

# HYDRAULIC AND ELECTRO HYDRAULIC VALVE ACTUATORS

TYPE's & SIZE's IN THE BELOW TABLES. Can be adapted to most types of valves

## TYPICAL USAGE

- Control of valves in harsh environment
- Control of valves with special operation speed
- Control of valves with special requirements for accuracy
- ESD & PSD Valves



Approved by most ship classifications authorities. Highest accuracy

## SYSTEMS

Systems are designed to meet the different operational requirements

## DOUBLE ACTING ROTATING TYPE BAC

| TYPE      | TORQUE AT 135 BAR. * NM | TOTAL DRY WEIGHT INCL. MOUNTING SET. kg | OIL DISPLACEMENT AT FULL STROKE. LITRES | DIMENSIONS SIDE VIEW mm |     |     |       |       |      | DIMENSIONS FRONT VIEW mm |    |    |    |      |      | N      |          | P      |          |
|-----------|-------------------------|-----------------------------------------|-----------------------------------------|-------------------------|-----|-----|-------|-------|------|--------------------------|----|----|----|------|------|--------|----------|--------|----------|
|           |                         |                                         |                                         | ØA                      | ØB  | C   | D     | E     | F    | G                        | H  | J  | K  | L    | M    | THREAD | DEPTH mm | THREAD | DEPTH mm |
| BAC 125   | 125                     | 5.3                                     | 0.026                                   | 77                      | 96  | 53  | 110   | 129   | 20.5 | 52                       | 35 | 41 | 22 | 14.5 | 58   | G1/4   | 13       | M8     | 12       |
| BAC 250   | 250                     | 6.3                                     | 0.050                                   | 95                      | 118 | 60  | 130.5 | 151.5 | 23   | 52                       | 35 | 41 | 22 | 16.5 | 59   | G1/4   | 13       | M8     | 12       |
| BAC 500   | 500                     | 13.0                                    | 0.102                                   | 120                     | 132 | 73  | 153   | 176   | 23   | 52                       | 35 | 41 | 22 | 20   | 62.5 | G1/4   | 13       | M8     | 12       |
| BAC 1000  | 1000                    | 19.9                                    | 0.209                                   | 135                     | 160 | 85  | 157.5 | 201   | 28   | 52                       | 35 | 41 | 22 | 23.5 | 66   | G1/4   | 13       | M8     | 12       |
| BAC 2000  | 2000                    | 33.1                                    | 0.400                                   | 165                     | 192 | 97  | 212   | 234   | 37   | 52                       | 35 | 41 | 22 | 25.5 | 68   | G1/4   | 13       | M8     | 12       |
| BAC 4000  | 4000                    | 68.9                                    | 0.600                                   | 215                     | 300 | 125 | 255   | 279   | 40   | 52                       | 35 | 41 | 22 | 31.5 | 74   | G1/4   | 13       | M8     | 12       |
| BAC 8000  | 8000                    | 106.0                                   | 1.600                                   | 252                     | 314 | 157 | 319   | 336   | 44   | 52                       | 35 | 41 | 22 | 47.0 | 89.5 | G1/4   | 13       | M8     | 12       |
| BAC 16000 | 16000                   | 176.0                                   | 3.100                                   | 300                     | 350 | 180 | 390   | 410   | 60   | 52                       | 35 | 41 | 22 | 61.5 | 104  | G1/4   | 13       | M8     | 12       |

\* Higher torques on request

## SINGLE ACTING ROTATING TYPE BAC

| TYPE       | BREAK - AWAY OPENING TORQUE AT 135 BAR. NM | END CLOSING TORQUE AT 135 BAR. NM | TOTAL DRY WEIGHT INCL. MOUNTING SET. kg | OIL DISPLACEMENT AT FULL STROKE. LITRES | DIMENSIONS SIDE VIEW, MM |     |       |     |     |      | DIMENSIONS FRONT VIEW, MM |    |    |    |      |      | N      |          | P      |
|------------|--------------------------------------------|-----------------------------------|-----------------------------------------|-----------------------------------------|--------------------------|-----|-------|-----|-----|------|---------------------------|----|----|----|------|------|--------|----------|--------|
|            |                                            |                                   |                                         |                                         | ØA                       | ØB  | C     | D   | E   | F    | G                         | H  | J  | K  | L    | M    | THREAD | DEPTH mm | THREAD |
| BACF 125   | 38                                         | 30                                | 6.6                                     | 0.026                                   | 96                       | 96  | 12.5  | 196 | 215 | 20.5 | 52                        | 35 | 41 | 22 | 14.5 | 58   | G1/4   | 13       | M8     |
| BACF 250   | *50                                        | 65                                | 13.6                                    | 0.050                                   | 107.5                    | 116 | 106   | 243 | 256 | 23   | 52                        | 35 | 41 | 22 | 16.5 | 59   | G1/4   | 13       | M8     |
| BACF 500   | 301                                        | 140                               | 22.5                                    | 0.102                                   | 134.5                    | 132 | 131   | 291 | 306 | 23   | 52                        | 35 | 41 | 22 | 20.0 | 62.5 | G1/4   | 13       | M8     |
| BACF 1000  | 648                                        | 320                               | 39.1                                    | 0.209                                   | 160                      | 160 | 156   | 345 | 360 | 26   | 52                        | 35 | 41 | 22 | 23.5 | 66   | G1/4   | 13       | M8     |
| BACF 2000  | *207                                       | 605                               | 66.7                                    | 0.400                                   | 195                      | 192 | 192   | 413 | 426 | 37   | 52                        | 35 | 41 | 22 | 25.5 | 68   | G1/4   | 13       | M8     |
| BACF 4000  | 2700                                       | 1350                              | 151.8                                   | 0.800                                   | 253                      | 300 | 269.5 | 534 | 550 | 40   | 52                        | 35 | 41 | 22 | 31.5 | 74   | G1/4   | 13       | M8     |
| BACF 6000  | 4800                                       | 2400                              | 290.0                                   | 1.600                                   | 310                      | 314 | 400   | 696 | 716 | 44   | 52                        | 35 | 41 | 22 | 47.0 | 68.5 | G1/4   | 13       | M8     |
| BACF 16000 | 16000                                      | 9600                              | 4800                                    | 487.0                                   | 3.100                    | 470 | 350   | 572 | 926 | 947  | 60                        | 52 | 35 | 41 | 22   | 61.5 | 104.0  | G1/4     | 13     |

Forbehold om trykfeil og endring av produktet

DOUBLE ACTING PISTON ACTUATOR KC

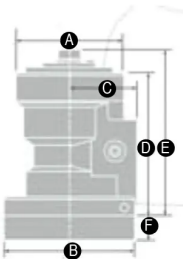
| TYPE  | CLOSING THRUST AT 135 BAR. N | STROKE mm | TOTAL DRY WEIGHT. kg | OIL DISPLACEMENT AT FULL STROKE. LITRES |
|-------|------------------------------|-----------|----------------------|-----------------------------------------|
| KC 12 | 20900                        | 16.0      | 8                    | 0.026                                   |
| KC 22 | 20900                        | 25.0      | 8                    | 0.041                                   |
| KC 32 | 57000                        | 37.5      | 18                   | 0.168                                   |
| KC 42 | 57000                        | 50.0      | 18                   | 0.224                                   |
| KC 52 | 57000                        | 62.5      | 18                   | 0.260                                   |
| KC 62 | 88300                        | 100.0     | 45                   | 0.592                                   |
| KC 72 | 143900                       | 125.0     | 60                   | 1.414                                   |
| KC 92 | 277800                       | 150.0     | 150                  | 3.240                                   |

| DIMENSIONS SIDE VIEW mm |     |     |     |     |    | DIMENSIONS FRONT VIEW mm |    |    |    |     |       | N      |          | P      |          |
|-------------------------|-----|-----|-----|-----|----|--------------------------|----|----|----|-----|-------|--------|----------|--------|----------|
| ØA                      | ØB  | C   | D   | E   | F  | G                        | H  | J  | K  | L   | M     | THREAD | DEPTH mm | THREAD | DEPTH mm |
| 96                      | 92  | 76  | 52  | 229 | 11 | 12                       | 64 | 35 | 49 | 9.5 | 105.5 | G3/8   | 13       | M8     | 15       |
| 96                      | 92  | 76  | 52  | 229 | 11 | 12                       | 64 | 35 | 49 | 9.5 | 105.5 | G3/8   | 13       | M8     | 15       |
| 96                      | 126 | 118 | 71  | 327 | 18 | 14                       | 64 | 35 | 49 | 9.5 | 166.5 | G3/8   | 13       | M8     | 15       |
| 96                      | 126 | 118 | 71  | 327 | 18 | 14                       | 64 | 35 | 49 | 9.5 | 166.5 | G3/8   | 13       | M8     | 15       |
| 96                      | 126 | 118 | 71  | 327 | 18 | 14                       | 64 | 35 | 49 | 9.5 | 166.5 | G3/8   | 13       | M8     | 15       |
| 96                      | 152 | 143 | 82  | 418 | 20 | 15                       | 64 | 35 | 49 | 9.5 | 211.5 | G3/8   | 13       | M8     | 15       |
| 96                      | 192 | 168 | 102 | 492 | 22 | 17                       | 64 | 35 | 49 | 9.5 | 255.5 | G3/8   | 13       | M8     | 15       |
| 96                      | 260 | 235 | 122 | 700 | 30 | 24                       | 64 | 35 | 49 | 9.5 | 311.0 | G3/8   | 13       | M8     | 15       |

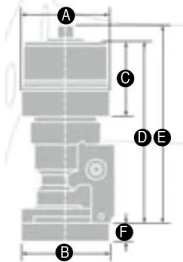
SINGLE ACTING PISTON ACTUATOR KFR

| TYPE       | END CLOSING THRUST. * N | STROKE mm | TOTAL DRY WEIGHT. kg | OIL DISPLACEMENT AT FULL STROKE. LITRES | DIMENSIONS mm |    |       |    |    |      |       |
|------------|-------------------------|-----------|----------------------|-----------------------------------------|---------------|----|-------|----|----|------|-------|
|            |                         |           |                      |                                         | ØA            | ØB | C     | D  | E  | F    | G     |
| KFR 1.0    | 4250                    | 16.25     | 6.3                  | 0.047                                   | 75            | 59 | 219   | 45 | 18 | 9    | 33.25 |
| KFR 1.0 P* | 4250                    | 16.25     | 7.2                  | 0.047                                   | 75            | 59 | 244   | 45 | 18 | 9    | 33.25 |
| KFR 1.1    | 4450                    | 25.0      | 7.0                  | 0.070                                   | 75            | 59 | 244   | 45 | 18 | 9    | 42.0  |
| KFR 1.1.0  | 8350                    | 16.25     | 7.2                  | 0.047                                   | 75            | 59 | 244   | 45 | 18 | 9    | 33.25 |
| KFR 1.2    | 6300                    | 37.5      | 8.6                  | 0.105                                   | 75            | 59 | 295   | 45 | 18 | 19.5 | 65.0  |
| KFR 1.2.1  | 8750                    | 25.0      | 9.0                  | 0.070                                   | 75            | 59 | 295   | 45 | 18 | 9    | 42.0  |
| KFR 2.2    | 8660                    | 37.5      | 9.0                  | 0.201                                   | 100           | 59 | 299.5 | 45 | 18 | 19.5 | 65.0  |
| KFR 3.3    | 13250                   | 50.0      | 23.0                 | 0.393                                   | 115           | 59 | 339.5 | 45 | 24 | 38   | 118.0 |
| KFR 3.3.2  | 21500                   | 37.5      | 23.0                 | 0.295                                   | 115           | 59 | 339.5 | 45 | 24 | 38   | 96.0  |
| KFR 4.4    | 20160                   | 62.5      | 36.0                 | 0.791                                   | 145           | 59 | 420   | 45 | 24 | 54   | 137.0 |

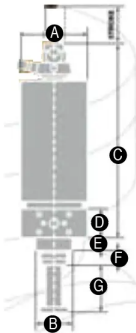
\* Pre – stressed 3mm.\*\*Power link applications.



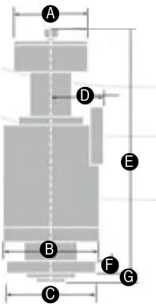
ROTATING TYPE BAC



ROTATING TYPE BACF



PISTON ACTUATOR KC



PISTON ACTUATOR KFR