

I1000 Series European Profile



Eaton Gromelle™ I1000 Series is a single shut-off compressed air coupling with a European profile. This coupling offers excellent flow capacity and is used in many compressed air applications.

Product Features

- Automatic sleeve for one-hand push-to-connect operation with ball-locking mechanism
- Single shut-off valving
- Excellent flow capacity
- Easy to connect
- Standard body material (Socket): Nickel-plated brass
- Standard body material (Plug): Zinc trivalent plated steel
- Standard seal material: NBR

Physical Characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure		Air Flow Rate*				Working Temperature	
		(bar)	(psi)	Δp 0.6 bar/8.7 psi**	(lpm)	(gpm)	Δp 1 bar/14.5 psi***	(lpm)	(gpm)
3/8	10.3	20	290	3,000	790	3,700	980	-20° +100°	-4° +212°

*Indicated values refer to an inlet pressure of 6 bar / 87 psi.

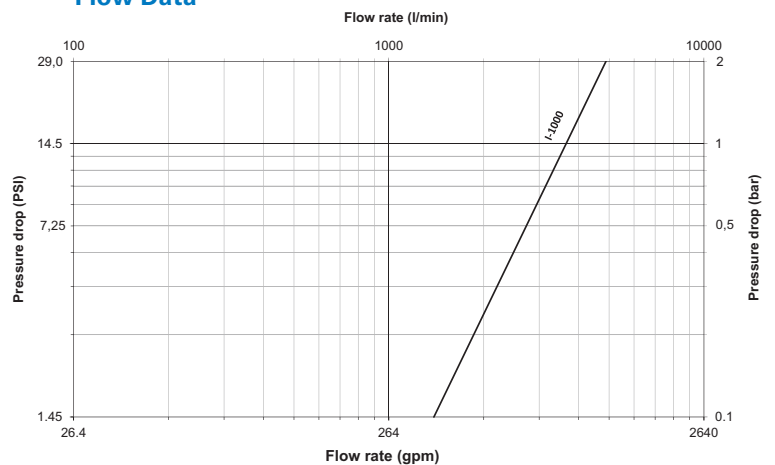
**This flow rate allows the optimum output from a pneumatic tool.

***This flow rate is the maximum recommended for a suitable output from a pneumatic tool. For applications needing higher flow rates, it is recommended to select a larger size coupling.

Applications & Markets

- Compressed Air
- Pneumatic Tools

Flow Data



Air flow-rate at 6 bar (87 psi)

FLUID TRANSFER
AND HYDRAULIC

PNEUMATIC

SPECIAL APPLICATIONS

DIAGNOSTIC

AGRICULTURE

REFRIGERANT

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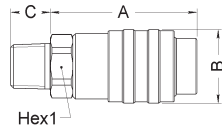


Figure 1

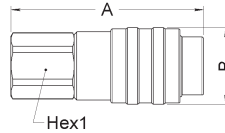


Figure 2

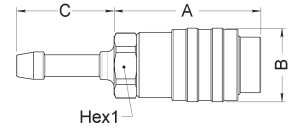


Figure 3

Sockets (Female)

Part Number	Body Size	Port Size	Thread or Hose Diam.*	Type	Dimensions Fig.	Dimensions							Weight		
						A	B	C	Hex1	A	B	C	Hex1	lbs	g
IL0106014		¼	¼-19	Male BSPT	1	2.16	1.09	0.51	0.87	53	27.7	13	22	0.29	130
IL0106038		⅜	⅜-19	Male BSPT	1	2.16	1.09	0.59	0.87	53	27.7	15	22	0.30	134
IL0106012		½	½-14	Male BSPT	1	2.16	1.09	0.67	0.87	53	27.7	17	22	0.32	147
IL0107014		¼	¼-19	Female BSPP	2	2.64	1.09	-	0.87	65	27.7	-	22	0.33	148
IL0107038	⅜	⅜	⅜-19	Female BSPP	2	2.76	1.09	-	0.87	68	27.7	-	22	0.32	145
IL0107012		½	½-14	Female BSPP	2	2.87	1.09	-	1.06	71	27.7	-	27	0.40	182
IL0105689		-	8 mm	Hose Tail	3	2.20	1.09	1.10	0.87	54	27.7	28	22	0.29	130
IL0105690		-	9 mm	Hose Tail	3	2.20	1.09	1.10	0.87	54	27.7	28	22	0.29	133
IL0105601		-	10 mm	Hose Tail	3	2.20	1.09	1.10	0.87	54	27.7	28	22	0.30	134

To obtain connected length of coupling add dimensions A or A+C (Fig. 1, 2, 3) and D or D+E (Fig. 4, 5, 6) together and subtract 19,8 mm (0,78 in.)

*Alternative end connections available upon request.

PNEUMATIC

SPECIAL APPLICATIONS

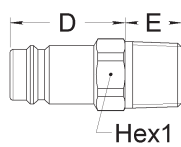


Figure 4

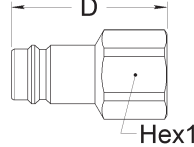


Figure 5

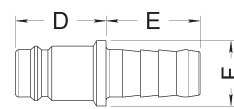


Figure 6

Plugs (Male)

Part Number	Body Size	Port Size	Thread or Hose Diam.*	Type	Fig.	Dimensions			Hex1			Weight			
						D	E	F	D	E	F	Hex1	Weight		
IA0100638		⅜	⅜-19	Male BSPT	4	1.16	0.57	-	0.67	29.5	14.5	-	17	0.08	38
IA0100612		½	½-14	Male BSPT	4	1.30	0.67	-	0.87	33	17	-	22	0.12	56
IA0100738		⅜	⅜-19	Female BSPP	5	1.57	-	-	0.83	40	-	-	21	0.09	41
IA0100712	⅜	½	½-14	Female BSPP	5	1.77	-	-	1.06	45	-	-	27	0.16	74
IA0100990		-	9 mm	Hose Tail	6	0.85	1.02	0.59	-	21.5	26	15	-	0.04	20
IA0100901		-	10 mm	Hose Tail	6	0.85	1.02	0.59	-	21.5	26	15	-	0.05	21
IA0100912		-	12 mm	Hose Tail	6	0.98	1.02	0.71	-	25	26	18	-	0.06	26

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