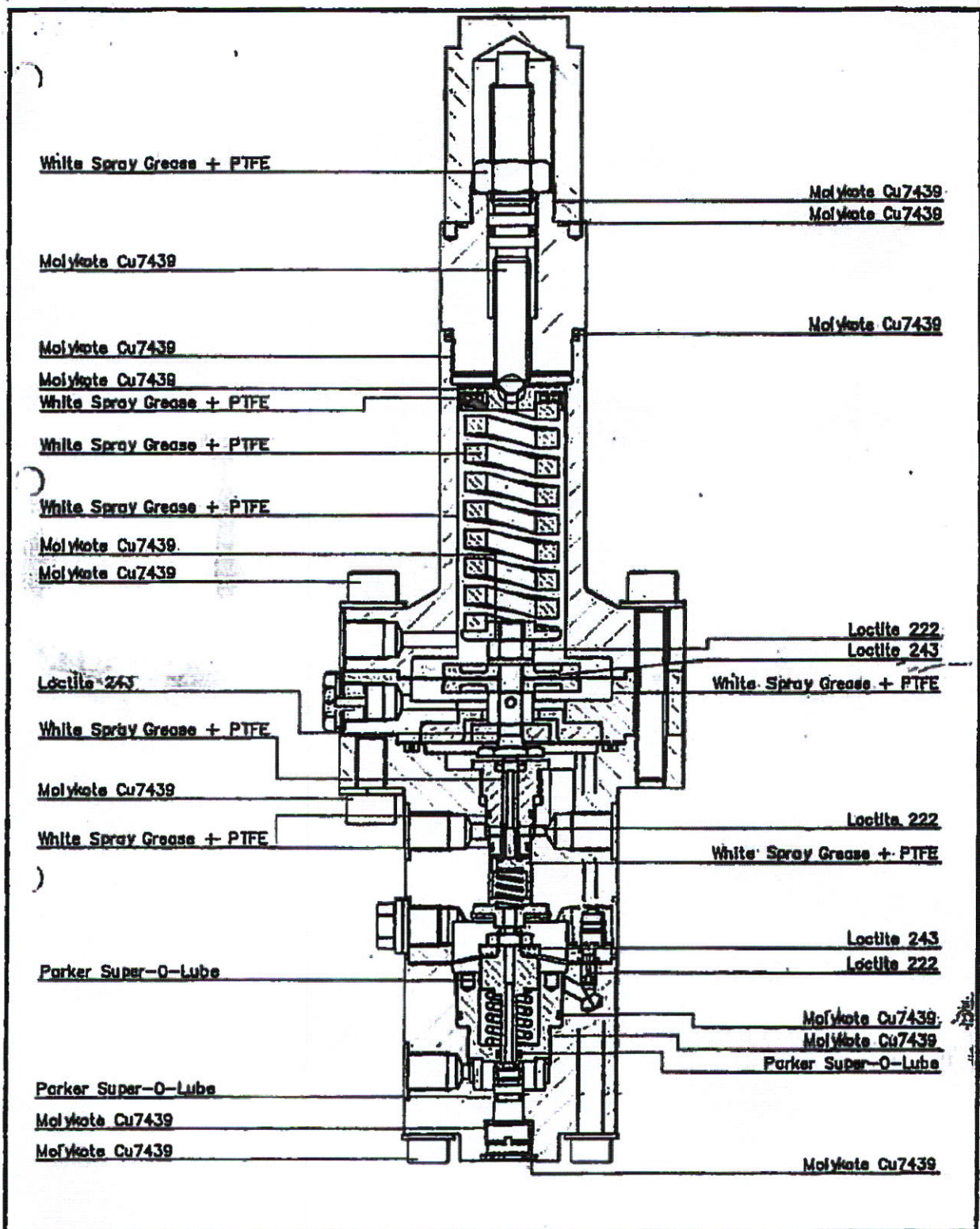
Figure 9: Working open position indicator monitor regulator

The open position indicator is mounted to the bottom cover of the monitor regulator as per figure 9. If the valve of the monitor regulator is fully opened, block E will be in front of proximity switch C and the proximity switch will give a signal. If the monitor regulator takes over, the monitor valve will move upwards, as well as detector E. The proximity switch will give an intermittent signal from which it may be concluded that the monitor regulator is active.

7.1.3 Adjusting and checking

For adjusting, the monitor valve has to be in its lowest position. This can easily be realised by filling the bell of the monitor regulator (connection 6, figure 7) with pressure.

Caution: this pressure should not be higher than 1 bar!
In addition, the whole system has to be unpressurised.



**CORTIER
CONTROLS**

LUBRICANTS & SEALANTS P095
Gas Pressure Regulator Series R100S



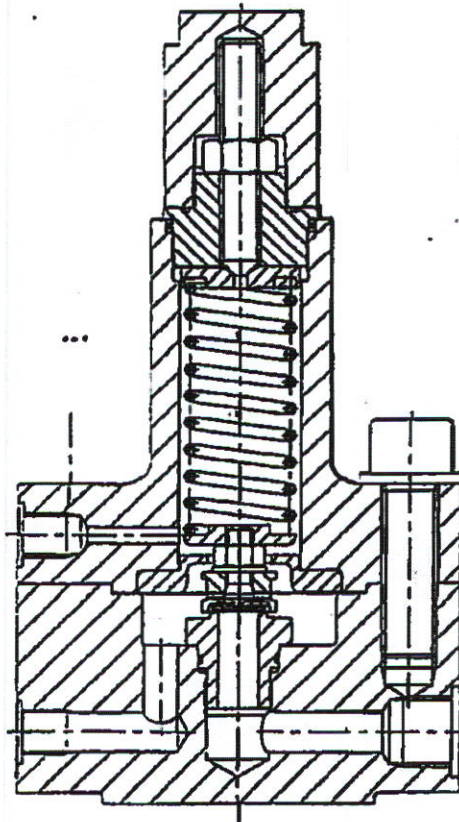
GORTER
CONTROLS

SCHOONHOVEN THE NETHERLANDS

ITEM NO. 5

RELIEF VALVE AV095-HP/MP

OPERATING/MAINTENANCE MANUAL

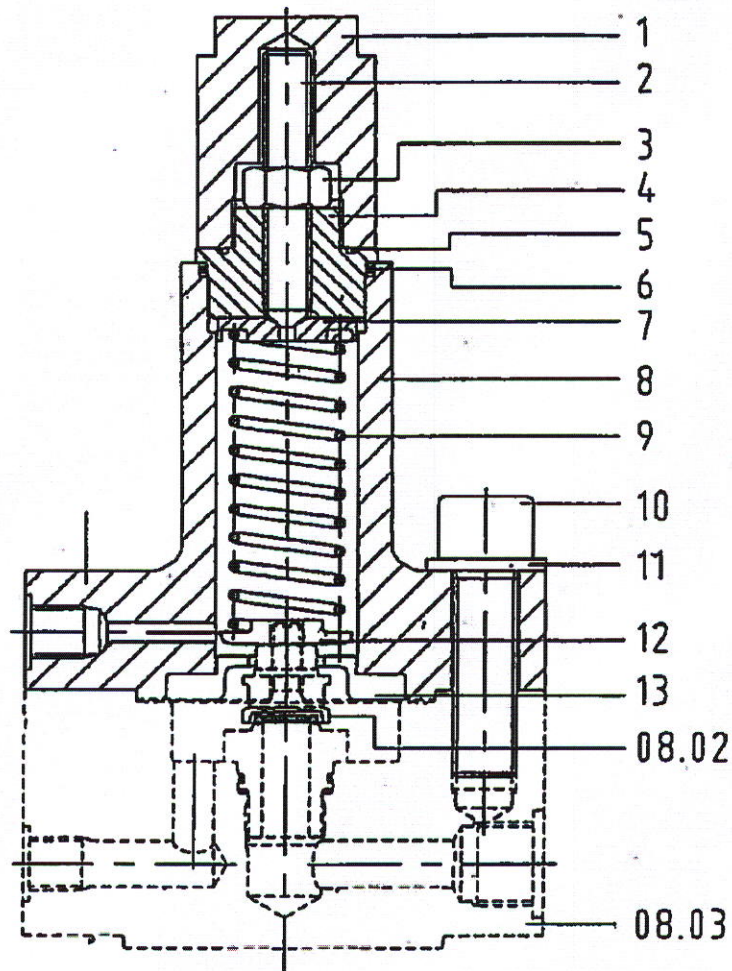


1 Introduction

1.1 Technical data

Technical data relief valve type AV095:

Medium	:	all gases with the exception of sulphurous gases (H ₂ S). <i>Relief valves suitable for sulphurous gases can be supplied on request.</i>
Temperature	:	-20°C to +80°C
System pressure (p ₁)	:	maximum 100 bar
Maximum outlet pressure	:	depends on spring type
Weight	:	approx. 10 kg
Height	:	235 mm
Largest diameter	:	ø 130 mm
Spring type	:	see section 4.1
Pipe connections	:	1/4" BSP (2x inlet and breathing) 1/4" BSP (outlet)
Position type plate	:	side of relief valve
Data on type plate	:	name of manufacturer, type indication, spring type, serial number number, setting values, year of construction and maximum inlet pressure allowed



drawing: 08.04

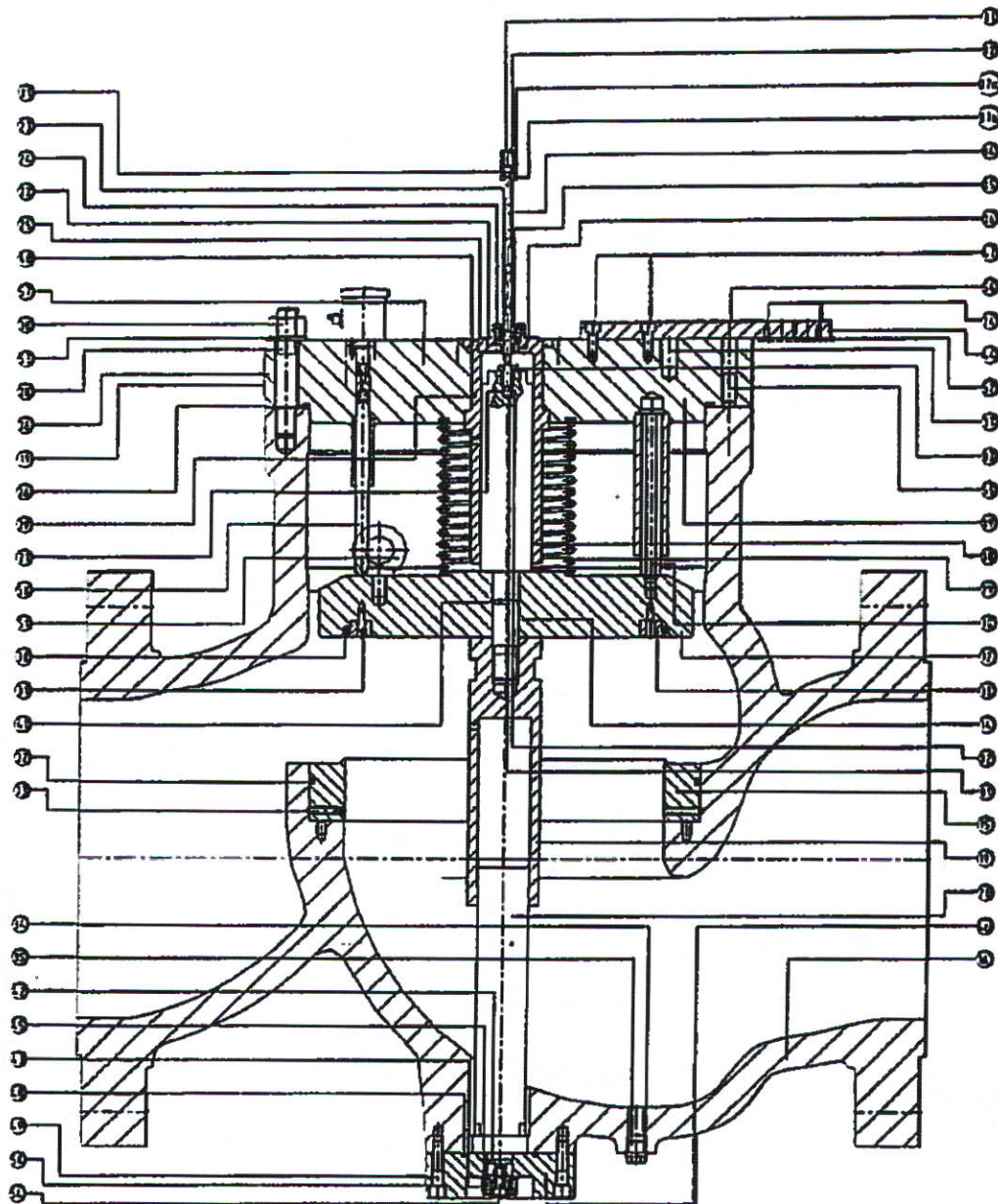


Figure 7b: valve and valve body

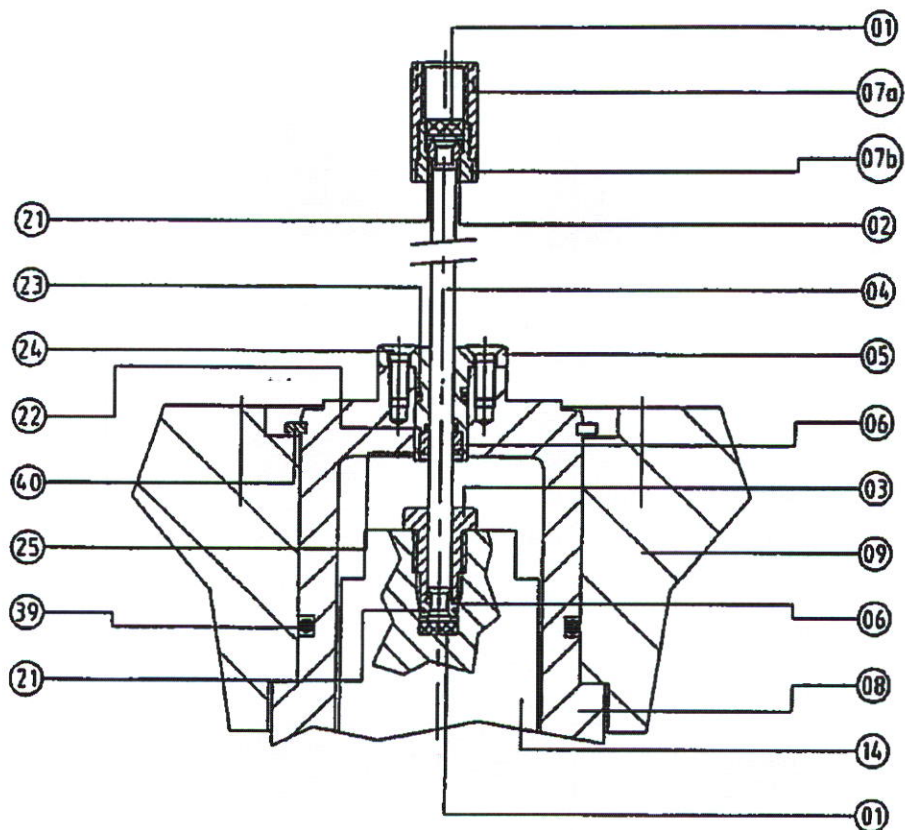


Figure 7c: Detail of connection rod and connection rod guide

Remark

Check the set pressures of the safety device after each maintenance !

5.1.3 Pressure converter SM 1.x-A

(see figure 6)

The following parts have to be replaced in this component.

- Diaphragm 02
- O-ring 16
- O-ring 18

To replace these parts, the following steps are to be taken.

- Disconnect impulse line 21
- Unscrew screw connection 15
- Remove cover 01
- Remove diaphragm 02
- Remove bottom seat 05 to replace O-ring 18
- Replace O-ring 18
- Replace O-ring 16
- Fit bottom seat 05, new diaphragm 02 and cover 01 with O-ring 16
- Tighten screw connection 15 (even and diagonally)
- Connect impulse line.

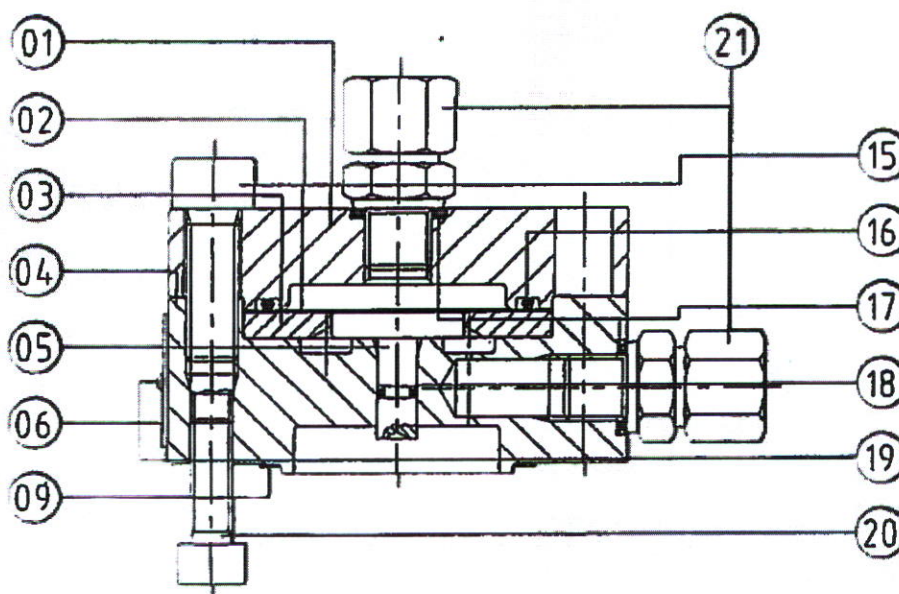


Figure 6: Pressure converter SM 1.x-A

5.1.5 Valve and body HHSV

(see figures 7a and 7b)

The following parts should be replaced in this component during maintenance:

- 2x O-ring retainer set 21 (no seal, must be replaced during fitting, however)
- O-ring rod 22
- O-ring guide 23
- 4x socket screw 24
- O-ring cover 26
- O-ring valve 30
- 12x socket screw 31
- O-ring valve seat 32
- O-ring guide 39
- O-ring 40
- O-ring guide of valve stem guide 41
- O-ring guide of valve stem seat 42
- O-ring bottom cover 48
- Filler block 01 (no seal, must be replaced during fitting)

Work as follows to replace these parts:

- The valve should be closed.
- Disconnect impulse line of the pressure converter (pos. 21 in fig. 6).
- Remove protective cap 25 (see figure 7a).
- Unscrew screw connection 47 and dismount the complete SVC086.
- Unscrew screw connections 38, 40 (figure 7a) and dismount the complete second stage.
- Detach connection rod 04 (figure 7a) from top coupling section 07a.
- Unscrew screw couplings 38, 53, 28.
- Lift cover 09 from body 16 by load frame 37 provided for this purpose (not shown in figure 7a). To simplify detachment of the cover 09 from body 16 you may use lock screws 55 (having released plug 56).
- When you have used the lock screws 55, you should tighten them again and fit plug 56.
- Valve 12 is now underneath cover 09.
- Place cover 09 with valve 12 on a surface which guarantees that valve rod below 19 sticks through the surface and that valve 12 with cover 09 lies horizontally (when putting it down on the surface, cover 09 slides over the valve rod top 14).
- Loosen the connections between coupling top 07a and coupling bottom 07b and disconnect coupling top.
- Disconnect retainer set 02 from connection rod 04.
- Replace O-ring retainer set 21.
- Slowly lift cover 09 with guide of valve rod top 08 by the load frame 37 provided for this purpose (not shown in figure 7a) and lift over connection rod 04.
- Place cover 09 on a similar surface as the valve.
- Remove lock ring 40

Take care that the guide of valve rod top 08 should not fall out of cover 09 unchecked.

- Remove guide of valve rod top 08 from cover 09 and replace O-ring 39.
- Fit guide of valve rod top 08 in cover 09 and fit lock ring 40.

5.1.6 Spare-part sets

Pressure converter SM 1.x-A
(see figure 6 and partslist page 39)

This spare-part set consists of:

- 1x diaphragm 02
- 1x O-ring 16
- 1x O-ring 18
- 1x seal 34

Valve and valve body HSV086
(see figure 7a and partslist page 32)

This spare-part set consists of:

- 2x O-ring retainer set 21
- 1x O-ring rod 22
- 1x O-ring guide 23
- 1x O-ring top cover 26
- 1x O-ring valve 30
- 1x O-ring valve seat 32
- 1x O-ring 40

Valve and valve body HSVS086
(see figures 7b and 7c and partslist page 33)

This spare-part set consists of:

- 2x O-ring retainer set 21
- 1x O-ring rod 22
- 1x O-ring guide 23
- 1x O-ring top cover 26
- 1x O-ring valve 30
- 1x O-ring valve seat 32
- 1x O-ring guide 39
- 1x O-ring valve stem guide 41
- 1x O-ring valve stem seat 42
- 1x O-ring bottom cover 48
- 1x O-ring 40
- 2x filler block 01
- 4x countersunk screw 24
- 12x socket screw 31

Valve position indicator (accessory A8)
(see figure 9 and partslist page 46)

This spare-part set consists of:

- 1x O-ring guide 16
- 1x O-ring rod 17
- 1x flat-headed screw 10
- 2x socket screw 11
- 4x flat-headed screw 15

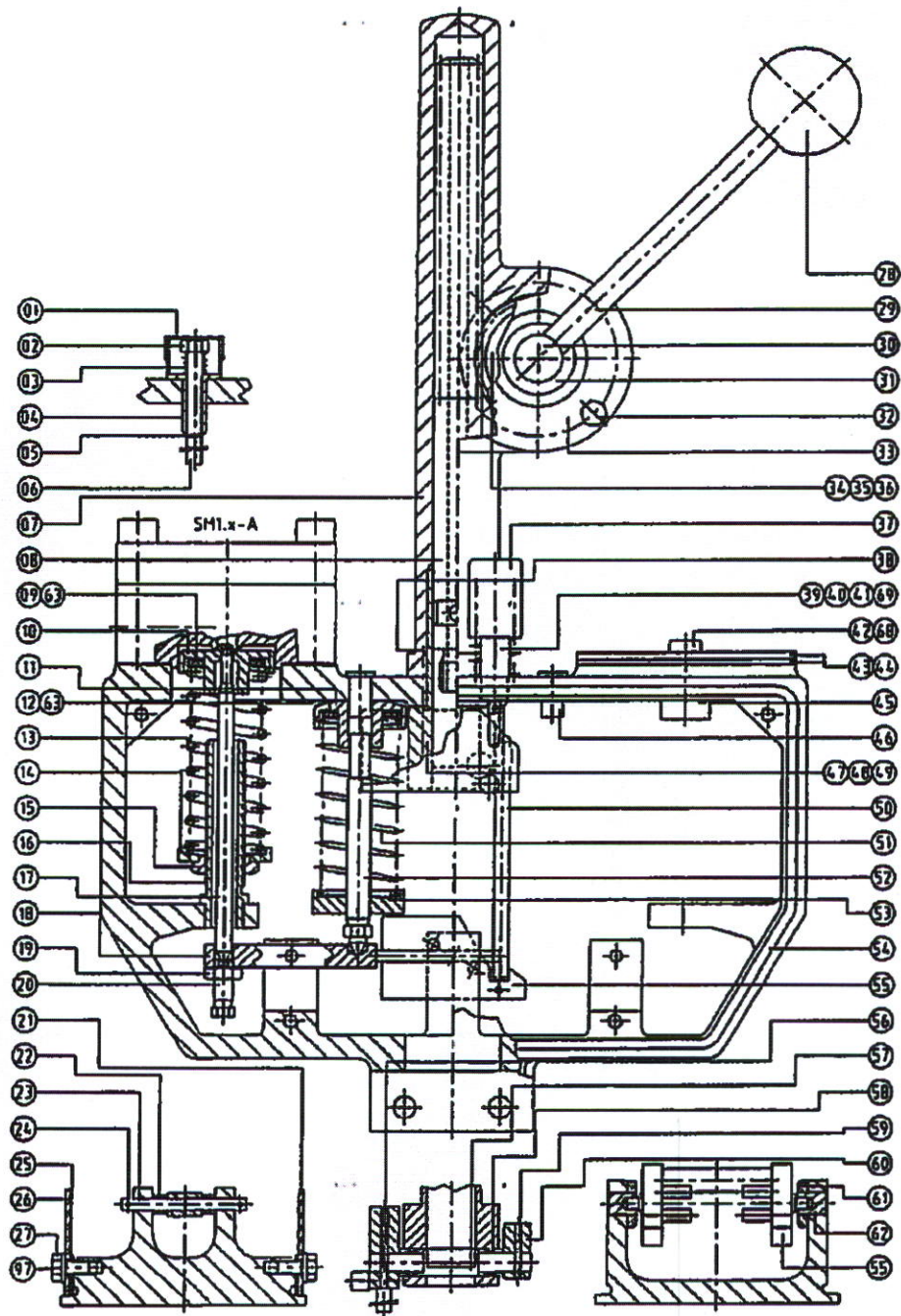


Figure 8: Control and switch mechanism SVC 086

2.2 The switch and reset mechanism

The switch and reset mechanism SVC086 is used standard on all Baal safety shut-off devices. When the stroke of the HSV is smaller than 110 mm, the SVC086 may be mounted directly onto the body.

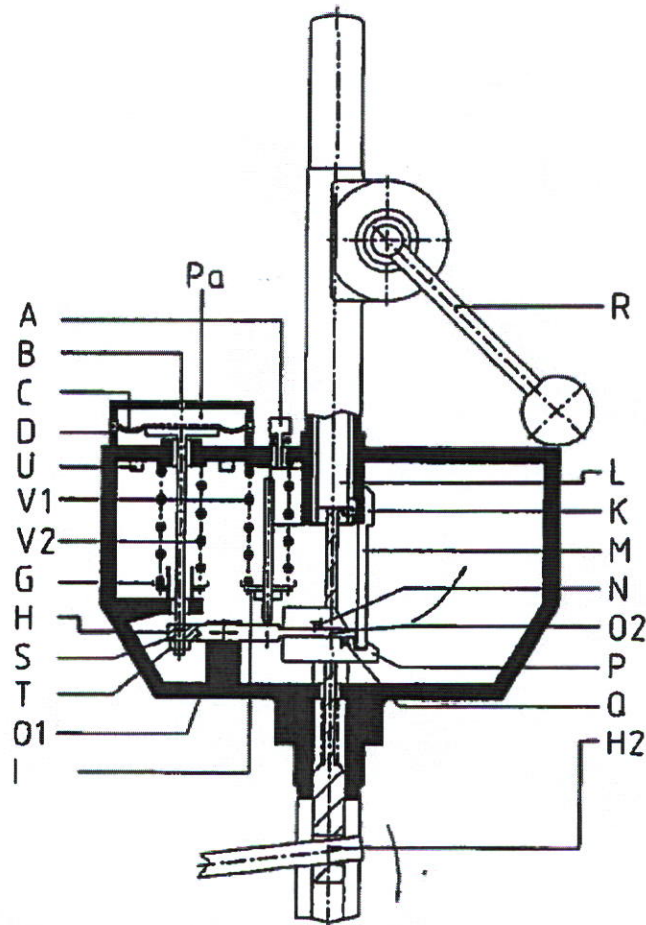


Figure 2: Working principle of the switch and reset mechanism SVC086

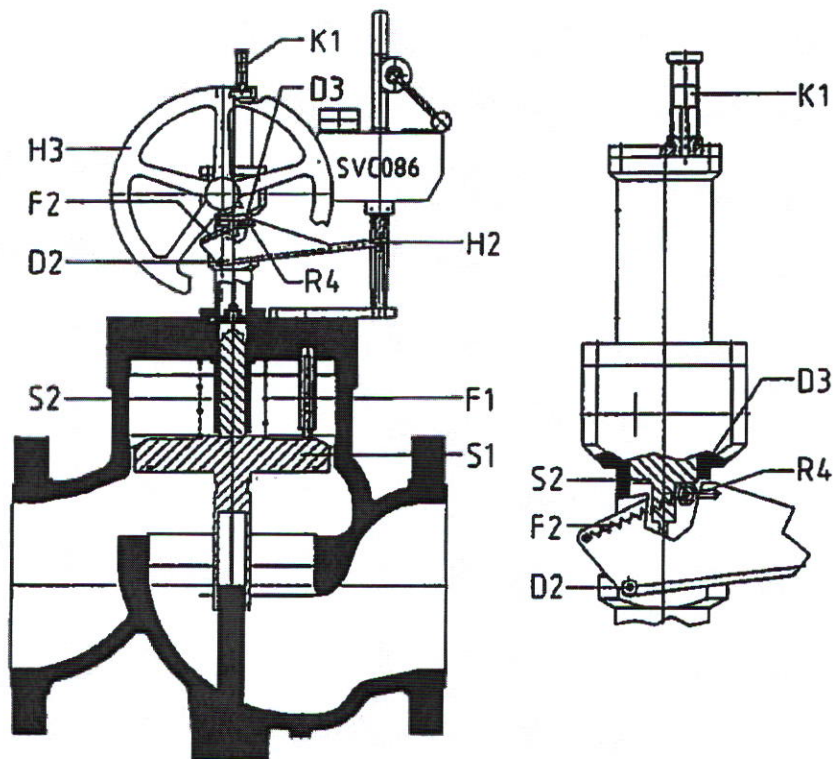


Figure 3: Working principle second stage HSVS

2.3 Releasing and opening HSV / HSVS (see figures 2 and 3)

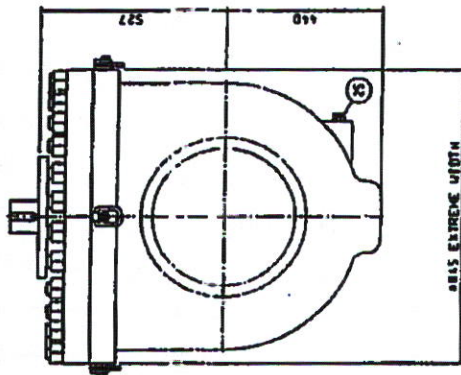
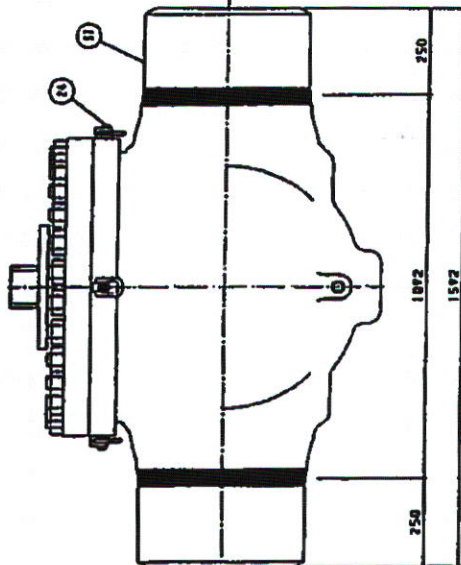
After having solved the failure, the pressure to be protected returns to a value between the lower and higher threshold value. Handle H returns to its initial position. Due to gravity, balance jaw P follows this movement.

In order to make the HSV ready-for-operation again, the switch and reset mechanism must first be reset and then the second stage (if 16" and larger).

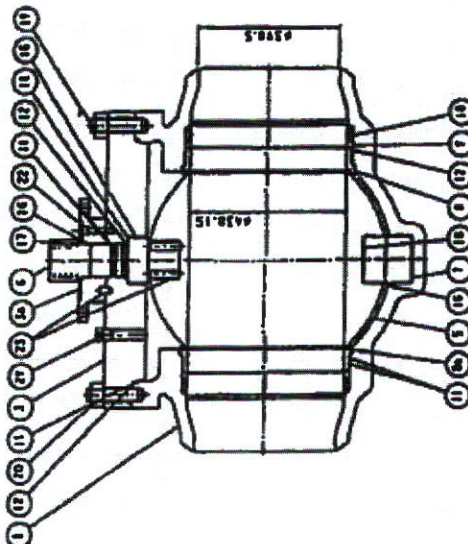
Here follows a short description of the actions for releasing and opening the HSV.

- Solve the failure;
- Bring the pressure to be protected to a normal value between the higher and lower threshold values;
- Ensure that no gas is taken off at the outlet side and that the pressure above and below the valve is in equilibrium, using a bypass;
- First press and then turn clockwise handle arm R of the lifting component of the SVC086;

312D/406









[illegible]

CUSTOMER :- NATIONAL OILWELL S.V.
 ORDER No :- 65060710M
 CONTRACT No :- 15300183
 INTERMEDIARY ITEM No :- 020
 INVOICE SERIAL No :- 45300105/020/162
 INVOICE No :- 005001000001
 QOE005000001



- NOTES:
1. VALVE DESIGNED IN ACCORDANCE WITH API 6B
 2. FIRESAFE DESIGN IN ACCORDANCE WITH API 6FA/BS6755 PART 2
 3. FACE TO FACE DIMENSIONS TO API 6B
 4. END CONNECTIONS - BUT WELD TO DLG-25
 5. ALL CONNECTIONS & WEIGHTS ARE APPROXIMATE ONLY
- APPROX. VALVE WEIGHT = 1725 KG

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100 ENERGY MONITOR SPEL SEAT TIGHTENING MONITOR BALL VALVE, 600" WELD ENDS 18" ASPE 600	MAC VALVES	312D	406
	e HOPKINSONS LIMITED KUDGENSFELD JAMES		

DATE	10-10-82
BY	10-10-82

From the eq.

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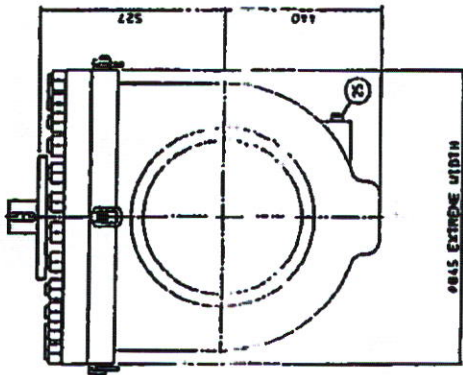
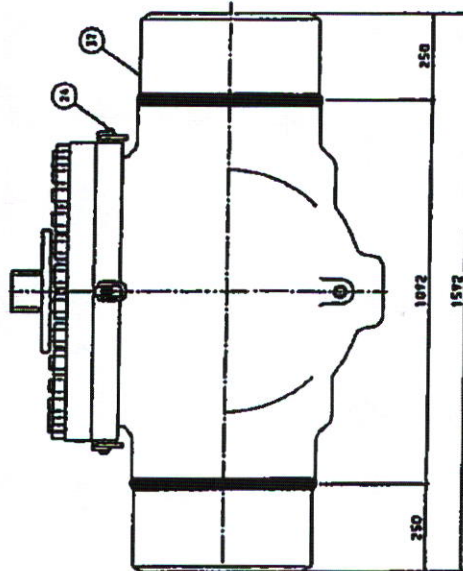
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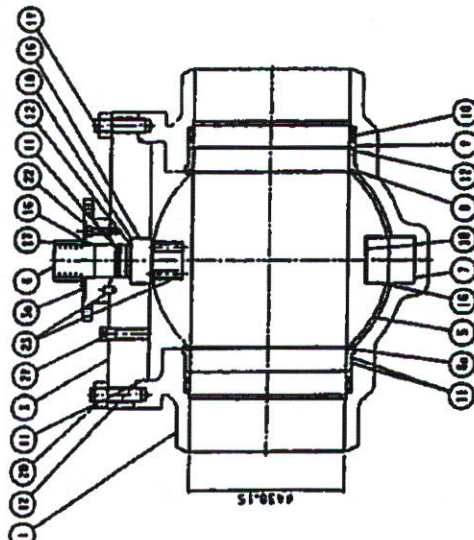
207D/401



NO	NAME OF COMPONENT	REFERENCE	QUANTITY
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4	VALVE	1000000000	1
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6	VALVE	1000000000	1
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97	VALVE	1000000000	1
98	VALVE	1000000000	1
99	VALVE	1000000000	1
100	VALVE	1000000000	1

CUSTOMER :- NATIONAL OILWELL S.V.
 CUSTOMER ORDER NO :- 45300181
 INTERMEDIATE NO :- 45300181
 VALVE SERIAL NO :- 45300181/0307/1
 TAG No :- 000001000001

- NOTES:
1. VALVE DESIGNED IN ACCORDANCE WITH API 6D
 2. FIRST-STEP DESIGN IN ACCORDANCE WITH API 6D PART 2
 3. FACE TO FACE DIMENSION TO API 6D
 4. END CONNECTION - BUT WELD TO 24.4.5
 5. ALL DIMENSIONS & GEOMETRIES ARE AFFIRMATIVE UNLESS OTHERWISE NOTED



SIEMENS

MAC VALVES

207D

401

207D/401

NO	NAME	QUANTITY
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2	VALVE	1
3	VALVE	1
4	VALVE	1
5	VALVE	1
6	VALVE	1
7	VALVE	1
8	VALVE	1
9	VALVE	1
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28	VALVE	1
29	VALVE	1
30	VALVE	1

NO	NAME	QUANTITY
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2	VALVE	1
3	VALVE	1
4	VALVE	1
5	VALVE	1
6	VALVE	1
7	VALVE	1
8	VALVE	1
9	VALVE	1
10	VALVE	1
11	VALVE	1
12	VALVE	1
13	VALVE	1
14	VALVE	1
15	VALVE	1
16	VALVE	1
17	VALVE	1
18	VALVE	1
19	VALVE	1
20	VALVE	1
21	VALVE	1
22	VALVE	1
23	VALVE	1
24	VALVE	1
25	VALVE	1
26	VALVE	1
27	VALVE	1
28	VALVE	1
29	VALVE	1
30	VALVE	1

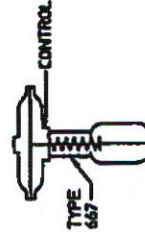
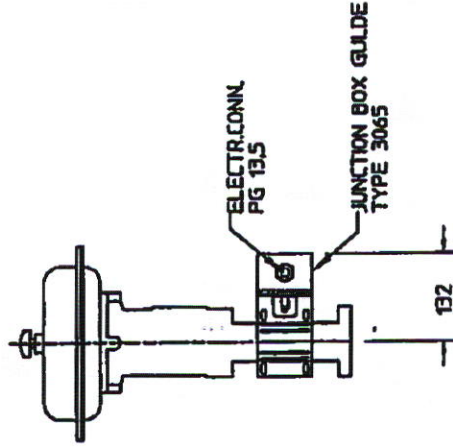
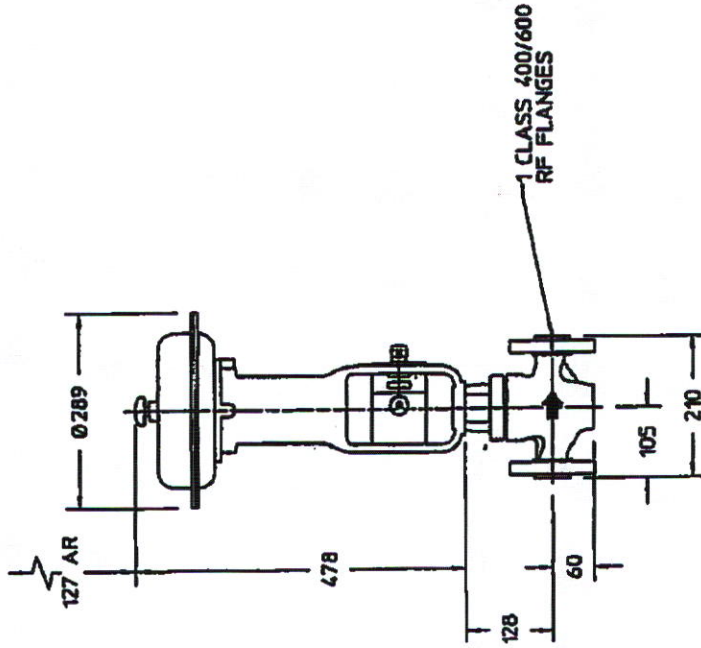
NO	NAME	QUANTITY
1	VALVE	1
2	VALVE	1
3	VALVE	1
4	VALVE	1
5	VALVE	1
6	VALVE	1
7	VALVE	1
8	VALVE	1
9	VALVE	1
10	VALVE	1
11	VALVE	1
12	VALVE	1
13	VALVE	1
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21	VALVE	1
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23	VALVE	1
24	VALVE	1
25	VALVE	1
26	VALVE	1
27	VALVE	1
28	VALVE	1
29	VALVE	1
30	VALVE	1

207D/401

ITEM NO: 13

FEATURES PICTORIALLY TYPICAL ORIENTATION MAY DIFFER

DWG. NO.
MMM28872



VALVE CLOSES ON AIR FAILURE

HP CAD

DIMENSIONS CERTIFIED CORRECT BY FISHER CONTROLS		DATE 11/24/03													
CUST: ROTRING ENGINEERING GMBH		ACTUATOR 867 SIZE 30													
P. O. NO: 803/000586		VALVE EZ SIZE 1 CLASS 600													
ORDER NO: 087P045032															
TAG NO: 1															
SERIAL NO: EU03362137 TO EU03362139															
<table border="1"> <tr> <td>DRAWN</td> <td>11/24/03</td> </tr> <tr> <td>CHECKED</td> <td>11/24/03</td> </tr> <tr> <td>APPROVED</td> <td>11/24/03</td> </tr> <tr> <td>SCALE</td> <td>NONE</td> </tr> </table>		DRAWN	11/24/03	CHECKED	11/24/03	APPROVED	11/24/03	SCALE	NONE	<table border="1"> <tr> <td>ITEM</td> <td>3362137</td> </tr> <tr> <td>REV.</td> <td>6</td> </tr> </table>		ITEM	3362137	REV.	6
DRAWN	11/24/03														
CHECKED	11/24/03														
APPROVED	11/24/03														
SCALE	NONE														
ITEM	3362137														
REV.	6														
<table border="1"> <tr> <td>DATE</td> <td>11/24/03</td> </tr> <tr> <td>SCALE</td> <td>NONE</td> </tr> </table>		DATE	11/24/03	SCALE	NONE	<table border="1"> <tr> <td>DATE</td> <td>11/24/03</td> </tr> <tr> <td>SCALE</td> <td>NONE</td> </tr> </table>		DATE	11/24/03	SCALE	NONE				
DATE	11/24/03														
SCALE	NONE														
DATE	11/24/03														
SCALE	NONE														
© Fisher Controls 2003		Fisher Controls Company, France													

TOTAL CALCULATED ASSEMBLY WEIGHT +/- 10%:
33 kg

AR - ACTUATOR REMOVAL CLEARANCE

UNLESS OTHERWISE SPECIFIED:

UNIT OF MEASURE: MILLIMETER

DIMENSIONS ARE +/- 6

FACE TO FACE TOLERANCE PER ANSI

65E039D
 DATE 143



ENVELOPE DIMENSIONS ARE .25 (6.4)

NOTES

NOTES

TYPE 670PS OR 670PSR
AIR FILTER REGULATOR
STANDARD CONSTRUCTION

FISHER
2003

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THE UNIVERSITY OF CHICAGO PRESS

Planet Controls
Manufacturers, Inc.

5

66150

A

ITEM NO: 15

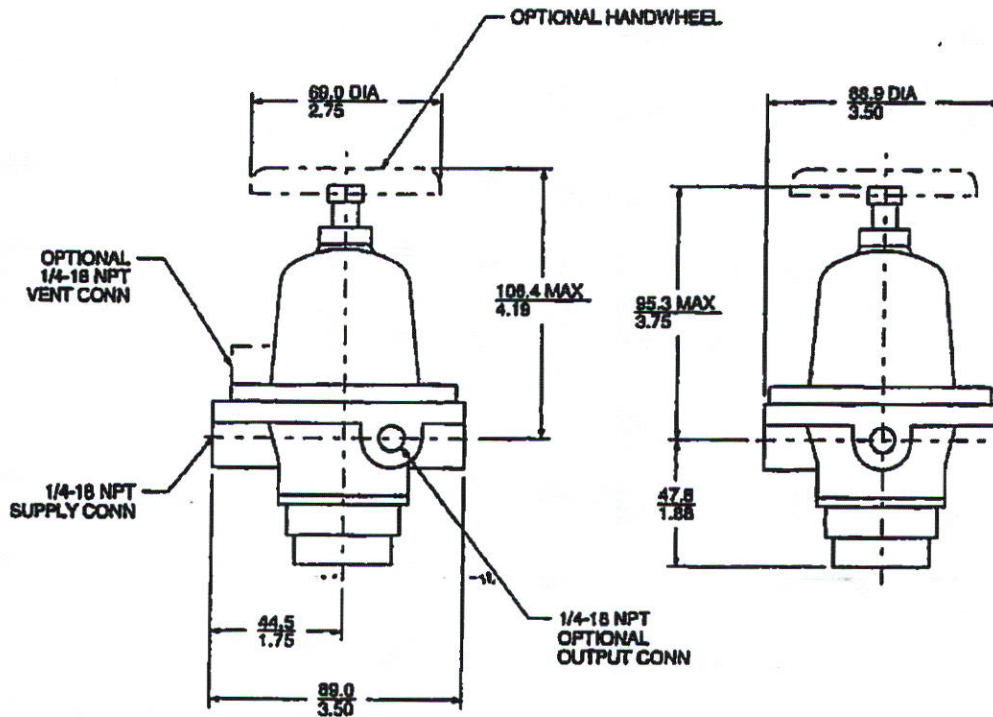
FISHER

Fisher Controls

Fisher-Rosemount

Purpose of drawing is for dimensional reference only.

Total Assembly Weight: 1 kg ±10%



MATERIAL: STAINLESS STEEL/EDELSTAHL

Unit of Measure = mm, scale = none. Envelope Dimensions are +/- 0. Face to Face Tolerance per ANSI.

10/7/03 Drawing certified correct by Fisher Controls

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FISHER-ROSEMOUNT

1301F 1/4"-NPT

CUSTOMER:
CUST REF #:
TAG NO:

FISHER REF #:

ITEM NO: 001

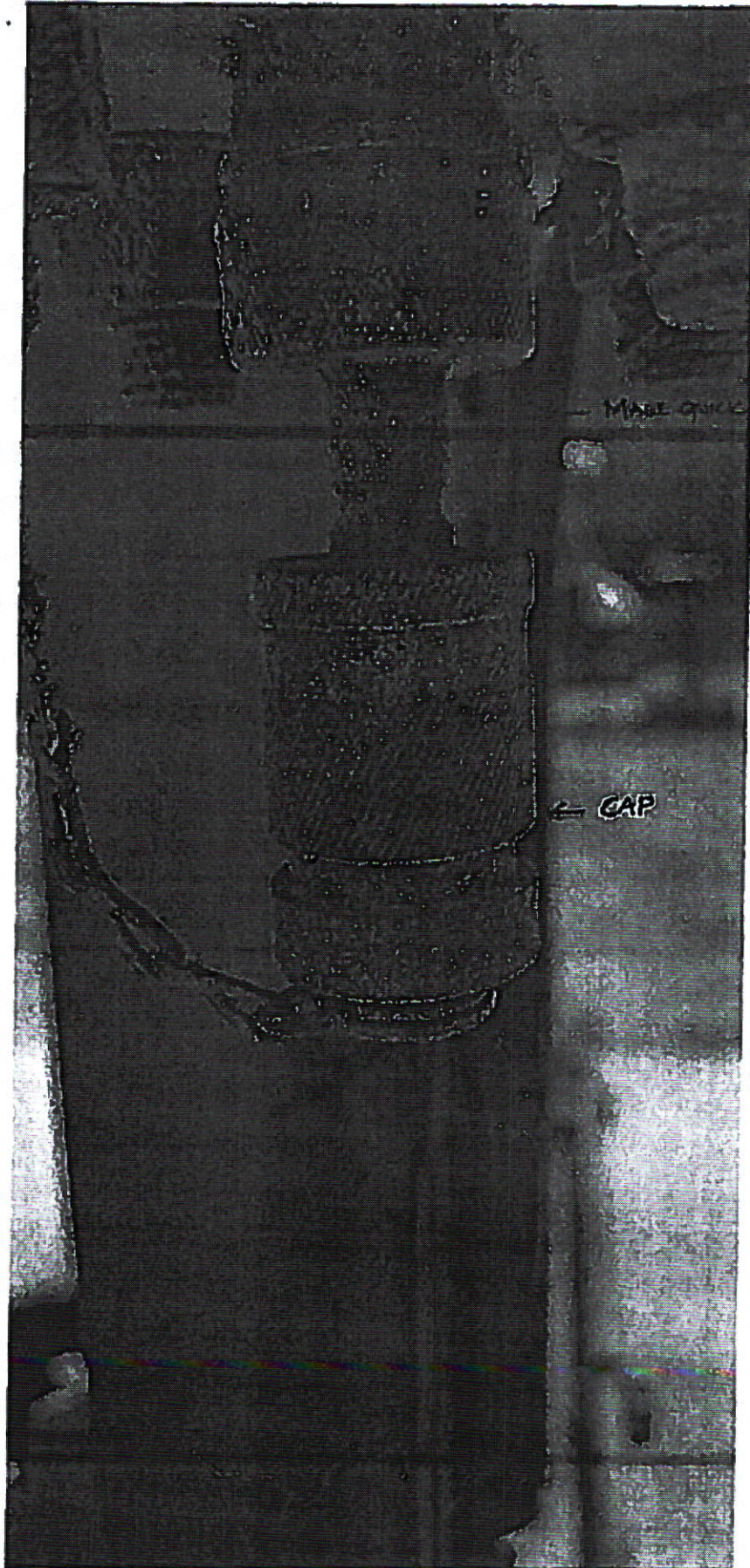
REV:

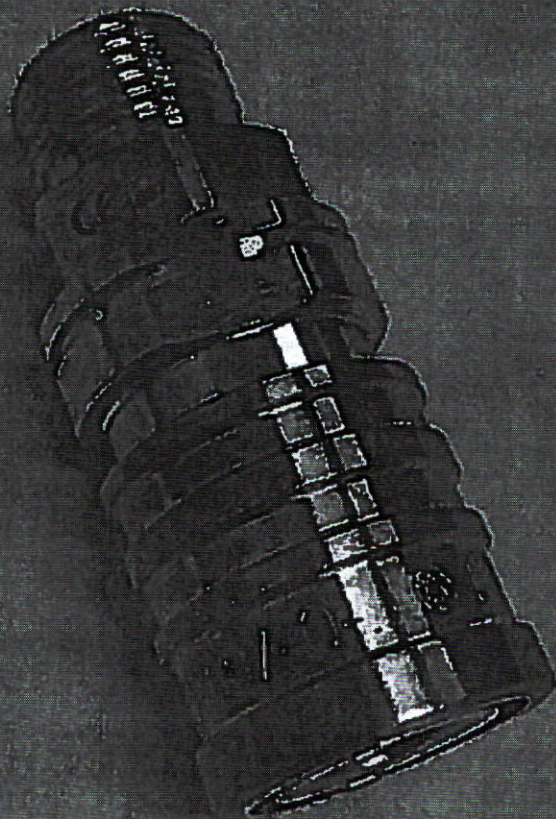
sep 03-1.2.37-1.182-75-0

ITEM NO: 17

MADE QUICK FK COUPLNG.

← CAP





ITEM NO. 15

23316

طلب تزويد رقم

المواد المطلوبة تحتاج إلى ضمان

لا تحتاج إلى ضمان

☒

تحتاج إلى ضمان 6 شهور بعد التركيب والتشغيل

☐

تحتاج إلى ضمان 12 شهر بعد التركيب والتشغيل

☐

ملاحظة : مع مراعاة أن يقوم المورد على نفقته الخاصة بتقديم كافة خدمات الدعم الفني بما يضمن استمرارية العمل دون توقف طبقاً لما ورد بطلب التوريد .

إعتماد الجهة الطالبة

م/ علي فايز قاسم
إدارة محطة الزور الجنوبية

21 APR 2024

م. ناصر طه الجبل المطيري
رئيس اللجنة

16 APR 2024
م. فياض بن جاسر الغريب
مراقب الصيانة الميكانيكية
محطة الزور الجنوبية

مهندس / خالد عبد الكريم الأبراهيم
رئيس اللجنة