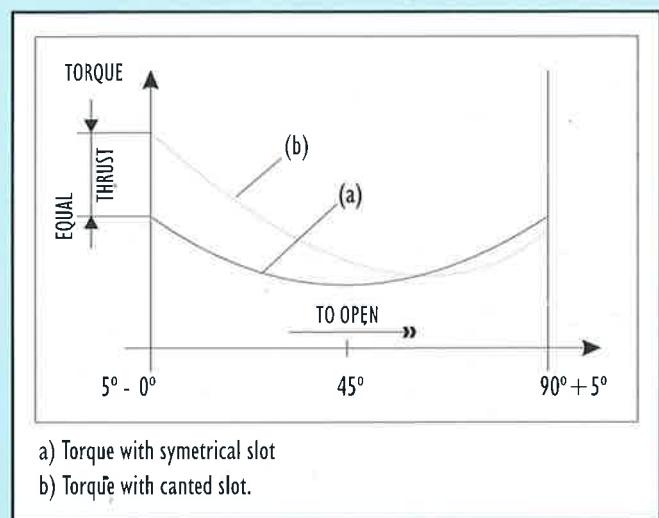


BASIC CONCEPT & TORQUE FIGURES

THE WEATHERPROOF HOUSING IS SUITABLE FOR TEMPERATURES BETWEEN -30°C - +/- 140°C

THE CRANKARM (LEVER) IS CANTED AND THIS PERMITS A HIGHER TORQUE IN THE OPENING OR CLOSING POSITION



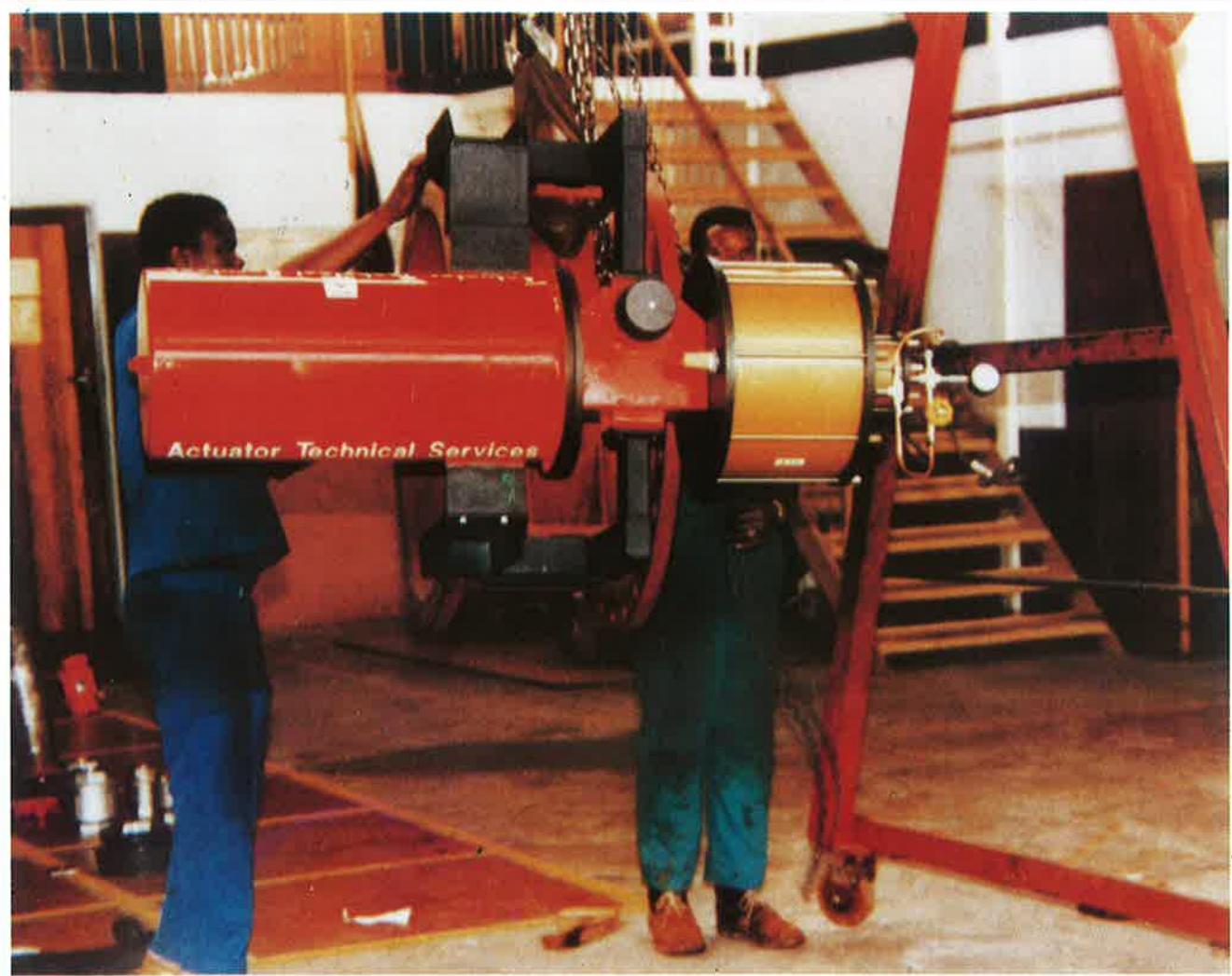
SEE BGL FOR CYLINDER SPECIFICATION

FRAME/CYLINDER COMBINATIONS	
BG7	2 X 350 - 2 X 551
BG6	2 X 400 - 551
BG5	250 - 400
BG4	125 - 350

Output Torque in NM.

AIR PRESSURE IN BAR

Spring return units can be supplied with torque curves to suit your Valve requirements



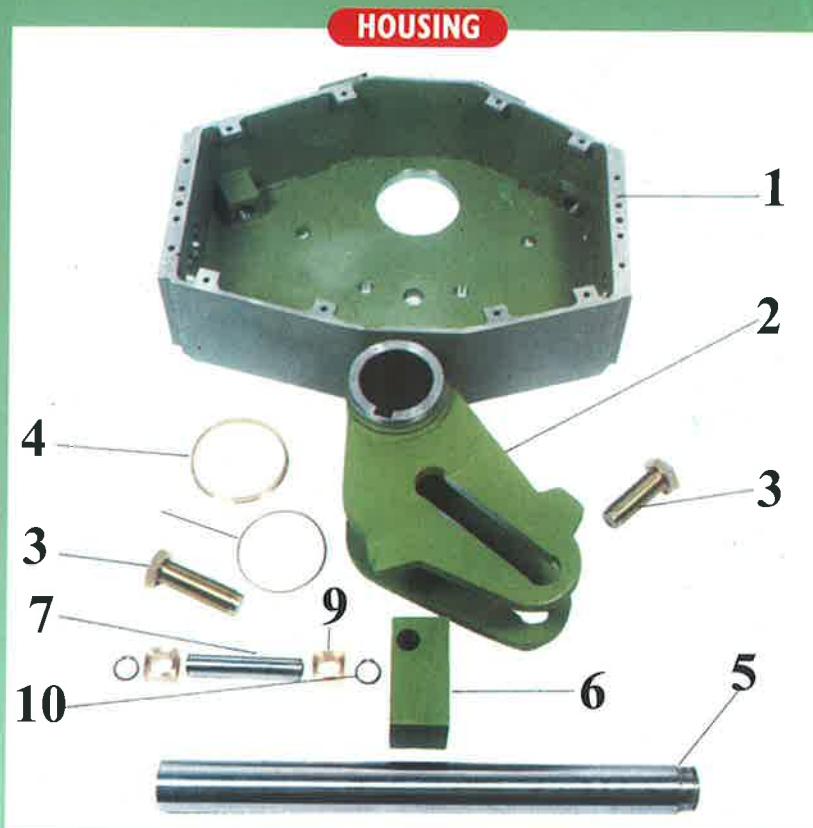
BG5/450 SR (1800NM) complete with adjustable soft seat. 90° Rotation within 1,5 seconds.

BG GEAR HOUSING TO CONVERT LINEAR MOTION INTO ROTARY MOTION

1. THE HOUSING SHOWN INCLUDES THE SCOTCH YOKE WHICH CONVERTS THE LINEAR MOTION INTO 90 ROTARY MOTION.
2. THE HOUSING INCLUDES A SLIDE BAR AND SLIDING BLOCK WHICH ABSORBS ALL THE SIDE LOAD, CREATED BY THE PISTON SHAFT AND SCOTCH YOKE WHILE IN ROTARY MOTION.
3. THE HOUSING ACTS AS AN ENCLOSURE AND PROTECTION FOR THE MECHANICAL PARTS AND PROVIDES THE FACILITY TO MOUNT THE HOUSING TO THE VALVE FLANGE.
4. THE MOUNTING BASE AND SCOTCH YOKE BORE CAN BE MACHINED, DRILLED, KEYWAYED TO CUSTOMER SPECIFICATION.
5. BRASS BUSHING IS LOCATED IN THE MOUNTING BASE AND TOP COVER TO ELIMINATE SIDE LOADS ON THE VALVE SHAFT.
6. THE MOUNTING PADS ON EACH SIDE OF THE HOUSING CAN BE USED TO MOUNT A SERIES OF PNEUMATIC OR HYDRAULIC CYLINDERS, AND CAPSULES TO PRODUCE REQUIRED TORQUES AND ROTARY DIRECTION.
7. ADAPTORS WHICH FIT BETWEEN THE HOUSING AND THE CYLINDERS AND THE SPRING PACKS CAN BE SUPPLIED TO CONVERT THE ACTUATOR TO MODULAR FORM WHICH REDUCES STOCK HOLDING AND SIMPLIFIES THE ASSEMBLY OF DIFFERENT SIZE ACTUATORS WITHIN THE RANGE.
8. ALL STEEL COMPONENTS (EXCLUDING WORKING SURFACES) IS ELECTRO GALVANIZED WITH FULL PASIVATION (YELLOW) THEN PS100 TREATED FOR SECOND STAGE PASIVATION FOR EXTENDED CORROSION PROTECTION (500-800 HR SALT SPRAY).



ITEM	NAME	BASIC MATERIAL
1	HOUSING	STEEL/STAINLESS STEEL
2	LEVER YOKE	STEEL/STAINLESS STEEL
3	ADJUSTING SCREW	STEEL/STAINLESS STEEL
4	BEARING	BRONZE
5	SIDE LOAD BAR	STEEL/STAINLESS STEEL
6	SLIDING BLOCK	STEEL/STAINLESS STEEL
7	DRIVING PIN	ALLOY STEEL/STAINLESS STEEL
8	O-RING	ELASTOMER/EPDM/VITON
9	DRIVING BLOCK	BRONZE/STAINLESS STEEL
10	CIR CLIP	STEEL/STAINLESS STEEL



BASIC CONCEPT

THE ACTUATORS WE MANUFACTURE ARE IN MODULAR FORM, AND IT IS THEREFORE POSSIBLE TO CONVERT ONE SIZE ACTUATOR WITHIN IT'S RANGE. THE CYLINDERS CAN BE IN TANDEM OR ON OPPOSITE SIDES OF THE HOUSING.

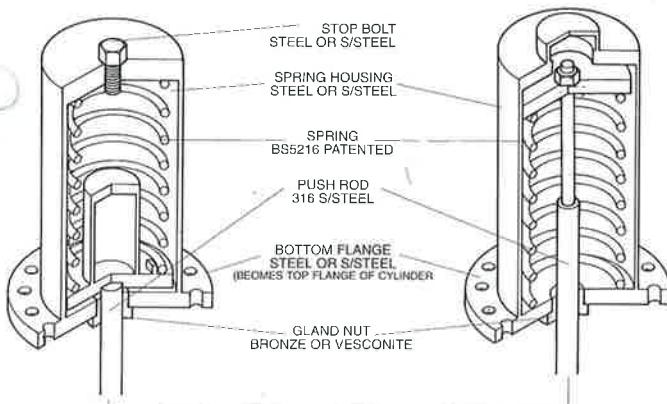
THE SPRING HOUSING CAN BE MOUNTED ON EITHER SIDE OF THE HOUSING TO ACHIEVE THE REQUIRED FAIL SAFE POSITION. (CLOSED OR OPEN).
ALL-ACTUATORS CAN BE SUPPLIED WITH MANUAL OVERRIDES AND ALL ALLIED ACCESSORIES SUCH AS POSITIONERS, LIMIT/PROXY SWITCHES AND SOLENOIDS. BY FITTING A FUSABLE LINK, THE ACTUATOR CAN BE SUPPLIED AS A FIRE SAFE UNIT WITH TORQUE UP TO 30 000NM.

OPTIONAL

TECHNICAL DATA BGL CYLINDERS

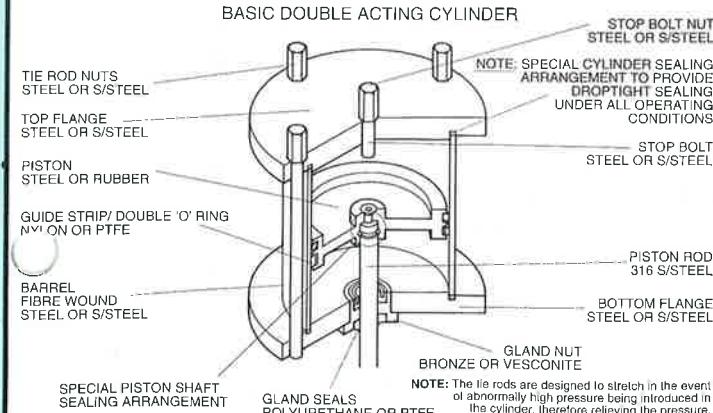
COMPONENT DESCRIPTION AND MATERIAL SPECIFICATIONS

SPRING RETURN - FAIL TO CLOSE



NOTE: ALL SPRINGS ARE ENCAPSULATED FOR SAFETY

BASIC DOUBLE ACTING CYLINDER



NOTE: SPECIAL CYLINDER SEALING ARRANGEMENT TO PROVIDE DROPTIGHT SEALING UNDER ALL OPERATING CONDITIONS

