Bifold

BIFOLD DOMINO SERIES VALVE MAINTENANCE INSTRUCTIONS

The BIFOLD DOMINO series valve maintenance instructions follow the same format as the catalogue.
Each valve body,actuator and static return device type is covered by an individual maintenance instruction.
A set of maintenance instructions will contain the following

I, VALVE BODY INSTRUCTION
II, PRIMARY ACTUATOR INSTRUCTION
III, SECONDARY ACTUATOR OR RETURN DEVICE INSTRUCTION.

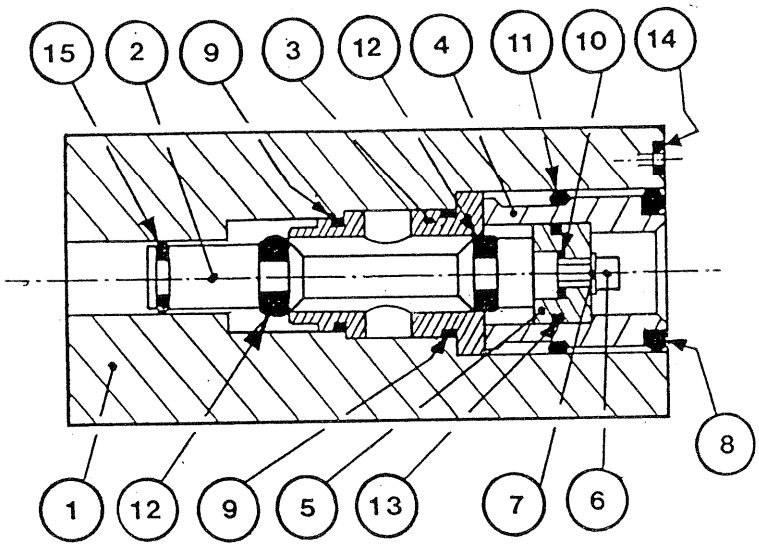
SEAL REPAIR KITS: seal repair kits are available from BIFOLD. When ordering a seal repair kit prefix the full valve model number with the letters SRK.

e.g. SRK S06 E1 32 NC 00 96 24v DC

Wherever possible give the valve serial numbers and any special requirements to assist selection of the correct seal kit for your valves.

S06-E1-32-NC-00-96.

Bifold Maintenance Instructions



VALVE BODY INTRUCTION MODELS
06,09,12

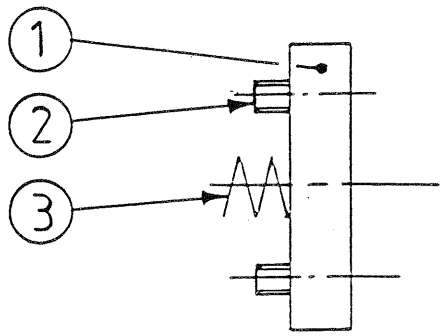
THIS SHEET COVERS THE VALVE BODY INSTRUCTIONS ONLY, FOR MAINTENANCE OF PRIMARY OR SECONDARY ACTUATORS SEE THE RELEVANT MAINTENANCE SHEET.

1, REMOVE THE VALVE FROM THE PIPEWORK AND IF RELEVANT, ELECTRICAL SUPPLY FOR SOLENOID VALVES.
2, REFER TO THE RELEVANT SHEETS FOR REMOVAL OF ACTUATOR ASSEMBLIES.
3, REMOVE THE PISTON END CAP AND 'O' SEALS (ITEMS 4,8,11) FROM THE VALVE BODY.
4, REMOVE THE STEM ASSEMBLY COMPLETE (ITEMS 2,5,6,7,10,12,13,15).
5, REMOVE THE POPPET SEAT (ITEM 3) COMPLETE WITH 'O' SEAL (ITEM 9).
6, REMOVE ALL 'O' SEALS FROM THE COMPONENTS TO BE RE-USED.
7, CLEAN AND INSPECT ALL COMPONENTS TO BE RE-USED FOR DAMAGE OR WEAR.
8, FIT NEW 'O' SEALS TO THE STEM ASSEMBLY (ITEMS 2,5) 'O' SEALS (ITEMS 10,12,15).
9, FIT NEW 'O' SEALS TO THE POPPET SEAT (ITEM 3) 'O' SEAL (ITEM 9).
10, FIT NEW 'O' SEALS TO THE PISTON END CAP (ITEM 4) 'O' SEAL (ITEM 9).
11, LUBRICATE THE 101 SEALS WITH SILICON GREASE OR SIMILAR.
12, CAREFULLY FIT THE POPPET SEAT (ITEM 3) INTO THE VALVE BODY.
13, REFIT THE STEM ASSEMBLY INTO THE VALVE BODY.
14, REFIT THE PISTON END CAP INTO THE VALVE BODY.
15, FIT NEW 'O' SEALS (ITEMS 8,14).
16, ENSURE THE STEM ASSEMBLY MOVES FREELY WITHIN THE VALVE BODY.
17, REFER TO THE RELEVANT ACTUATOR DATA SHEET FOR REFITTING THE PRIMARY AND SECONDARY ACTUATORS.

TESTING: REFER TO THE VALVE LABEL FOR MINIMUM AND MAXIMUM WORKING PRESSURES. TEST THE COMPLETE VALVE ON LOW PRESSURE TO ENSURE CORRECT OPERATION PRIOR TO RAISING THE PRESSURE TO NORMAL WORKING CONDITIONS.

Bifold DOMINO CODE 00

MAINTENANCE INSTRUCTIONS



SPRING RETURN END CAP ASSEMBLY

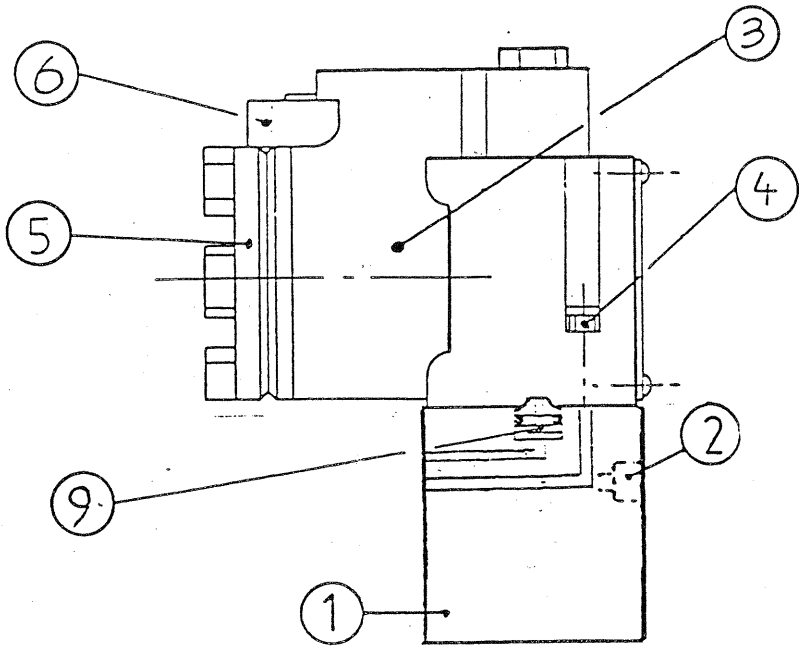
This sheet covers maintenance of the spring return end cap only,refer to the relevant maintenance data sheet for valve body and actuator instructions.
The spring end cap may be removed from the valve body without disturbing pipework.The valve must be de-energized and the air supply switched off prior to removal.

1, Remove the four socket head cap screws (item 2) and spring end cap (item 1) from the valve body.
2, Remove the spring (item 3) from the valve body.
3, Fit a new spring (item 3) into the valve body and replace the spring end cap and socket head cap screws (items 1,2).

NOTE: 3 port 2 position valve spring end caps have a vent drilling in the centre of the cap, this hole must be kept clear.
5 port 2 position valve spring end caps do not have a vent drilling.

REPLACEMENT SPRINGS: To obtain replacement springs quote the valve model number and serial number to obtain the correct spring.
Special heavy duty springs are available, consult BIFOLD.

Bifold DOMINO CODE E1 96



BASIC E1 ACTUATOR WITH CODE 96 SOLENOID

This sheet covers maintenance of the actuator only, refer to the relevant maintenance data sheet for valve body instructions.

1 *Remove the complete valve from the actuator, to disconnect the wiring release the lid locking screw (Item 6) and unscrew the solenoid terminal cover (Item 5). Disconnect the wiring to the terminal block and internal earth point. Disconnect the external earth wire and remove the cable gland.*

2 *Remove the four socket head cap screws (Item 2) retaining the actuator to the valve body.*

3 *Remove the two socket head cap screws (Item 4) retaining the solenoid (Item 3) to the actuator block (Item 1).*

4 *Inspect the moving core for damage or wear.*
NOTE:- The moving core with spring and 'O' seal are available as a seal repair kit. Quote SRK E1 96 Actuator.

5 *Clean and inspect components to be reused.*

6 *Refit the solenoid (Item 3) on to the actuator block (Item 1) using screws (Item 4).*

7 *Refit the actuator assembly complete, to the valve body using screws (Item 2).*

8 *Re-connect the wiring to the internal connecting block and external earth point, refit the solenoid terminal cover (item 5), relock the lid locking screw (Item 6).*
TESTING: Refer to the valve label for minimum and maximum working pressures, test the valve on low pressure to ensure full operation prior to raising the pressure to normal working conditions.
NOTE: The solenoid jet (Item 9) is factory preset. Do not adjust or remove.

DWG NO.
400—1047

PROJECTION

NOTES:— TOLERANCES:
METRIC WHOLE NUMBERS ± 0.4
DECIMAL PLACES ± 0.127
IMPERIAL FRAC. ± 1/64"
DECIMALS ± 0.005"

GENERAL FINISH 1.6um
GENERAL ANGULAR TOLERANCE ± 1°
UNSPECIFIED RADII 0.5
REMOVE BURRS AND SHARP EDGES

ALL DIMENSIONS IN mm. UNLESS OTHERWISE STATED
ALL SURFACE FINISH IN um.
FOR EXPLANATION OF NOTES DIMENSIONS, ETC SEE BS308.
DO NOT SCALE.

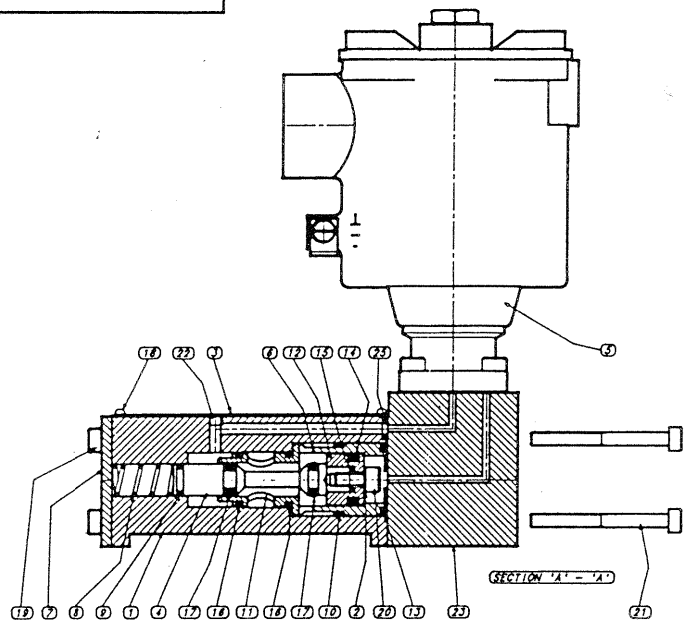
REV	DATE	ALTERATION / D.C.O. No.	BY
A	10/09/96	NEW DRAWING	M.C

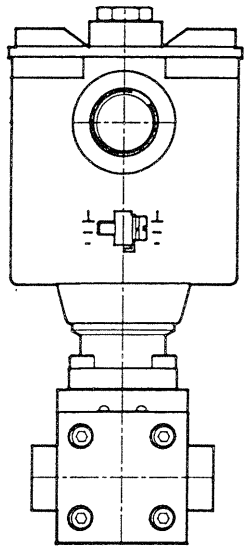
SCALE 1:1

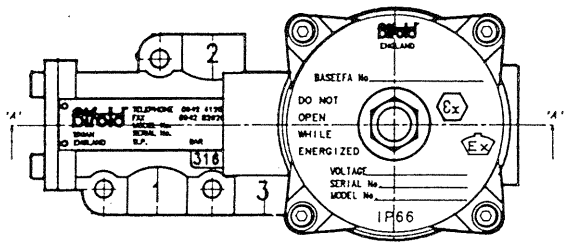
MATERIAL
AS LISTED

APPROVED FOR PRODUCTION:—

TITLE.
MAINTENANCE INSTRUCTION
S06—E1—32—NC—00—900







ITEM	PART No	DESCRIPTION	QTY	MATERIAL	Srk
1	1-90-1-9S	VALVE BODY	1	BS970/1/3 316S11	
2	100-84	WASHER FLAT M4	1	GRADE A4 ST/STEEL	
3	140-15	LABEL	1	BS970 316S11 24 SWG	
4	2-199S	STEM	1	BS970/1/3 316S11	
5	38-900	SOLENOID	1		
6	6-146-1S	PISTON END CAP	1	BS970/1/3 316S11	
7	7-54-1S	SPRING END CAP	1	BS970/1/3 316S11	
8	88-2J	SPRING	1	BS2056 316 S42	•
9	90-11V	'O' SEAL	1	VITON	•
10	90-504V	'O' SEAL	1	VITON	•
11	72-6-1S	POPPET SEAT	1	BS970/1/3 316S11	
12	71-168S	PISTON HEAD	1	BS970/1/3 316S11	
13	90-606V	'O' SEAL	1	VITON	•
14	90-607V	'O' SEAL	1	VITON	•
15	90-608V	'O' SEAL	1	VITON	•
16	90-501V	'O' SEAL	2	VITON	•
17	90-605V	'O' SEAL	2	VITON	•
18	141-1	RIVETS	4	GRADE A4 ST/STEEL	
19	96-4-8	M4 SOCKET HEAD CAP SCREW	4	GRADE A4 ST/STEEL	
20	96-4-10	SOCKET HEAD CAP SCREW	1	GRADE A4 ST/STEEL	
21	96-4-40	M4 SOCKET HEAD CAP SCREW	4	GRADE A4 ST/STEEL	
22	93-53-6	M4 SOCKET SET SCREW	1	GRADE A4 ST/STEEL	
23	6-324-4S	SOLENOID BLOCK	1	BS970/1/3 316S11	
24	88-33-2	SPRING	1	BS2056 316 S42	•
25	90-50V	'O' SEAL	1	VITON	•
26	90-11V	'O' SEAL	2	VITON	•
27	90-615V	'O' SEAL	1	VITON	•
28	90-888V	'O' SEAL	1	VITON	•
29	90-99V	'O' SEAL	1	VITON	•
30	90-93V	'O' SEAL	1	VITON	•
31	90-82V	'O' SEAL	1	VITON	•

ITEMS MARKED THUS '•' INCLUDED IN SEAL REPAIR KIT 'SRKS06—E1—32—NC—00—900'

ITEMS 25 TO 31 ARE INTERNAL ITEMS OF THE SOLENOID AND ARE NOT SHOWN.

OPERATING AND MAINTENANCE INSTRUCTIONS FOR
BIFOLD DOMINO SERIES VALVE S06—E1—32—NC—00—(900 SERIES)

REMOVE SOLENOID CAP AND SOLENOID, BY UNSCREWING THE FOUR SOCKET HEAD CAP SCREWS (ITEM 21).
REMOVE THE PISTON END CAP AND 'O' SEALS (ITEMS 6,13 AND 10), FROM THE VALVE BODY (ITEM 1).
REMOVE THE STEM ASSEMBLY COMPLETE (ITEMS 2,4,9,12,14,17,19 AND 20).
REMOVE THE POPPET SEAT (ITEM 11) COMPLETE WITH 'O' SEALS (ITEM 16).
REMOVE ALL 'O' SEALS FROM THE COMPONENTS TO BE RE-USED.
CLEAN AND INSPECT ALL COMPONENTS TO BE RE-USED FOR DAMAGE OR WEAR.
FIT NEW 'O' SEALS TO THE STEM ASSEMBLY (ITEMS 4 AND 12),'O' SEALS (ITEMS 9,14,17).
FIT NEW 'O' SEALS TO THE POPPET SEAT (ITEM 11) 'O' SEALS (ITEMS 16).
FIT NEW 'O' SEALS TO THE PISTON END CAP (ITEM 6) 'O' SEALS (10 AND 13).
LUBRICATE THE 'O' SEALS WITH SILICON GREASE OR SIMILAR. CAREFULLY FIT THE POPPET SEAT (ITEM 11) INTO THE VALVE BODY.
REFIT THE PISTON END CAP INTO THE VALVE BODY, COMPLETE WITH 'O' SEALS.
ENSURE THE STEM ASSEMBLY MOVES FREELY WITHIN THE VALVE BODY.
REFIT THE SOLENOID CAP AND SOLENOID TO THE VALVE BODY ENSURING ALL SOLENOID FEED DRILLINGS MEET UP IN THE CORRECT POSITION.

TESTING:— REFER TO THE VALVE LABEL FOR MAXIMUM AND MINIMUM OPERATING PRESSURES.
TEST THE COMPLETE VALVE ON LOW PRESSURE TO ENSURE CORRECT OPERATION PRIOR TO RAISING THE PRESSURE TO NORMAL WORKING CONDITIONS.

Bifold® COMPANY (MANUFACTURING) LIMITED

DWG NO.
400—1047