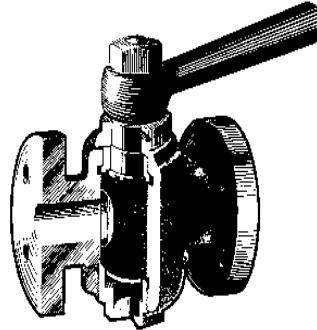


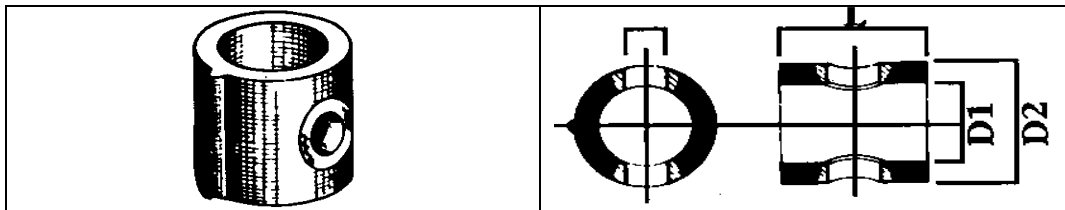
John Moncrieff Limited

Packing Sleeves



The majority of gauge cocks are sleeve packed. Sleeved packed means that a Packing Sleeve is contained within the cock to prevent it leaking. The Packing Sleeve is vital to the operation of the cock and therefore the gauge. The Packing Sleeves are exposed to considerable heat and pressure so it is important that there is a maintenance programme and that the sleeves are replaced on a regular basis.

The original Packing Sleeves were made by Klinger and the system of coding and sizing follows their format. The most popular sizes are as follows:



Size/Code	Inside Dia (D2)mm	Outside Dia (D1) mm	Uncompressed Length (L)mm
AB10	10	14	18.5
AB12	12	18	23
AB18	18	26	32
AB22	22	33	37
AB28	28	38	44
AB32	32	45	52
AB40	40	52	56
AB50	50	62	65

Also KU 16 Gland Ring
AB20 Taper

Other sizes can be manufactured on request. Spindles are available to suit.

Technical Information

In the thirty years since they were first invented, Moncrieff Sleeve-Packed Cocks have steadily replaced the old-fashioned asbestos-packed cocks with their limitations of working pressure, the difficulty of replacing and tendency to jam. Moncrieff Packing Sleeves are made from 99% pure graphite offer both superior-sealing properties combined with excellent resistance to water and heat.

The Sleeve-Packed Cock depends for its tightness upon a renewable parallel sleeve of compressed asbestos, which is inserted in the body as a single unit. The plug is perfectly parallel and is ground to size, so that there is no risk of the cock jamming when it is tightened up.

A ridge on one side of the sleeve fits into a corresponding groove in the body, and ensures that the ports are always in line. Stainless steel eyelets recessed in the sleeve prevent the asbestos from squeezing into the ports when tightening up and, at the same time, prevent the passing fluid from cutting the asbestos packing. These eyelets are conical in section, so that when the bottom tightening nut is followed up, the tendency is to squeeze the graphoil more tightly around the plug, and, at the same time, the eyelet is pushed towards the cock body so that there is no risk of it scoring the plug.

Moncrieff Sleeve-Packed Cocks are made in various sizes from 10 to 50mm full bore, and can be supplied to suit any required conditions of service or application.

The Packing Sleeves are made in eight standard sizes, and every cock is stamped with its size number for use when ordering spares. (Note if there is any doubt as to the size of a certain cock, the numbers 12, 18, 22, etc., indicate the diameter of the plug in millimetres.)

MATERIAL DATA SHEET

PURITY : 99.9%

TEMPERATURE : -200 °C TO +3300 °C (NON - OXIDIZING)
: -200 °C TO +500 °C (OXIDIZING)
: -200 °C TO +650 °C (STEAM)

pH : 0 TO 14 (EXCEPT STRONG OXIDIZERS)

CORROSION INHIBITOR : 5% BY VOLUME

CONSTRUCTION PRESSURE : 450 BAR TO 700 BAR MAX.

CERTIFIABLE TO AS LOW AS 30 ppm LEACHABLE CHLORIDES.

MAIN PROPERTIES

TOLERANCE OF DENSITY (g/cm³) : ±0.05

TOLERANCE OF THICKNESS (mm) : ±0.03

TENSILE STRENGTH (MPa) : ≥4.5

COMPRESSIBILITY (%) : 25 – 30

RECOVERY (%) : >10

SULPHUR CONTENT (PPm) : <700

CHLORINE CONTENT (PPm) : <35

STRESS RELAXATION RATE (%) : 10

IGNITION LOSS (%) : <0.5

Note : Graphite Sleeves should not be forced into the housing, if the sleeves do not fit in place, piece of wood should be place across the top of the sleeves and then tapped into place with a hammer

Regards

Scott Gilmore