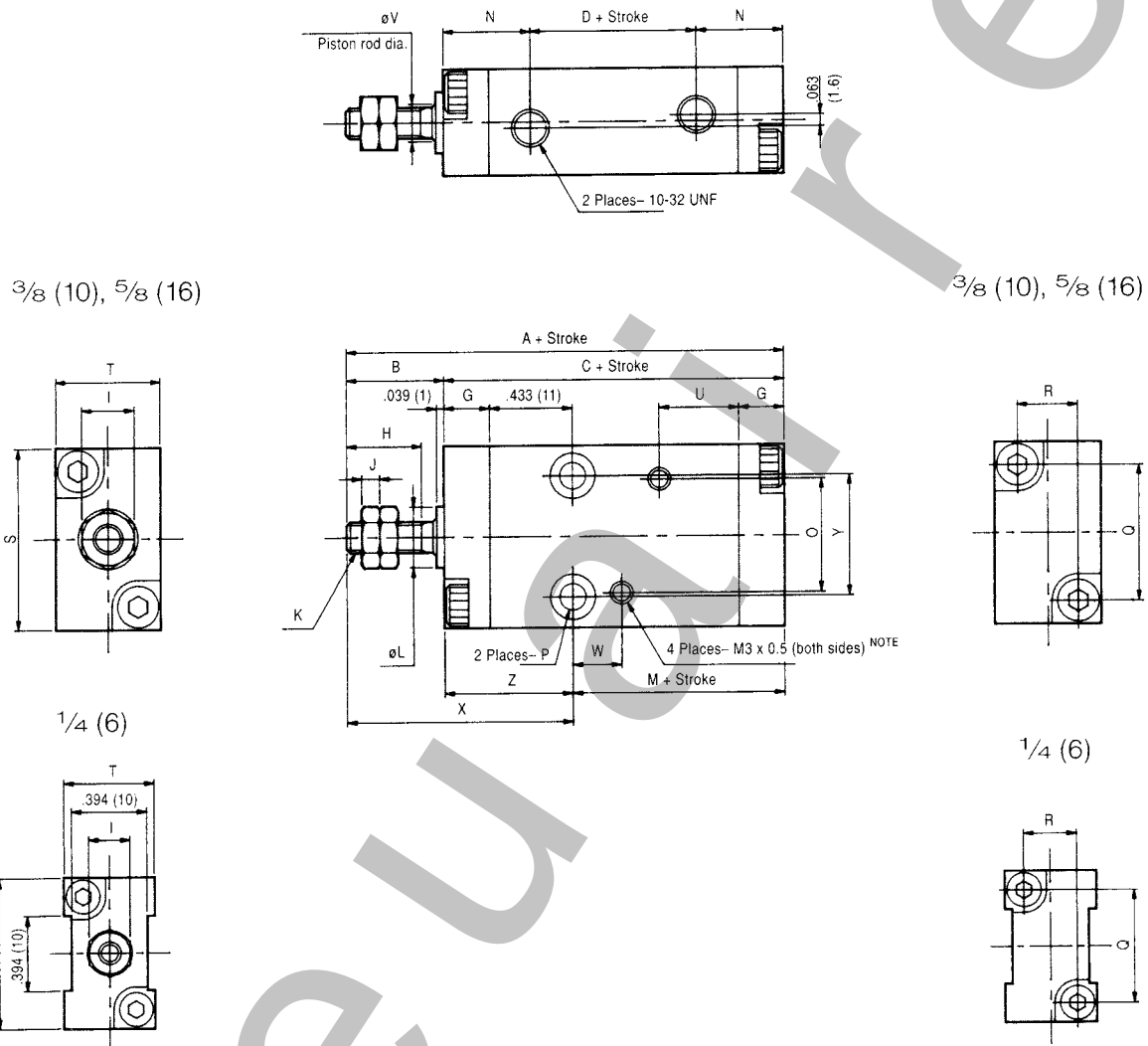


DOUBLE ACTING WITH MAGNET DIMENSION DIAGRAMS

in.(mm)

Side mount



Bore Nominal in. (mm)	Code - in. (mm)												
	A	C	D	M	B	G	H	I	J	K	L NOTE 1	N	O
1/4 (6)	1.693 (43)	1.299 (33)	0.512 (13)	0.669 (17)	0.394 (10)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.236 (6)	0.394 (10)	0.551 (14)
3/8 (10)	1.890 (48)	1.378 (35)	0.472 (12)	0.709 (18)	0.512 (13)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.315 (8)	0.453 (11.5)	0.591 (15)
5/8 (16)	2.087 (53)	1.496 (38)	0.512 (13)	0.787 (20)	0.591 (15)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.394 (10)	0.492 (12.5)	0.748 (19)

Bore Nominal in. (mm)	Code - in. (mm)										
	P thru hole x c' bore x depth	Q	R	S	T	U	V	W	X	Y	Z
1/4 (6)	0.138 (3.5) x 0.236 (6) x 0.165 (4.2)	0.591 (15)	0.276 (7)	0.787 (20)	0.472 (12)	0.416 (10.5)	0.118 (3)	0.256 (6.5)	1.024 (26)	0.472 (12)	0.630 (16)
3/8 (10)	0.138 (3.5) x 0.236 (6) x 0.126 (3.2)	0.709 (18)	0.315 (8)	0.945 (24)	0.551 (14)		0.197 (5)		1.181 (30)	0.630 (16)	0.669 (17)
5/8 (16)	0.177 (4.5) x 0.299 (7.6) x 0.165 (4.2)	0.984 (25)	0.472 (12)	1.299 (33)	0.787 (20)		0.236 (6)		1.299 (33)	0.945 (24)	0.709 (18)

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

NOTE 1: 0.236 in. (6mm) = $^{+0.002}_{-0.002}$ ($^{+0.05}_{-0.05}$)

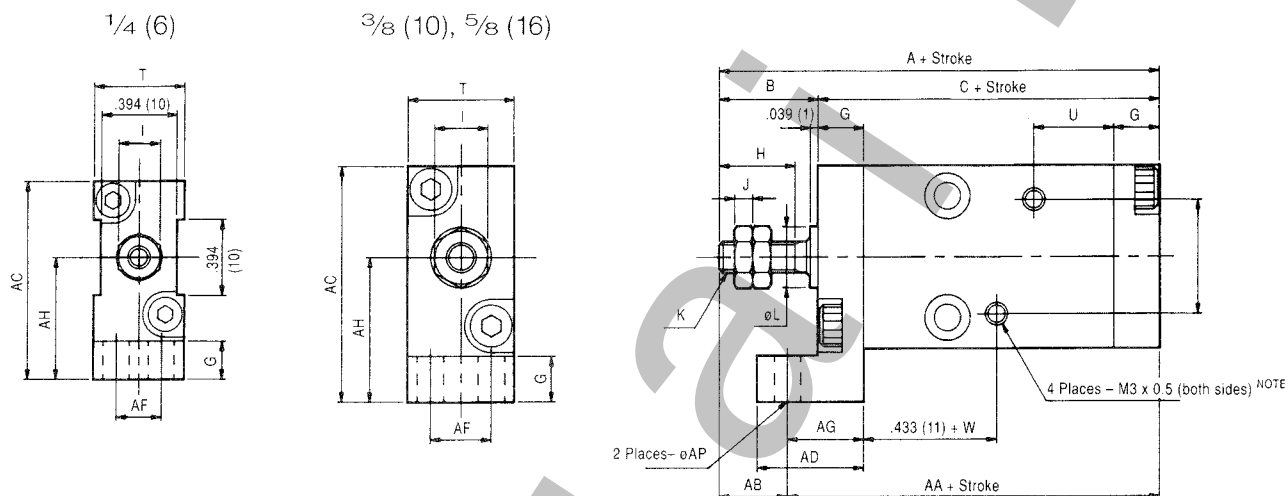
0.315 in. (8mm) = $^{+0.002}_{-0.002}$ ($^{+0.05}_{-0.05}$)

0.394 in. (10mm) = $^{+0.002}_{-0.002}$ ($^{+0.05}_{-0.05}$)

DOUBLE ACTING WITH MAGNET DIMENSION DIAGRAMS

in.(mm)

Foot mount



Bore Nominal in. (mm)	Code - in. (mm)												
	A	C	D	AA	B	G	H	I	J	K	L NOTE 1	N	O
1/4 (6)	1.693 (43)	1.299 (33)	0.512 (13)	1.457 (37)	0.394 (10)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.236 (6)	0.394 (10)	0.551 (14)
3/8 (10)	1.890 (48)	1.378 (35)	0.472 (12)	1.535 (39)	0.512 (13)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.315 (8)	0.453 (11.5)	0.591 (15)
5/8 (16)	2.087 (53)	1.496 (38)	0.512 (13)	1.693 (43)	0.591 (15)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.394 (10)	0.492 (12.5)	0.748 (19)

Bore Nominal in. (mm)	Code - in. (mm)										
	T	U	V	W	AB	AC	AD	AF	AG	AH	AP
1/4 (6)	0.472 (12)	0.416 (10.5)	0.118 (3)	0.256 (6.5)	0.236 (6)	1.024 (26)	0.512 (13)	0.236 (6)	0.354 (9)	0.630 (16)	0.138 (3.5)
3/8 (10)	0.551 (14)		0.197 (5)		0.354 (9)	1.220 (31)	0.551 (14)	0.315 (8)	0.394 (10)	0.748 (19)	
5/8 (16)	0.787 (20)		0.236 (6)		0.394 (10)	1.634 (41.5)	0.669 (17)	0.472 (12)	0.472 (12)	0.984 (25)	

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

NOTE 1: 0.236 in. (6mm) = $-\frac{0.002}{-0.05}$

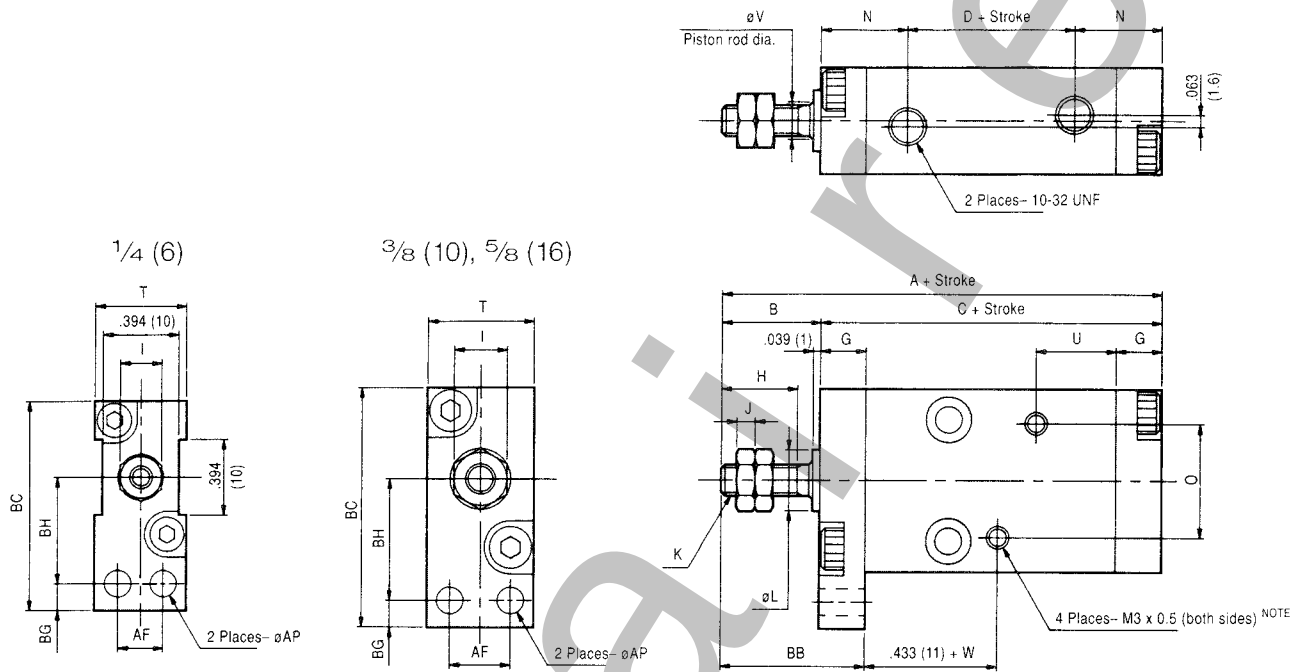
0.315 in. (8mm) = $-\frac{0.002}{-0.05}$

0.394 in. (10mm) = $-\frac{0.002}{-0.05}$

DOUBLE ACTING WITH MAGNET DIMENSION DIAGRAMS

in.(mm)

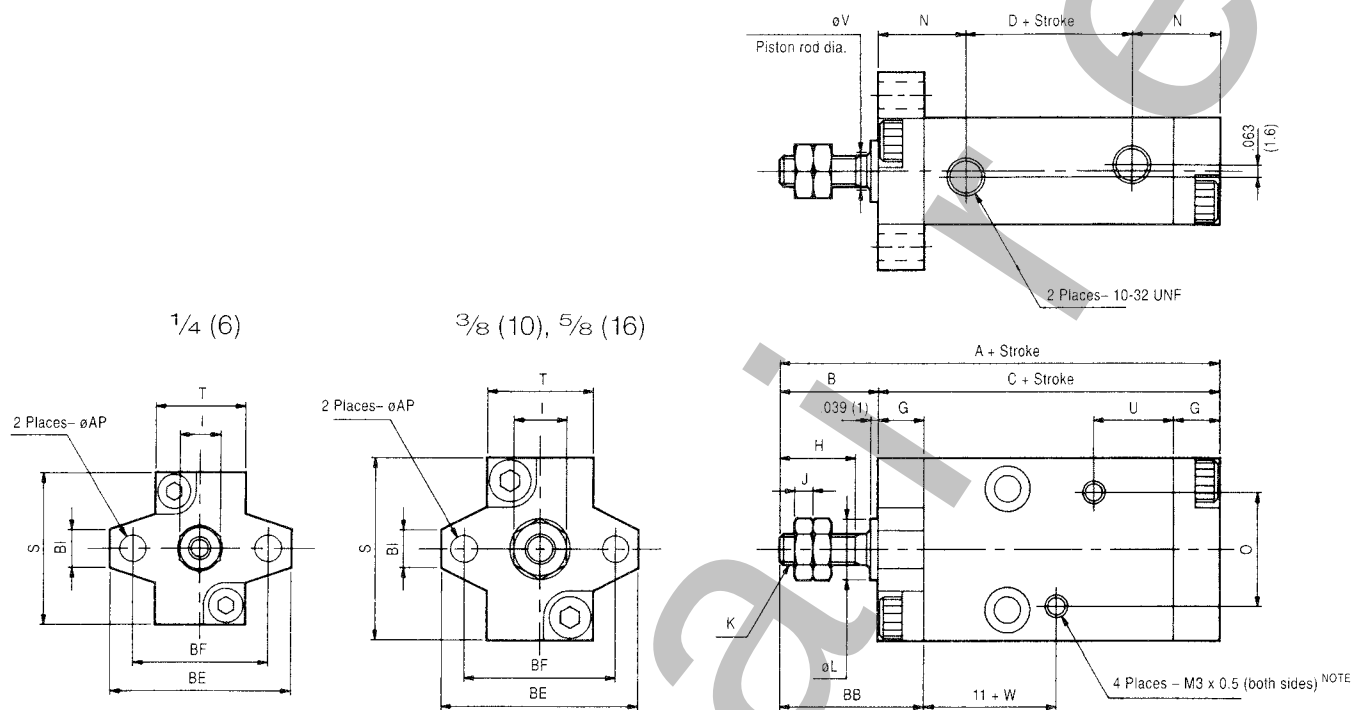
Flange A mount



DOUBLE ACTING WITH MAGNET DIMENSION DIAGRAMS

in.(mm)

Flange B mount



Bore Nominal in. (mm)	Code - in. (mm)												
	A	C	D	B	G	H	I	J	K	L NOTE 1	N	O	S
1/4 (6)	1.693 (43)	1.299 (33)	0.512 (13)	0.394 (10)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.236 (6)	0.394 (10)	0.551 (14)	0.787 (20)
3/8 (10)	1.890 (48)	1.378 (35)	0.472 (12)	0.512 (13)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.315 (8)	0.453 (11.5)	0.591 (15)	0.945 (24)
5/8 (16)	2.087 (53)	1.496 (38)	0.512 (13)	0.591 (15)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.394 (10)	0.492 (12.5)	0.748 (19)	1.299 (33)

Bore Nominal in. (mm)	Code - in. (mm)												
	T	U	V	W	AF	AP	BB	BC	BE	BF	BG	BH	BI
1/4 (6)	0.472 (12)	0.416 (10.5)	0.118 (3)	0.256 (6.5)	0.236 (6)	0.138 (3.5)	0.591 (15)	1.083 (27.5)	0.945 (24)	0.709 (18)	0.138 (3.5)	0.551 (14)	0.197 (5)
3/8 (10)	0.551 (14)		0.197 (5)		0.315 (8)		0.748 (19)	1.240 (31.5)	1.024 (26)	0.787 (20)		0.630 (16)	
5/8 (16)	0.787 (20)		0.236 (6)		0.472 (12)		0.866 (22)	1.654 (42)	1.417 (36)	1.102 (28)		0.827 (21)	

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

NOTE 1: 0.236 in. (6mm) = $^{0.002}_{-0.002}$

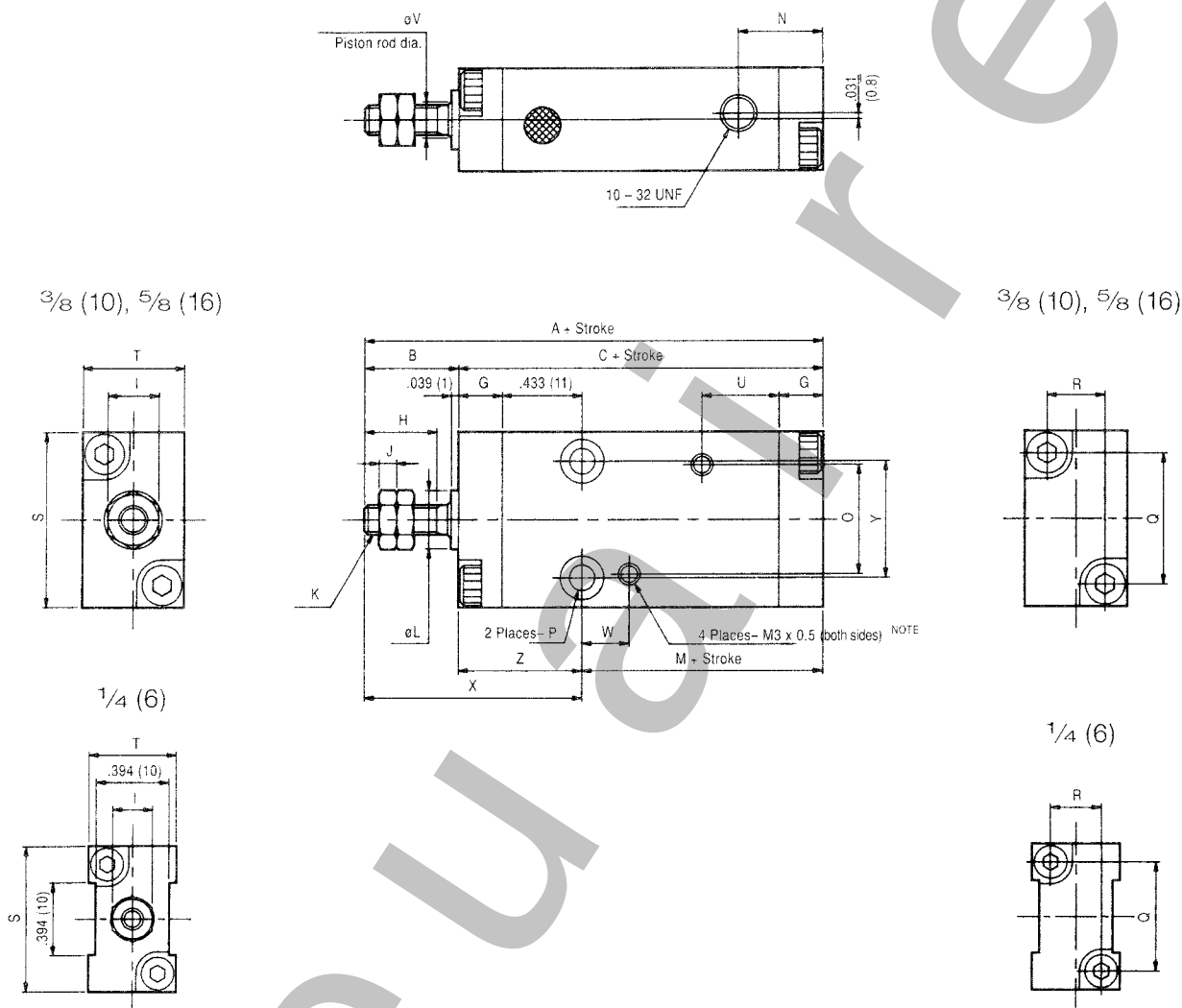
0.315 in. (8mm) = $^{0.002}_{-0.002}$

0.394 in. (10mm) = $^{0.002}_{-0.002}$

SINGLE ACTING — PUSH TYPE WITH MAGNET DIMENSION DIAGRAMS

in.(mm)

Side mount



Bore Nominal in. (mm)	Code – in. (mm)										
	A	C	M	B	G	H	I	J	K	L NOTE 1	N
1/4 (6)	1.890 (48)	1.496 (38)	0.866 (22)	0.394 (10)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.236 (6)	0.394 (10)
3/8 (10)	2.087 (53)	1.575 (40)	0.906 (23)	0.512 (13)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.315 (8)	0.453 (11.5)
5/8 (16)	2.283 (58)	1.693 (43)	0.984 (25)	0.591 (15)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.394 (10)	0.492 (12.5)

Bore Nominal in. (mm)	Code – in. (mm)								
	O	P thru hole x c' bore x depth	Q	R	S	T	U	V	W
1/4 (6)	0.551 (14)	0.138 (3.5) x 0.236 (6) x 0.165 (4.2)	0.591 (15)	0.276 (7)	0.787 (20)	0.472 (12)	0.416 (10.5)	0.118 (3)	0.256 (6.5)
3/8 (10)	0.591 (15)	0.138 (3.5) x 0.236 (6) x 0.126 (3.2)	0.709 (18)	0.315 (8)	0.945 (24)	0.551 (14)		0.197 (5)	
5/8 (16)	0.748 (19)	0.177 (4.5) x 0.299 (7.6) x 0.165 (4.2)	0.984 (25)	0.472 (12)	1.299 (33)	0.787 (20)		0.236 (6)	

Bore Nominal in. (mm)	Code – in. (mm)		
	X	Y	Z
1/4 (6)	1.024 (26)	0.472 (12)	0.630 (16)
3/8 (10)	1.181 (30)	0.630 (16)	0.669 (17)
5/8 (16)	1.299 (33)	0.945 (24)	0.709 (18)

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

NOTE 1: 0.236 in. (6mm) = $-\frac{0.002}{-0.05}$

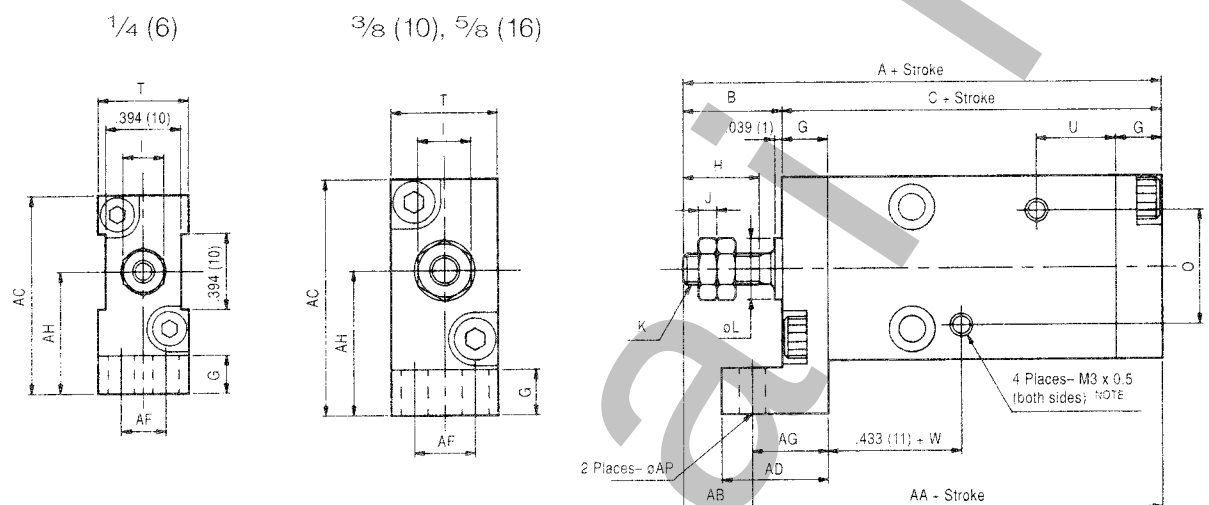
0.315 in. (8mm) = $-\frac{0.002}{-0.05}$

0.394 in. (10mm) = $-\frac{0.002}{-0.05}$

SINGLE ACTING — PUSH TYPE WITH MAGNET DIMENSION DIAGRAMS

in.(mm)

Foot mount



Bore Nominal in. (mm)	Code - in. (mm)												
	A	C	AA	B	G	H	I	J	K	L NOTE 1	N	O	T
1/4 (6)	1.890 (48)	1.496 (38)	1.654 (42)	0.394 (10)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.236 (6)	0.394 (10)	0.551 (14)	0.472 (12)
3/8 (10)	2.087 (53)	1.575 (40)	1.732 (44)	0.512 (13)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.315 (8)	0.453 (11.5)	0.591 (15)	0.551 (14)
5/8 (16)	2.283 (58)	1.693 (43)	1.890 (48)	0.591 (15)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.394 (10)	0.492 (12.5)	0.748 (19)	0.787 (20)

Bore Nominal in. (mm)	Code - in. (mm)									
	U	V	W	AB	AC	AD	AF	AG	AH	AP
1/4 (6)		0.118 (3)		0.236 (6)	1.024 (26)	0.512 (13)	0.236 (6)	0.354 (9)	0.630 (16)	
3/8 (10)	0.416 (10.5)	0.197 (5)	0.256 (6.5)	0.354 (9)	1.220 (31)	0.551 (14)	0.315 (8)	0.394 (10)	0.748 (19)	0.138 (3.5)
5/8 (16)		0.236 (6)	0.295 (7.5)	0.394 (10)	1.634 (41.5)	0.669 (17)	0.472 (12)	0.472 (12)	0.984 (25)	0.177 (4.5)

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

NOTE 1: 0.236 in. (6mm) = $\begin{smallmatrix} 0 \\ -0.002 \end{smallmatrix} \begin{smallmatrix} 0 \\ -0.05 \end{smallmatrix}$

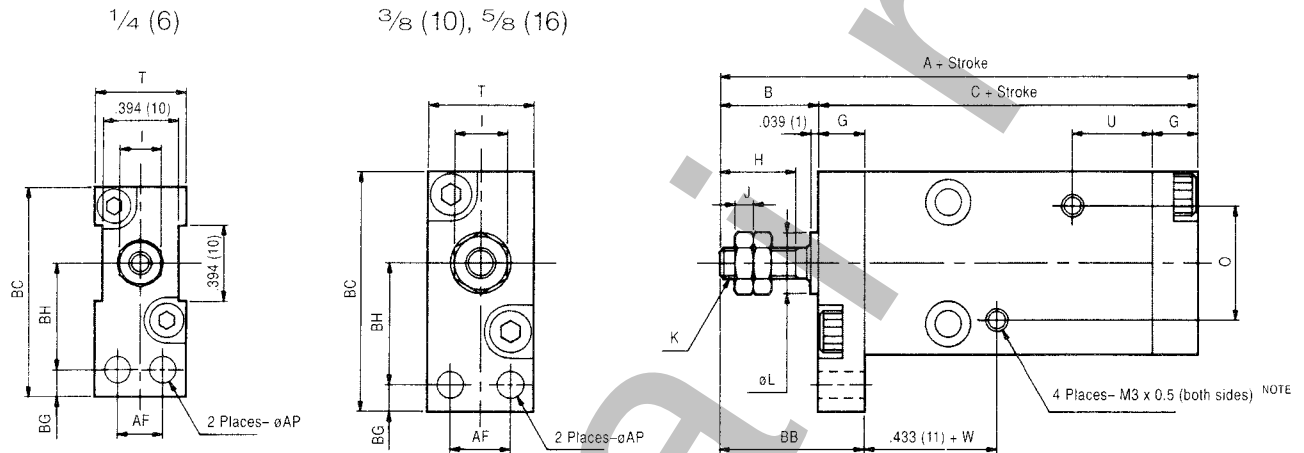
0.315 in. (8mm) = $\begin{smallmatrix} 0 \\ -0.002 \end{smallmatrix} \begin{smallmatrix} 0 \\ -0.05 \end{smallmatrix}$

0.394 in. (10mm) = $\begin{smallmatrix} 0 \\ -0.002 \end{smallmatrix} \begin{smallmatrix} 0 \\ -0.05 \end{smallmatrix}$

SINGLE ACTING — PUSH TYPE WITH MAGNET DIMENSION DIAGRAMS

in.(mm)

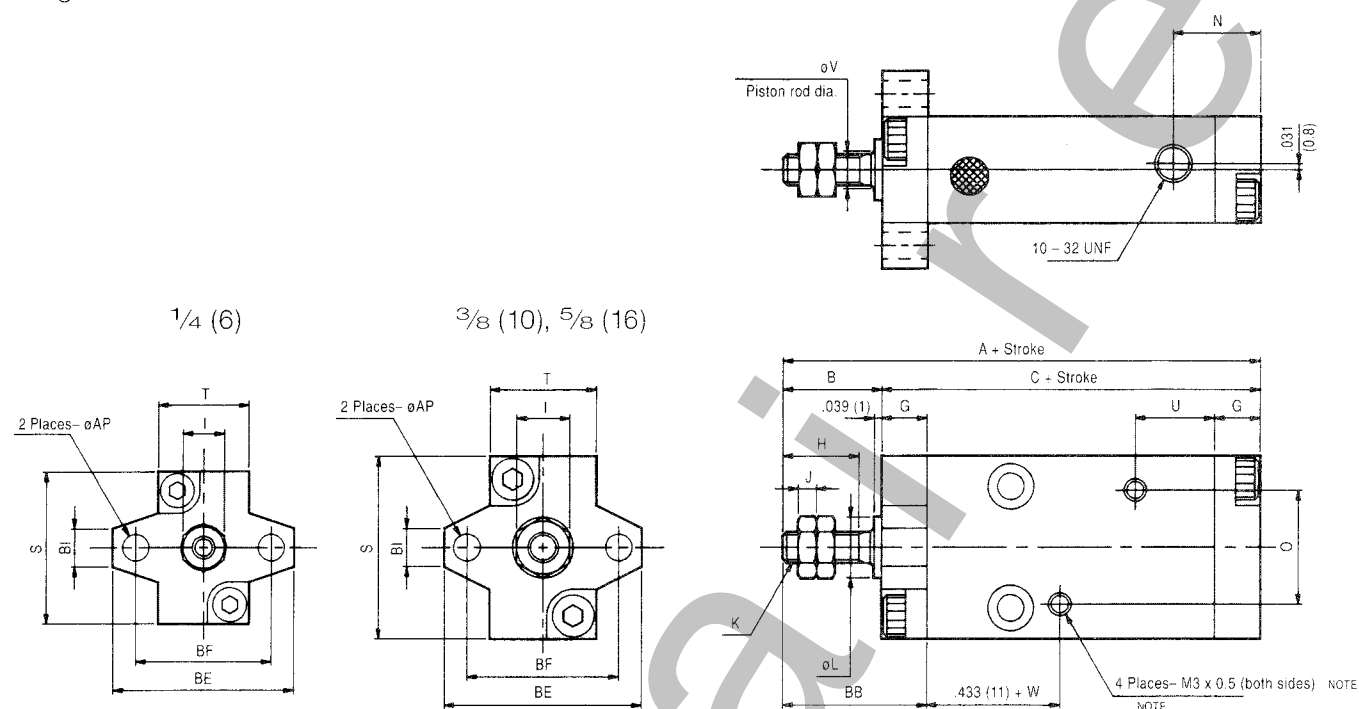
Flange A mount



SINGLE ACTING — PUSH TYPE WITH MAGNET DIMENSION DIAGRAMS

in.(mm)

Flange B mount



Bore Nominal in. (mm)	Code – in. (mm)												
	A	C	B	G	H	I	J	K	L NOTE 1	N	O	S	T
1/4 (6)	1.890 (48)	1.496 (38)	0.394 (10)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.236 (6)	0.394 (10)	0.551 (14)	0.787 (20)	0.472 (12)
3/8 (10)	2.087 (53)	1.575 (40)	0.512 (13)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.315 (8)	0.453 (11.5)	0.591 (15)	0.945 (24)	0.551 (14)
5/8 (16)	2.283 (58)	1.693 (43)	0.591 (15)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.394 (10)	0.492 (12.5)	0.748 (19)	1.299 (33)	0.787 (20)

Bore Nominal in. (mm)	Code – in. (mm)											
	U	V	W	AF	AP	BB	BC	BE	BF	BG	BH	BI
1/4 (6)		0.118 (3)		0.236 (6)		0.591 (15)	1.083 (27.5)	0.945 (24)	0.709 (18)		0.551 (14)	
3/8 (10)	0.416 (10.5)	0.197 (5)	0.256 (6.5)	0.315 (8)	0.138 (3.5)	0.748 (19)	1.240 (31.5)	1.024 (26)	0.787 (20)	0.138 (3.5)	0.630 (16)	0.197 (5)
5/8 (16)		0.236 (6)	0.295 (7.5)	0.472 (12)	0.177 (4.5)	0.866 (22)	1.654 (42)	1.417 (36)	1.102 (28)	0.177 (4.5)	0.827 (21)	0.236 (6)

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

NOTE 1: 0.236 in. (6mm) = $-\frac{0.002}{-0.05}$

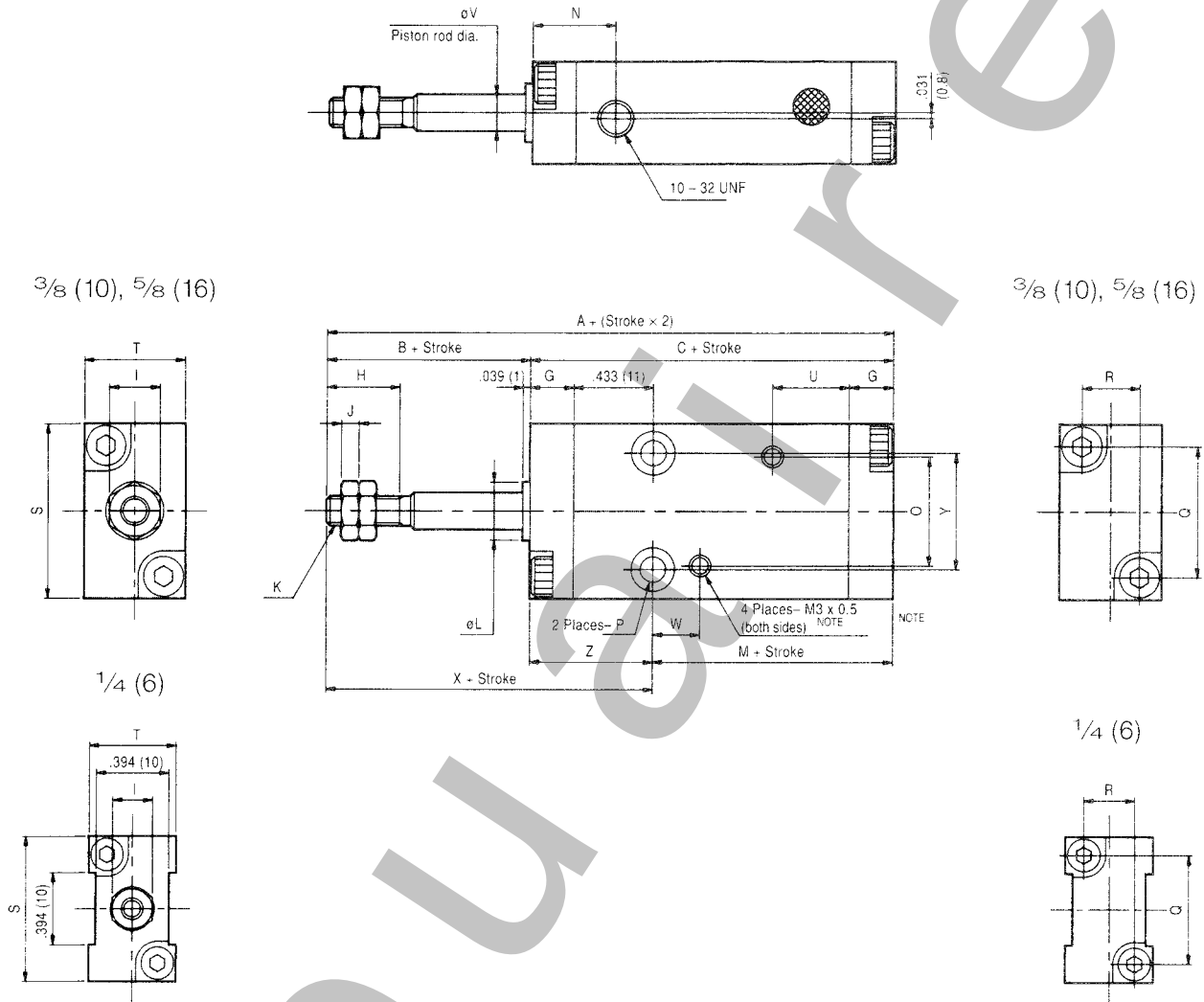
0.315 in. (8mm) = $-\frac{0.002}{-0.05}$

0.394 in. (10mm) = $-\frac{0.002}{-0.05}$

SINGLE ACTING — PULL TYPE WITH MAGNET DIMENSION DIAGRAMS

in.(mm)

Side mount



Bore Nominal in. (mm)	Code - in. (mm)											
	A	C	M	B	G	H	I	J	K	L NOTE 1	N	O
1/4 (6)	1.890 (48)	1.496 (38)	0.866 (22)	0.394 (10)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.236 (6)	0.394 (10)	0.551 (14)
3/8 (10)	2.087 (53)	1.575 (40)	0.906 (23)	0.512 (13)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.315 (8)	0.453 (11.5)	0.591 (15)
5/8 (16)	2.283 (58)	1.693 (43)	0.984 (25)	0.591 (15)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.394 (10)	0.492 (12.5)	0.748 (19)

Bore Nominal in. (mm)	Code - in. (mm)											
	P thru hole x c' bore x depth		Q	R	S	T	U	V	W	X	Y	Z
1/4 (6)	0.138 (3.5) x 0.236 (6) x 0.165 (4.2)		0.591 (15)	0.276 (7)	0.787 (20)	0.472 (12)	0.416 (10.5)	0.118 (3)	0.256 (6.5)	1.024 (26)	0.472 (12)	0.630 (16)
3/8 (10)	0.138 (3.5) x 0.236 (6) x 0.126 (3.2)		0.709 (18)	0.315 (8)	0.945 (24)	0.551 (14)		0.197 (5)		1.181 (30)	0.630 (16)	0.669 (17)
5/8 (16)	0.177 (4.5) x 0.299 (7.6) x 0.165 (4.2)		0.984 (25)	0.472 (12)	1.299 (33)	0.787 (20)		0.236 (6)		1.299 (33)	0.945 (24)	0.709 (18)

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

NOTE 1: 0.236 in. (6mm) = $-0.002 \begin{pmatrix} 0 \\ -0.05 \end{pmatrix}$

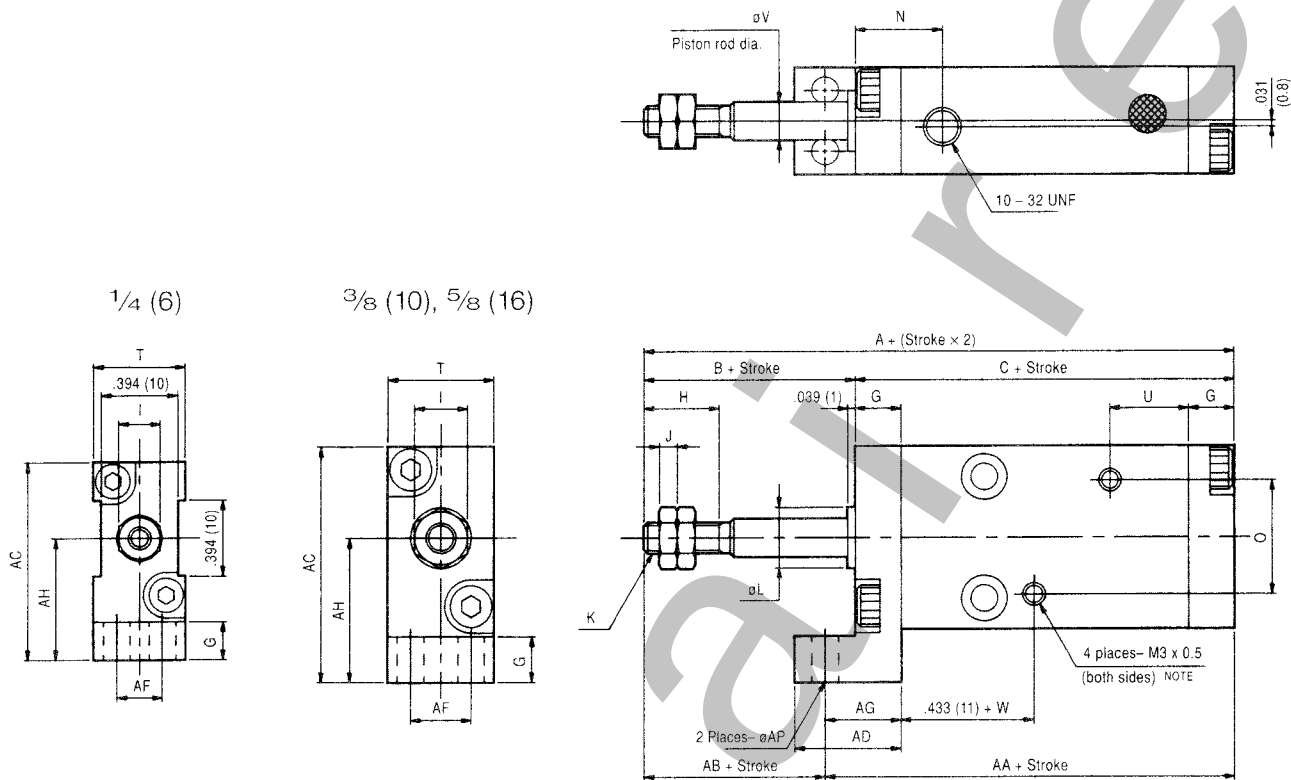
0.315 in. (8mm) = $-0.002 \begin{pmatrix} 0 \\ -0.05 \end{pmatrix}$

0.394 in. (10mm) = $-0.002 \begin{pmatrix} 0 \\ -0.05 \end{pmatrix}$

SINGLE ACTING — PULL TYPE WITH MAGNET DIMENSION DIAGRAMS

in.(mm)

Foot mount



Bore Nominal in. (mm)	Code - in. (mm)												
	A	C	AA	B	G	H	I	J	K	L NOTE 1	N	O	T
1/4 (6)	1.890 (48)	1.496 (38)	1.654 (42)	0.394 (10)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.236 (6)	0.394 (10)	0.551 (14)	0.472 (12)
3/8 (10)	2.087 (53)	1.575 (40)	1.732 (44)	0.512 (13)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.315 (8)	0.453 (11.5)	0.591 (15)	0.551 (14)
5/8 (16)	2.283 (58)	1.693 (43)	1.890 (48)	0.591 (15)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.394 (10)	0.492 (12.5)	0.748 (19)	0.787 (20)

Bore Nominal in. (mm)	Code - in. (mm)									
	U	V	W	AB	AC	AD	AF	AG	AH	AP
1/4 (6)	0.416 (10.5)	0.118 (3)	0.256 (6.5)	0.236 (6)	1.024 (26)	0.512 (13)	0.236 (6)	0.354 (9)	0.630 (16)	0.138 (3.5)
3/8 (10)		0.197 (5)		0.354 (9)	1.220 (31)	0.551 (14)	0.315 (8)	0.394 (10)	0.748 (19)	
5/8 (16)		0.236 (6)	0.295 (7.5)	0.394 (10)	1.634 (41.5)	0.669 (17)	0.472 (12)	0.472 (12)	0.984 (25)	0.177 (4.5)

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

NOTE 1: 0.236 in. (6mm) = $^{0}_{-0.002}$ ($^{0}_{-0.05}$)

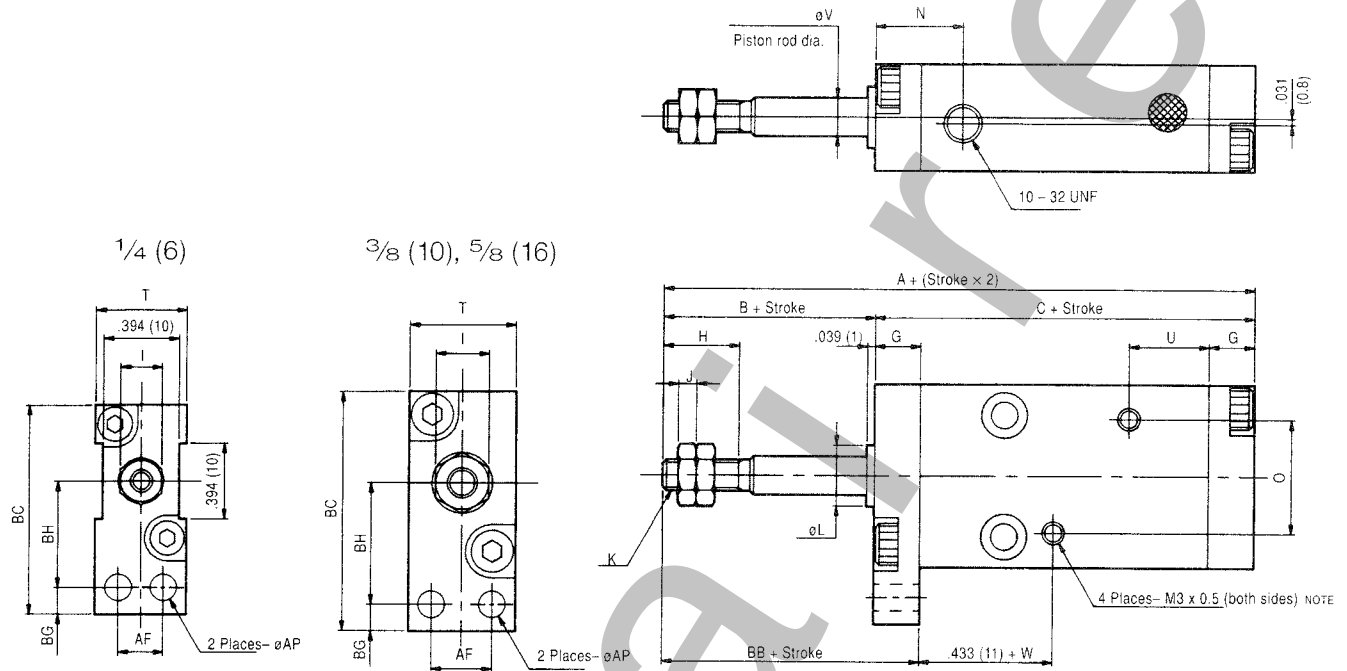
0.315 in. (8mm) = $^{0}_{-0.002}$ ($^{0}_{-0.05}$)

0.394 in. (10mm) = $^{0}_{-0.002}$ ($^{0}_{-0.05}$)

SINGLE ACTING — PULL TYPE WITH MAGNET DIMENSION DIAGRAMS

in.(mm)

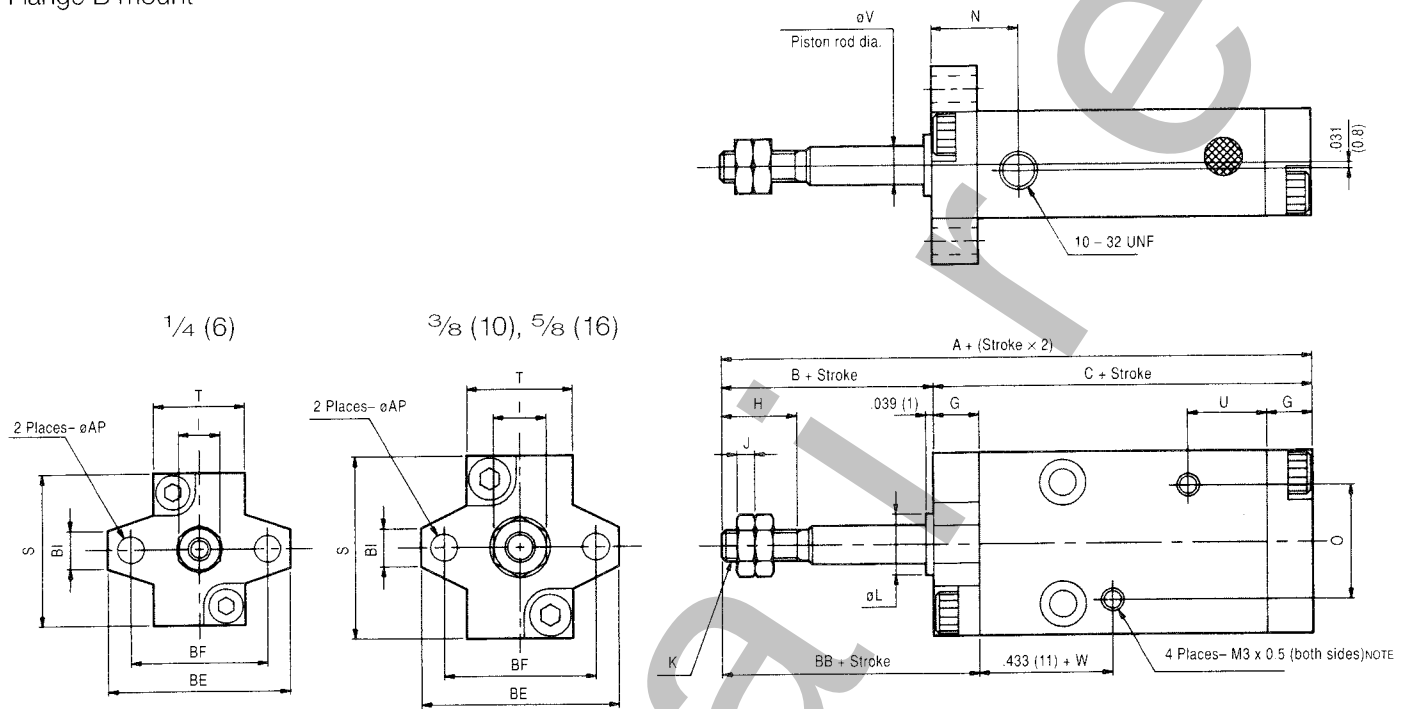
Flange A mount



SINGLE ACTING — PULL TYPE WITH MAGNET DIMENSION DIAGRAMS

in.(mm)

Flange B mount



Bore Nominal in. (mm)	Code – in. (mm)												
	A	C	B	G	H	I	J	K	L NOTE 1	N	O	S	T
1/4 (6)	1.890 (48)	1.496 (38)	0.394 (10)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.236 (6)	0.394 (10)	0.551 (14)	0.787 (20)	0.472 (12)
3/8 (10)	2.087 (53)	1.575 (40)	0.512 (13)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.315 (8)	0.453 (11.5)	0.591 (15)	0.945 (24)	0.551 (14)
5/8 (16)	2.283 (58)	1.693 (43)	0.591 (15)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.394 (10)	0.492 (12.5)	0.748 (19)	1.299 (33)	0.787 (20)

Bore Nominal in. (mm)	Code – in. (mm)											
	U	V	W	AF	AP	BB	BC	BE	BF	BG	BH	BI
1/4 (6)		0.118 (3)		0.236 (6)		0.591 (15)	1.083 (27.5)	0.945 (24)	0.709 (18)		0.551 (14)	
3/8 (10)	0.416 (10.5)	0.197 (5)	0.256 (6.5)	0.315 (8)	0.138 (3.5)	0.748 (19)	1.240 (31.5)	1.024 (26)	0.787 (20)	0.138 (3.5)	0.630 (16)	0.197 (5)
5/8 (16)		0.236 (6)	0.295 (7.5)	0.472 (12)	0.177 (4.5)	0.866 (22)	1.654 (42)	1.417 (36)	1.102 (28)	0.177 (4.5)	0.827 (21)	0.236 (6)

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

NOTE 1: 0.236 in. (6mm) = $^{0.002}_{-0.002}$ (-0.05)

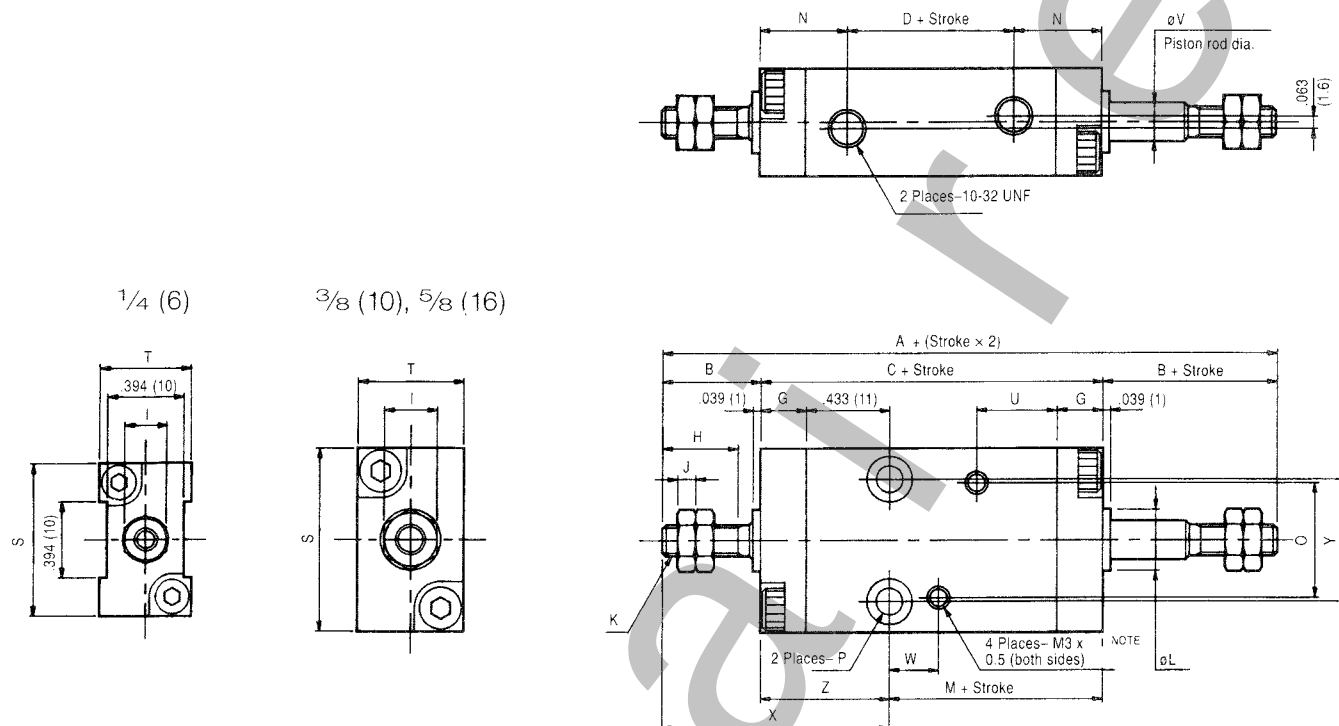
0.315 in. (8mm) = $^{0.002}_{-0.002}$ (-0.05)

0.394 in. (10mm) = $^{0.002}_{-0.002}$ (-0.05)

DOUBLE ACTING — DOUBLE END ROD WITH MAGNET DIMENSION DIAGRAMS

in.(mm)

Side mount



Bore Nominal in. (mm)	Code - in. (mm)												
	A	C	D	M	B	G	H	I	J	K	L NOTE 1	N	O
1/4 (6)	2.087 (53)	1.299 (33)	0.512 (13)	0.669 (17)	0.394 (10)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.236 (6)	0.394 (10)	0.551 (14)
3/8 (10)	2.402 (61)	1.378 (35)	0.472 (12)	0.709 (18)	0.512 (13)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.315 (8)	0.453 (11.5)	0.591 (15)
5/8 (16)	2.677 (68)	1.496 (38)	0.512 (13)	0.787 (20)	0.591 (15)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.394 (10)	0.492 (12.5)	0.748 (19)

Bore Nominal in. (mm)	Code – in. (mm)								
	P thru hole x c' bore x depth	S	T	U	V	W	X	Y	Z
1/4 (6)	0.138 (3.5) x 0.236 (6) x 0.165 (4.2)	0.787 (20)	0.472 (12)	0.416 (10.5)	0.118 (3)	0.256 (6.5)	1.024 (26)	0.472 (12)	0.630 (16)
3/8 (10)	0.138 (3.5) x 0.236 (6) x 0.126 (3.2)	0.945 (24)	0.551 (14)		0.197 (5)		1.181 (30)	0.630 (16)	0.669 (17)
5/8 (16)	0.177 (4.5) x 0.299 (7.6) x 0.165 (4.2)	1.299 (33)	0.787 (20)		0.236 (6)		0.295 (7.5)	1.299 (33)	0.945 (24)

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

NOTE 1: 0.236 in. (6mm) = $\begin{smallmatrix} 0 \\ -0.002 \end{smallmatrix} \begin{smallmatrix} 0 \\ -0.05 \end{smallmatrix}$

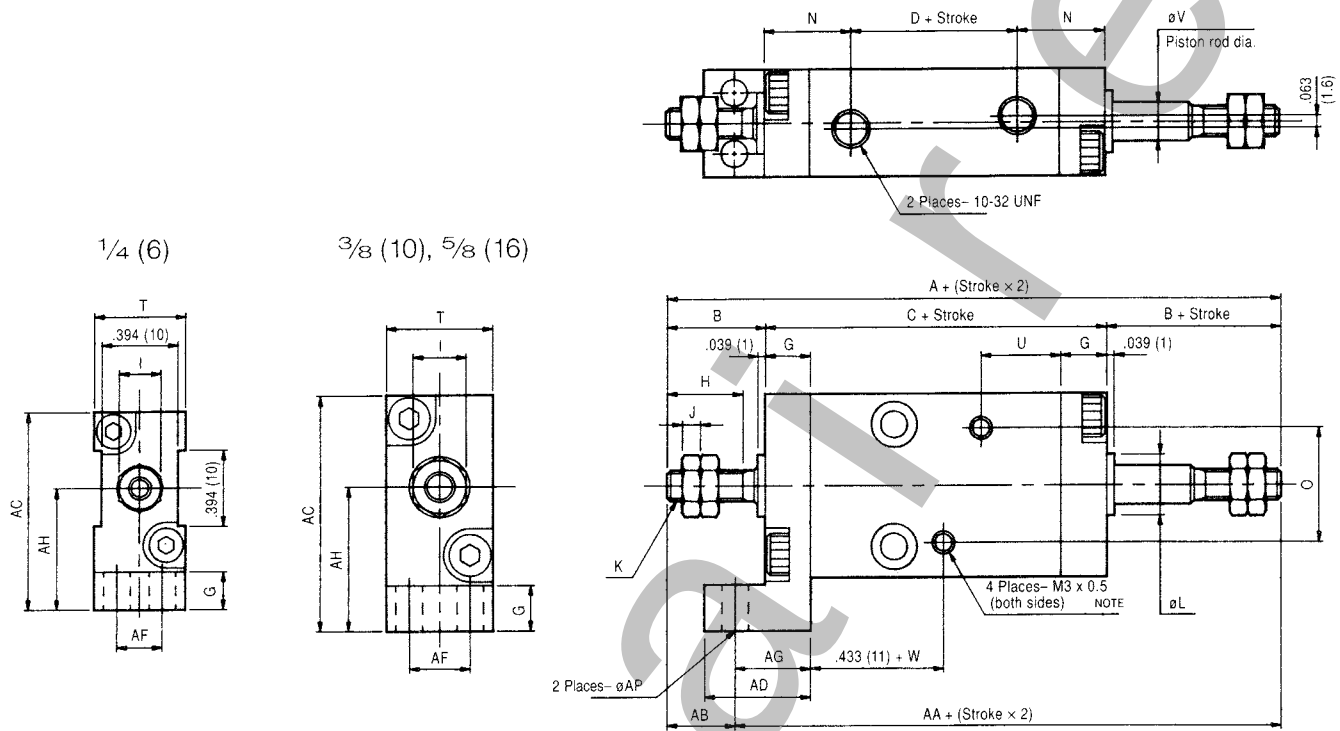
0.315 in. (8mm) = $\begin{smallmatrix} 0 \\ -0.002 \end{smallmatrix} \begin{smallmatrix} 0 \\ -0.05 \end{smallmatrix}$

0.394 in. (10mm) = $\begin{smallmatrix} 0 \\ -0.002 \end{smallmatrix} \begin{smallmatrix} 0 \\ -0.05 \end{smallmatrix}$

DOUBLE ACTING — DOUBLE END ROD WITH MAGNET DIMENSION DIAGRAMS

in.(mm)

Foot mount



Bore Nominal in. (mm)	Code - in. (mm)												
	A	C	D	AA	B	G	H	I	J	K	L NOTE 1	N	O
1/4 (6)	2.087 (53)	1.299 (33)	0.512 (13)	1.850 (47)	0.394 (10)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.236 (6)	0.394 (10)	0.551 (14)
3/8 (10)	2.402 (61)	1.378 (35)	0.472 (12)	2.047 (52)	0.512 (13)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.315 (8)	0.453 (11.5)	0.591 (15)
5/8 (16)	2.677 (68)	1.496 (38)	0.512 (13)	2.283 (58)	0.591 (15)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.394 (10)	0.492 (12.5)	0.748 (19)

Bore Nominal in. (mm)	Code - in. (mm)										
	T	U	V	W	AB	AC	AD	AF	AG	AH	AP
1/4 (6)	0.472 (12)	0.416 (10.5)	0.118 (3)	0.256 (6.5)	0.236 (6)	1.024 (26)	0.512 (13)	0.236 (6)	0.354 (9)	0.630 (16)	0.138 (3.5)
3/8 (10)	0.551 (14)		0.197 (5)	0.354 (9)	1.220 (31)	0.551 (14)	0.315 (8)	0.394 (10)	0.748 (19)		
5/8 (16)	0.787 (20)		0.236 (6)	0.295 (7.5)	0.394 (10)	1.634 (41.5)	0.669 (17)	0.472 (12)	0.472 (12)	0.984 (25)	

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

NOTE 1: 0.236 in. (6mm) = $^{0}_{-0.002}$ ($^{0}_{-0.05}$)

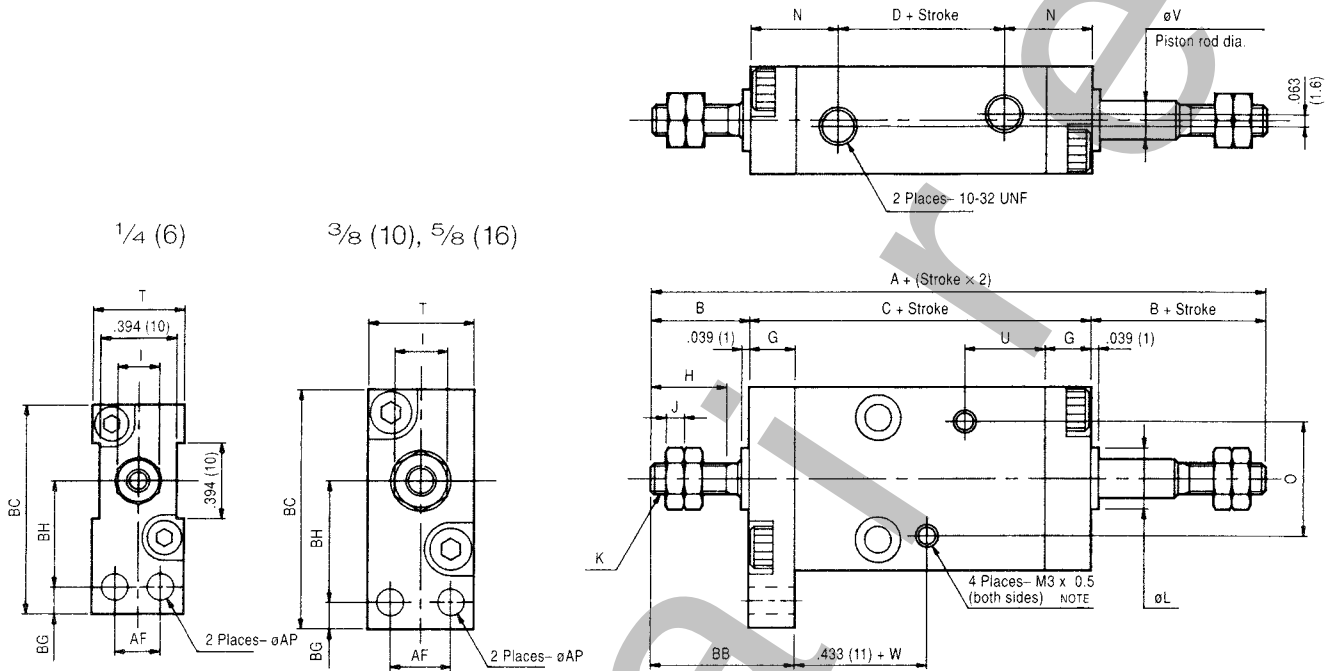
0.315 in. (8mm) = $^{0}_{-0.002}$ ($^{0}_{-0.05}$)

0.394 in. (10mm) = $^{0}_{-0.002}$ ($^{0}_{-0.05}$)

DOUBLE ACTING — DOUBLE END ROD WITH MAGNET DIMENSION DIAGRAMS

in.(mm)

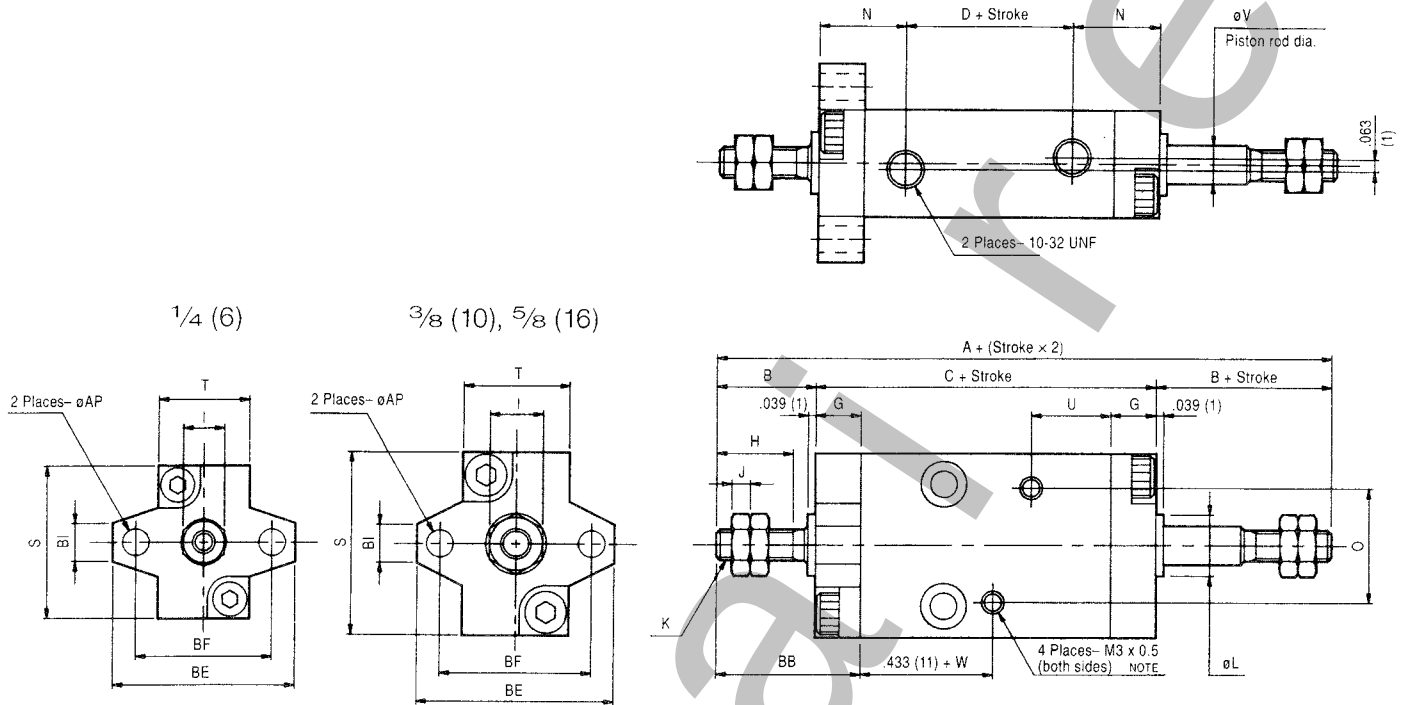
Flange A mount



DOUBLE ACTING — DOUBLE END ROD WITH MAGNET DIMENSION DIAGRAMS

in.(mm)

Flange B mount



Bore Nominal in. (mm)	Code – in. (mm)												
	A	C	D	B	G	H	I	J	K	L NOTE 1	N	O	S
1/4 (6)	2.087 (53)	1.299 (33)	0.512 (13)	0.394 (10)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.236 (6)	0.394 (10)	0.551 (14)	0.787 (20)
3/8 (10)	2.402 (61)	1.378 (35)	0.472 (12)	0.512 (13)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.315 (8)	0.453 (11.5)	0.591 (15)	0.945 (24)
5/8 (16)	2.677 (68)	1.496 (38)	0.512 (13)	0.591 (15)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.394 (10)	0.492 (12.5)	0.748 (19)	1.299 (33)

Bore Nominal in. (mm)	Code – in. (mm)												
	T	U	V	W	AF	AP	BB	BC	BE	BF	BG	BH	BI
1/4 (6)	0.472 (12)		0.118 (3)	0.256 (6.5)	0.236 (6)	0.138 (3.5)	0.591 (15)	1.083 (27.5)	0.945 (24)	0.709 (18)	0.138 (3.5)	0.551 (14)	0.197 (5)
3/8 (10)	0.551 (14)	0.416 (10.5)	0.197 (5)		0.315 (8)		0.748 (19)	1.240 (31.5)	1.024 (26)	0.787 (20)		0.630 (16)	
5/8 (16)	0.787 (20)		0.236 (6)	0.295 (7.5)	0.472 (12)	0.177 (4.5)	0.866 (22)	1.654 (42)	1.417 (36)	1.102 (28)	0.177 (4.5)	0.827 (21)	0.236 (6)

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

NOTE 1: 0.236 in. (6mm) = $\begin{smallmatrix} 0 \\ -0.002 \end{smallmatrix} \begin{smallmatrix} 0 \\ (-0.05) \end{smallmatrix}$

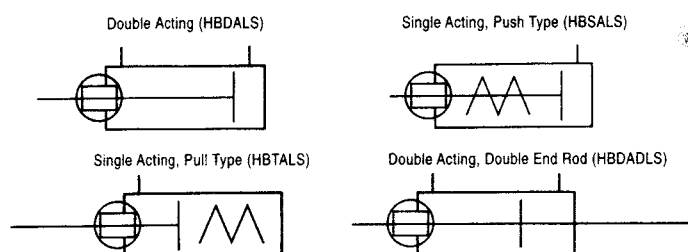
0.315 in. (8mm) = $\begin{smallmatrix} 0 \\ -0.002 \end{smallmatrix} \begin{smallmatrix} 0 \\ (-0.05) \end{smallmatrix}$

0.394 in. (10mm) = $\begin{smallmatrix} 0 \\ -0.002 \end{smallmatrix} \begin{smallmatrix} 0 \\ (-0.05) \end{smallmatrix}$

MULTI-MOUNT CYLINDERS

NON-ROTATING TYPE

SYMBOLS



SPECIFICATIONS

Item		Bore size I.D. – inch nominal (mm actual)		
		1/4 (6)	3/8 (10)	5/8 (16)
Media		Air		
Pressure – PSI (kgf/cm ²)	Double acting	30 ~ 100 (2 ~ 7)	20 ~ 100 (1.5 ~ 7)	20 ~ 100 (1 ~ 7)
	Single push	35 ~ 100 (2.5 ~ 7)	30 ~ 100 (2 ~ 7)	20 ~ 100 (1.5 ~ 7)
	Single pull	50 ~ 100 (3.5 ~ 7)	35 ~ 100 (2.5 ~ 7)	30 ~ 100 (2 ~ 7)
	Double acting Double rod	30 ~ 100 (2 ~ 7)	20 ~ 100 (1.5 ~ 7)	20 ~ 100 (1 ~ 7)
Temperature °F (°C)		32 ~ 140 (0 ~ 60)		
Operating speeds in./sec. (mm/sec.)		2 ~ 20 (50 ~ 500)		
Bumper		Buna		
Lubrication		Not required		
Port size		10-32 UNF		
Stroke tolerance – in. (mm)		+0.039 (+1) 0.000 (0)		

THRUST FORCE

lbs. (kgf)

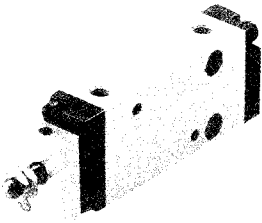
Bore size (I.D.) in. nom. (mm actual)	Rod Size Inch nom. (mm actual)	Type	Pressure area Inch ² (cm ²)	Air Pressure psig (kg/cm ²)						
				14 (1)	28 (2)	43 (3)	57 (4)	71 (5)	85 (6)	100 (7)
1/4 (6)	3/8 (10)	Double acting	Push	0.044 (0.282)	–	1.23 (0.56)	1.85 (0.84)	2.49 (1.13)	3.11 (1.41)	3.73 (1.69)
			Pull	0.033 (0.212)	–	0.93 (0.42)	1.39 (0.63)	1.85 (0.84)	2.34 (1.06)	2.80 (1.27)
		Single acting	Push	0.044 (0.282)	–	0.35 (0.16)	0.97 (0.44)	1.59 (0.72)	2.23 (1.01)	2.84 (1.29)
			Pull	0.033 (0.212)	–	–	0.51 (0.23)	0.97 (0.44)	1.45 (0.66)	1.92 (0.87)
3/8 (10)	1/2 (12.5)	Double acting	Push	0.122 (0.785)	1.72 (0.78)	3.46 (1.57)	5.18 (2.35)	6.92 (3.14)	8.64 (3.92)	10.39 (4.71)
			Pull	0.091 (0.589)	1.28 (0.58)	2.58 (1.17)	3.88 (1.76)	5.18 (2.35)	6.48 (2.94)	7.78 (3.53)
		Single acting	Push	0.122 (0.785)	–	1.70 (0.77)	3.42 (1.55)	5.16 (2.34)	6.88 (3.12)	8.62 (3.91)
			Pull	0.091 (0.589)	–	0.82 (0.37)	2.12 (0.96)	3.42 (1.55)	4.72 (2.14)	6.02 (2.73)
5/8 (16)	3/4 (19)	Double acting	Push	0.312 (2.01)	4.41 (2.0)	8.8 (4.0)	13.2 (6.0)	17.6 (8.0)	22.1 (10.0)	26.4 (12.0)
			Pull	0.267 (1.72)	3.75 (1.7)	7.5 (3.4)	11.2 (5.1)	15.0 (6.8)	19.0 (8.6)	22.7 (10.3)
		Single acting	Push	0.312 (2.01)	–	4.0 (1.8)	8.3 (3.8)	12.8 (5.8)	17.2 (7.8)	21.6 (9.8)
			Pull	0.267 (1.72)	–	2.6 (1.2)	6.6 (3.0)	10.4 (4.7)	14.3 (6.5)	18.1 (8.2)

SPRING FORCES

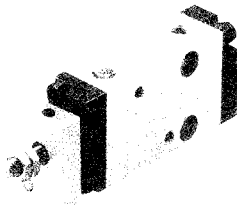
lbs. (kgf)

Bore size in. nom. (mm actual)	Zero stroke		End of stroke
	1/4"	1/2"	1/4", 1/2"
1/4 (6)	0.4 (0.38)	0.6 (0.25)	1.1 (0.51)
3/8 (10)	1.5 (0.69)	0.8 (0.40)	2.2 (0.98)
5/8 (16)	3.7 (1.67)	2.6 (1.18)	4.9 (2.20)

Double acting
(HBDALS)



Single acting – Push
(HBSALS)



Single acting – Pull
(HBTALS)



Double Acting – Double End Rod
(HBDADLS)



Operation	Bore in. (nom.) (mm) (actual)	Stroke inch	Side mount	Added weight							
				Double rods	w/one sensor (includes mounting bracket) ZC130, ZC153, CS5T, CS11T	Rod side mounting bracket			Head side mounting bracket		
						Foot ^{NOTE}	Flange A	Flange B	Foot ^{NOTE}	Flange A	Flange B
Double acting	1/4 (6)	1/4	0.9 (25)	0.1 (4)	0.7 (20)	0.4 (10)	0.07 (2)	0.07 (2)	0.5 (15)	0.2 (5)	0.2 (5)
		1/2	1.0 (29)								
		3/4	1.1 (32)								
		1	1.3 (36)								
		1 1/4	1.4 (40)								
	3/8 (10)	1/4	1.6 (44)	0.3 (8)	0.7 (20)	0.6 (16)	0.07 (2)	0.07 (2)	0.8 (24)	0.3 (8)	0.3 (8)
		1/2	1.7 (49)								
		3/4	1.9 (54)								
		1	2.1 (59)								
		1 1/4	2.3 (65)								
	5/8 (16)	1/4	3.3 (94)	0.6 (16)	0.7 (20)	1.2 (33)	0.4 (10)	0.4 (10)	1.9 (53)	0.6 (17)	0.6 (17)
		1/2	3.6 (103)								
		3/4	3.9 (112)								
		1	4.3 (121)								
		1 1/4	4.6 (129)								
Single acting push	1/4 (6)	1/4	1.0 (29)	–	0.7 (20)	0.4 (10)	0.07 (2)	0.07 (2)	0.5 (15)	0.2 (5)	0.2 (5)
		1/2	1.2 (33)	–							
	3/8 (10)	1/4	1.8 (50)	–	0.7 (20)	0.6 (16)	0.1 (4)	0.1 (4)	0.8 (24)	0.3 (8)	0.3 (8)
		1/2	1.9 (55)	–							
	5/8 (16)	1/4	3.7 (105)	–	0.7 (20)	1.2 (33)	0.4 (10)	0.4 (10)	1.9 (53)	0.6 (17)	0.6 (17)
		1/2	4.0 (114)	–							
Single acting pull	1/4 (6)	1/4	1.1 (31)	–	0.7 (20)	0.4 (10)	0.07 (2)	0.07 (2)	0.5 (15)	0.2 (5)	0.2 (5)
		1/2	1.2 (35)	–							
	3/8 (10)	1/4	1.9 (53)	–	0.7 (20)	0.6 (16)	0.1 (4)	0.1 (4)	0.8 (24)	0.3 (8)	0.3 (8)
		1/2	2.0 (58)	–							
	5/8 (16)	1/4	4.1 (115)	–	0.7 (20)	1.2 (33)	0.4 (10)	0.4 (10)	1.9 (53)	0.6 (17)	0.6 (17)
		1/2	4.4 (125)	–							

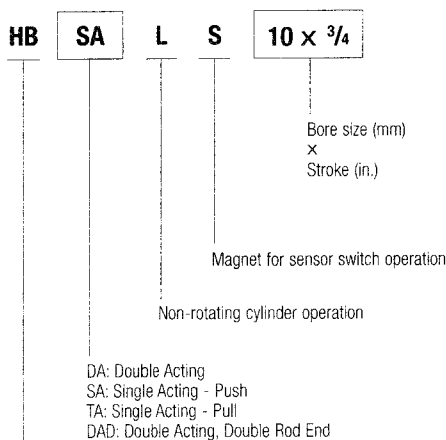
NOTE: The Foot Mount cannot be used on the rod side of non-rotating cylinders. However, the Foot Mount can be used on the head side of all of these models.

It can also be used on double rod end types by installing it opposite the rod with the non-rotation plate.

Calculation example: Two sensor switches on double acting cylinder HBDALS 16 x 1/2 = 3.6 oz. + (0.7 x 2) = 5 oz. (142 gf).

ORDER EXAMPLE

Cylinders



Humphrey Multi-Mount Series

NOTE 1: For standard stroke availability, see chart this page.

NOTE 2: To order sensor switches, see Sensor Switch Information section of this catalog. Humphrey Multi-Mount Cylinders have internal magnets as standard, thus they are ready for use with sensor switches.

NOTE 3: Foot mount option is not available in Non-rotating Multi-Mounts.

NOTE 4: Order Rod Nuts separately, see Accessories this page.

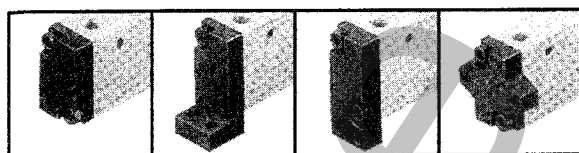
BORE SIZE AND STROKE

in. (mm)

Type of operation	Bore size	Standard strokes	max.
Double acting	1/4 (6)	1/4, 1/2, 3/4, 1, 1 1/4	1 1/4
	3/8 (10)		
	5/8 (16)		
Single - Push Single - Pull	1/4 (6)	1/4, 1/2	1/2
	3/8 (10)		
	5/8 (16)		
Double acting Double rod	1/4 (6)	1/4, 1/2, 3/4, 1, 1 1/4	1 1/4
	3/8 (10)		
	5/8 (16)		

HEAD SIDE MOUNTING BRACKETS AND SHIELD PLATE

Order separately.



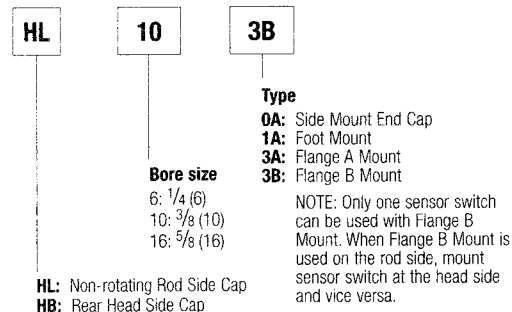
Side Mount Foot Mount Flange A Mount Flange B Mount

Shield Plate



For mounting cylinders with sensor switches in close proximity. Comes with two screws. See page 120.

Mounting Brackets



NOTE: Foot mount is not available on rod side of Non-rotating Multi-Mounts.

Accessories

RN-1	Rod Nut for 1/4 (6) bore, bag of two.
RN-3	Rod Nut for 3/8 (10) bore, bag of two.
RN-5	Rod Nut for 5/8 (16) bore, bag of two.

SHIELD PLATES (order code)

in. (mm)

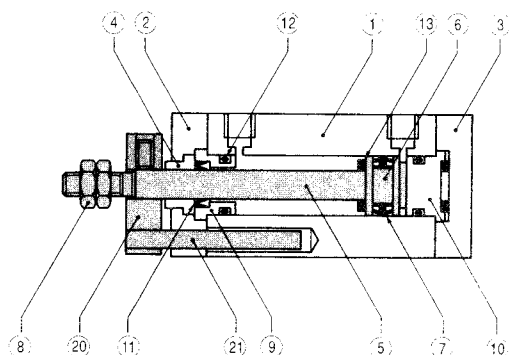
Bore size in. (mm) mm (actual)	Double acting (Including Double end rod)		Single acting-push, pull	
	Strokes			
	<3/4	3/4~1 1/4	1/4	1/2
1/4 (6)	HBS061	HBS062	HBS061	HBS062
3/8 (10)	HBS101	HBS102	HBS101	HBS102
5/8 (16)	HBS161	HBS162	HBS161	HBS162

NOTE 1: Shield plate supplied with two mounting screws.

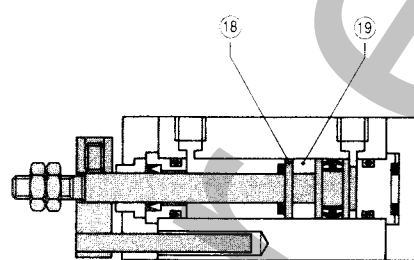
NOTE 2: Shield plates are sold separately.

INNER CONSTRUCTION AND MAJOR PARTS

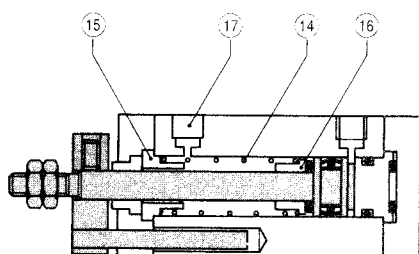
Double acting (HBDALS)



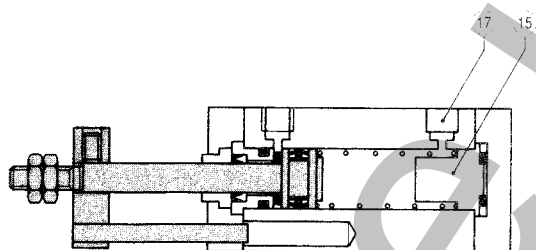
Double acting sensor cylinder (HBDALS)



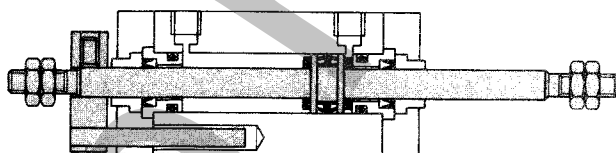
Single acting push type (HBSALS)



Single acting pull type (HBTALS)



Double acting – Double end rod (HBDADLS)



MATERIALS OF MAJOR PARTS

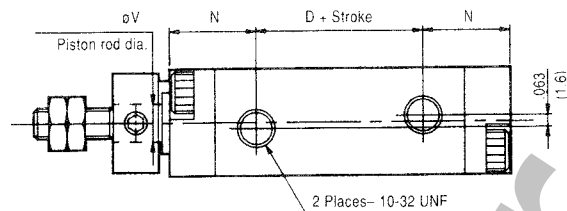
No.	Parts	Materials
1	Body	Anodized aluminum
2	Rod cover ^{NOTE}	Anodized aluminum
3	Rod cover ^{NOTE}	Anodized aluminum
4	Head bushing	Oil permeated bronze
5	Piston rod	Stainless steel
6	Piston	Brass
7	Piston packing	Buna
8	Rod end nuts	Hard steel (electroless nickel plated)
9	Packing case	Brass
10	Cap	Polyvinyl acetal
11	Rod packing	Buna
12	O-ring	Buna
13	Bumper	Polyurethane
14	Spring	Hard steel (electroless zinc plated)
15	Spring bearing	Brass
16	Collar	Brass
17	Filter	Porous aluminum
18	Support	Brass
19	Magnet	$\frac{1}{4}$ (6): Sintered alloy magnet $\frac{3}{8}$ (10), $\frac{5}{8}$ (16): Resinous magnet
20	Plate	Brass (electroless nickel plated)
21	Guide pin	Stainless steel

NOTE: Material of Foot Mount is hard steel (black zinc plated). All other mounting brackets are black anodized aluminum.

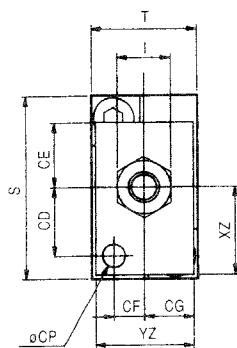
NON-ROTATING DOUBLE ACTING WITH MAGNET DIMENSION DIAGRAMS

in. (mm)

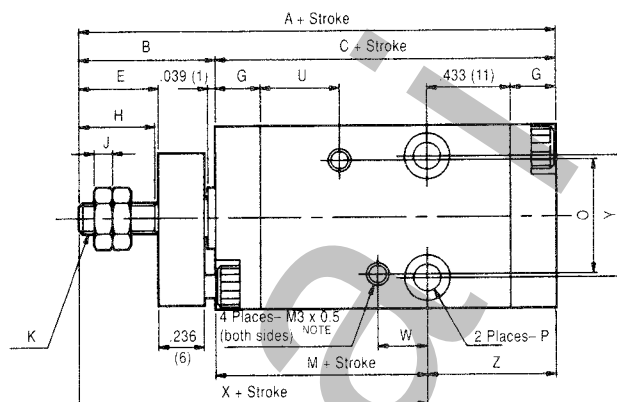
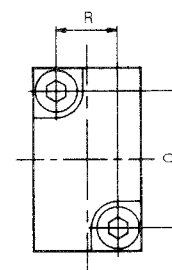
Side mount



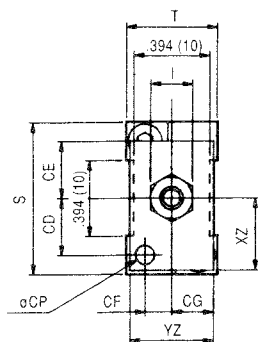
$\frac{3}{8}$ (10), $\frac{5}{8}$ (16)



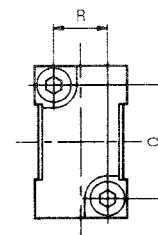
$\frac{3}{8}$ (10), $\frac{5}{8}$ (16)



$\frac{1}{4}$ (6)



$\frac{1}{4}$ (6)



Bore Nominal in. (mm)	Code – in. (mm)											
	A	C	D	M	X	B	E	G	H	I	J	K
1/4 (6)	1.890 (48)	1.299 (33)	0.512 (13)	0.669 (17)	1.260 (32)	0.591 (15)	0.295 (7.5)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC
3/8 (10)	2.087 (53)	1.378 (35)	0.472 (12)	0.709 (18)	1.417 (36)	0.709 (18)	0.413 (10.5)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC
5/8 (16)	2.283 (58)	1.496 (38)	0.512 (13)	0.787 (20)	1.575 (40)	0.787 (20)	0.492 (12.5)	0.276 (7)	0.472 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF

Bore Nominal in. (mm)	Code – in. (mm)										
	N	O	P thru hole x c'bore x depth	Q	R	S	T	U	V	W	Y
1/4 (6)	0.394 (10)	0.551 (14)	0.138 (3.5) x 0.236 (6) x 0.165 (4.2)	0.591 (15)	0.276 (7)	0.787 (20)	0.472 (12)	0.413 (10.5)	0.118 (3)	0.256 (6.5)	0.472 (12)
3/8 (10)	0.453 (11.5)	0.591 (15)	0.138 (3.5) x 0.236 (6) x 0.126 (3.2)	0.709 (18)	0.315 (8)	0.945 (24)	0.551 (14)		0.197 (5)		0.630 (16)
5/8 (16)	0.492 (12.5)	0.748 (19)	0.177 (4.5) x 0.299 (7.6) x 0.165 (4.2)	0.984 (25)	0.472 (12)	1.299 (33)	0.787 (20)		0.236 (6)	0.295 (7.5)	0.945 (24)

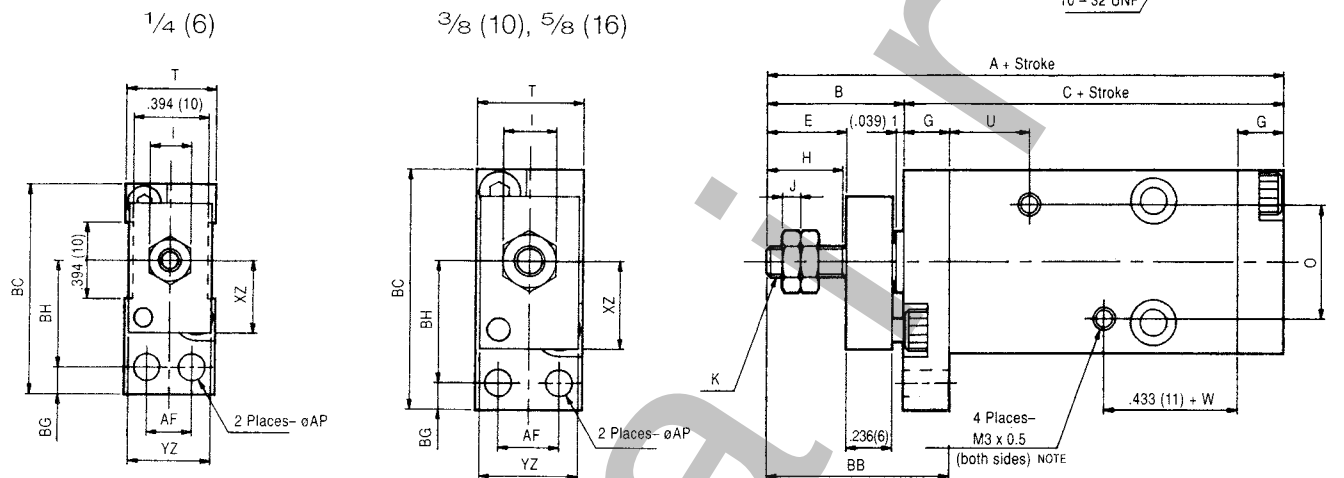
Bore Nominal in. (mm)	Code – in. (mm)							
	Z	CD	CE	CF	CG	CP	XZ	YZ
1/4 (6)	0.630 (16)	0.295 (7.5)	0.295 (7.5)	0.138 (3.5)	0.217 (5.5)	0.098 (2.5)	0.374 (9.5)	0.433 (11)
3/8 (10)	0.669 (17)	0.354 (9)	0.335 (8.5)	0.157 (4)	0.256 (6.5)	0.118 (3)	0.453 (11.5)	0.512 (13)
5/8 (16)	0.709 (18)	0.492 (12.5)	0.354 (9)	0.236 (6)	0.374 (9.5)	0.157 (4)	0.630 (16)	0.748 (19)

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

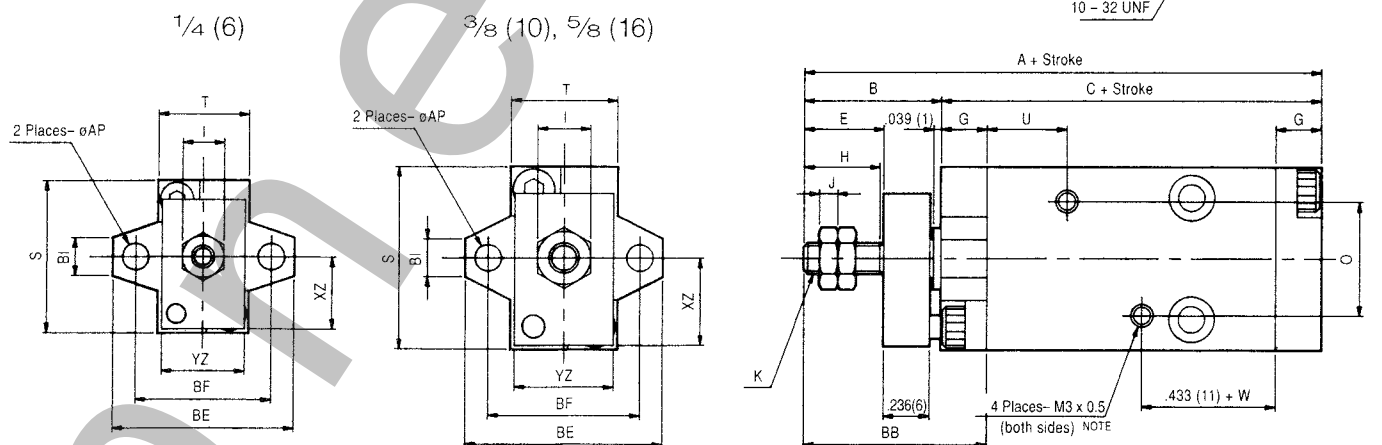
NON-ROTATING DOUBLE ACTING WITH MAGNET DIMENSION DIAGRAMS

in. (mm)

Flange A mount



Flange B mount



Bore Nominal in. (mm)	Code – in. (mm)											
	A	C	D	B	E	G	H	I	J	K	N	O
1/4 (6)	1.890 (48)	1.299 (33)	0.512 (13)	0.591 (15)	0.295 (7.5)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.394 (10)	0.551 (14)
3/8 (10)	2.087 (53)	1.378 (35)	0.472 (12)	0.709 (18)	0.413 (10.5)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.453 (11.5)	0.591 (15)
5/8 (16)	2.283 (58)	1.496 (38)	0.512 (13)	0.787 (20)	0.492 (12.5)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.492 (12.5)	0.748 (19)

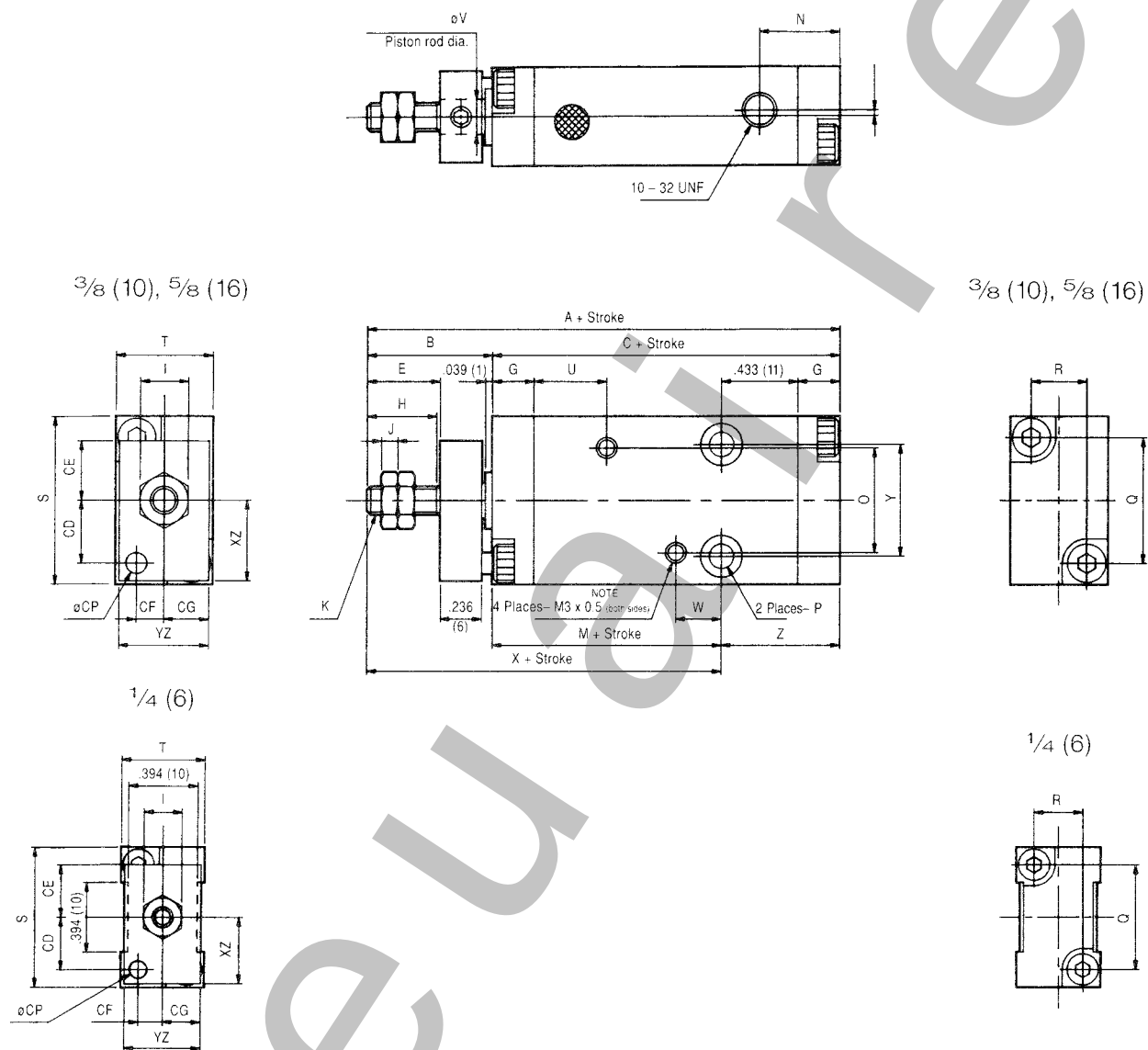
Bore Nominal in. (mm)	Code – in. (mm)												
	S	T	U	V	W	AF	AP	BB	BC	BE	BF	BG	BH
1/4 (6)	0.787 (20)	0.472 (12)	0.416 (10.5)	0.118 (3)	0.256 (6.5)	0.236 (6)	0.138 (3.5)	0.787 (20)	1.083 (27.5)	0.945 (24)	0.709 (18)	0.138 (3.5)	0.551 (14)
3/8 (10)	0.945 (24)	0.551 (14)		0.197 (5)		0.315 (8)		0.945 (24)	1.240 (31.5)	1.024 (26)	0.787 (20)		0.630 (16)
5/8 (16)	1.299 (33)	0.787 (20)		0.236 (6)	0.295 (7.5)	0.472 (12)	0.177 (4.5)	1.063 (27)	1.654 (42)	1.417 (36)	1.102 (28)	0.177 (4.5)	0.827 (21)

Bore Nominal in. (mm)	Code – in. (mm)		
	BI	XZ	YZ
1/4 (6)	0.197 (5)	0.374 (9.5)	0.433 (11)
3/8 (10)		0.453 (11.5)	0.512 (13)
5/8 (16)	0.236 (6)	0.630 (16)	0.748 (19)

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

NON-ROTATING SINGLE ACTING — PUSH TYPE WITH MAGNET DIMENSION DIAGRAMS in.(mm)

Side mount



Bore Nominal in. (mm)	Code – in. (mm)												
	A	C	M	X	B	E	G	H	I	J	K	N	O
1/4 (6)	2.087 (53)	1.496 (38)	0.866 (22)	1.457 (37)	0.591 (15)	0.295 (7.5)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.394 (10)	0.551 (14)
3/8 (10)	2.283 (58)	1.575 (40)	0.906 (23)	1.614 (41)	0.709 (18)	0.413 (10.5)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.453 (11.5)	0.591 (15)
5/8 (16)	2.480 (63)	1.693 (43)	0.984 (25)	1.772 (45)	0.787 (20)	0.492 (12.5)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.492 (12.5)	0.748 (19)

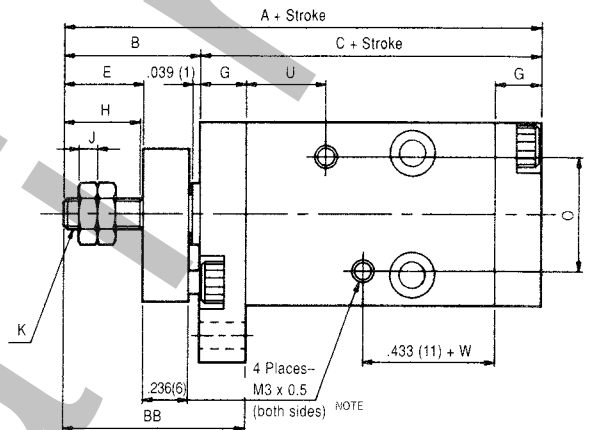
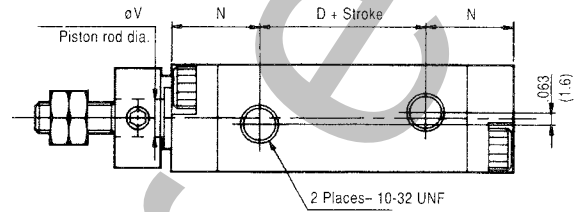
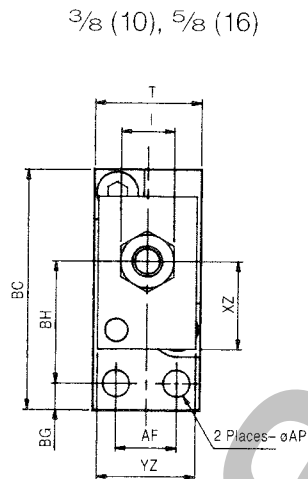
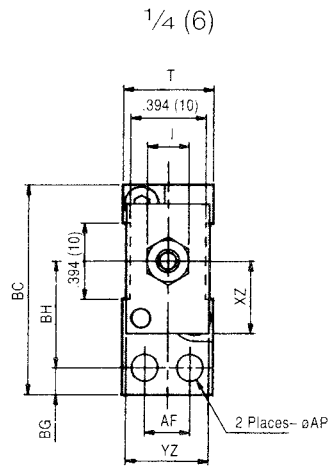
Bore Nominal in. (mm)	Code – in. (mm)										
	P thru hole x c"bore x depth	Q	R	S	T	U	V	W	Y	Z	CD
1/4 (6)	0.138 (3.5) x 0.236 (6) x 0.165 (4.2)	0.591 (15)	0.276 (7)	0.787 (20)	0.472 (12)	0.416 (10.5)	0.118 (3)	0.256 (6.5)	0.472 (12)	0.630 (16)	0.295 (7.5)
3/8 (10)	0.138 (3.5) x 0.236 (6) x 0.126 (3.2)	0.709 (18)	0.315 (8)	0.945 (24)	0.551 (14)		0.197 (5)		0.630 (16)	0.669 (17)	0.354 (9)
5/8 (16)	0.177 (4.5) x 0.299 (7.6) x 0.165 (4.2)	0.984 (25)	0.472 (12)	1.299 (33)	0.787 (20)		0.236 (6)	0.295 (7.5)	0.945 (24)	0.709 (18)	0.492 (12.5)

Bore Nominal in. (mm)	Code – in. (mm)					
	CE	CF	CG	CP	XZ	YZ
1/4 (6)	0.295 (7.5)	0.138 (3.5)	0.217 (5.5)	0.098 (2.5)	0.374 (9.5)	0.433 (11)
3/8 (10)	0.335 (8.5)	0.157 (4)	0.256 (6.5)	0.118 (3)	0.453 (11.5)	0.512 (13)
5/8 (16)	0.354 (9)	0.236 (6)	0.374 (9.5)	0.157 (4)	0.630 (16)	0.748 (19)

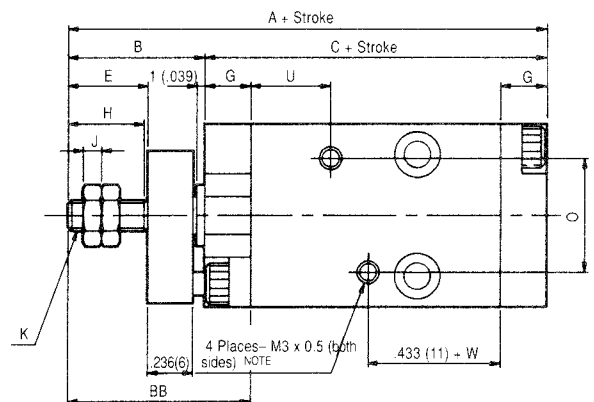
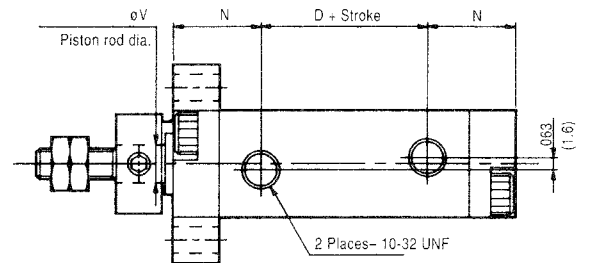
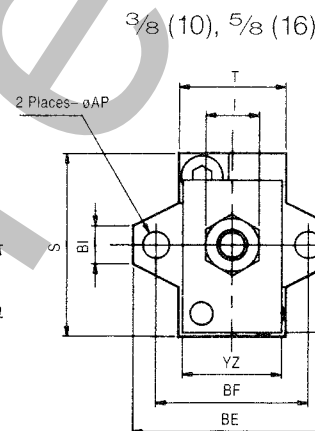
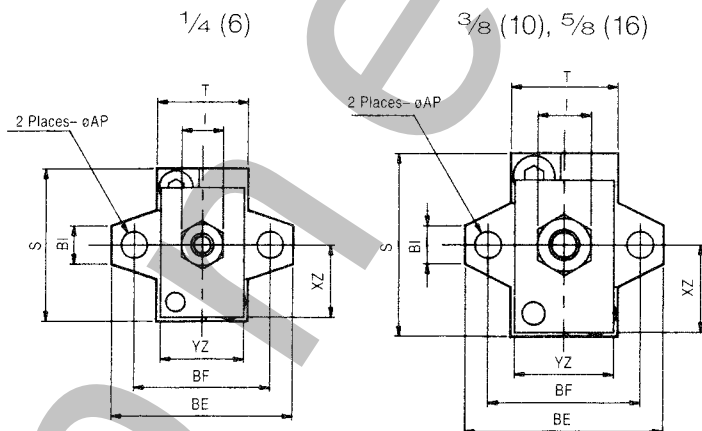
NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

NON-ROTATING SINGLE ACTING — PUSH TYPE WITH MAGNET DIMENSION DIAGRAMS in.(mm)

Flange A mount



Flange B mount



Bore Nominal in. (mm)	Code – in. (mm)										
	A	C	B	E	G	H	I	J	K	N	O
1/4 (6)	2.087 (53)	1.496 (38)	0.591 (15)	0.295 (7.5)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.394 (10)	0.551 (14)
3/8 (10)	2.283 (58)	1.575 (40)	0.709 (18)	0.413 (10.5)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.453 (11.5)	0.591 (15)
5/8 (16)	2.480 (63)	1.693 (43)	0.787 (20)	0.492 (12.5)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.492 (12.5)	0.748 (19)

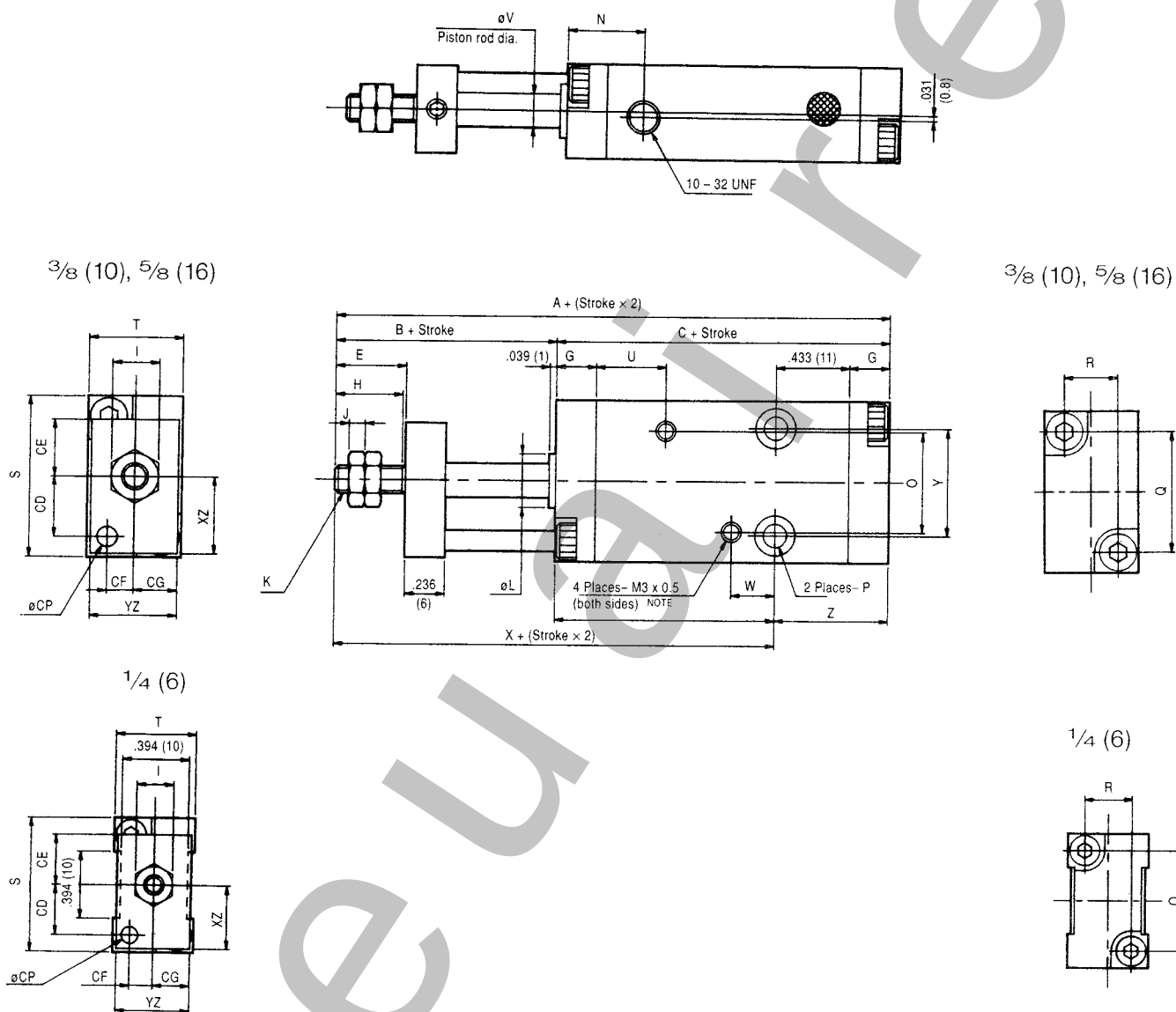
Bore Nominal in. (mm)	Code – in. (mm)												
	S	T	U	V	W	AF	AP	BB	BC	BE	BF	BG	BH
1/4 (6)	0.787 (20)	0.472 (12)	0.416 (10.5)	0.118 (3)	0.256 (6.5)	0.236 (6)	0.138 (3.5)	0.787 (20)	1.083 (27.5)	0.945 (24)	0.709 (18)	0.138 (3.5)	0.551 (14)
3/8 (10)	0.945 (24)	0.551 (14)		0.197 (5)		0.315 (8)		0.945 (24)	1.240 (31.5)	1.024 (26)	0.787 (20)		0.630 (16)
5/8 (16)	1.299 (33)	0.787 (20)		0.236 (6)	0.295 (7.5)	0.472 (12)	0.177 (4.5)	1.063 (27)	1.654 (42)	1.417 (36)	1.102 (28)	0.177 (4.5)	0.827 (21)

Bore Nominal in. (mm)	Code – in. (mm)		
	BI	XZ	YZ
1/4 (6)	0.197 (5)	0.374 (9.5)	0.433 (11)
3/8 (10)		0.453 (11.5)	0.512 (13)
5/8 (16)	0.236 (6)	0.630 (16)	0.748 (19)

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

NON-ROTATING SINGLE ACTING — PULL TYPE WITH MAGNET DIMENSION DIAGRAMS in.(mm)

Side mount



Bore Nominal in. (mm)	Code – in. (mm)											
	A	C	M	X	B	E	G	H	I	J	K	L NOTE 1
1/4 (6)	2.087 (53)	1.496 (38)	0.866 (22)	1.457 (37)	0.591 (15)	0.295 (7.5)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.236 (6)
3/8 (10)	2.283 (58)	1.575 (40)	0.906 (23)	1.614 (41)	0.709 (18)	0.413 (10.5)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.315 (8)
5/8 (16)	2.480 (63)	1.693 (43)	0.984 (25)	1.772 (45)	0.787 (20)	0.492 (12.5)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.394 (10)

Bore Nominal in. (mm)	Code – in. (mm)										
	O	P thru hole x c'bore x depth	Q	R	S	T	U	V	W	Y	Z
1/4 (6)	0.551 (14)	0.138 (3.5) x 0.236 (6) x 0.165 (4.2)	0.591 (15)	0.276 (7)	0.787 (20)	0.472 (12)	0.416 (10.5)	0.118 (3)	0.256 (6.5)	0.472 (12)	0.630 (16)
3/8 (10)	0.591 (15)	0.138 (3.5) x 0.236 (6) x 0.126 (3.2)	0.709 (18)	0.315 (8)	0.945 (24)	0.551 (14)		0.197 (5)		0.630 (16)	0.669 (17)
5/8 (16)	0.748 (19)	0.177 (4.5) x 0.299 (7.6) x 0.165 (4.2)	0.984 (25)	0.472 (12)	1.299 (33)	0.787 (20)		0.236 (6)	0.295 (7.5)	0.945 (24)	0.709 (18)

Bore Nominal in. (mm)	Code – in. (mm)						
	CD	CE	CF	CG	CP	XZ	YZ
1/4 (6)	0.295 (7.5)	0.295 (7.5)	0.138 (3.5)	0.217 (5.5)	0.098 (2.5)	0.374 (9.5)	0.433 (11)
3/8 (10)	0.354 (9)	0.335 (8.5)	0.157 (4)	0.256 (6.5)	0.118 (3)	0.453 (11.5)	0.512 (13)
5/8 (16)	0.492 (12.5)	0.354 (9)	0.236 (6)	0.374 (9.5)	0.157 (4)	0.630 (16)	0.748 (19)

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

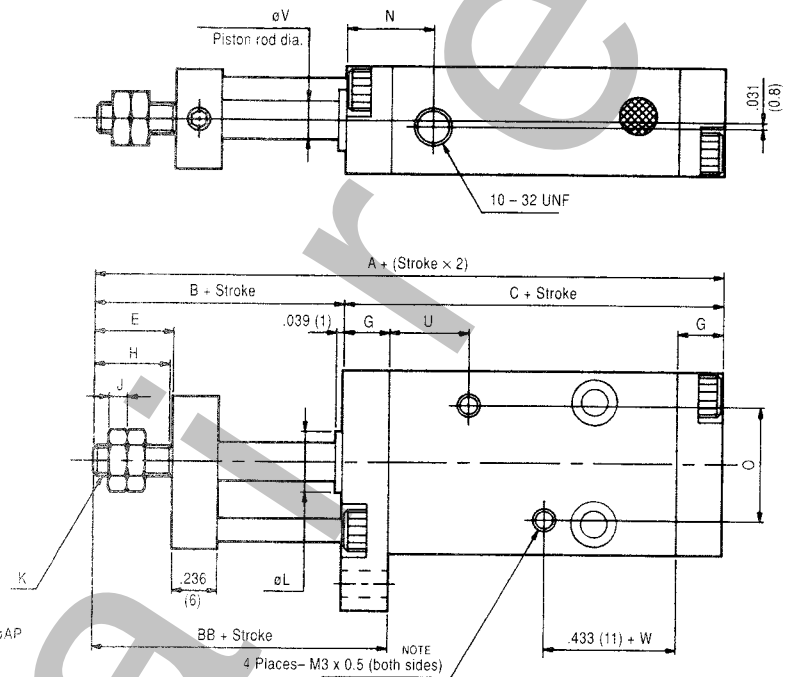
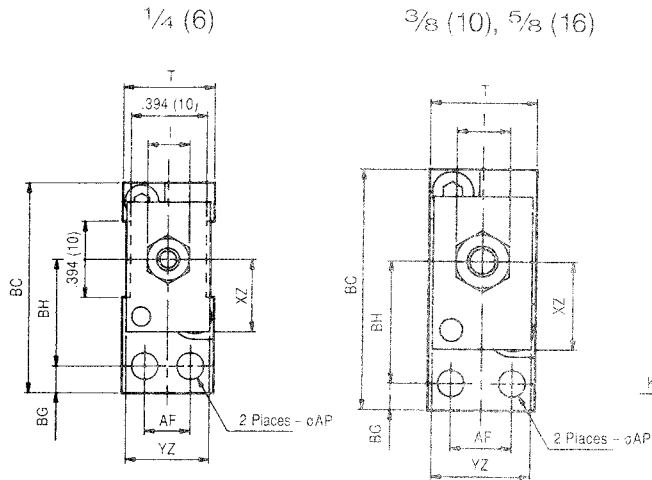
NOTE 1: 0.236 in. (6mm) = $-\frac{0.002}{-0.05}$

0.315 in. (8mm) = $-\frac{0.002}{-0.05}$

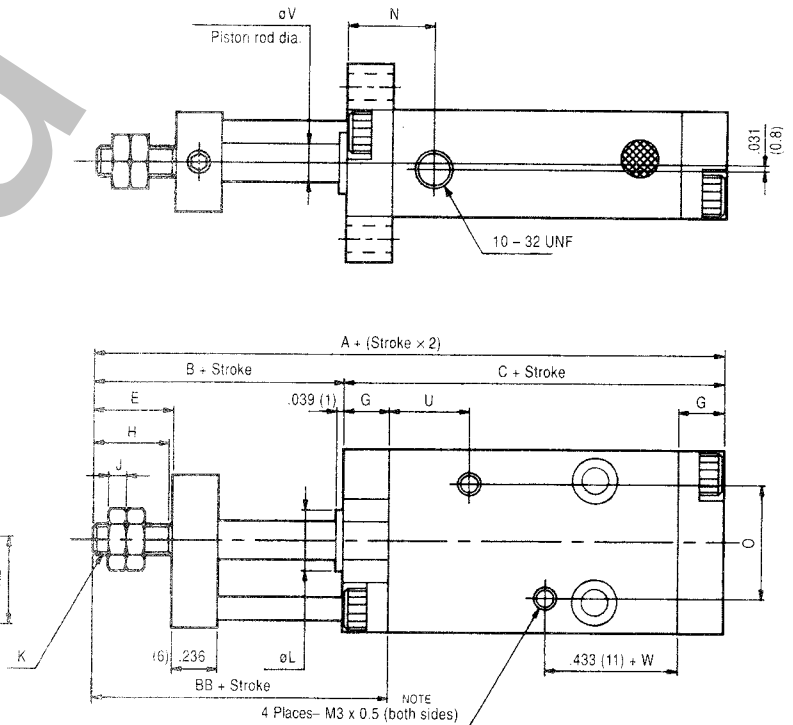
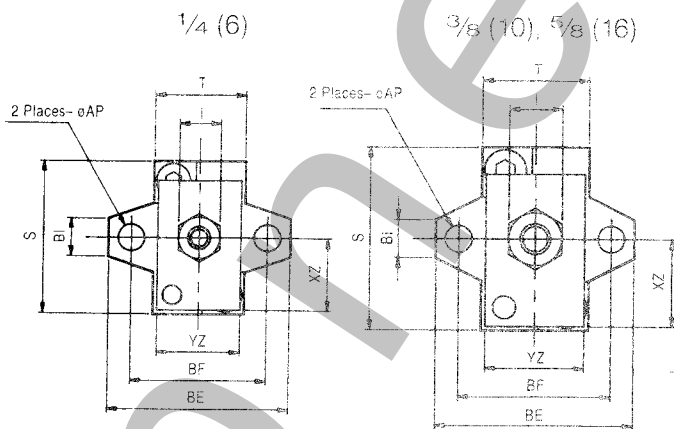
0.394 in. (10mm) = $-\frac{0.002}{-0.05}$

NON-ROTATING SINGLE ACTING — PULL TYPE WITH MAGNET DIMENSION DIAGRAMS in.(mm)

Flange A mount



Flange B mount



Bore Nominal in. (mm)	Code – in. (mm)										
	A	C	B	E	G	H	I	J	K	L NOTE 1	N
1/4 (6)	2.087 (53)	1.496 (38)	0.591 (15)	0.295 (7.5)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.236 (6)	0.394 (10)
3/8 (10)	2.283 (58)	1.575 (40)	0.709 (18)	0.413 (10.5)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.315 (8)	0.453 (11.5)
5/8 (16)	2.480 (63)	1.693 (43)	0.787 (20)	0.492 (12.5)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.394 (10)	0.492 (12.5)

Bore Nominal in. (mm)	Code – in. (mm)												
	O	S	T	U	V	W	AF	AP	BB	BC	BE	BF	BG
1/4 (6)	0.551 (14)	0.787 (20)	0.472 (12)	0.416 (10.5)	0.118 (3)	0.256 (6.5)	0.236 (6)	0.138 (3.5)	0.787 (20)	1.083 (27.5)	0.945 (24)	0.709 (18)	0.138 (3.5)
3/8 (10)	0.591 (15)	0.945 (24)	0.551 (14)		0.197 (5)		0.315 (8)		0.945 (24)	1.240 (31.5)	1.024 (26)	0.787 (20)	
5/8 (16)	0.748 (19)	1.299 (33)	0.787 (20)		0.236 (6)	0.295 (7.5)	0.472 (12)	0.177 (4.5)	1.063 (27)	1.654 (42)	1.417 (36)	1.102 (28)	0.177 (4.5)

Bore Nominal in. (mm)	Code – in. (mm)			
	BH	BI	XZ	YZ
1/4 (6)	0.551 (14)	0.197 (5)	0.374 (9.5)	0.433 (11)
3/8 (10)	0.630 (16)		0.453 (11.5)	0.512 (13)
5/8 (16)	0.827 (21)	0.236 (6)	0.630 (16)	0.748 (19)

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

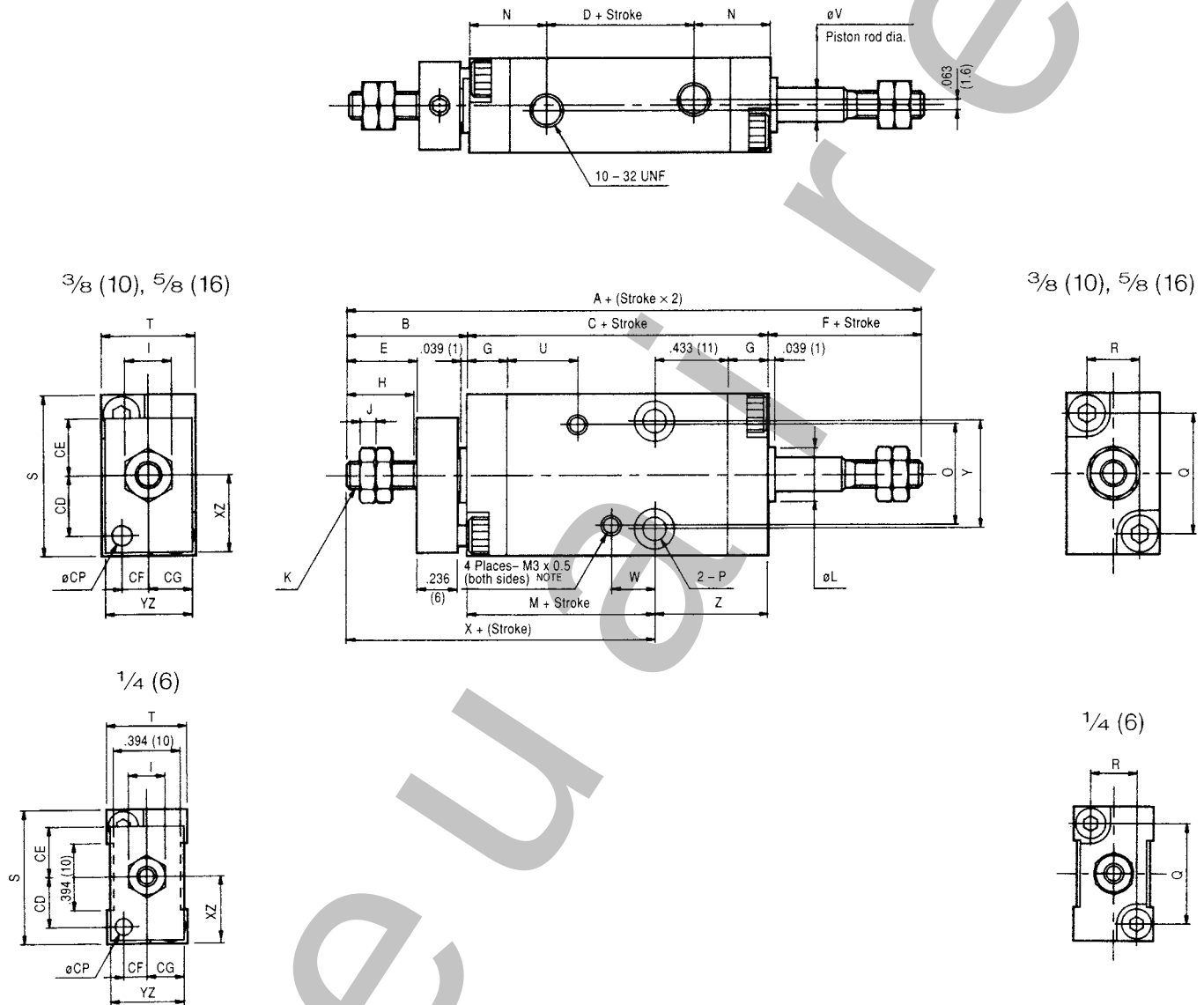
NOTE 1: 0.236 in. (6mm) = $^{0}_{-0.002}$ ($^{-0.05}$)

0.315 in. (8mm) = $^{0}_{-0.002}$ ($^{-0.05}$)

0.394 in. (10mm) = $^{0}_{-0.002}$ ($^{-0.05}$)

NON-ROTATING DOUBLE ACTING — DOUBLE END ROD WITH MAGNET DIMENSION DIAGRAMS in.(mm)

Side mount



Bore Nominal in. (mm)	Code – in. (mm)												
	A	C	D	M	X	B	E	F	G	H	I	J	K
1/4 (6)	2.283 (58)	1.299 (33)	0.512 (13)	0.669 (17)	1.260 (32)	0.591 (15)	0.295 (7.5)	0.394 (10)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC
3/8 (10)	2.598 (66)	1.378 (35)	0.472 (12)	0.709 (18)	1.417 (36)	0.709 (18)	0.413 (10.5)	0.512 (13)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC
5/8 (16)	2.874 (73)	1.496 (38)	0.512 (13)	0.787 (20)	1.575 (40)	0.787 (20)	0.492 (12.5)	0.591 (15)	0.276 (7)	0.472 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF

Bore Nominal in. (mm)	Code – in. (mm)										
	L NOTE 1	N	O	P thru hole x c'bore x depth	Q	R	S	T	U	V	W
1/4 (6)	0.236 (6)	0.394 (10)	0.551 (14)	0.138 (3.5) x 0.236 (6) x 0.165 (4.2)	0.591 (15)	0.276 (7)	0.787 (20)	0.472 (12)	0.413 (10.5)	0.118 (3)	0.256 (6.5)
3/8 (10)	0.315 (8)	0.453 (11.5)	0.591 (15)	0.138 (3.5) x 0.236 (6) x 0.126 (3.2)	0.709 (18)	0.315 (8)	0.945 (24)	0.551 (14)		0.197 (5)	
5/8 (16)	0.394 (10)	0.492 (12.5)	0.748 (19)	0.177 (4.5) x 0.299 (7.6) x 0.165 (4.2)	0.984 (25)	0.472 (12)	1.299 (33)	0.787 (20)		0.236 (6)	0.295 (7.5)

Bore Nominal in. (mm)	Code – in. (mm)								
	Y	Z	CD	CE	CF	CG	CP	XZ	YZ
1/4 (6)	0.472 (12)	0.630 (16)	0.295 (7.5)	0.295 (7.5)	0.138 (3.5)	0.217 (5.5)	0.098 (2.5)	0.374 (9.5)	0.433 (11)
3/8 (10)	0.630 (16)	0.669 (17)	0.354 (9)	0.335 (8.5)	0.157 (4)	0.256 (6.5)	0.118 (3)	0.453 (11.5)	0.512 (13)
5/8 (16)	0.945 (24)	0.709 (18)	0.492 (12.5)	0.354 (9)	0.236 (6)	0.374 (9.5)	0.157 (4)	0.630 (16)	0.748 (19)

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

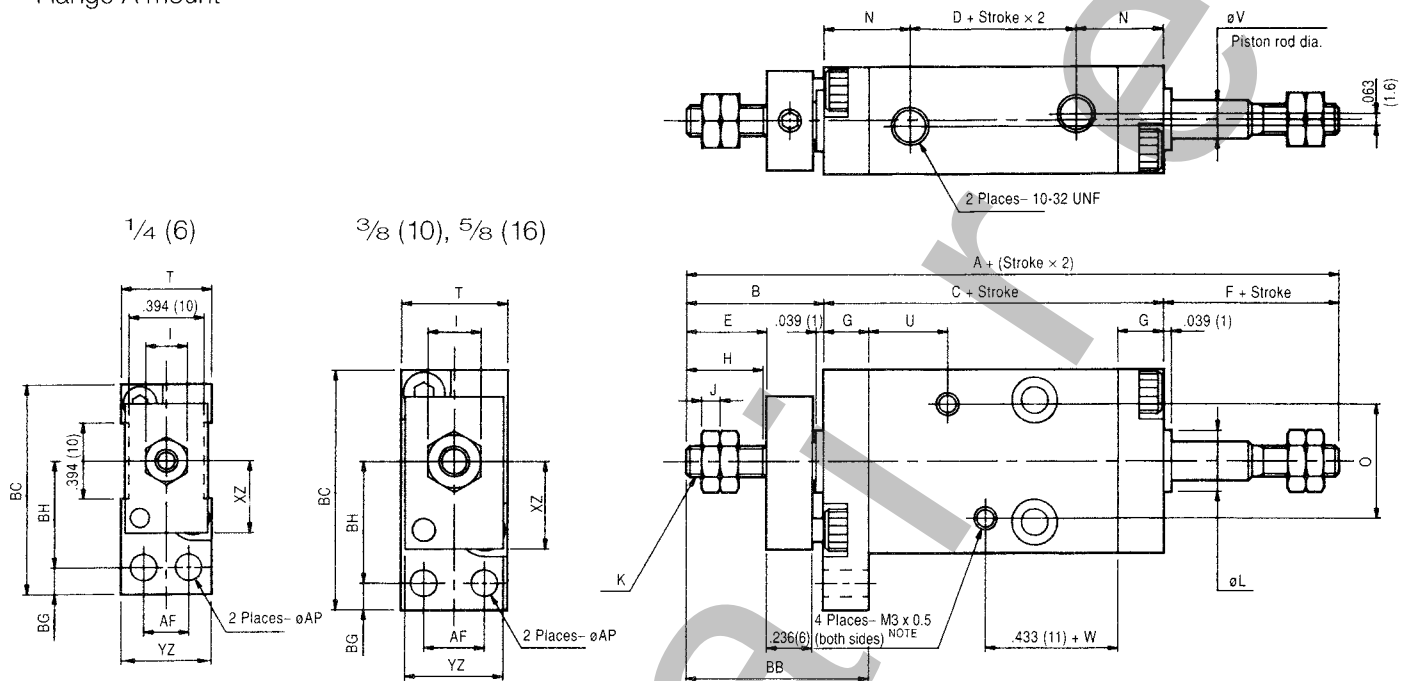
NOTE 1: 0.236 in. (6mm) = 0.002 (-0.05)

0.315 in. (8mm) = 0.002 (-0.05)

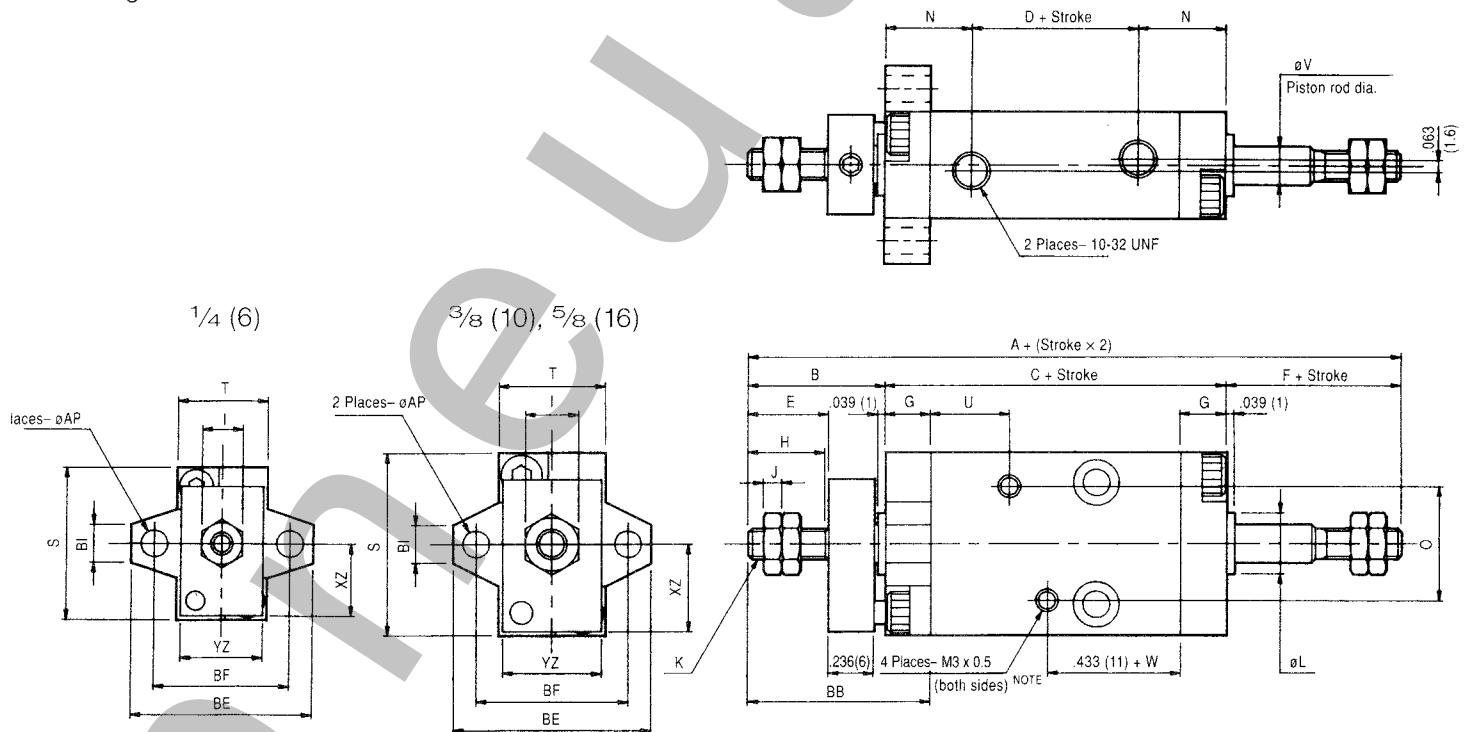
0.394 in. (10mm) = 0.002 (-0.05)

NON-ROTATING DOUBLE ACTING — DOUBLE END ROD WITH MAGNET DIMENSION DIAGRAMS in.(mm)

Flange A mount



Flange B mount



Bore Nominal in. (mm)	Code – in. (mm)												
	A	C	D	B	E	F	G	H	I	J	K	L NOTE 1	N
1/4 (6)	2.283 (58)	1.299 (33)	0.512 (13)	0.591 (15)	0.295 (7.5)	0.394 (10)	0.197 (5)	0.276 (7)	0.217 (5.5)	0.071 (1.8)	4-40 UNC	0.236 (6)	0.394 (10)
3/8 (10)	2.598 (66)	1.378 (35)	0.472 (12)	0.709 (18)	0.413 (10.5)	0.512 (13)	0.236 (6)	0.394 (10)	0.276 (7)	0.094 (2.4)	8-32 UNC	0.315 (8)	0.453 (11.5)
5/8 (16)	2.874 (73)	1.496 (38)	0.512 (13)	0.787 (20)	0.492 (12.5)	0.591 (15)	0.276 (7)	0.512 (12)	0.315 (8)	0.126 (3.2)	10-32 UNF	0.394 (10)	0.492 (12.5)

Bore Nominal in. (mm)	Code – in. (mm)												
	O	S	T	U	V	W	AF	AP	BB	BC	BE	BF	BG
1/4 (6)	0.551 (14)	0.787 (20)	0.472 (12)	0.416 (10.5)	0.118 (3)	0.256 (6.5)	0.236 (6)	0.138 (3.5)	0.787 (20)	1.083 (27.5)	0.945 (24)	0.709 (18)	0.138 (3.5)
3/8 (10)	0.591 (15)	0.945 (24)	0.551 (14)		0.197 (5)		0.315 (8)		0.945 (24)	1.240 (31.5)	1.024 (26)	0.787 (20)	
5/8 (16)	0.748 (19)	1.299 (33)	0.787 (20)		0.236 (6)	0.295 (7.5)	0.472 (12)	0.177 (4.5)	1.063 (27)	1.654 (42)	1.417 (36)	1.102 (28)	

Bore Nominal in. (mm)	Code – in. (mm)			
	BH	BI	XZ	YZ
1/4 (6)	0.551 (14)	0.197 (5)	0.374 (9.5)	0.433 (11)
3/8 (10)	0.630 (16)		0.453 (11.5)	0.512 (13)
5/8 (16)	0.827 (21)		0.630 (16)	0.748 (19)

NOTE: Do not use 4 - M3x0.5 for mounting cylinders. This is for sensor switch mounting.

NOTE 1: 0.236 in. (6mm) = $\begin{smallmatrix} 0 \\ -0.002 \end{smallmatrix}$ ($\begin{smallmatrix} 0 \\ -0.05 \end{smallmatrix}$)

0.315 in. (8mm) = $\begin{smallmatrix} 0 \\ -0.002 \end{smallmatrix}$ ($\begin{smallmatrix} 0 \\ -0.05 \end{smallmatrix}$)

0.394 in. (10mm) = $\begin{smallmatrix} 0 \\ -0.002 \end{smallmatrix}$ ($\begin{smallmatrix} 0 \\ -0.05 \end{smallmatrix}$)