

G-Series ISO 15552 Pneumatic Cylinders – 50mm Bore

50mm Bore, Double-acting, Magnetic Piston, Cushions



NITRA pneumatic ISO 15552 interchangeable cylinder, 50mm bore, 20mm diameter piston rod, G1/4 (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

50mm bore,	double	acting, tap	oped end	caps
Part Number	Price	Stroke Length (mm)	"A" (mm [inch])	Weight (lb)
G50M025MD-MC	\$92.00	25	131 [5.16]	2.8
G50M050MD-MC	\$97.00	50	156 [6.14]	3.2
G50M075MD-MC	\$99.00	75	181 [7.13]	3.5
<u>G50M100MD-MC</u>	\$101.00	100	206 [8.11]	3.8
G50M125MD-MC	\$104.00	125	231 [9.09]	4.1
G50M150MD-MC	\$106.00	150	256 [10.08]	4.5
G50M200MD-MC	\$111.00	200	306 [12.05]	5.1
G50M250MD-MC	\$116.00	250	356 [14.06]	5.8
G50M300MD-MC	\$124.00	300	406 [15.98]	6.4
<u>G50M400MD-MC</u>	\$135.00	400	506 [19.92]	7.7
G50M500MD-MC	\$147.00	500	606 [23.86]	9.0
G50M600MD-MC	\$158.00	600	706 [27.80]	10.3

Specifications							
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						
Self-lubricating technopolymer piston	[-10°C to 80°C]						
Extend force at 100 psi = 304.3 lb.	Retract force at 100 psi = 255.6 lb.						

BSPP = British Standard Pipe Parallel

12.0 [0.47]

37.0 [1.46]

* 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 ACCE	2201162	
Style	Part No.	
Foot Mount	GMB-50MM	
Front or Rear Flange	GFL-50MM	
Male Rear Clevis	<u>GMC-50MM</u>	
Spherical Male Clevis	GSMC-50MM	
G1/4 (2X) + STRDKE		
	^{32.0} [1.26]	5 38.0 [1.50]

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Rod Accessories						
Style	Part No.					
Rod Clevis	<u>GRC-M16-15</u>					
Rod Eye	<u>GRE-M16-15</u>					
Self Aligning Rod Coupler	<u>GRCP-M16-15</u>					
Rod Nut	<u>GN-M16-15</u>					



See our website <u>www.AutomationDirect.com</u> for complete Engineering drawings.

Dimensions

mm [inches]



G-Series ISO 15552 Pneumatic Cylinders – Accessories

	G-Series Heavy Duty Pneumatic Cylinder Acces	sories			
Part Number	Description	Pcs/Pkg	Wt (lb)	Drawing Link	Price
<u>GRC-M10-125</u>	Rod clevis, M10 X 1.25 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.2	PDF	\$4.50
<u>GRC-M12-125</u>	Rod clevis, M12 X 1.25 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.3	<u>PDF</u>	\$7.50
<u>GRC-M16-15</u>	Rod clevis, M16 X 1.5 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.8	<u>PDF</u>	\$16.00
<u>GRC-M20-15</u>	Rod clevis, M20 X 1.5 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	1.5	PDF	\$26.00
<u>GRE-M10-125</u>	Rod eye, M10 X 1.25 thread, spherical bearing, zinc plated steel. For use with NITRA G-series cylinders.	1	0.2	<u>PDF</u>	\$25.00
<u>GRE-M12-125</u>	Rod eye, M12 X 1.25 thread, spherical bearing, zinc plated steel. For use with NITRA G-series cylinders.	1	0.3	<u>PDF</u>	\$28.50
<u>GRE-M16-15</u>	Rod eye, M16 X 1.5 thread, spherical bearing, zinc plated steel. For use with NITRA G-series cylinders.	1	0.5	PDF	\$53.00
<u>GRE-M20-15</u>	Rod eye, M20 X 1.5 thread, spherical bearing, zinc plated steel. For use with NITRA G-series cylinders.	1	0.9	PDF	\$71.00
<u>GRCP-M10-125</u>	Self-aligning rod coupler, M10 X 1.25 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.5	PDF	\$57.00
<u>GRCP-M12-125</u>	Self-aligning rod coupler, M12 X 1.25 thread, zinc plated steel. For use with NITRA G-series	1	0.7	PDF	\$60.00
<u>GRCP-M16-15</u>	cylinders. Self-aligning rod coupler, M16 X 1.5 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	1.4	PDF	\$78.00
<u>GRCP-M20-15</u>	Cylinders. Self-aligning rod coupler, M20 X 1.5 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	1.5	PDF	\$96.00
GMB-32MM	Foot mount bracket, zinc plated steel. For use with 32mm bore NITRA G-series cylinders.	1	0.2	PDF	\$7.00
GMB-40MM	Foot mount bracket, zinc plated steel. For use with 40mm bore NITRA G-series cylinders.	1	0.3	PDF	\$8.25
GMB-50MM	Foot mount bracket, zinc plated steel. For use with 50mm bore NITRA G-series cylinders.	1	0.4	PDF	\$9.50
GMB-63MM	Foot mount bracket, zinc plated steel. For use with 63mm bore NITRA G-series cylinders.	1	0.6	PDF	\$10.50
GMB-80MM	Foot mount bracket, zinc plated steel. For use with 80mm bore NITRA G-series cylinders.	1	1.0	PDF	\$15.00
GMB-100MM	Foot mount bracket, zinc plated steel. For use with 100mm bore NITRA G-series cylinders.	1	1.3	PDF	\$24.00
GMC-32MM	Rear pivot eye, zinc plated steel. For use with 32mm bore NITRA G-series cylinders.	1	0.2	PDF	\$18.00
GMC-40MM	Rear pivot eye, zinc plated steel. For use with 40mm bore NITRA G-series cylinders.	1	0.3	PDF	\$19.00
GMC-50MM	Rear pivot eye, zinc plated steel. For use with 50mm bore NITRA G-series cylinders.	1	0.6	PDF	\$22.00
GMC-63MM	Rear pivot eye, zinc plated steel. For use with 63mm bore NITRA G-series cylinders.	1	0.9	PDF	\$26.00
GMC-80MM	Rear pivot eye, zinc plated steel. For use with 80mm bore NITRA G-series cylinders.	1	1.5	PDF	\$32.00
<u>GMC-100MM</u>	Rear pivot eye, zinc plated steel. For use with 100mm bore NITRA G-series cylinders.	1	2.4	PDF	\$44.50
GSMC-32MM	Rear spherical pivot, spherical bearing, zinc plated steel. For use with 32mm bore NITRA G-series cylinders.	1	0.3	PDF	\$25.00
GSMC-40MM	Rear spherical pivot, spherical bearing, zinc plated steel. For use with 40mm bore NITRA G-series cylinders.	1	0.4	PDF	\$27.00
GSMC-50MM	Rear spherical pivot, spherical bearing, zinc plated steel. For use with 50mm bore NITRA G-series cylinders.	1	0.5	PDF	\$39.00
GSMC-63MM	Rear spherical pivot, spherical bearing, zinc plated steel. For use with 63mm bore NITRA G-series cylinders.	1	0.7	PDF	\$50.00
GSMC-80MM	Rear spherical pivot, spherical bearing, zinc plated steel. For use with 80mm bore NITRA G-series cylinders.	1	1.3	PDF	\$62.00
GSMC-100MM	G-series cylinders. Rear spherical pivot, spherical bearing, zinc plated steel. For use with 100mm bore NITRA G-series cylinders.	1	1.9	PDF	\$84.00
GFL-32MM	Flange mount plate, zinc plated steel. For use with 32mm bore NITRA G-series cylinders.	1	0.5	PDF	\$12.00
GFL-40MM	Flange mount plate, zinc plated steel. For use with 40mm bore NITRA G-series cylinders.	1	0.6	PDF	\$13.00
GFL-50MM	Flange mount plate, zinc plated steel. For use with 50mm bore NITRA G-series cylinders.	1	1.2	PDF	\$16.00
<u>GFL-63MM</u>	Flange mount plate, zinc plated steel. For use with 63mm bore NITRA G-series cylinders.	1	1.5	PDF	\$23.00
GFL-80MM	Flange mount plate, zinc plated steel. For use with 80mm bore NITRA G-series cylinders.	1	3.1	PDF	\$26.00
GFL-100MM	Flange mount plate, zinc plated steel. For use with 100mm bore NITRA G-series cylinders.	1	4.5	PDF	\$31.00
GN-M10-125	Rod nut, M10 X 1.25 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.2	PDF	\$1.50
GN-M12-125	Rod nut, M12 X 1.25 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.2	PDF	\$1.75
<u>GN-M16-15</u>	Rod nut, M16 X 1.5 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.2	PDF	\$2.00
GN-M20-15	Rod nut, M20 X 1.5 thread, zinc plated steel. For use with NITRA G-series cylinders.	1	0.2	PDF	\$2.25

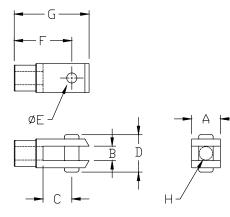


G-Series ISO Pneumatic Cylinders – Accessories

Rod Clevis



Part no. GRC-M10-125





Note: Comes with Pivot Pin installed.

Rod Clevis Dimension Table								
Part #	A	В	C	D	Ε	F	G	H
<u>GRC-M10-125</u>	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
<u>GRC-M12-125</u>	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
<u>GRC-M16-15</u>	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
<u>GRC-M20-15</u>	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

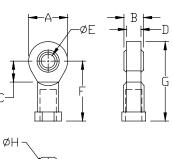
Rod Eye

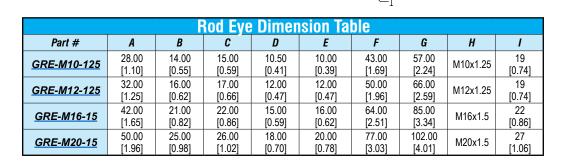


Dimensions

mm [inches]

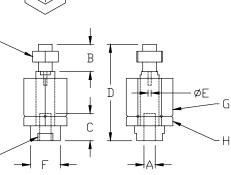








Part no. GRCP-M10-125



Self Aligning Rod Coupler Dimension Table										
Part #	A	В	C	D	Ε	F	G	H	Ι	J
<u>GRCP-M10-125</u>	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]
<u>GRCP-M12-125</u>	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]
<u>GRCP-M16-15</u>	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]
<u>GRCP-M20-15</u>	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]

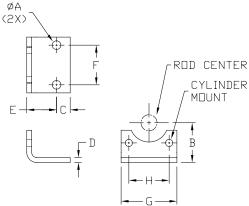
Foot Mount Bracket



mm [inches]

Dimensions





Note: Individually packed with 2 screws

						_					
	Foot Mount Dimension Table										
Part #	A	В	C	D	Ε	F	G	H			
<u>GMB-32MM</u>	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]			
<u>GMB-40MM</u>	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]			
<u>GMB-50MM</u>	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]			
<u>GMB-63MM</u>	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]			
<u>GMB-80MM</u>	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]			
<u>GMB-100MM</u>	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]			



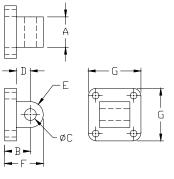
G-Series ISO Pneumatic Cylinders – Accessories

Rear Pivot Eye



Dimensions

mm [inches]



Part no. <u>GMC-32MM</u>



Note: Supplied with 4 screws, 4 washers

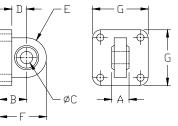
		lale Rear	Clevis Di	mension	Table		
Part #	A	В	C	D	Ε	F	G
<u>GMC-32MM</u>	26.00	22.00	10.00	12.00	11.00	33.00	45.00
	[1.02]	[0.86]	[0.39]	[0.47]	[0.43]	[1.29]	[1.77]
<u>GMC-40MM</u>	28.00	25.00	12.00	15.00	13.00	38.00	52.00
	[1.10]	[0.98]	[0.47]	[0.59]	[0.51]	[1.49]	[2.04]
GMC-50MM	32.00	27.00	12.00	15.00	13.00	40.00	65.00
	[1.25]	[1.06]	[0.47]	[0.59]	[0.51]	[1.57]	[2.55]
<u>GMC-63MM</u>	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]
<u>GMC-80MM</u>	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]
<u>GMC-100MM</u>	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. <u>GSMC-32MM</u>

Note: Supplied with 4 screws, 4 washers

	Spherical Male Clevis Dimension Table								
Part #	A	В	С	D	Ε	F	G		
<u>GSMC-32MM</u>	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]		
<u>GSMC-40MM</u>	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]		
<u>GSMC-50MM</u>	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]		
<u>GSMC-63MM</u>	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]		
<u>GSMC-80MM</u>	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]		



G-Series ISO Pneumatic Cylinders – Accessories

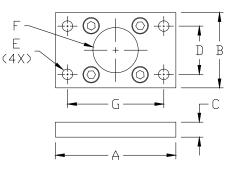
Front or Rear Flange



Part no. GFL-32MM

Dimensions

mm [inches]



Note: Supplied with 4 screws

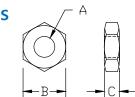
	Fron	t or Rear	Flange	Dimensio	on Table		
Part #	A	В	C	D	Ε	F	G
<u>GFL-32MM</u>	80.00	50.00	10.00	32.00	7.00	32.00	64.00
	[3.14]	[1.96]	[0.39]	[1.25]	[1.25]	[1.25]	[2.52]
<u>GFL-40MM</u>	90.00	55.00	10.00	36.00	9.00	40.00	72.00
	[3.54]	[2.16]	[0.39]	[1.41]	[0.35]	[1.57]	[2.83]
<u>GFL-50MM</u>	110.00	65.00	12.00	45.00	9.00	50.00	90.00
	[4.33]	[2.55]	[0.47]	[1.77]	[0.35]	[1.96]	[3.54]
<u>GFL-63MM</u>	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]
<u>GFL-80MM</u>	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]
<u>GFL-100MM</u>	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]

Part no. <u>GN-M20-15</u>



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

1-800-633-0405



CPS Series Cylinder Position Switches

Position Switch Cross Reference Chart			
NITRA Switch Type	Cylinder Brand (may fit some of these cylinders)	Photo Example	Groove Illustration
CPS CPSF	NITRA A-Series NITRA D-Series NITRA F-Series		Round Cylinder (CPSA Series)
CPS9C	DE-STA-CO Robohand SMC Compact Air Bimba Fabco		2.53 Min. +/- 0.1 + R.2.13 +/- 0.05
CPS9D	NITRA L-Series Fabco Numatics Rotomation		
CPS9E	NITRA L-Series Fabco Numatics Rotomation		
CPS9F	NITRA G-Series Fabco Festo Numatics Rotomation		
СРЅ9Н	NITRA E-Series NITRA H-Series		
СРЅ9М	Norgren		5.1 +/-0.1 5.1 +/-0.1 5.1 +/-0.1
CPS9Q	NITRA L-Series NITRA G-Series Parker Fabco Festo Numatics Rotomation		