

One-way flow control valves GRLA, GRLZ

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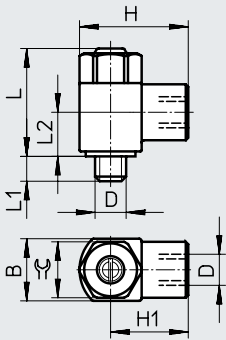
Just look
for the
star!

Datasheet – Female thread/barbed connector, metal

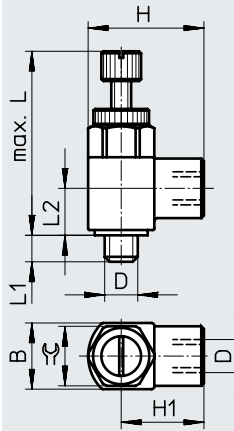
Dimensions – Connection type: Female thread

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Slotted head screw



Knurled screw



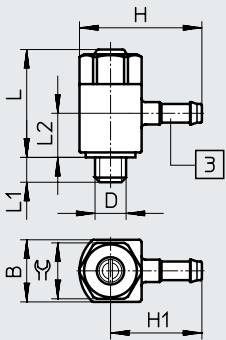
Type	Connection D	Nominal size [mm]	B	~H	~H1	~L		L1	~L2	⌀
						Slotted head screw	Knurled screw			
GRL...-M5	M5	2	10 -0.15	17.5	12.5	18 ±6.2%	28 ±3.4%	4.0 ±0.3	7.1	9
GRL...-1/8	G1/8	4	16 -0.15	28	20	26 ±3.9%	39.4 ±2.1%	5.3 +0.45/-0.35	10.3	14
GRL...-1/4	G1/4	6	20 -0.2	36	26	31.7 ±3.2%	47.4 ±2.0%	8.2 +0.45/-0.35	13.2	17
GRLA-3/8	G3/8	8.5	25 -0.2	41	28.5	38.5 ±2.9%	-	8.8 +0.45/-0.35	15.5	22
GRLA-1/2	G1/2	10.6	32 -0.2	53	37	50 ±2.4%	-	12.8 ±0.45	18.9	27
GRLA-3/4	G3/4	14	41 -0.3	64	43.5	61.8 ±2.2%	-	13.5 ±0.5	24.5	36

† Note: This product conforms to ISO 1179-1 and ISO 228-1.

Dimensions – Connection type: Barbed connector

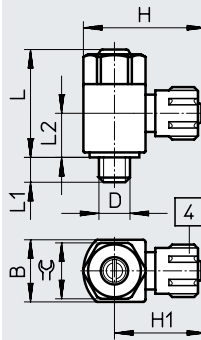
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GRL...-M5



[3] Barbed connector

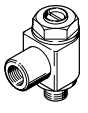
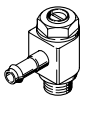
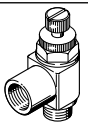
GRL...-1/8, GRL...-1/4



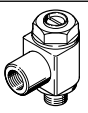
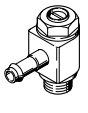
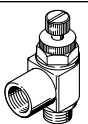
[4] Union nut

Type	Connection D	Nominal size [mm]	B	~H	~H1	~L		L1	~L2	⌀
GRL...-M5-PK-3	M5	2	10 -0.15	19.7	14.7	18	±5.7%	4.0 ±0.3	8.5	9
GRL...-M5-PK-4			10 -0.15	21.7	16.7	18	±5.7%	4.0 ±0.3	8.5	9
GRL...-1/8-PK-3	G1/8	4	16 -0.15	27.1	19.1	26	±3.9%	5.3 +0.45/-0.35	13.4	14
GRL...-1/8-PK-4			16 -0.15	30.2	22.2	26	±3.9%	5.3 +0.45/-0.35	13.4	14
GRL...-1/8-PK-6			16 -0.15	30.3	22.3	26	±3.9%	5.3 +0.45/-0.35	12.0	14
GRL...-1/4-PK-4	G1/4	6	20 -0.2	34.2	24.2	31.7	±3.3%	8.2 +0.45/-0.35	16.9	17
GRL...-1/4-PK-6			20 -0.2	34.3	24.3	31.7	±3.3%	8.2 +0.45/-0.35	17.2	17

Datasheet – Female thread/barbed connector, metal

Ordering data – Exhaust air one-way flow control function									
	Pneumatic connection		Standard nominal flow rate q _N		Standard flow rate q _n		Weight	Part no.	Type
			At 6 → 5 bar		At 6 → 0 bar				
	2	1	In flow control direction	In non-return direction	In flow control direction	In non-return direction			
Slotted head screw									
	M5	M5	95	76 ... 95	169	135 ... 170	11	151160	GRLA-M5-B
	G1/8	G1/8	340	260 ... 420	615	470 ... 760	28	151165	GRLA-1/8-B
	G1/4 ²⁾	G1/4 ³⁾	610	450 ... 820	1200	885 ... 1615	59	151172	GRLA-1/4-B
	G3/8	G3/8	1450	970 ... 1600	2300	1540 ... 2540	97	151178	GRLA-3/8-B
	G1/2	G1/2	2100	1550 ... 2200	4000	2950 ... 4190	204	151179	GRLA-1/2-B
	G3/4	G3/4	4320	3220 ... 4720	7300	5440 ... 7300	377	151180	GRLA-3/4-B
	M5	PK-3	83	72 ... 83	140	120 ... 140	10	151161	GRLA-M5-PK-3-B
		PK-4	83	76 ... 88	140	128 ... 148	10	151162	GRLA-M5-PK-4-B
	G1/8	PK-3 ¹⁾	110	100 ... 110	162	145 ... 165	22	151166	GRLA-1/8-PK-3-B
		PK-4 ¹⁾	230	190 ... 240	360	295 ... 375	25	151167	GRLA-1/8-PK-4-B
		PK-6 ¹⁾	300	210 ... 290	455	320 ... 440	26	151168	GRLA-1/8-PK-6-B
	G1/4 ²⁾	PK-4 ⁴⁾	260	220 ... 260	370	315 ... 370	44	151173	GRLA-1/4-PK-4-B
		PK-6 ⁴⁾	540	410 ... 585	840	635 ... 910	45	151174	GRLA-1/4-PK-6-B
	Knurled screw								
	M5	M5	95	76 ... 95	169	135 ... 170	12	151163	GRLA-M5-RS-B
	G1/8	G1/8	340	260 ... 420	615	470 ... 760	30	151169	GRLA-1/8-RS-B
	G1/4 ²⁾	G1/4 ³⁾	610	450 ... 820	1200	885 ... 1615	59	151175	GRLA-1/4-RS-B

- 1) Via union nut
- 2) Male thread
- 3) Female thread
- 4) For barbed connector internal diameter with union nut

Ordering data – Supply air one-way flow control function									
	Pneumatic connection		Standard nominal flow rate q _N		Standard flow rate q _n		Weight	Part no.	Type
			At 6 → 5 bar		At 6 → 0 bar				
	2	1	In flow control direction	In non-return direction	In flow control direction	In non-return direction			
Slotted head screw									
	M5	M5	95	76 ... 95	169	135 ... 170	11	151183	GRLZ-M5-B
	G1/8	G1/8	340	260 ... 420	615	470 ... 760	28	151188	GRLZ-1/8-B
	G1/4 ²⁾	G1/4 ³⁾	610	450 ... 820	1200	885 ... 1615	59	151195	GRLZ-1/4-B
	M5	PK-3	83	72 ... 83	140	120 ... 140	10	151184	GRLZ-M5-PK-3-B
		PK-4	83	76 ... 88	140	125 ... 150	10	151185	GRLZ-M5-PK-4-B
	G1/8	PK-3 ¹⁾	110	100 ... 110	162	145 ... 165	22	151189	GRLZ-1/8-PK-3-B
		PK-4 ¹⁾	230	190 ... 240	360	295 ... 375	25	151190	GRLZ-1/8-PK-4-B
		PK-6 ¹⁾	300	210 ... 290	455	320 ... 440	26	151191	GRLZ-1/8-PK-6-B
	G1/4 ²⁾	PK-4 ⁴⁾	260	220 ... 260	370	315 ... 370	44	151196	GRLZ-1/4-PK-4-B
		PK-6 ⁴⁾	540	410 ... 585	840	635 ... 910	45	151197	GRLZ-1/4-PK-6-B
	Knurled screw								
	M5	M5	95	76 ... 95	169	135 ... 170	12	151186	GRLZ-M5-RS-B
	G1/8	G1/8	340	260 ... 420	615	470 ... 760	30	151192	GRLZ-1/8-RS-B
	G1/4 ²⁾	G1/4 ³⁾	610	450 ... 820	1200	885 ... 1615	59	151198	GRLZ-1/4-RS-B

- 1) Via union nut
- 2) Male thread
- 3) Female thread
- 4) For barbed connector internal diameter with union nut