## FEATURES

- The three-position cylinder is a monolithic assembly consisting of two cylinder bodies in tandem, generally with different strokes, whose piston rods are not connected together


Position 2
extension of cylinder " A "

Position 3 extension of cylinder "B"

Position 1
retraction of cylinders " $A$ " and " $B$ "

GENERAL
Detection
Cushioning


The main applications of three-position cylinders are for pressing and raising loads with two different positions. The following recommendations are made concerning use:

- An opposing force is necessary during extension
- To reach the second position with sufficient accuracy, extension of the rod of cylinder "A" must not be too fast.
- The operating cycle is necessarily as follows: $1 \rightarrow 2 \longrightarrow 3$ then direct return to 1 .

HOW TO ORDER
Consult the online configurator - CAD files on: www.asco.com
DIMENSIONS (mm) ■®

## SINGLE-ROD TYPE CYLINDER <br> 453 Series



## Equipped for magnetic position detectors

Pneumatic, adjustable from both sides with captive screw

Maximum stroke

| $\varnothing$ | stroke $\mathbf{A + B}(\mathrm{mm})^{(1)}$ |  |
| :---: | :---: | :---: |
| $(\mathrm{mm})$ | 453 Series | 450 Series |
| $32 / 40 / 50 / 63 / 80 / 100$ | 2000 | 2000 |
| $125-200$ | - |  |

${ }^{(1)}$ "B" stroke must be longer than "A" stroke

- Determination of stroke of cylinder "A": Distance between Positions 1 and 2 (in mm)
- Determination of stroke of cylinder "B": Distance between Positions 1 and 3 (in mm)


SINGLE-ROD TYPE CYLINDER
450 Series
$\varnothing 32$ to 100 mm

(1) Stroke (A) (2) Stroke (B)

| $\begin{gathered} \varnothing \\ (\mathrm{mm}) \end{gathered}$ |  | A | ØKK | L8 | M | ZJ | X |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 453 | 450 |  |  |  |  |  | 453 | 450 |
| 32 | 32 | 22 | M10x1,25 | 180 | 48 | 206 | 68 | 68 |
| 40 | 40 | 24 | M12x1,25 | 198,5 | 54 | 228,5 | 77 | 77 |
| 50 | 50 | 32 | M16x1,5 | 205 | 69 | 242 | 78,5 | 78,5 |
| 63 | 63 | 32 | M16x1,5 | 233 | 69 | 270 | 95 | 95 |
| 80 | 80 | 40 | M20x1,5 | 251,5 | 86 | 297,5 | 98 | 98 |
| 100 | 100 | 40 | M20x1,5 | 243 | 91 | 294 | 100 | 100 |
| - | 125 | 54 | M27x2 | 278 | 119 | 343 | - | 139 |
| - | 160 | 72 | M36x2 | 303 | 152 | 383 | - | 151,5 |
| - | 200 | 72 | M36x2 | 303 | 167 | 398 | - | 151,5 |

$\varnothing 125$ to 200 mm


The two ports on the intermediate block are positioned at $180^{\circ}$ to each other

