

TWIN-ROD CYLINDERS

HTBDA

Humphrey Twin-Rod Cylinders are essentially two conventional double-acting cylinders in one, extruded aluminum housing which are coupled together with a rod-end tooling plate. Offered in six sizes from 6 to 32mm bore, Twin-Rod Cylinders feature a rectangular, non-rotational construction for easy mounting. Two-cylinder design allows for "double the force" within the width of one. Twin-Rod Cylinders are capable of withstanding greater lateral load than a conventional cylinder. Standard features include fine stroke adjustment, noise-reducing bumpers and magnetic piston for sensor switch operation.

BORE SIZES (mm):

- 6, 10, 16, 20, 25, 32

TYPE:

- Double Acting (HTBDA)

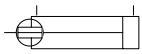
STANDARD STROKES (inch):

- 6 Bore: 1/2, 3/4, 1, 1-1/2, 2
- 10 Bore: 1/2, 3/4, 1, 1-1/2, 2, 2-1/2, 3
- Other Bores: 1/2, 3/4, 1, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4

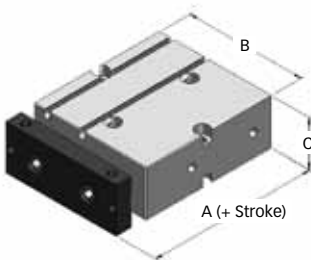
OPTIONS AND ACCESSORIES:

Reed or Non-Contact Sensor Switches (see page 53).

GUIDED LINEAR ACTUATORS

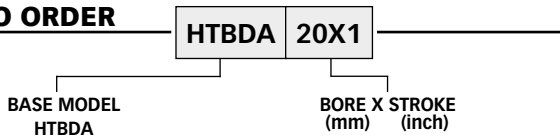


HTBDA



Model	Bore Size - Effective Area		Overall Dimensions			
	Bore Diameter (mm)	Piston Area (inch ²)	Length A + Stroke (inch)	Width-B (inch)	Depth-C (inch)	Port Thread
HTBDA	6	0.09	1.93	1.28	0.55	10-32 UNF
	10	0.24	2.28	1.65	0.67	
	16	0.62	2.68	2.13	0.83	
	20	0.97	3.07	2.44	0.98	
	25	1.52	3.19	2.87	1.18	
	32	2.49	4.25	3.78	1.58	1/8 PIPE

HOW TO ORDER



SPECIFICATIONS

Media:	Air	
Pressure Range (PSIG):	6 Bore	28-100 PSIG
	10 Bore	22-100 PSIG
	16, 20, 25, 32 Bores	15-100 PSIG
Temperature Range:	32°F to 140°F	

HOW TO OBTAIN SPECIFICATIONS FOR CYLINDERS

- Go to www.humphrey-products.com
- Select "Online Product Guide." Follow the steps to get the cylinder you need.
- Once the specifications have been entered, select "Download Spec Sheet" to create a personalized PDF of the cylinder, which you may save to your computer and print at your convenience. These spec sheets are helpful when placing your order(s).

HOW TO ORDER HUMPHREY CYLINDERS AND ACCESSORIES

- Go to www.humphrey-products.com
- Select "Find A Distributor" and input your information to locate a distributor nearest you.
- Or, call Customer Service at 1-800-477-8707 for the name and phone number of your local distributor.

HUMPHREY PRODUCTS ARE SOLD WORLD-WIDE THROUGH AUTHORIZED DISTRIBUTORS

Humphrey Long-Bushing Type, Twin-Rod Cylinders are essentially two conventional double-acting cylinders in one, extruded aluminum housing coupled together with a rod-end tooling plate. Offered in five sizes from 10 to 32mm bore, Twin-Rod Cylinders feature a rectangular, non-rotational, construction for easy mounting. Long-bushing type is capable of even greater lateral loads than standard Twin-Rod Cylinder types. Noise-reducing bumpers and magnetic piston for sensor switch operation standard.

BORE SIZES (mm):

- 10, 16, 20, 25, 32

TYPE:

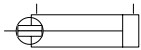
- Double Acting (HTBDAM)

STANDARD STROKES (inch):

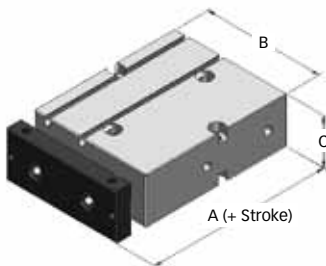
- 10 Bore: 1/2, 3/4, 1, 1-1/2, 2, 2-1/2, 3
- Other Bores: 1/2, 3/4, 1, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4

OPTIONS AND ACCESSORIES:

Reed or Non-Contact Sensor Switches (see page 53).



HTBDAM



Model	Bore Size - Effective Area		Overall Dimensions			
	Bore Diameter (mm)	Piston Area inch ²	Length A + Stroke (inch)	Width-B (inch)	Depth-C (inch)	Port Thread
HTBDAM	10	0.24	2.68	1.65	0.67	10-32 UNF
	16	0.62	3.07	2.13	0.83	
	20	0.97	3.47	2.44	0.98	
	25	1.52	3.58	2.87	1.18	
	32	2.49	4.65	3.78	1.58	1/8 PIPE

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HOW TO ORDER



SPECIFICATIONS

Media:	Air	
Pressure Range (PSIG):	10 Bore	28-100 PSIG
	16, 20, 25, 32 Bores	21-100 PSIG
Temperature Range:	32°F to 140°F	

TWIN-ROD SINGLE-ACTING CYLINDERS

HTBSA

Humphrey Twin-Rod Single-Acting Cylinders are essentially two conventional spring-return cylinders in one, extruded aluminum housing, which are coupled together with a rod-end tooling plate. Offered in four bore sizes from 10 to 25mm bore, these cylinders feature a rectangular, non-rotational, construction for easy mounting. The two-cylinder design allows for "double the force" within the width of one. Twin-Rod Cylinders are capable of withstanding greater lateral load than conventional cylinder. Standard features include fine stroke adjustment, noise-reducing bumpers and magnetic piston for sensor switch operation.

BORE SIZES (mm):

- 10, 16, 20, 25

TYPE:

- Single Acting – Push (HTBSA)

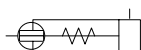
STANDARD STROKES (inch):

- 1/2, 3/4, 1, 1-1/2, 2, 2-1/2

OPTIONS AND ACCESSORIES:

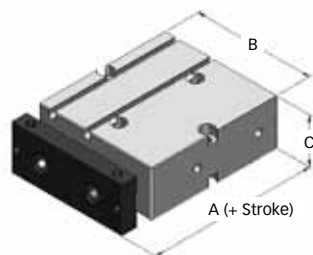
Reed or Non-Contact Sensor Switches (see page 53).

GUIDED LINEAR ACTUATORS



HTBSA

Model	Bore Size - Effective Area		Overall Dimensions - Retracted Position				
	Bore Diameter (mm)	Piston Area inch ²	Length A + Stroke (inch)		Width-B (inch)	Depth-C (inch)	Port Thread
			≤1/2-1 Stroke	≥1-1/2" Stroke			
HTBSA	10	0.24	2.28	2.71	1.65	0.67	10-32 UNF
	16	0.62	2.68	3.18	2.13	0.83	
	20	0.97	3.07	3.57	2.44	0.98	
	25	1.52	3.19	3.69	2.87	1.18	



HOW TO ORDER



SPECIFICATIONS

Media:	Air	
Pressure Range (PSIG):	10 Bore	35-100 PSIG
	16, 20, 25 Bores	28-100 PSIG
Temperature Range:	32°F to 140°F	

HOW TO OBTAIN SPECIFICATIONS FOR CYLINDERS

- Go to www.humphrey-products.com
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Humphrey Twin-Rod End-Keep Cylinders are essentially two double-acting cylinders in one, extruded aluminum housing coupled together with a rod-end tooling plate. A mechanical lock fixes the cylinder in either the extended or retracted position in the event of pressure loss or failure. Offered in three bore sizes from 16 to 25mm bore, End-Keep Cylinders feature a square, non-rotational construction for easy mounting. Two-cylinder design allows for “double the force” within the width of one and is capable of withstanding greater lateral load than conventional cylinders. Standard features include fine stroke adjustment, noise-reducing bumpers and magnetic piston for sensor switch operation.

BORE SIZES (mm):

- 16, 20, 25

TYPE:

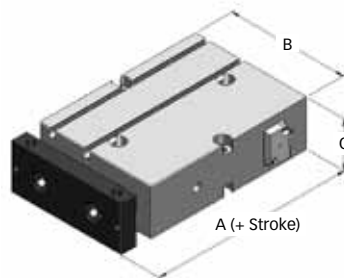
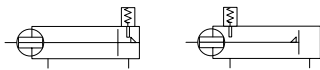
- Double Acting – Head Side Lock (HTBDAK-HL)
- Double Acting – Rod Side Lock (HTBDAK-RL)

STANDARD STROKES (inch):

- 1/2, 3/4, 1, 1-1/2, 2, 3, 4

OPTIONS AND ACCESSORIES:

Reed or Non-Contact Sensor Switches (see page 53).



Model	Bore Size - Effective Area		Overall Dimensions			Port Thread
	Bore Diameter (mm)	Piston Area inch ²	Length A + Stroke (inch)	Width-B (inch)	Depth-C (inch)	
HTBDAK	16	0.62	3.68	2.13	0.83	10-32 UNF
	20	0.97	4.07	2.44	0.98	
	25	1.52	4.19	2.87	1.18	

HOW TO OBTAIN SPECIFICATIONS FOR CYLINDERS

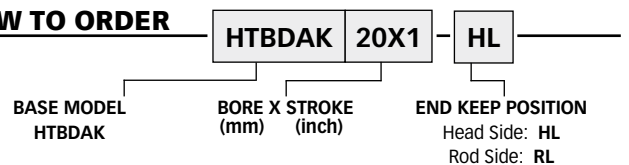
- Go to www.humphrey-products.com
- Select “Online Product Guide.” Follow the steps to get the cylinder you need.
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HUMPHREY PRODUCTS ARE SOLD WORLD-WIDE THROUGH AUTHORIZED DISTRIBUTORS

HOW TO ORDER



SPECIFICATIONS

Media:	Air
Pressure Range (PSIG):	22-100 PSIG
Temperature Range:	32°F to 140°F