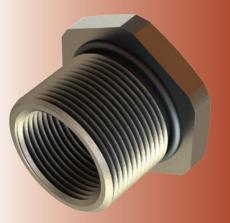
GRUS

Reducers for Ex d/e Applications

Technical Details						
Material Body	Brass, Brass Nickel Plated, Sto	ainless Steel 316L				
O-Ring	CR (Chloroprene), Silicone					
Ingress Protection Pating	IP 68 - 5 Bar, 30 min					
Ingress Protection Rating	IP 66					
o	O-ring Material					
Operating Temperature	CR (Chloroprene)	Silicone				
Ex d/e/tb	-40°C to +100°C	-60°C to +	130°C			
Equipment For	Gas & Dust potentially exp					
	Group II Gas Group IIC ZONE1/ZONE2					
Suitable for use in		Dust Group IIIC ZONE21/ZONE 22				
	Ex II 2GD		101121/20112 22			
Equipment Marking	Ex db IIC Gb Ex eb IIC Gb Ex					
Marking Example *	BMD B-RA CE 0722 🐼 II 20	GD Ex db IIC Gb Ex eb	IIC Gb Ex th IIIC Db			
	Ta-40°C to +100°C IP66/68 C					
	Metric (M) ISO Pitch 1,5		LA GLU 10.0022A			
	 Npt (N) ANSI ASME B1.20.1 					
Thread Type						
	• PG (P) DIN 40430					
. .	(G) GAS UNI ISO 228/1					
Accessories	Gaskets (Washers)					
Remarks	Accessories must be ordered separately.					
<u> </u>	O-ring available in Metric.					
Approvals	Certificate Number	Standards				
		EN 60079-0	EN 60079-0			
		EN 60079-1				
	CESI 13 ATEX 066X		EN 60079-7			
			EN 60079-31			
		LIN 0007 7-31	EIN 000/7-31			
IECE.		IEC 60079-0	IEC 60079-0			
IECEX	IECEX CES 13.0022X	IEC 60079-1				
	ILCEX CES 15.0022X	IEC 60079-3	IEC 60079-3 IEC 60079-7			
		IEC 60079-7				
		FOCT 31610.0				
	Nº TC RU C-TR.AA87.B.00941	FOCT IEC 6007	9-1			
		FOCT IEC 6007	9-31:			
			ABNT NBR IEC 60079-0			
	DNV 17.0055 X		ABNT NBR IEC 60079-1			
	DIV 17.0033 A	ABNT NBR IEC &	60079-7			
INMETRO		ABNT NBR IEC &	60079-31			
		IEC/EN60079-0	, IEC/EN60079-7,			
	TAE00003WU IEC/EN60079-31, IEC/EN60079-1					
DNV.GL						





Other sizes available upon request. For more information see our webpage.
 * The standard marking consists ATEX & IECEx only. Marking acc. to other standards on request.

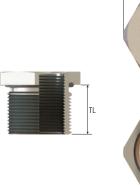
Order Coding							
Part Number	Material	Seal		Gasket (Washer)			
	Mandatory	Mandatory		Option			
See table	B Brass BN Brass Nickel plated X Stainless steel 316L	C Chloroprene S Silicone	-	WC Chloroprene WS Silicone WF Fiber			
Example							
B-RA2M01M	BN	С	-	WS			







sw



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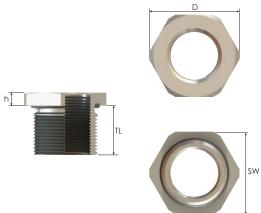
GRUS Reducers for Ex d/e Applications

Outer Thread Size (Male)	Inner Thread Size (Female)	Outer Thread Length	Spanner Width	Outer Ø	Height h	Part Number
		TL mm	sw	D mm		
M20x1,5	M16x1,5	15,0	25	27,5	4,0	B-RA1M01M
	M16x1,5	15,0	30	33,0	4,0	B-RA2M01M
M25x1,5	M20x1,5	15,0	30	33,0	4,0	B-RA2M1M
	M16x1,5	15,0	36	39,5	4,0	B-RA3M01M
M32x1,5	M20x1,5	15,0	36	39,5	4,0	B-RA3M1M
	M25x1,5	15,0	36	39,5	4,0	B-RA3M2M
	M16x1,5	18,0	45	50,0	4,0	B-RA4M01M
M40×1 E	M20x1,5	18,0	45	50,0	4,0	B-RA4M1M
M40x1,5	M25x1,5	18,0	45	50,0	4,0	B-RA4M2M
	M32x1,5	18,0	45	50,0	4,0	B-RA4M3M
	M16x1,5	18,0	55	61,0	5,0	B-RA5M01M
	M20x1,5	18,0	55	61,0	5,0	B-RA5M1M
M50x1,5	M25x1,5	18,0	55	61,0	5,0	B-RA5M2M
	M32x1,5	18,0	55	61,0	5,0	B-RA5M3M
	M40x1,5	18,0	55	61,0	5,0	B-RA5M4M
	M20x1,5	18,0	70	77,0	5,0	B-RA60M1M
M60x1,5	M25x1,5	18,0	70	77,0	5,0	B-RA60M2M
	M32x1,5	18,0	70 70	77,0	5,0	B-RA60M3M
	M40x1,5	18,0	70	77,0	5,0	B-RA60M4M
	M50x1,5	18,0 18,0	70	77,0 77,0	5,0	B-RA60M5M
	M20x1,5	18,0	70		5,0 5,0	B-RA6M1M
M63x1,5	M25x1,5 M32x1,5	18,0	70	77,0 77,0	5,0	B-RA6M2M B-RA6M3M
100321,5	M32x1,5 M40x1,5	18,0	70	77,0	5,0	B-RA6M4M
	M40X1,5 M50x1,5	18,0	70	77,0	5,0	B-RA6M5M
	M25x1,5	18,0	80	89,0	6,0	B-RA70M2M
	M32x1,5	18,0	80	89,0	6,0	B-RA70M3M
M70x1,5	M40x1,5	18,0	80	89,0	6,0	B-RA70M4M
	M50x1,5	18,0	80	89,0	6,0	B-RA70M5M
	M60x1,5	18,0	80	89,0	6,0	B-RA70M60M
	M32x1,5	18,0	85	94,0	6,0	B-RA7M3M
	M40x1,5	18,0	85	94,0	6,0	B-RA7M4M
M75x1,5	M50x1,5	18,0	85	94,0	6,0	B-RA7M5M
	M60x1,5	18,0	85	94,0	6,0	B-RA7M60M
	M63x1,5	18,0	85	94,0	6,0	B-RA7M6M
	M40x1,5	18,0	90	100,0	6,0	B-RA80M4M
	M50x1,5	18,0	90	100,0	6,0	B-RA80M5M
M80x1,5	M60x1,5	18,0	90	100,0	6,0	B-RA80M60M
	M63x1,5	18,0	90	100,0	6,0	B-RA80M6M
	M70x1,5	18,0	90	100,0	6,0	B-RA80M70M
	M50x1,5	21,0	95	105,0	8,0	B-RA85M5M
M051 5	M60x1,5	21,0	95	105,0	8,0	B-RA85M60M
M85x1,5	M63x1,5	21,0	95	105,0	8,0	B-RA85M6M
	M70x1,5	21,0	95	105,0	8,0	B-RA85M70M
	M75x1,5	21,0	95 100	105,0	8,0	B-RA85M7M
	M63x1,5	21,0 21,0	100	111,0	8,0 8,0	B-RA8M6M
M90x1,5	M70x1,5 M75x1,5	21,0	100	111,0 111,0	8,0	B-RA8M70M
	M75X1,5 M80x1,5	21,0	100	111,0	8,0	B-RA8M7M B-RA8M80M
	M80x1,5 M80x1,5	21,0	110	123,0	10,0	B-RA9M80M
M100x1,5	M85x1,5	21,0	110	123,0	10,0	B-RA9M85M
	M90x1,5	21,0	110	123,0	10,0	B-RA9M8M
	M90x1,5	21,0	120	133,5	10,0	B-RA10M8M
M110x1,5	M100x1,5	21,0	120	133,5	10,0	B-RA10M9M

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Hazardous Applications GRUS Gas & Dust Applications/ Metal Products/ Adaptors & Plugs





GRUS Reducers for Ex d/e Applications

Outer Thread	Inner Thread	Outer Thread	Spanner Width	Outer Ø	Height	Part Number
Size	Size (Female)	Length				
(Male)	(remale)	TL	sw	D	h	
		mm	mm	mm	mm	
M20x1,5	NPT 3/8"	15,0	25	27,5	4,0	B-RA1M01N
M25x1,5	NPT 3/8"	15,0	30	33,0	4,0	B-RA2M01N
///2521,5	NPT 1/2"	15,0	30	33,0	4,0	B-RA2M1N
	NPT 3/8"	15,0	36	39,5	4,0	B-RA3M01N
M32x1,5	NPT 1/2"	15,0	36	39,5	4,0	B-RA3M1N
	NPT 3/4"	15,0	36	39,5	4,0	B-RA3M2N
	NPT 3/8"	18,0	45	50,0	4,0	B-RA4M01N
M40x1,5	NPT 1/2"	18,0	45	50,0	4,0	B-RA4M1N
	NPT 3/4"	18,0	45	50,0	4,0	B-RA4M2N
	NPT 3/8"	18,0	55	61,0	5,0	B-RA5M01N
M50x1,5	NPT 1/2"	18,0	55	61,0	5,0	B-RA5M1N
	NPT 3/4"	18,0	55	61,0	5,0	B-RA5M2N
	NPT 3/8"	18,0	70	77,0	5,0	B-RA60M01N
M60x1,5	NPT 1/2"	18,0	70	77,0	5,0	B-RA60M1N
	NPT 3/4"	18,0	70	77,0	5,0	B-RA60M2N
	NPT 1"	18,0	70	77,0	5,0	B-RA60M3N
M63x1,5	NPT 3/8"	18,0	70	77,0	5,0	B-RA6M01N
	NPT 1/2"	18,0	70	77,0	5,0	B-RA6M1N
100/1,5	NPT 3/4"	18,0	70	77,0	5,0	B-RA6M2N
NF	NPT 1"	18,0	70	77,0	5,0	B-RA6M3N
	NPT 3/8"	18,0	80	89,0	6,0	B-RA70M01N
	NPT 1/2"	18,0	80	89,0	6,0	B-RA70M1N
M70x1,5	NPT 3/4"	18,0	80	89,0	6,0	B-RA70M2N
	NPT 1"	18,0	80	89,0	6,0	B-RA70M3N
	NPT 1 1/4"	18,0	80	89,0	6,0	B-RA70M4N
	NPT 1/2"	18,0	80	89,0	6,0	B-RA7M1N
	NPT 3/4"	18,0	85	94,0	6,0	B-RA7M2N
M75x1,5	NPT 1"	18,0	85	94,0	6,0	B-RA7M3N
	NPT 1 1/4"	18,0	85	94,0	6,0	B-RA7M4N
	NPT 1 1/2"	18,0	85	94,0	6,0	B-RA7M5N
	NPT 3/4"	18,0	90	100,0	6,0	B-RA80M2N
	NPT 1"	18,0	90	100,0	6,0	B-RA80M3N
M80x1,5	NPT 1 1/4"	18,0	90	100,0	6,0	B-RA80M4N
	NPT 1 1/2"	18,0	90	100,0	6,0	B-RA80M5N
	NPT 2"	18,0	90	100,0	6,0	B-RA80M6N
	NPT 1"	21,0	95	105,0	8,0	B-RA85M3N
	NPT 1 1/4"	21,0	95	105,0	8,0	B-RA85M4N
M85x1,5	NPT 1 1/2"	21,0	95	105,0	8,0	B-RA85M5N
	NPT 2"	21,0	95	105,0	8,0	B-RA85M6N
	NPT 2 1/2"	21,0	95	105,0	8,0	B-RA85M7N
	NPT 1 1/4"	21,0	100	111,0	8,0	B-RA8M4N
M90x1,5	NPT 1 1/2"	21,0	100	111,0	8,0	B-RA8M5N
	NPT 2"	21,0	100	111,0	8,0	B-RA8M6N
	NPT 2 1/2"	21,0	100	111,0	8,0	B-RA8M7N
	NPT 1 1/2"	21,0	110	123,0	10,0	B-RA9M5N
A100x1,5	NPT 2"	21,0	110	123,0	10,0	B-RA9M6N
	NPT 2 1/2"	21,0	110	123,0	10,0	B-RA9M7N
	NPT 3"	21,0	110	123,0	10,0	B-RA9M8N
A110x1,5	NPT 2"	21,0	120	133,5	10,0	B-RA10M6N
	NPT 2 1/2"	21,0	120	133,5	10,0	B-RA10M7N



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Hazardous Applications

GRUS Reducers for Ex d/e Applications

Outer Thread Size (Male)	Inner Thread Size (Female)	Outer Thread Length	Spanner Width	Outer Ø	Height	Part Number
		TL	SW	D	h	
		mm	mm	mm	mm	
NPT 1/2"	NPT 3/8"	15,0	25	27,5	4,0	B-RA1N01N
NPT 3/4"	NPT 3/8"	15,0	30	33	4,0	B-RA2N01N
111 3/4	NPT 1/2"	15,0	30	33	4,0	B-RA2N1N
	NPT 3/8"	15,0	36	39,5	4,0	B-RA3N01N
NPT 1"	NPT 1/2"	15,0	36	39,5	4,0	B-RA3N1N
	NPT 3/4"	15,0	36	39,5	4,0	B-RA3N2N
	NPT 1/2"	18,0	45	50	4,0	B-RA4N1N
NPT 1 1/4"	NPT 3/4"	18,0	45	50	4,0	B-RA4N2N
	NPT 1"	18,0	45	50	4,0	B-RA4N3N
	NPT 3/4"	18,0	55	61	5,0	B-RA5N2N
NPT 1 1/2"	NPT 1"	18,0	55	61	5,0	B-RA5N3N
	NPT 1 1/4"	18,0	55	61	5,0	B-RA5N4N
	NPT 3/4"	18,0	65	72	5,0	B-RA6N2N
NIDT O	NPT 1"	18,0	65	72	5,0	B-RA6N3N
NPT 2"	NPT 1 1/4"	18,0	65	72	5,0	B-RA6N4N
	NPT 1 1/2"	18,0	65	72	5,0	B-RA6N5N
	NPT 3/4"	28,0	75	83	6,0	B-RA7N2N
	NPT 1"	28,0	75	83	6,0	B-RA7N3N
NPT 2 1/2"	NPT 1 1/4"	28,0	75	83	6,0	B-RA7N4N
	NPT 1 1/2"	28,0	75	83	6,0	B-RA7N5N
	NPT 2"	28,0	75	83	6,0	B-RA7N6N
	NPT 1"	28,0	95	105	8,0	B-RA8N3N
	NPT 1 1/4"	28,0	95	105	8,0	B-RA8N4N
NPT 3"	NPT 1 1/2"	28,0	95	105	8,0	B-RA8N5N
	NPT 2"	28,0	95	105	8,0	B-RA8N6N
	NPT 2 1/2"	28,0	95	105	8,0	B-RA8N7N
	NPT 1 1/4"	28,0	110	123	10,0	B-RA9N4N
	NPT 1 1/2"	28,0	110	123	10,0	B-RA9N5N
NPT 3 1/2"	NPT 2"	28,0	110	123	10,0	B-RA9N6N
	NPT 2 1/2"	28,0	110	123	10,0	B-RA9N7N
	NPT 3"	28,0	110	123	10,0	B-RA9N8N
	NPT 1 1/2"	28,0	120	133,5	10,0	B-RA10N5N
	NPT 2"	28,0	120	133,5	10,0	B-RA10N6N
NPT 4"	NPT 2 1/2"	28,0	120	133,5	10,0	B-RA10N7N
	NPT 3"	28,0	120	133,5	10,0	B-RA10N8N

Outer Thread I Size (Male)	Inner Thread Size (Female)	Outer Thread Length	Spanner Width	Outer Ø D	Height	Part Number
		TL	SW		h	
		mm	mm	mm	mm	
NPT 1/2"	M16x1,5	15,0	25	27,5	4,0	B-RA1N01M
NDT 2 /4"	M16x1,5	15,0	30	33	4,0	B-RA2N01M
NPT 3/4"	M20x1,5	15,0	30	33	4,0	B-RA2N1M
	M16x1,5	15,0	36	39,5	4,0	B-RA3N01M
NPT 1"	M20x1,5	15,0	36	39,5	4,0	B-RA3N1M
	M25x1,5	15,0	36	39,5	4,0	B-RA3N2M
	M16x1,5	18,0	45	50	4,0	B-RA4N01M
	M20x1,5	18,0	45	50	4,0	B-RA4N1M
NPT 1 1/4"	M25x1,5	18,0	45	50	4,0	B-RA4N2M
	M32x1,5	18,0	45	50	4,0	B-RA4N3M
	M20x1,5	18,0	55	61	5,0	B-RA5N1M
NDT 1 1 (0)	M25x1,5	18,0	55	61	5,0	B-RA5N2M
NPT 1 1/2"	M32x1,5	18,0	55	61	5,0	B-RA5N3M
	M40x1,5	18,0	55	61	5,0	B-RA5N4M
	M25x1,5	18,0	65	72	5,0	B-RA6N2M
	M32x1,5	18,0	65	72	5,0	B-RA6N3M
NPT 2"	M40x1,5	18,0	65	72	5,0	B-RA6N4M
	M50x1,5	18,0	65	72	5,0	B-RA6N5M
	M50x1,5	28,0	75	83	6,0	B-RA7N5M
NPT 2 1/2"	M60x1,5	28,0	75	83	6,0	B-RA7N60M
	M63x1,5	28,0	75	83	6,0	B-RA7N6M
	M63x1,5	28,0	75 95	105	8,0	B-RA8N6M
NPT 3"	M70x1,5	28,0	95	105	8,0	B-RA8N70M
	M75x1,5	28,0	95	105	8,0	B-RA8N7M
	M80x1,5	28,0	110	123	10,0	B-RA9N80M
NPT 3 1/2"	M85x1,5	28,0	110	123	10,0	B-RA9N85M
- •	M90x1,5	28,0	110	123	10,0	B-RA9N8M
	M80x1,5	28,0	120	133,5	10,0	B-RA10N80M
NPT 4"	M85x1,5	28,0	120	133,5	10,0	B-RA10N85M
	M90x1,5	28,0	120	133,5	10,0	B-RA10N8M
	M100x1,5	28,0	120	133,5	10,0	B-RA10N9M

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