

1/8

FIG.1

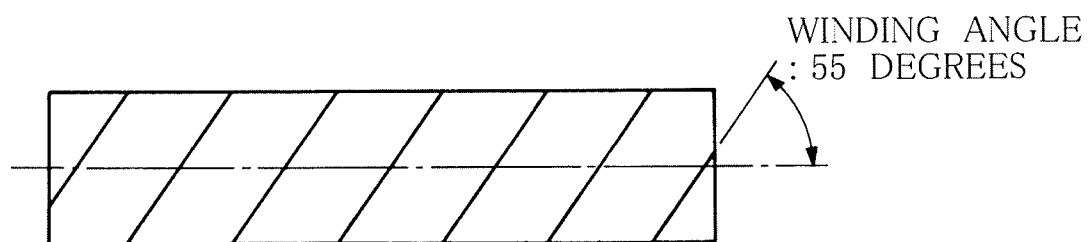


FIG.2

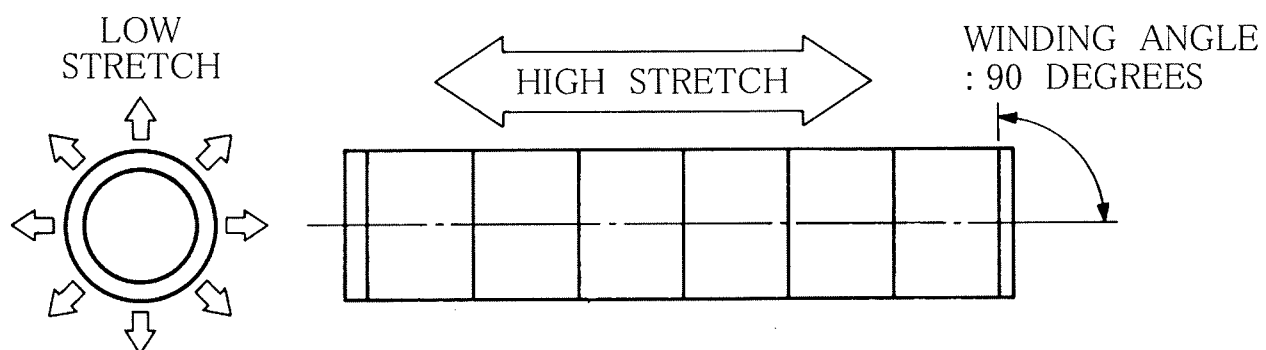


FIG.3

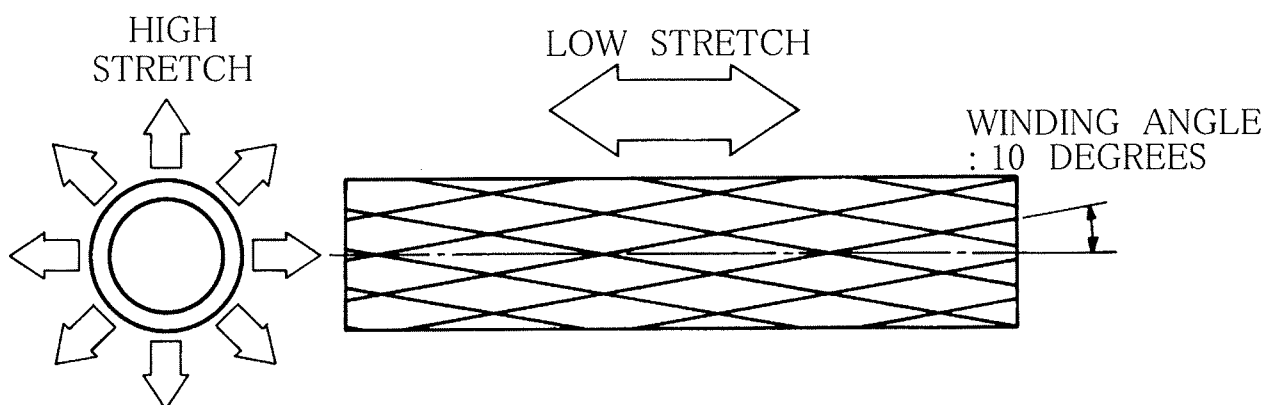


FIG. 4

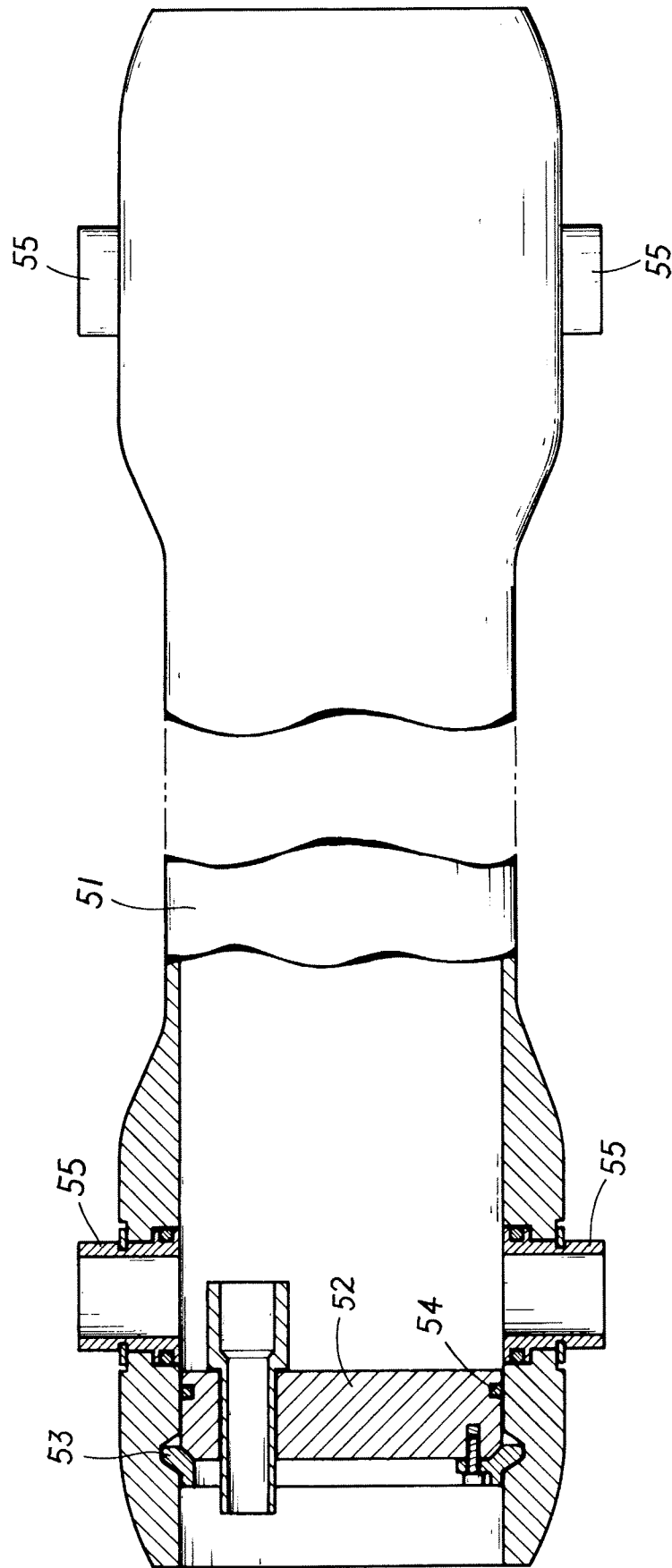


FIG.5

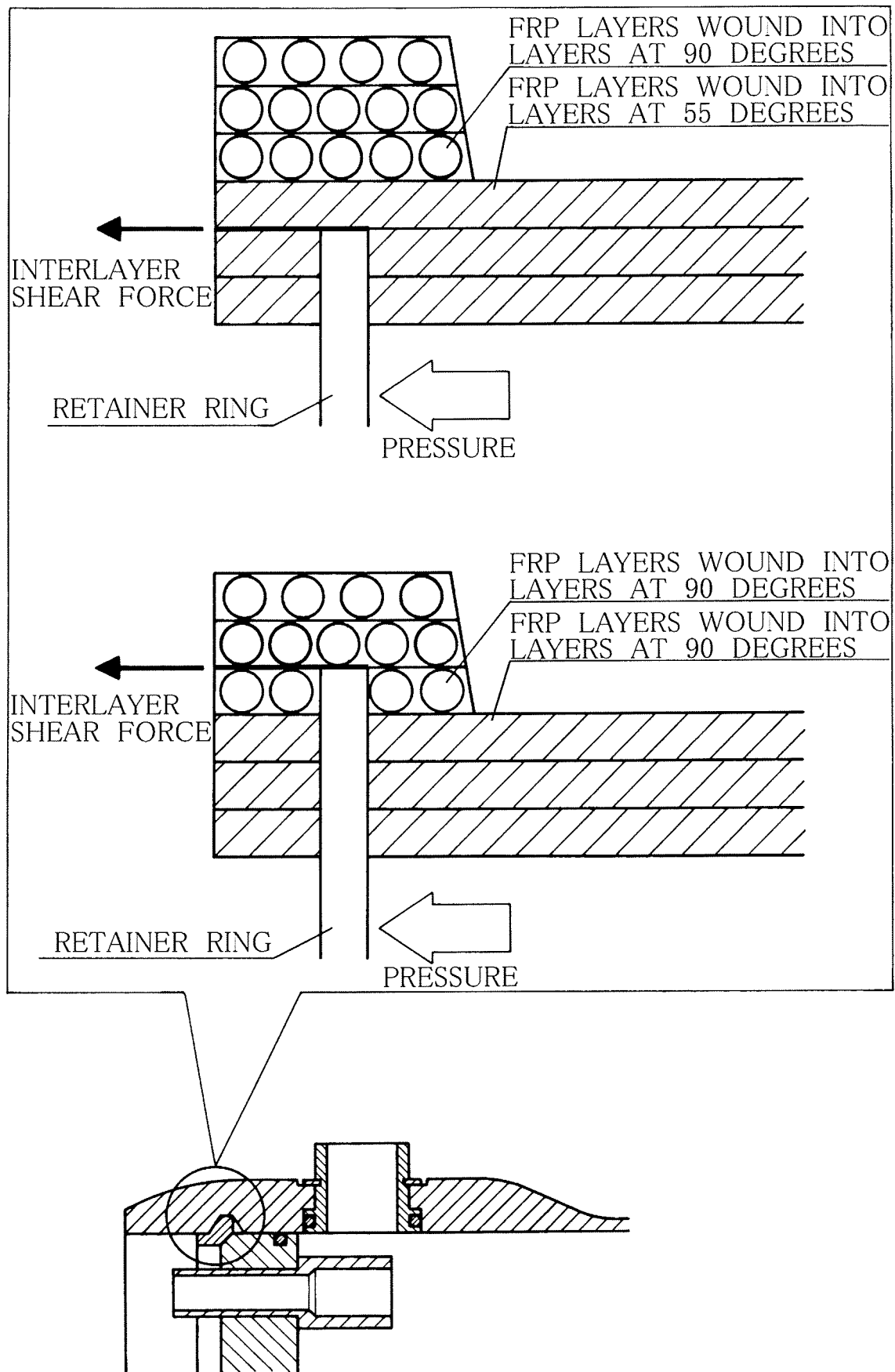


FIG.6

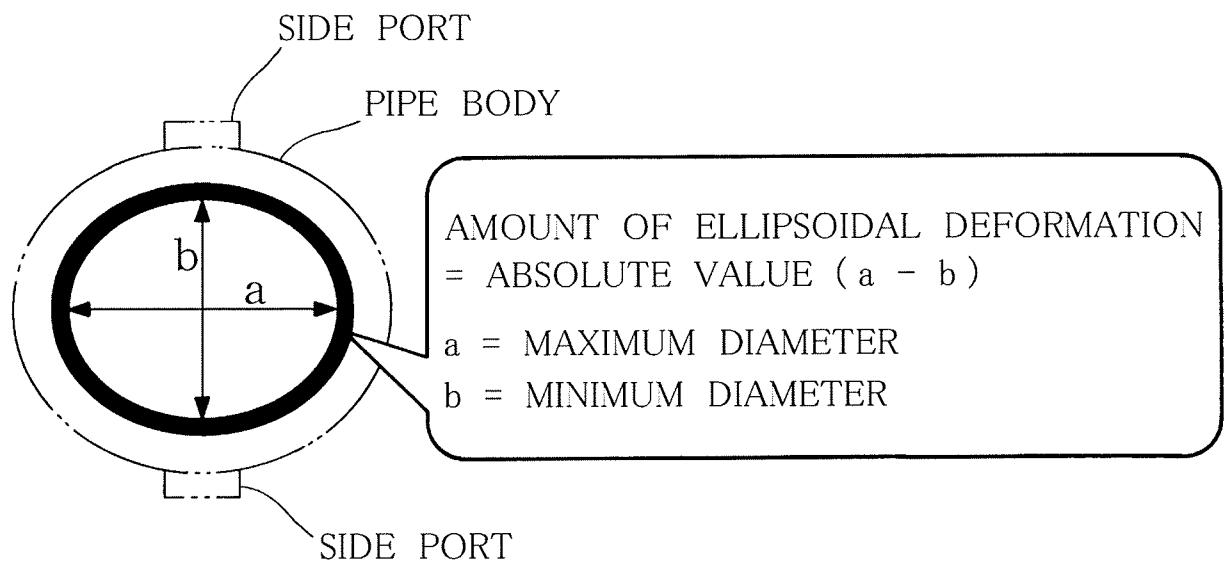


FIG. 7

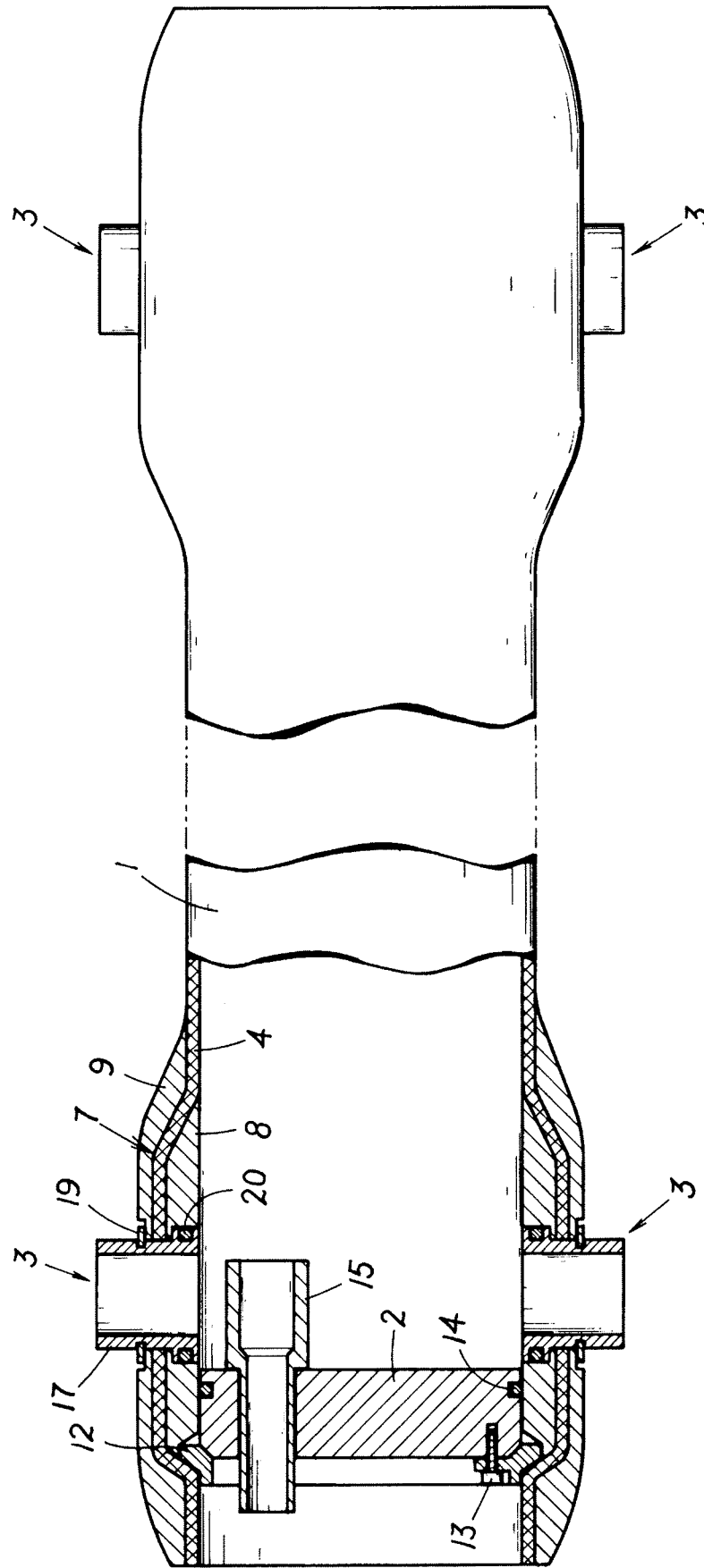


FIG.10

		MATERIAL USED FOR VESSEL INNERMOST LAYER		
		POLYESTER NONWOVEN ONLY	GLASS NONWOVEN (GLASS PAPER) + POLYESTER NONWOVEN	GLASS NONWOVEN (GLASS PAPER ONLY)
WINDING METHOD	1/4 LAP	LEAKAGE AT 16.5 Hr	NO LEAKAGE AT 48 Hr	NO LEAKAGE AT 48 Hr
	3/4 LAP	LEAKAGE AT 27.5 Hr	NO LEAKAGE AT 48 Hr	NO LEAKAGE AT 48 Hr

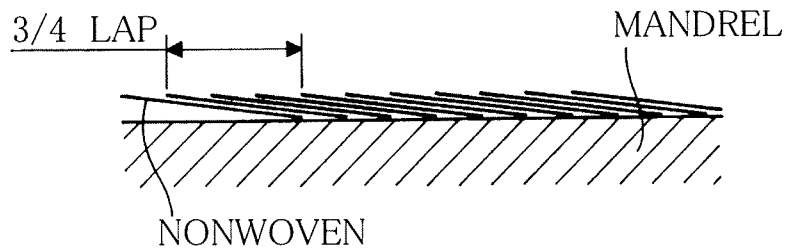
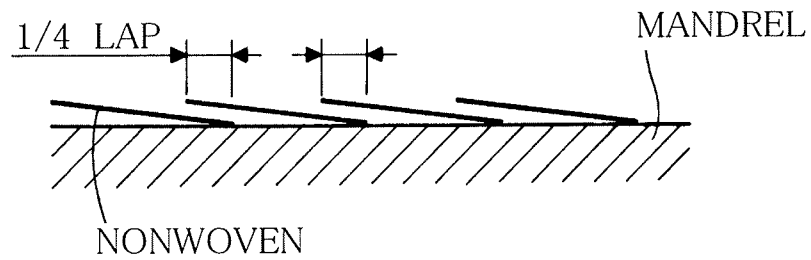


FIG.11

PIPE BODY INSIDE DIA. 8 IN. (ϕ 202 mm) SIDE PORT DIA. 3 IN.	AMOUNT OF ELLIPSOIDAL DEFORMATION (mm)					
	COMP. EX. 1	COMP. EX. 2	COMP. EX. 3	TEST EX. 1	TEST EX. 2	TEST EX. 3
MEASURED VALUE	0.62	0.81	0.96	0.05	0.12	0.22

FIG.12

PIPE BODY INSIDE DIA. 10 IN. (ϕ 280 mm) SIDE PORT DIA. 4 IN.	AMOUNT OF ELLIPSOIDAL DEFORMATION (mm)					
	COMP. EX. 1	COMP. EX. 2	COMP. EX. 3	TEST EX. 1	TEST EX. 2	TEST EX. 3
MEASURED VALUE	0.70	0.88	1.06	0.09	0.18	0.27

FIG.13

PIPE BODY INSIDE DIA. 16 IN. (ϕ 404 mm) SIDE PORT DIA. 6 IN.	AMOUNT OF ELLIPSOIDAL DEFORMATION (mm)					
	COMP. EX. 1	COMP. EX. 2	COMP. EX. 3	TEST EX. 1	TEST EX. 2	TEST EX. 3
MEASURED VALUE	0.82	0.97	1.18	0.20	0.29	0.35