

80mm bore.

Price

Part Number

G80M025MD-MC

G80M050MD-MC

G80M075MD-MC

G80M100MD-MC

G80M125MD-MC

G80M150MD-MC

G80M200MD-MC

G80M250MD-MC

G80M300MD-MC

G80M400MD-MC

G80M500MD-MC

G80M600MD-MC

G-Series ISO Pneumatic Cylinders – 80mm Bore

80mm Bore, Double-acting, Magnetic Piston, Cushions



Part no. G80M125MD-MC

double acting, tapped end caps

Stroke Length

(mm)

25

50

75

100

125

150

200

250

300

400

500

600

"**A**"

(mm [inch])

153 [6.02]

178 [7.01]

203 [7.99]

228 [8.98]

253 [9.96]

278 [10.94]

328 [12.91]

378 [14.88]

428 [16.85]

528 [20.79]

628 [24.72]

728 [28.66]

Weight

(IĎ)

6.9

7.4

7.9

8.4

8.9

9.4

10.4

11.4

12.4

14.4

16.4

18.4

NITRA pneumatic ISO 15552 interchangeable cylinder, 80mm bore, 25mm diameter piston rod, G3/8 (BSPP) female ports, double acting; flange, pivot and clevis mount options available. Adjustable cushions on both ends. See the end of the section for accessory details.

Features

- Adjustable cushions
- Internal magnet for sensor switching



- Three sides with longitudinal slots for inserting and securing retractable sensors such as type CPS9F and CPS9Q (see position switches at the end of the cylinder section for further details)
- G (BSPP) threaded ports

Specifica	ations		
Aluminum body and end caps	Plastoferrite magnet		
C45 chromed piston rod	NBR (Nitrile Butadiene Rubber) buffer + static o-rings		
Die cast aluminum head	NBR (Nitrile Butadiene Rubber) cushioning gasket		
NBR (Nitrile Butadiene Rubber) piston and piston rod gasket	Brass cushioning needle with needle out movement safety system		
Steel guide bushing with bronze and PTFE (Teflon) insert	Pressure rating 145 psi [10 bar], AIR ONLY		
Drawn anodized aluminum body	Temperature rating 14°F to 176°F [-10°C		
Aluminum piston with PTFE (Teflon) pad	to 80°C]		
Extend force at 100 psi = 779.1 lb.	Retract force at 100 psi = 703.0 lb.		

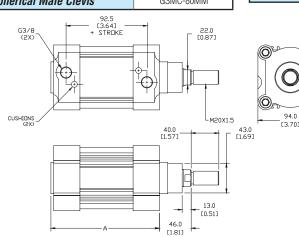
BSPP = British Standard Pipe Parallel

* The cushions decelerate the piston rod over the last mm (approx.) of stroke and are adjustable. Cushioned cylinders have an adjustable orifice and pre-lubricated nitrile cushion seal.

Mounting Accessories						
Style	Part No.					
Foot Mount	GMB-80MM					
Front or Rear Flange	GFL-80MM					
Male Rear Clevis	GMC-80MM					
Spherical Male Clevis	GSMC-80MM					

Dimensions

mm [inches]



 Rod Accessories

 Style
 Part No.

 Rod Clevis
 GRC-M20-15

 Rod Eye
 GRE-M20-15

 Self Aligning Rod Coupler
 GRCP-M20-15

 Rod Nut
 GN-M20-15



94.0 [3.70]

See our website _______ for complete Engineering drawings.



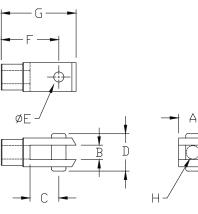
	D-Series Heavy Duty Pneumatic Cylinder Accessories			
Part	Description	Pcs/Pkg	Wt (lb)	Price
Number	•			11100
GRC-M10-125	Rod clevis, M10 X 1.25 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.2	
GRC-M12-125	Rod clevis, M12 X 1.25 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.3	
GRC-M16-15	Rod clevis, M16 X 1.5 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.8	
GRC-M20-15	Rod clevis, M20 X 1.5 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	1.5	
GRE-M10-125	Rod eye, M10 X 1.25 thread, spherical bearing, zinc plated steel. For use with NITRA G-series cylinders.	1	0.2	
GRE-M12-125	Rod eye, M12 X 1.25 thread, spherical bearing, zinc plated steel. For use with NITRA G-series cylinders.	1	0.3	
GRE-M16-15	Rod eye, M16 X 1.5 thread, spherical bearing, zinc plated steel. For use with NITRA G-series cylinders.	1	0.5	
GRE-M20-15	Rod eye, M20 X 1.5 thread, spherical bearing, zinc plated steel. For use with NITRA G-series cylinders.	1	0.9	
GRCP-M10-125	Self-aligning rod coupler, M10 X 1.25 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.5	
GRCP-M12-125	Self-aligning rod coupler, M12 X 1.25 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.7	
GRCP-M16-15	Self-aligning rod coupler, M16 X 1.5 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	1.4	
GRCP-M20-15	Self-aligning rod coupler, M20 X 1.5 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	1.5	
GMB-32MM	Foot mount bracket, zinc plated steel. For use with 32mm bore NITRA G-series cylinders.	1	0.2	
GMB-40MM	Foot mount bracket, zinc plated steel. For use with 40mm bore NITRA G-series cylinders.	1	0.3	
GMB-50MM	Foot mount bracket, zinc plated steel. For use with 50mm bore NITRA G-series cylinders.	1	0.4	
GMB-63MM	Foot mount bracket, zinc plated steel. For use with 63mm bore NITRA G-series cylinders.	1	0.6	
GMB-80MM	Foot mount bracket, zinc plated steel. For use with 80mm bore NITRA G-series cylinders.	1	1.0	
GMB-100MM	Foot mount bracket, zinc plated steel. For use with 100mm bore NITRA G-series cylinders.	1	1.3	
GMC-32MM	Rear pivot eye, zinc plated steel. For use with 32mm bore NITRA G-series cylinders.	1	0.2	
GMC-40MM	Rear pivot eye, zinc plated steel. For use with 40mm bore NITRA G-series cylinders.	1	0.3	
GMC-50MM	Rear pivot eye, zinc plated steel. For use with 50mm bore NITRA G-series cylinders.	1	0.6	
<i>GMC-63MM</i>	Rear pivot eye, zinc plated steel. For use with 63mm bore NITRA G-series cylinders.	1	0.9	
GMC-80MM	Rear pivot eye, zinc plated steel. For use with 80mm bore NITRA G-series cylinders.	1	1.5	
GMC-100MM	Rear pivot eye, zinc plated steel. For use with 100mm bore NITRA G-series cylinders.	1	2.4	
GSMC-32MM	Rear spherical pivot, spherical bearing, zinc plated steel. For use with 32mm bore NITRA G-series cylinders.	1	0.3	
GSMC-40MM	Rear spherical pivot, spherical bearing, zinc plated steel. For use with 40mm bore NITRA G-series cylinders.	1	0.4	
GSMC-50MM	Rear spherical pivot, spherical bearing, zinc plated steel. For use with 50mm bore NITRA G-series cylinders.	1	0.5	
GSMC-63MM	Rear spherical pivot, spherical bearing, zinc plated steel. For use with 63mm bore NITRA G-series cylinders.	1	0.7	
GSMC-80MM	Rear spherical pivot, spherical bearing, zinc plated steel. For use with 80mm bore NITRA G-series cylinders.	1	1.3	
GSMC-100MM	Rear spherical pivot, spherical bearing, zinc plated steel. For use with 100mm bore NITRA G-series cylinders.	1	1.9	
GFL-32MM	Flange mount plate, zinc plated steel. For use with 32mm bore NITRA G-series cylinders.	1	0.5	
GFL-40MM	Flange mount plate, zinc plated steel. For use with 40mm bore NITRA G-series cylinders.	1	0.6	
GFL-50MM	Flange mount plate, zinc plated steel. For use with 50mm bore NITRA G-series cylinders.	1	1.2	
GFL-63MM	Flange mount plate, zinc plated steel. For use with 63mm bore NITRA G-series cylinders.	1	1.5	
GFL-80MM	Flange mount plate, zinc plated steel. For use with 80mm bore NITRA G-series cylinders.	1	3.1	
GFL-100MM	Flange mount plate, zinc plated steel. For use with 100mm bore NITRA G-series cylinders.	1	4.5	
GN-M10-125	Rod nut, M10 X 1.25 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.2	
GN-M12-125	Rod nut, M12 X 1.25 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.2	
GN-M16-15	Rod nut, M16 X 1.5 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.2	
GN-M20-15	Rod nut, M20 X 1.5 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.2	



Rod Clevis



Part no. GRC-M10-125





Note: Comes with Pivot Pin installed.

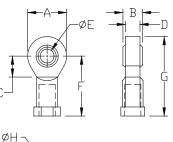
	Rod Clevis Dimension Table							
Part #	А	В	С	D	Ε	F	G	H
GRC-M10-125	20.00 [0.78]	10.00 [0.39]	10.00 [0.39]	26.00 [1.02]	10.00 [0.39]	40.00 [1.57]	52.00 [2.04]	M10x1.25
GRC-M12-125	24.00 [0.94]	12.00 [0.47]	24.00 [0.94]	32.00 [1.25]	12.00 [0.47]	48.00 [1.88]	62.00 [2.44]	M12x1.25
GRC-M16-15	32.00 [1.25]	16.00 [0.62]	32.00 [1.25]	40.00 [1.57]	16.00 [0.62]	64.00 [2.51]	83.00 [3.26]	M16x1.5
GRC-M20-15	40.00 [1.57]	20.00 [0.78]	40.00 [1.57]	48.00 [1.88]	20.00 [0.78]	80.00 [3.14]	105.00 [4.13]	M20x1.5

Rod Eye



Dimensions mm [inches]







	Rod Eye Dimension Table								
Part #	A	В	C	D	Ε	F	G	Н	1
GRE-M10-125	28.00 [1.10]	14.00 [0.55]	15.00 [0.59]	10.50 [0.41]	10.00 [0.39]	43.00 [1.69]	57.00 [2.24]	M10x1.25	19 [0.74]
GRE-M12-125	32.00 [1.25]	16.00 [0.62]	17.00 [0.66]	12.00 [0.47]	12.00 [0.47]	50.00 [1.96]	66.00 [2.59]	M12x1.25	19 [0.74]
GRE-M16-15	42.00 [1.65]	21.00 [0.82]	22.00 [0.86]	15.00 [0.59]	16.00 [0.62]	64.00 [2.51]	85.00 [3.34]	M16x1.5	22 [0.86]
GRE-M20-15	50.00 [1.96]	25.00 [0.98]	26.00 [1.02]	18.00 [0.70]	20.00 [0.78]	77.00 [3.03]	102.00 [4.01]	M20x1.5	27 [1.06]

See our website <u>for complete Engineering d</u>rawings.

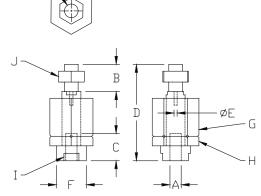


Self Aligning Rod Coupler



Part no. GRCP-M10-125

Dimensions mm [inches]



	Self Aligning Rod Coupler Dimension Table									
Part #	A	В	C	D	Ε	F	G	Н	1	J
GRCP-M10-125	M10x1.25	20.00 [0.78]	20.00 [0.78]	71.00 [2.79]	4.00 [0.15]	22.00 [0.86]	30.00 [1.18]	30.00 [1.18]	19.00 [0.74]	17.00 [0.66]
GRCP-M12-125	M12x1.25	24.00 [0.94]	20.00 [0.78]	75.00 [2.95]	4.00 [0.15]	22.00 [0.86]	30.00 [1.18]	30.00 [1.18]	19.00 [0.74]	19.00 [0.74]
GRCP-M16-15	M16x1.5	32.00 [1.25]	32.00 [1.25]	103.00 [4.05]	4.00 [0.15]	32.00 [1.25]	41.00 [1.61]	41.00 [1.61]	30.00 [1.18]	24.00 [0.94]
GRCP-M20-15	M20x1.5	40.00 [1.57]	40.00 [1.57]	119.00 [4.68]	4.00 [0.15]	32.00 [1.25]	41.00 [1.61]	41.00 [1.61]	30.00 [1.18]	30.00 [1.18]

А

Foot Mount Bracket

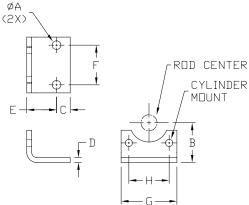


mm [inches]

Dimensions

Part no. GMB-32MM





Note: Individually packed with 2 screws

						_			
	Foot Mount Dimension Table								
Part #	А	В	C	D	Ε	F	G	Н	
GMB-32MM	7.00	32.00	11.00	4.00	24.00	32.00	45.00	32.5	
	[0.27]	[1.25]	[0.43]	[0.15]	[0.94]	[1.25]	[1.77]	[1.28]	
GMB-40MM	9.00	36.00	15.00	4.00	28.00	36.00	52.00	38.0	
	[0.35]	[1.41]	[0.59]	[0.15]	[1.10]	[1.41]	[2.04]	[1.50]	
GMB-50MM	9.00	45.00	15.00	4.00	32.00	45.00	52.00	46.5	
	[0.35]	[1.77]	[0.59]	[0.15]	[1.25]	[1.77]	[2.04]	[1.83]	
GMB-63MM	9.00	50.00	15.00	6.00	32.00	50.00	75.00	56.5	
	[0.35]	[1.96]	[0.59]	[0.23]	[1.25]	[1.96]	[2.95]	[2.22]	
GMB-80MM	12.00	63.00	20.00	6.00	41.00	63.00	95.00	63.0	
	[0.47]	[2.48]	[0.78]	[0.23]	[1.61]	[2.48]	[3.74]	[2.48]	
GMB-100MM	14.00	71.00	25.00	6.00	41.00	75.00	115.00	89.0	
	[0.55]	[2.79]	[0.98]	[0.23]	[1.61]	[2.95]	[4.52]	[3.50]	

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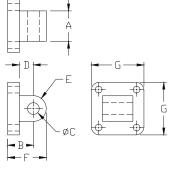


Rear Pivot Eye



Dimensions

mm [inches]



Part no. GMC-32MM

Note: Supplied with 4 screws, 4 washers

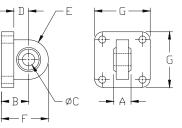
	Male Rear Clevis Dimension Table							
Part #	А	В	C	D	Ε	F	G	
<i>GMC-32MM</i>	26.00	22.00	10.00	12.00	11.00	33.00	45.00	
	[1.02]	[0.86]	[0.39]	[0.47]	[0.43]	[1.29]	[1.77]	
GMC-40MM	28.00	25.00	12.00	15.00	13.00	38.00	52.00	
	[1.10]	[0.98]	[0.47]	[0.59]	[0.51]	[1.49]	[2.04]	
GMC-50MM	32.00	27.00	12.00	15.00	13.00	40.00	65.00	
	[1.25]	[1.06]	[0.47]	[0.59]	[0.51]	[1.57]	[2.55]	
<i>GMC-63MM</i>	40.00	32.00	16.00	20.00	17.00	49.00	75.00	
	[1.57]	[1.25]	[0.62]	[0.78]	[0.66]	[1.92]	[2.95]	
GMC-80MM	50.00	36.00	16.00	20.00	17.00	53.00	95.00	
	[1.96]	[1.41]	[0.62]	[0.78]	[0.66]	[2.08]	[3.74]	
GMC-100MM	60.00	41.00	20.00	25.00	21.00	62.00	115.00	
	[2.36]	[1.61]	[0.78]	[0.98]	[0.82]	[2.44]	[4.52]	

Spherical Rear Pivot



Dimensions

mm [inches]



Part no. GSMC-32MM



Note: Supplied with 4 screws, 4 washers

	Spherical Male Clevis Dimension Table								
Part #	A	В	C	D	Ε	F	G		
GSMC-32MM	14.00	22.00	10.00	12.00	16.00	38.00	45.00		
	[0.55]	[0.86]	[0.39]	[0.47]	[0.62]	[1.49]	[1.77]		
GSMC-40MM	16.00	25.00	12.00	15.00	19.00	44.00	52.00		
	[0.62]	[0.98]	[0.47]	[0.59]	[0.74]	[1.73]	[2.04]		
GSMC-50MM	16.00	27.00	12.00	15.00	19.00	46.00	65.00		
	[0.62]	[1.06]	[0.47]	[0.59]	[0.74]	[1.81]	[2.55]		
GSMC-63MM	21.00	32.00	16.00	20.00	24.00	56.00	75.00		
	[0.82]	[1.25]	[0.62]	[0.78]	[0.94]	[2.20]	[2.95]		
GSMC-80MM	21.00	36.00	16.00	20.00	24.00	60.00	95.00		
	[0.82]	[1.41]	[0.62]	[0.78]	[0.94]	[2.36]	[3.74]		
GSMC-100MM	25.00	41.00	20.00	25.00	30.00	71.00	115.00		
	[0.98]	[1.61]	[0.78]	[0.98]	[1.18]	[2.79]	[4.52]		

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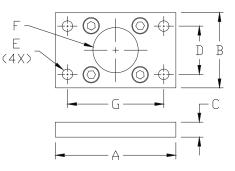


Front or Rear Flange



Dimensions

mm [inches]



Part no. GFL-32MM



Note: Supplied with 4 screws

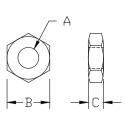
	Front or Rear Flange Dimension Table							
Part #	А	В	С	D	Ε	F	G	
GFL-32MM	80.00	50.00	10.00	32.00	7.00	32.00	64.00	
	[3.14]	[1.96]	[0.39]	[1.25]	[1.25]	[1.25]	[2.52]	
GFL-40MM	90.00	55.00	10.00	36.00	9.00	40.00	72.00	
	[3.54]	[2.16]	[0.39]	[1.41]	[0.35]	[1.57]	[2.83]	
GFL-50MM	110.00	65.00	12.00	45.00	9.00	50.00	90.00	
	[4.33]	[2.55]	[0.47]	[1.77]	[0.35]	[1.96]	[3.54]	
GFL-63MM	120.00	75.00	12.00	50.00	9.00	63.00	100.00	
	[4.72]	[2.95]	[0.47]	[1.96]	[0.35]	[2.48]	[3.93]	
GFL-80MM	153.00	95.00	16.00	63.00	12.00	80.00	126.00	
	[6.02]	[3.74]	[0.62]	[2.48]	[0.47]	[3.14]	[4.96]	
GFL-100MM	178.00	115.00	16.00	75.00	14.00	100.00	150.00	
	[7.00]	[4.52]	[0.62]	[2.95]	[0.55]	[3.93]	[5.90]	

Rod Nut



Dimensions

mm [inches]



Rod	Rod Nut Dimension Table							
Part #	A	В	С					
GN-M10-125	M10x1.25	17.00 [0.66]	6.00 [0.23]					
GN-M12-125	M12x1.25	19.00 [0.74]	7.00 [0.27]					
GN-M16-15	M16x1.5	24.00 [0.94]	8.00 [0.31]					
GN-M20-15	M20x1.5	30.00 [1.18]	9.00 [0.35]					



		Position Switch Cr	ross Reference Chart
NITRA Switch Type	Cylinder Brand (may fit some of these cylinders)	Photo Example	Groove Illustration
CPS CPSF	NITRA A-Series, D-Series, F-Series		Round Cylinder (CPSB or CPSS Series)
CPS9C	DE-STA-CO Robohand SMC Compact Air		2.53 Min. +/- 0.1 R 2.13 +/- 0.05
CPS9D	Fabco Numatics Rotomation		
CPS9F	NITRA G-Series Fabco Festo Numatics Rotomation		
СРЅ9Н	NITRA E-Series NITRA H-Series		
CPS9M	Norgren		5.1 +/-0.1 5.1 +/-0.1 5.1 +/-0.1
CPS9Q	NITRA G-Series Parker		
CPS9T	SMC		