R Cylinder

Specifications

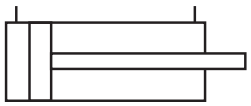
Features						
Type	ISO 6432 CETOP RP52P					
Series	R					
Configurations	R2 Double Acting, Single Rod R3 Single Acting, Single Rod, Spring Return R5 Double Acting, Single Rod, Magnetic Piston, Cushions R6 Double Acting, Single Rod, Magnetic Piston RDU 6 Double Acting, Double Rod, Magnetic Piston					
Construction Materials						
Barrel	Stainless Steel					
End Caps	Aluminum, Anodized (10µ)					
Piston Rod	Stainless Steel					
Characteristics						
Operating Temperature	Min. -5° F (-20°C) Max. +176°F (+80°C)					
Operating Pressure		Ø10		Ø12-25		
	Min:	22 PSI (1.5 bar)		15 PSI (1 bar)		
	Max:	145 PSI (10 bar)		145 PSI (10 bar)		
Normal Operating Pressure	90 PSI (6 bar)					
Lubrication	Pre-lubricated at factory. If additional lubrication is required use oil compatible for NBR seal and designed for use in pneumatic systems.					
Media	Filtered and regulated compressed air					
Installation	In any position					
Weight	See chart with mounts					
Stroke Length	Up to 320mm - Longer contact factory					
Theoretical Forces	See Technical Information Sheet					
Load Capacity	See Technical Information Sheet					
Specifications						
Piston Diameter		10	12	16	20	25
Port Sizes	Metric (G)	M5	M5	M5	G1/8	G1/8
Rod Diameter	mm	4	6	6	8	10
Cushion Lengths	mm				17	17

Series R

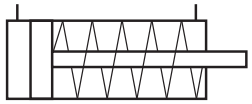
Ø10mm - 25mm

ISO 6432
CETOP RP52P

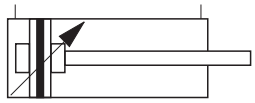
R 2: **Double Acting, Single Rod**



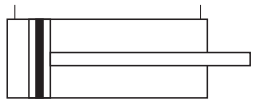
R 3: **Single Acting, Single Rod**



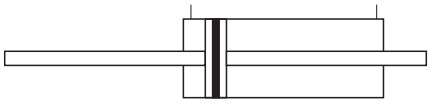
R 5: **Double Acting, Single Rod, Magnets, Cushions**



R 6: **Double Acting, Single Rod, Magnets**



RDU 6: **Double Acting, Double Rod, Magnets**



Features:

Stainless Steel Rod
Pre-Lubricated Design
Magnetic Piston
Adjustable Cushions

R Cylinder

Ordering Information

Example:

R 5025/25
ISO 6432
Single Rod
Double Acting, Magnets, Cushions
25mm Bore
25mm Stroke

R 5 025/25

Versions:

R – Single Rod
RDU – Double Rod

Actuation:

5 – Double Acting, Magnets, Cushions (Ø20 & 25)
6 – Double Acting, Magnets
2 – Double Acting
3 – Single Acting, Magnets

Stroke:

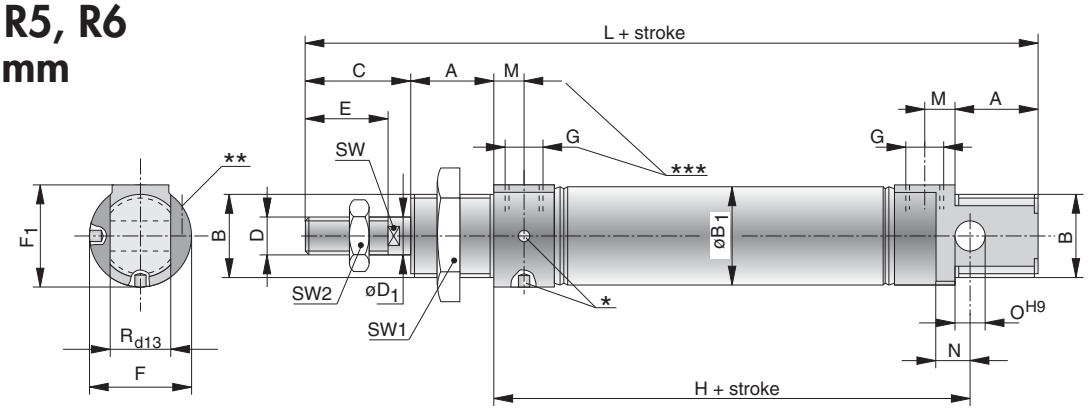
- Ø10: any mm increment up to 100mm standard
- Ø12 & 16: any mm increment up to 160mm standard
- Ø20 & 25: any mm increment up to 320mm standard
- Contact factory for special stroke lengths
- Single acting stroke lengths of 10, 25 & 50mm

Bore:

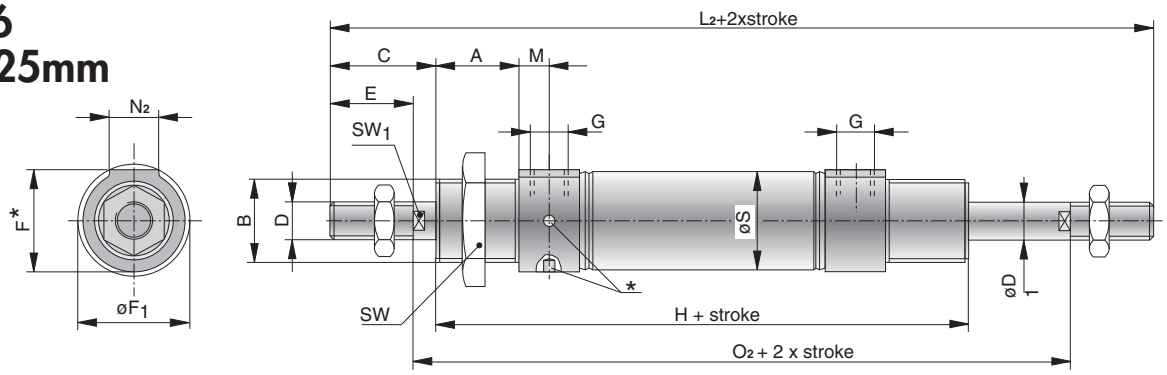
010 - 10mm (nom. 7/16")
012 - 12mm (nom. 1/2")
016 - 16mm (nom. 3/4")
020 - 20mm (nom. 7/8")
025 - 25mm (nom. 1")

Proximity Sensors/Brackets: See Page 73

R2, R3, R5, R6 Ø10-25mm



RDU 6 Ø12-25mm



* Holes for "C" Spanner Wrench
** Location of Adjustable Cushion, R5020 & R5025 Only
*** Omit Dimensions "G" and "M" for Series R3 Cylinders

Bore Ø	A	B	B_1	C	D	Ø D_1	E	F	F_1 hex	G	H + stroke	H_2 + stroke
10	**0.47** 12	**7/16 • 20** M12 x 1.25	**0.44** 11.3	**0.63** 16	**6 • 32** M4	**0.16** 4	**0.47** 12	**0.59** 15	**0.59** 15	**10 • 32** M5	**1.89** 48	**-** -
12	**0.67** 17	M16 x 1.5	**0.52** 13.3	**0.83** 21	M6	**0.24** 6	**0.63** 16	**0.79** 20	**0.79** 20	M5	**2.09** 53	**3.23** 82
16	**0.67** 17	**5/8 • 18** M16 x 1.5	**0.68** 17.3	**0.83** 21	**10 • 32** M6	**0.24** 6	**0.63** 16	**0.79** 20	**0.79** 20	**10 • 32** M5	**2.36** 60	**3.54** 90
20	**0.79** 20	M22 x 1.5	**0.83** 21.3	**0.94** 24	M8	**0.30** 8	**0.79** 20	**1.06** 27	**1.06** 27	G1/8	**2.80** 71	**4.25** 108
25	**0.87** 22	**7/8 • 14** M22 x 1.5	**1.04** 26.5	**1.10** 28	**3/8 • 24** M10 x 1.25	**0.39** 10	**0.87** 22	**1.06** 27	**1.06** 27	**1/8 NPTF** G1/8	**2.99** 76	**4.45** 113

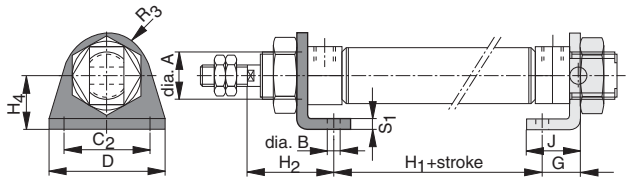
Bore Ø	L + stroke	L_2+2X stroke	M	N	N_2	Ø O_{H9}	O_2+2X stroke	R_{d13}	ØS	SW	SW_1	SW_2
10	**3.39** 86		**0.22** 5.5	**0.24** 6	**-** -	**0.16** 4	**-** -	**0.31** 8	**-** -	**0.12** 3	**0.67** 17	-
12	**4.09** 104	**4.88** 124	**0.22** 5.5	**0.35** 9	**0.37** 9.5	**0.24** 6	**3.62** 92	**0.47** 12	**0.52** 13.3	**0.20** 5	**0.87** 22	10
16	**4.37** 111	**5.20** 132	**0.22** 5.5	**0.35** 9	**0.37** 9.5	**0.24** 6	**3.94** 100	**0.47** 12	**0.68** 17.3	**0.20** 5	**0.87** 22	10
20	**5.20** 132	**6.14** 156	**0.33** 8.5	**0.47** 12	**0.57** 14.5	**0.31** 8	**4.57** 116	**0.63** 16	**0.84** 21.3	**0.28** 7	**1.06** 27	13
25	**5.55** 141	**6.65** 169	**0.33** 8.5	**0.47** 12	**0.57** 14.5	**0.31** 8	**4.92** 125	**0.63** 16	**1.04** 26.5	**0.35** 9	**1.06** 27	17

R Cylinder

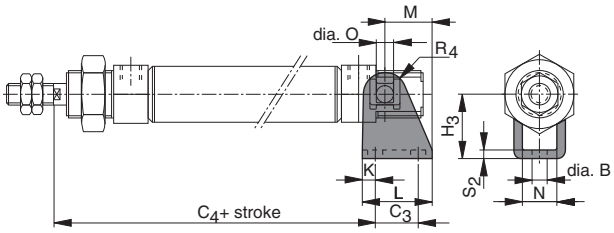
Cylinder Mounts

Foot Mount- Type RA

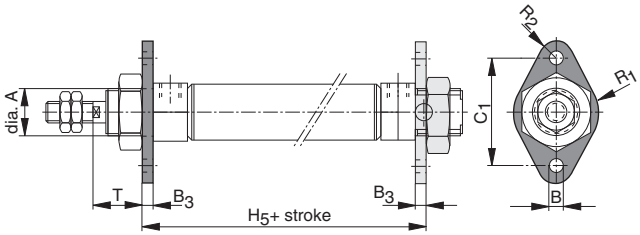
RA1- 1 Bracket with Mounting Nut
RA2- 2 Brackets with Mounting Nuts



Rear Clevis- Type RB



Front or Rear Flange- Type RC



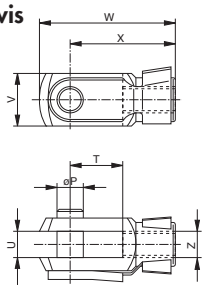
Ordering Information:
See ROV Series Cylinder on Page 14

Bore Ø	A	B	B_3	C_1	C_2	C_3	C_4+	D	G	H_1+ stroke	H_2	H_3	H_4	H_5 stroke
10	**0.47** 12	**0.18** 4.5	**0.12** 3	**1.18** 30	**0.98** 25	**0.49** 12.5	**2.56** 65	**1.38** 35	**0.43** 11	**1.14** 29	**0.94** 24	**0.94** 24	**0.63** 16	**2.52** 64
12	**0.63** 16	**0.22** 5.5	**0.16** 4	**1.57** 40	**1.26** 32	**0.59** 15	**2.87** 73	**1.65** 42	**0.55** 14	**1.02** 26	**1.26** 32	**1.06** 27	**0.79** 20	**2.83** 72
16	**0.63** 16	**0.22** 5.5	**0.16** 4	**1.57** 40	**1.26** 32	**0.59** 15	**3.15** 80	**1.65** 42	**0.55** 14	**1.30** 33	**1.26** 32	**1.06** 27	**0.79** 20	**3.11** 79
20	**0.87** 22	**0.26** 6.6	**0.20** 5	**1.97** 50	**1.57** 40	**0.79** 20	**3.58** 91	**2.13** 54	**0.67** 17	**1.69** 43	**1.42** 36	**1.18** 30	**0.98** 25	**2.83** 97
25	**0.87** 22	**0.26** 6.6	**0.20** 5	**1.97** 50	**1.57** 40	**0.79** 20	**3.94** 100	**2.13** 54	**0.67** 17	**1.89** 48	**1.57** 40	**1.18** 30	**0.98** 25	**4.13** 105

Bore Ø	J	K	L	M	N	O	R_1	R_2	R_3	R_4	S_1	S_2	T
10	**0.63** 16	**0.26** 6.5	**0.91** 23	**0.71** 18	**0.32** 8.1	**0.16** 4	**0.49** 12.5	**0.20** 5	**0.39** 10	**0.20** 5	**0.12** 3	**0.10** 2.5	**0.51** 13
12	**0.79** 20	**0.20** 5	**0.98** 25	**0.71** 18	**0.48** 12.1	**0.24** 6	**0.59** 15	**0.26** 6.5	**0.47** 12	**0.28** 7	**0.16** 4	**0.12** 3	**0.71** 18
16	**0.79** 20	**0.20** 5	**0.98** 25	**0.71** 18	**0.48** 12.1	**0.24** 6	**0.59** 15	**0.26** 6.5	**0.47** 12	**0.28** 7	**0.16** 4	**0.12** 3	**0.71** 18
20	**0.98** 25	**0.24** 6	**1.26** 32	**0.87** 22	**0.63** 16.1	**0.31** 8	**0.79** 20	**0.31** 8	**0.79** 20	**0.39** 10	**0.20** 5	**0.16** 4	**0.91** 19
25	**0.98** 25	**0.24** 6	**1.26** 32	**0.87** 22	**0.63** 16.1	**0.31** 8	**0.79** 20	**0.31** 8	**0.79** 20	**0.39** 10	**0.20** 5	**0.16** 4	**0.91** 23

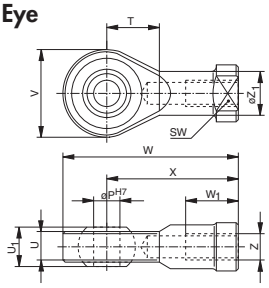
Proximity Sensors/Brackets: See Page 73

Rod Clevis



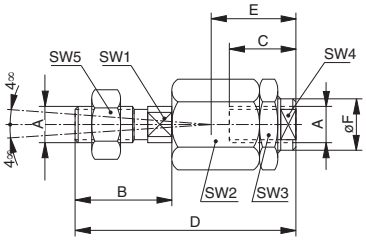
Order Instructions Order #	Bore Ø	ØP	T	U	V	W	X	Z	Weight (lbs.)(kg)
KZ 1413		**0.16**	**0.31**	**0.16**	**0.31**	**0.87**	**0.63**		**0.02**
	8,10	4	8	4	8	22	16	M4	0.008
KY 6132		**0.24**	**0.47**	**0.24**	**0.47**	**1.22**	**0.94**		**0.04**
	12,16	6	12	6	12	31	24	M6	0.016
KY 6133		**0.31**	**0.63**	**0.31**	**0.63**	**1.65**	**1.26**		**0.08**
	20	8	16	8	16	42	32	M8	0.038
KY 6135		**0.39**	**0.79**	**0.39**	**0.79**	**2.05**	**1.57**		**0.18**
	25	10	20	10	20	52	40	M10 x1.25	0.08

Rod Eye

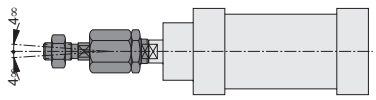


Order Instructions Order #	Bore Ø	ØpH7	T	U	U1	V	W	W1	X	Z	ØZ1	SW	Weight (lbs.)(kg)
KX 6023		**0.20**	**0.35**	**0.24**	**0.31**	**0.63**	**1.38**	**0.47**	**1.06**		**0.35**	**0.31**	**0.05**
	8,10	5	9	6	8	16	35	12	27	M4	9	8	0.021
KY 6144		**0.24**	**0.43**	**0.27**	**0.35**	**0.79**	**1.57**	**0.47**	**1.18**		**0.39**	**0.43**	**0.06**
	12,16	6	11	6.75	9	20	40	12	30	M6	10	11	0.025
KY 6145		**0.31**	**0.51**	**0.35**	**0.47**	**0.94**	**1.89**	**0.63**	**1.42**		**0.49**	**0.55**	**0.09**
	20	8	13	9	12	24	48	16	36	M8	12.5	14	0.043
KY 6147		**0.39**	**0.59**	**0.41**	**0.55**	**1.10**	**2.24**	**0.79**	**1.69**		**0.59**	**0.67**	**0.16**
	25	10	15	10.5	14	28	57	20	43	M10 x1.25	15	17	0.072

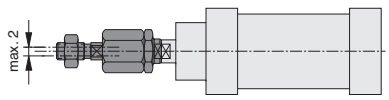
Rod Alignment Coupling



Angular Compensation



Radial Compensation for the Center Axis



Order Instructions Order #	Bore Ø	A	B	C	D	E	ØF	SW_1	SW_2	SW_3	SW_4	SW_5	Weight (lbs.) (kg)
KY 1152			**0.31**	**0.55**	**1.34**	**0.79**	**0.47**	**0.12**	**0.47**	**0.47**	**0.47**	**0.28**	**0.04**
	8,10	M4	8	14	34	20	12	3	12	12	12	7	0.018
KY 1126			**0.47**	**0.43**	**1.42**	**0.55**	**0.33**	**0.20**	**0.51**	**0.51**	**0.28**	**0.39**	**0.05**
	12,16	M6	12	11	36	14	8.5	5	13	13	7	10	0.021
KY 1127			**0.51**	**0.55**	**1.81**	**0.79**	**0.49**	**0.28**	**0.67**	**0.67**	**0.39**	**0.51**	**0.11**
	20	M8	13	14	46	20	12.5	7	17	17	10	13	0.049
KY 1129			**0.79**	**0.91**	**2.76**	**1.22**	**0.85**	**0.47**	**1.18**	**1.18**	**0.75**	**0.67**	**0.48**
	25	M10x1.25	20	23	70	31	21.5	12	30	30	19	17	0.218

Proximity Sensors/Brackets: See Page 73