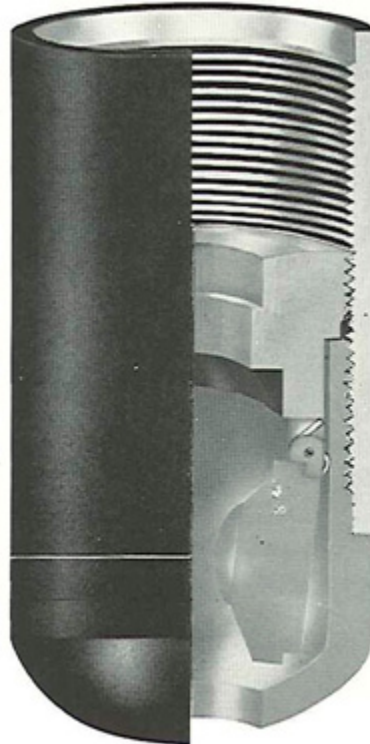




Industrial Rubber Inc.

3609 S. High Oklahoma City, Oklahoma 73129
Phone 405/632-9783 Fax 405/634-9637

Industrial Rubber, Inc. Flapper Type Float Equipment



Flapper Type Float Shoe

Industrial Rubber's Flapper-Type Shoe is designed for use where spring-loaded float equipment is required. This equipment is particularly *well-suited for holes* where the hole is not filled with fluid prior to running casing and for use where circulation is not needed to wash away bridges or condition the hole prior to cementing.

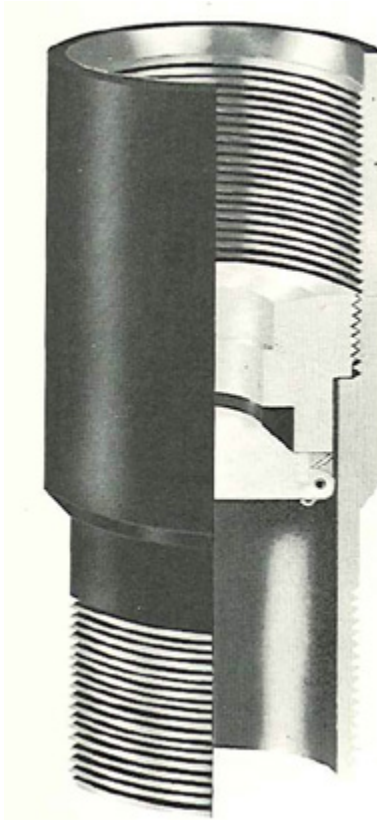
*The **heavy-duty** aluminum flapper valve is mounted on an aluminum disk and is seated firmly against a 1/4" inch rubber seat by the valve spring.*

The flapper valve and valve seat are designed to provide a firm seal when the valve is closed.

The back-pressure flapper valve seals where circulation is stopped.

The Flapper-Type Shoe is available in 2 7/8" to 13 3/8"

| Flapper-Type Float Shoe | |
|--|--------------------|
| Size | Part Number |
| 2 7/8" | 231-0027 |
| 3 1/2" | 231-0034 |
| 4 1/2" | 231-0044 |
| 5 1/2" | 231-0054 |
| 6 5/8" | 231-0065 |
| 7" | 231-0070 |
| 7 5/8" | 231-0075 |
| 8 5/8" | 231-0085 |
| 9 5/8" | 231-0095 |
| 10 3/4" | 231-0106 |
| 11 3/4" | 231-0116 |
| 12 3/4" | 231-0126 |
| 13 3/8" | 231-0133 |
| Larger Sizes are available upon request | |
| * The Aluminum Alloys used in this product are PDC Drillable and have traceability. | |



Flapper Type Float Collar

Industrial Rubber's Flapper valve and valve seat construction in the Flapper-Type Float Collar is the same as that in the shoe. The Collar may be run above and Float shoe or Guide Shoe.

Circulation through the collar may be achieved at any time **with assurance of a positive seal** when circulation is stopped.

The collar design will permit passage of a tripping-ball of given size to actuate downhole equipment.

Male bottom threads and female top threads are provided for convenience in making up on the casing string.

| Flapper-Type Float Collar | |
|--|---------------------------|
| <u>Size</u> | <u>Part Number</u> |
| 2 7/8" | 241-0027 |
| 3 1/2" | 241-0034 |
| 4 1/2" | 241-0044 |
| 5 1/2" | 241-0054 |
| 6 5/8" | 241-0065 |
| 7" | 241-0070 |
| 7 5/8" | 241-0075 |
| 8 5/8" | 241-0085 |
| 9 5/8" | 241-0095 |
| 10 3/4" | 241-0106 |
| 11 3/4" | 241-0116 |
| 12 3/4" | 241-0126 |
| 13 3/8" | 241-0133 |
| Larger Sizes are available upon request | |
| * The Aluminum Alloys used in this product are PDC Drillable and have traceability. | |