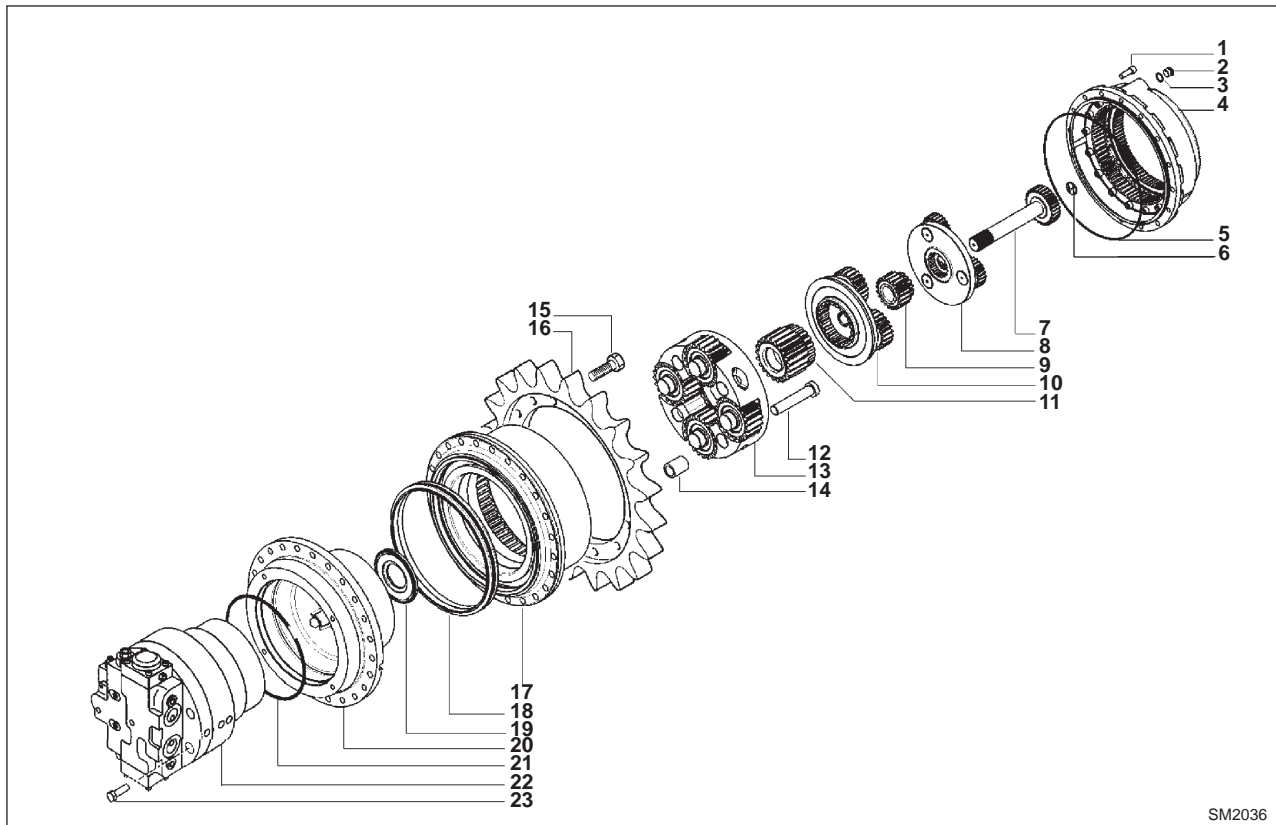


Gearbox

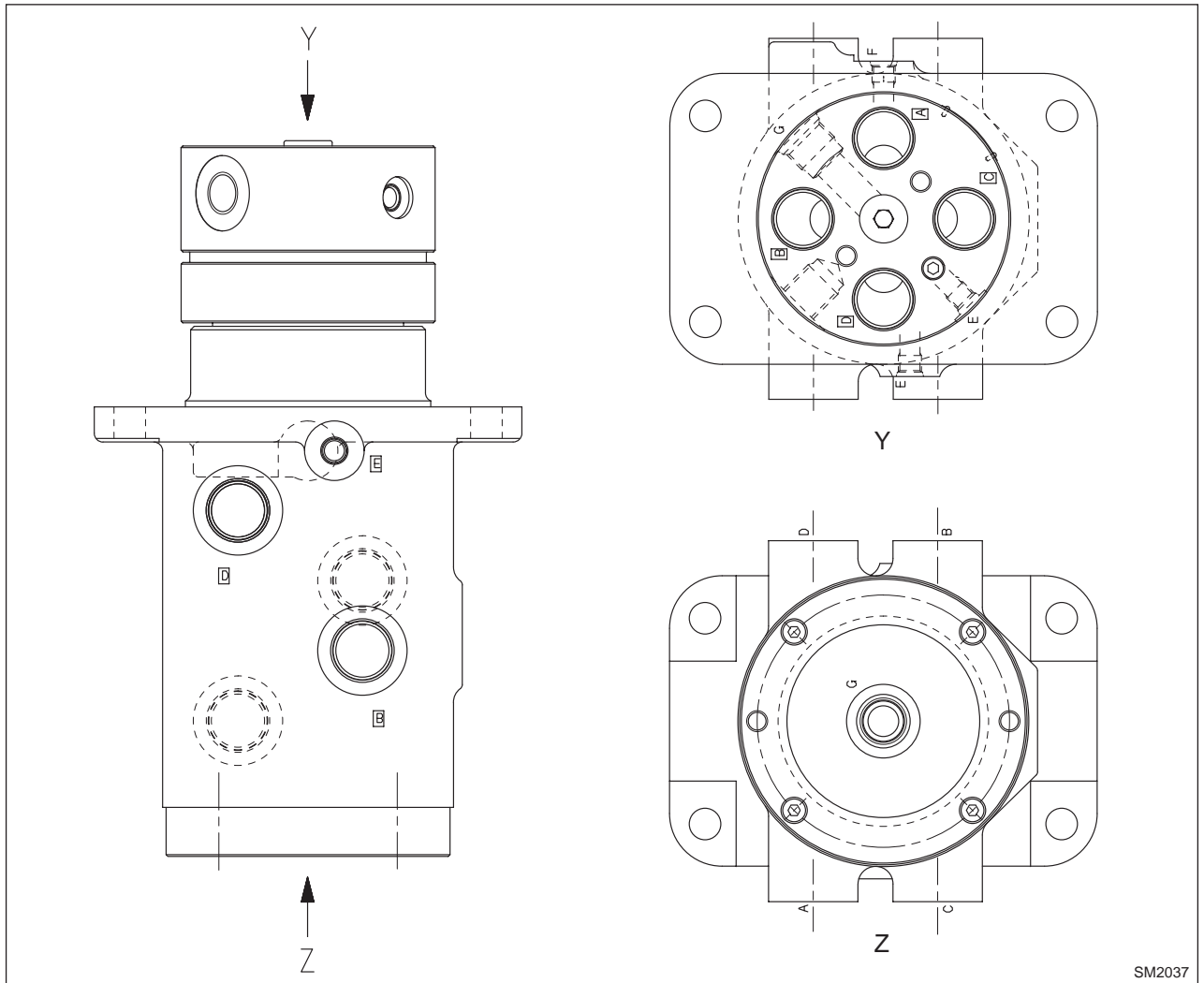


SM2036

- | | |
|--|---|
| 1 - Screw M14x40 (Q.ty 16) 190 Nm (140 lbf-ft) | 13 - Third reduction assembly |
| 2 - Oil breather plug M22x1.5 (Q.ty 2) 30÷40 Nm (22÷29.5 lbf-ft) | 14 - Bush (Q.ty 4) |
| 3 - Washer (Q.ty 2) | 15 - Screw M24x65 (Q.ty 24) 950 Nm (700.6 lbf-ft) |
| 4 - Cover assembly | 16 - Sprocket |
| 5 - O-Ring | 17 - Gearbox housing |
| 6 - Pad | 18 - Lifetime seal |
| 7 - Sun gear | 19 - Discs retainer |
| 8 - First reduction assembly | 20 - Hub |
| 9 - Sun gear | 21 - O-Ring |
| 10 - Second reduction assembly | 22 - Hydraulic motor |
| 11 - Sun gear | 23 - Screw M18x60 (Q.ty 4) 295 Nm (218 lbf-ft) |
| 12 - Screw M30x2x150 (Q.ty 4) 1480 Nm (1091.5 lbf-ft) | |

OUTLINE

General view

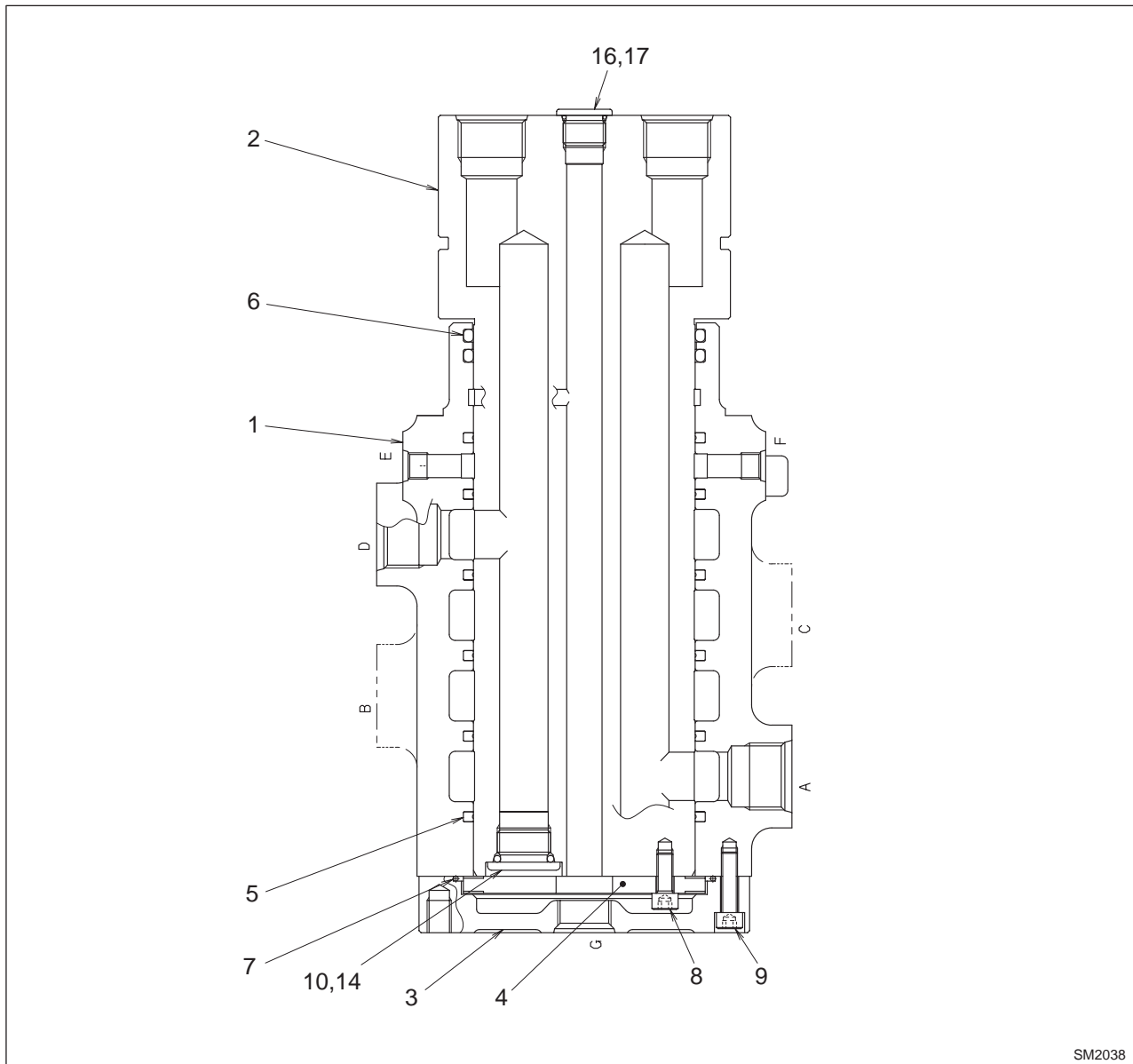


SM2037

Specifications

High pressure ports A,B,C,D	Working pressure	34.3 MPa (4973.5 psi)
	Max. impact pressure	51.5 MPa (7467.5 psi)
	Rated flow	370 L/min (98 gal/min)
Low pressure ports E, F	Working pressure	5 MPa (725 psi)
	Rated flow	40 L/min (10.7 gal/min)
Low pressure ports G	Working pressure	0.49 MPa (71 psi)
	Rated flow	12 L/min (3.2 gal/min)
Revolution		12 min ⁻¹
Ports size	A,B,C,D (body)	PF 1
	A,B,C,D (stem)	PF 1
	E, F	PF 1/4
	G	PF 3/4
Length (height)		405.5 mm (16 in)
Weight		53 kg (117 lbs)

CONSTRUCTION



1- Body

2- Stem

3- Cover

4- Thrust plate

5- Seal (Q.ty 6)

6- O-Ring (Q.ty 2)

7- O-Ring

8- Capscrew; M8x20 (Q.ty 2) 30.4 Nm (22.4 lbf-ft)

9- Capscrew; M8x30 (Q.ty 4) 30.4 Nm (22.4 lbf-ft)

10- Plug (Q.ty 4)

11- Plug

14- O-Ring (Q.ty 4)

16- Plug

17- O-Ring

OPERATION

The swivel joint consists mainly of body (1) and stem (2) that rotate mutually, thrust plate (4) preventing both components from falling off, cover (3) closing one side of body (1), seal (5) that partitions off the circuits and O-ring (6) and (7) that prevent external leaks.

Four ports for the travel main circuits are provided on body (1) and stem (2). Further, four oil passing grooves are arranged in the inner surface of body (1), with seal (5) fixed above and below the circumferential groove.

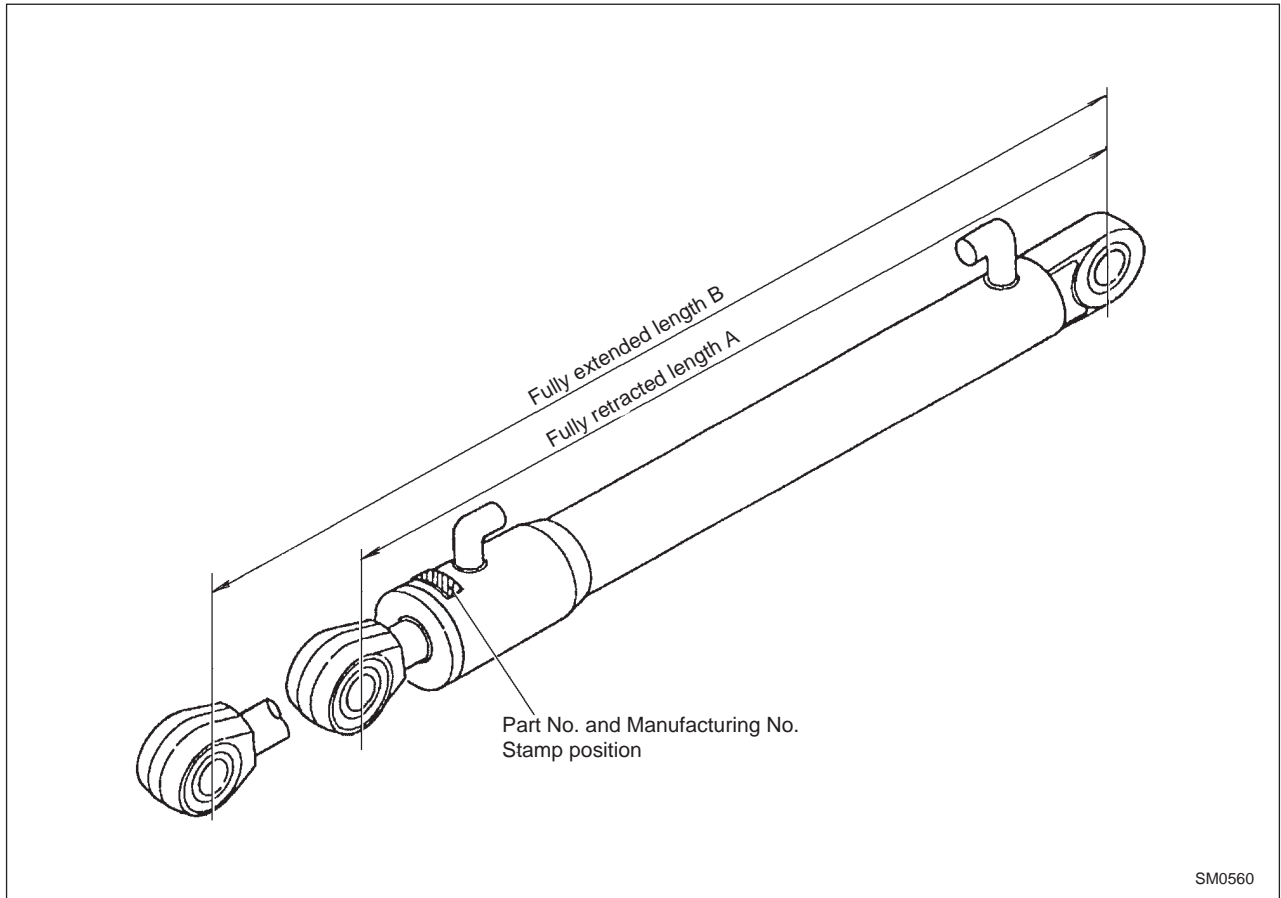
The body (1) and the stem (2) rotate mutually. The oil flowing in from body (1) or stem (2) keeps on flowing to stem (2) or body (1) past the circumferential groove between body (1) and stem (2); the oil flow is never shut off because of rotation. Further, an oil groove for lubrication that connects with the drain port is provided, in order to prevent the body (1) from seizure with the stem (2).

This construction keeps on connecting the circuits between the swing bodies by means of a swivel joint.

NOTE:

OUTLINE

General view



Specifications

Use	Cylinder bore Rod Dia. (mm)	Stroke (mm)	Center distance of pins Full extend B / Full retract A (mm)	Cushion	Dry weight
					(kg) (lbs)
Boom	Ø 170 / Ø 115	1589	3789 / 2200	With cushion on rod side	415 (915)
Arm	Ø 190 / Ø 130	1970	4600 / 2630	With cushion on both sides	584 (1288)
Bucket	Ø 170 / Ø 120	1300	3325 / 2025	With cushion on rod side	416 (917)