

# BRCF 014

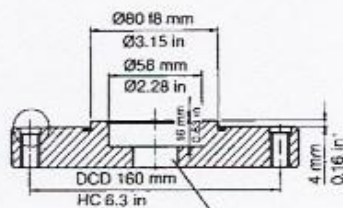
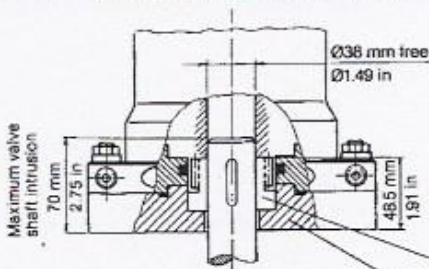
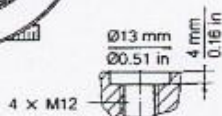
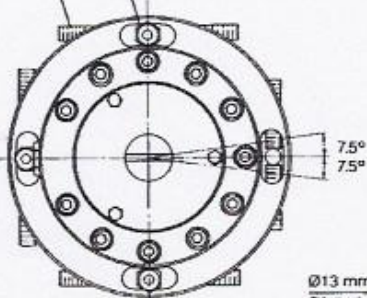
## Hydraulic Single-Acting Balanced Rotary Actuator 90° (Quarterturn) Fail-safe

B1

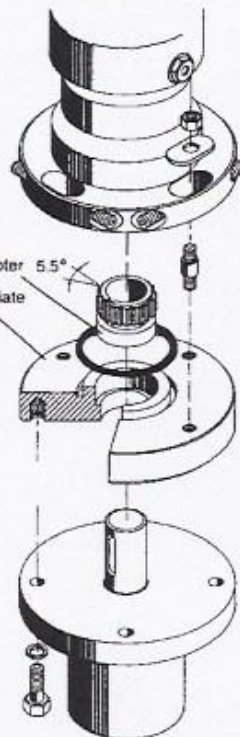
### Valve Adaption:

Adjustment screw, torque: max. 13 Nm ~ 110 lbf·in

Fastening nut, torque: 35 Nm ~ 300 lbf·in



Pre-bored  
Ø20 mm  
0.79 in

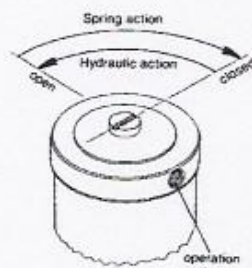
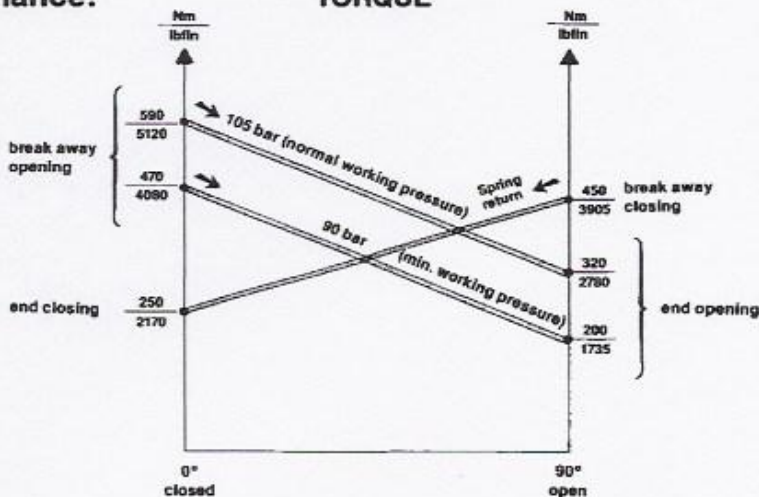


Limits for the Machining of the Adapter

Max. shape of valve spindle					
mm	30	30	30	26	p+q: 38
in	1.18	1.18	1.18	1.02	1.5

### Performance:

#### TORQUE



PARTS, SPARE PARTS, & MATERIAL LIST		SHEET: 1 OF 2	
COMPONENT, TYPE & VERSION		PSM NO. 160N4009	
BRCF 014 - B1		DATE: _____ BY: _____ CHECK: _____	
Notes: All items with stated ID nos. can be purchased as spare parts. When ordering spare parts - state ID no.			
DRAWINGS REFERRED TO:			
DRAWING NO.	REF.	DESCRIPTION	QTY.
160N9202	a	Assembly Drawing	900605 SV
b			
c			
d			

PARTS, SPARE PARTS, & MATERIAL LIST		SHEET: 2 OF 2	
COMPONENT, TYPE & VERSION		PSM NO. 160N4009	
BRCF 014 - B1		DATE: _____ BY: _____ CHECK: _____	

ITEM NO.	REF.	DESCRIPTION	QTY.	MATERIAL	GTN NO.
29	a	Locking disc M8 DIN 6798	8	C15	
30	a	Copper disc $\phi 17/\phi 22 \times 1,5$	1	Copper	L02
31	a	Name plate	1	Stainless	F90
32	a	Pin $\phi 1,9 \times 5$	4	Stainless	8A4
33					
34					
35	a	Glydring $\phi 102/\phi 86,5 \times 6,3$	1	Turcite	46 PF3
36					
37	a	Screw M8x55 6K DIN 933	4	8.8	08.8
38	a	Warning plate 55 x 26 x 0.5	2	Stainless	F90
39		Pin $\phi 1.9 \times 5$	4	70/A2	7A2
200	a	Adhesive open/shut sign plate	1	Stainless	5A2

160N4258 Seal set BRCF 014 - B1  
Consisting of item 13-14-15-16-18-19-20-35-39.

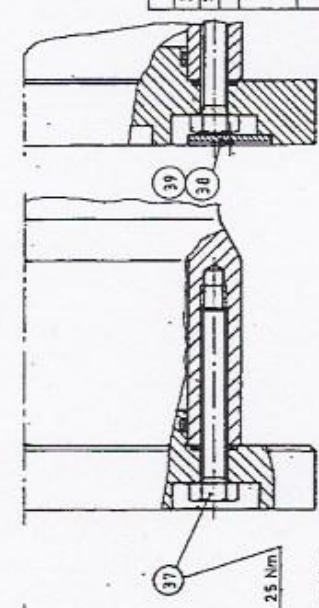
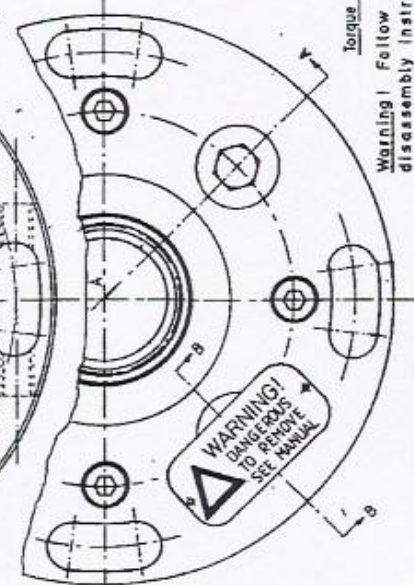
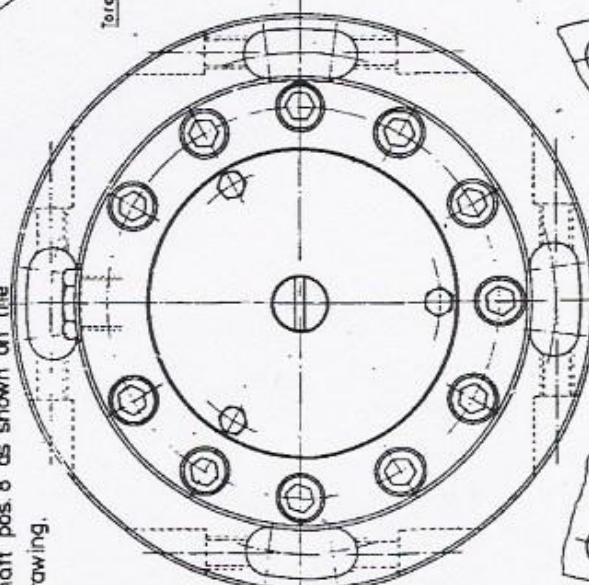
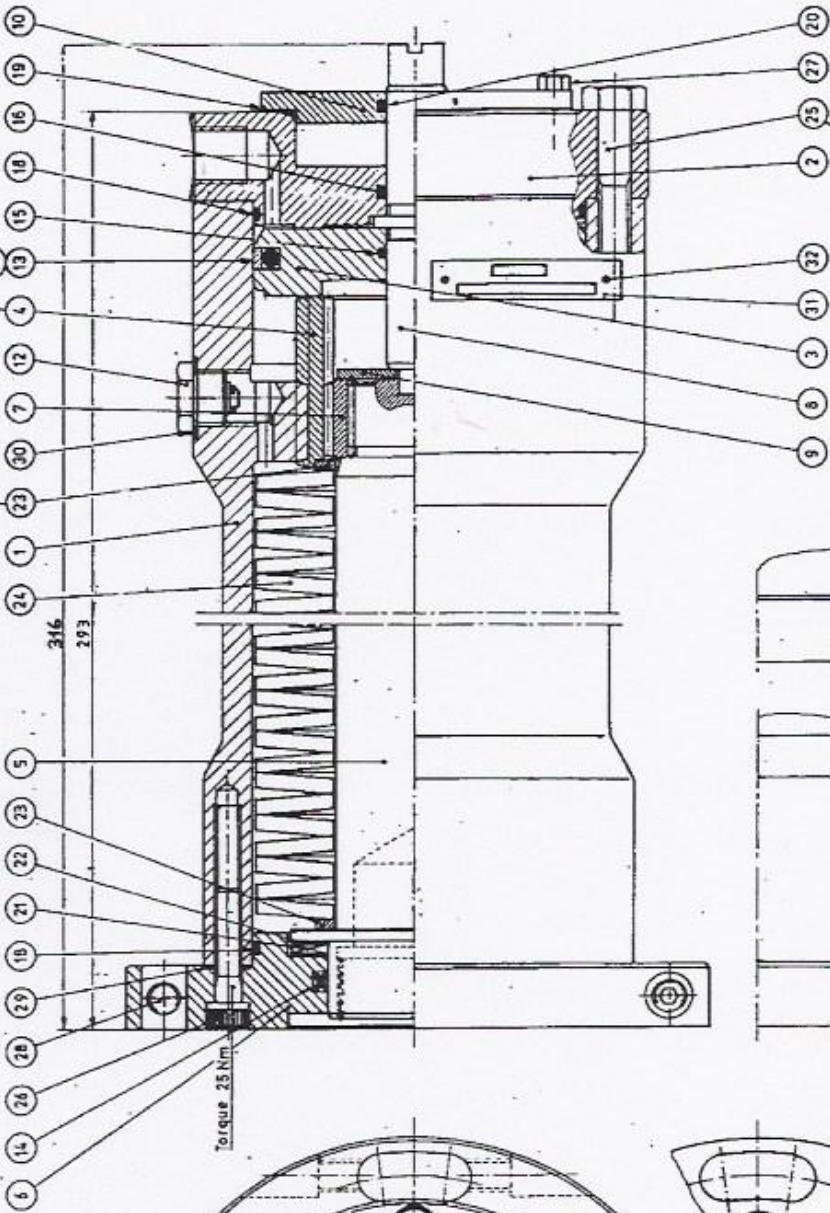
ITEM NO.	REF.	DESCRIPTION	QTY.	MATERIAL	GTN NO.
01	a	Housing	1	GGG 40	A10
02	a	Top cover	1	GGG 40	A10
03	a	Piston	1	GGG 40	A10
04	a	Splined member	1	GGG 40	A10
05	a	Output shaft	1	SKF 280	B58
06	a	Bottom flange	1	GGG 40	A10
07	a	Clutch member	1	GGG 40	A10
08	a	Indicator shaft	1	S-1802	F10
09	a	Disc	1	9SMnPB28	B50
10	a	Top cover	1	MS 58	L05
11					
12	a	Breather valve	1	MS 58	L05
13	a	O-ring 85,09x5,33	1	Buta	NBR
14	a	X-ring 54,50/ 65,16x5,33	1	Buta	PD
15	a	X-ring 17,75/ 22,99x2,62	1	Buta	PD
16	a	X-ring 17,75/ 22,99x2,62	1	Buta	PD
17					
18	a	O-ring 94,50x3,0	2	Buta	NBR
19	a	Gasket	1	Chloropr.	PD
20	a	X-ring 17,75/22,99x2,62	1	Buta	PD
21	a	Thrust bearing $\phi 55$	1	St-3	F0L
22	a	Thrust disc $\phi 55$	2	100Cr6	F0L
23	a	Guide ring $\phi 51/\phi 62 \times 3,0$	2	C75	Y03
24	a	Disc spring 100/51x5,0 (4,7)	24	50CrV4	M15
25	a	Screw M10x50 6K DIN 931	11	8.8	08.8
26	a	Screw M8x35 C-16K DIN 912	4	8.8	08.8
27	a	Screw M5x12 C-16K DIN 912	3	A2/70	7A2
28	a	Pin screw M10x30 DIN 916	8	A2/70	7A2

Before mounting of the piston pos. 3  
approx. 0.5% gear oil must be poured  
over the spined member pos. 4.

LUBRICATED WITH MOLYCOTE

TO RETAIN POS. 23 USE ONLY MOLYCOTE

A special tool must be used for  
establishing the right position of  
the indicator mark on the indicator  
shaft pos. 8 as shown on the  
drawing.



Warning! Follow  
disassembly instruction

<b>Danfoss</b> DANFOSS SYSTEM HYDRAULIK A/S		ASSEMBLY DRAWING BRCF 014		76019202	
Danfoss Hydraulic A/S Industrivej 15 DK-2600 Lyngby Denmark		Danfoss Hydraulic A/S Industrivej 15 DK-2600 Lyngby Denmark		Danfoss Hydraulic A/S Industrivej 15 DK-2600 Lyngby Denmark	
DRAWN BY: [ ] CHECKED BY: [ ] DATE: [ ]	DESIGNED BY: [ ] DATE: [ ]	MANUFACTURED BY: [ ] DATE: [ ]	PART NO.: [ ]	QUANTITY: [ ]	UNIT: [ ]