

COUPLINGS Series IAC



COMPRESSED AIR QUICK-FIT COUPLINGS

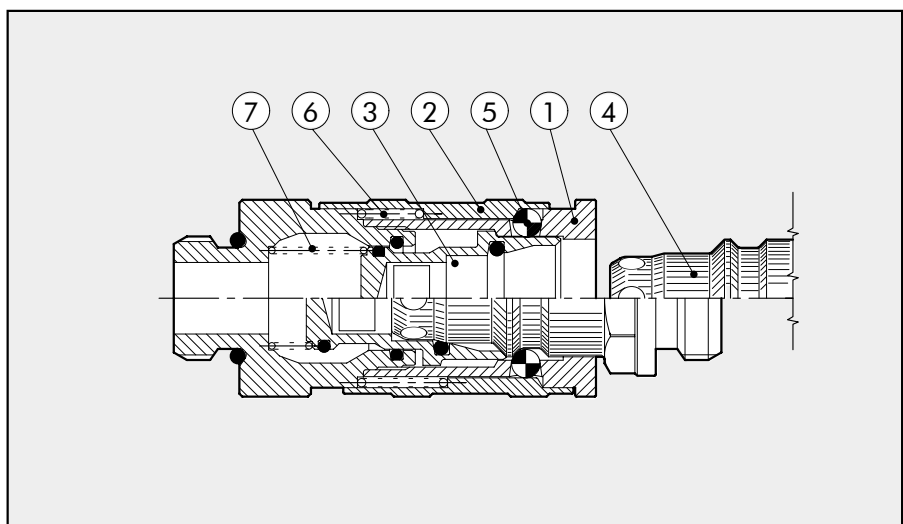
The compressed air quick-fit coupling by Metal Work allows quick replacement of pneumatic equipment (drills, milling machines, screwers and actuators in general) without having to set the line pressure to zero each time. Rapid tool changeover can be easily obtained by fitting a female body on the branch under pressure and the male coupling on the actuator. The presence of a female coupling with a safety valve on the branch under pressure prevents air dispersion during disconnection.



TECHNICAL DATA	MINI		100	200	300
Threaded coupling	1/8"	1/4"	1/4"	3/8"	1/2"
Maximum inlet pressure	MPa	3 MPa	3 MPa	3 MPa	3 MPa
	bar	30 bar	30 bar	30 bar	30 bar
	psi	435 psi	435 psi	435 psi	435 psi
Flow rate at 6 bar (0.6 MPa - 87 psi)	480 NI/min		750 NI/min	1450 NI/min	1750 NI/min
$\Delta P = 1 \text{ bar (0.1 MPa - 14 psi)}$					
Maximum temperature	°C	80°	80°	80°	80°
	°F	176	176	176	176

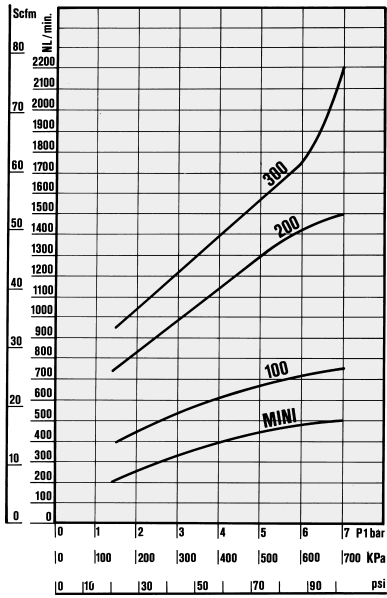
COMPONENTS

- Body: nickel-plated brass
- Ring nut: nickel-plated brass
- Valve: nickel-plated brass
- Coupling: carbonitrured and zinc-plated steel
- Ball: stainless steel
- Ring nut spring: AISI 302
- Valve spring: AISI 302

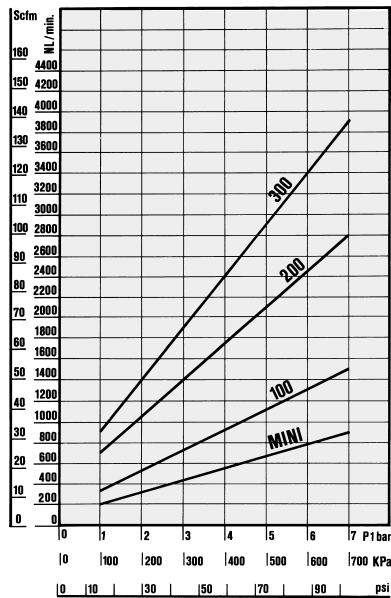


FLOW CHARTS

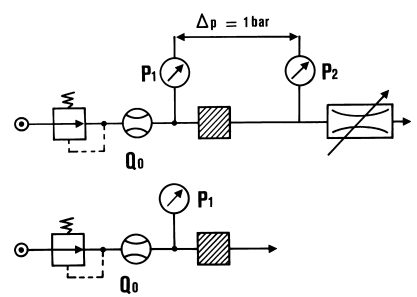
CURVE WITH $\Delta P = 1 \text{ bar}$



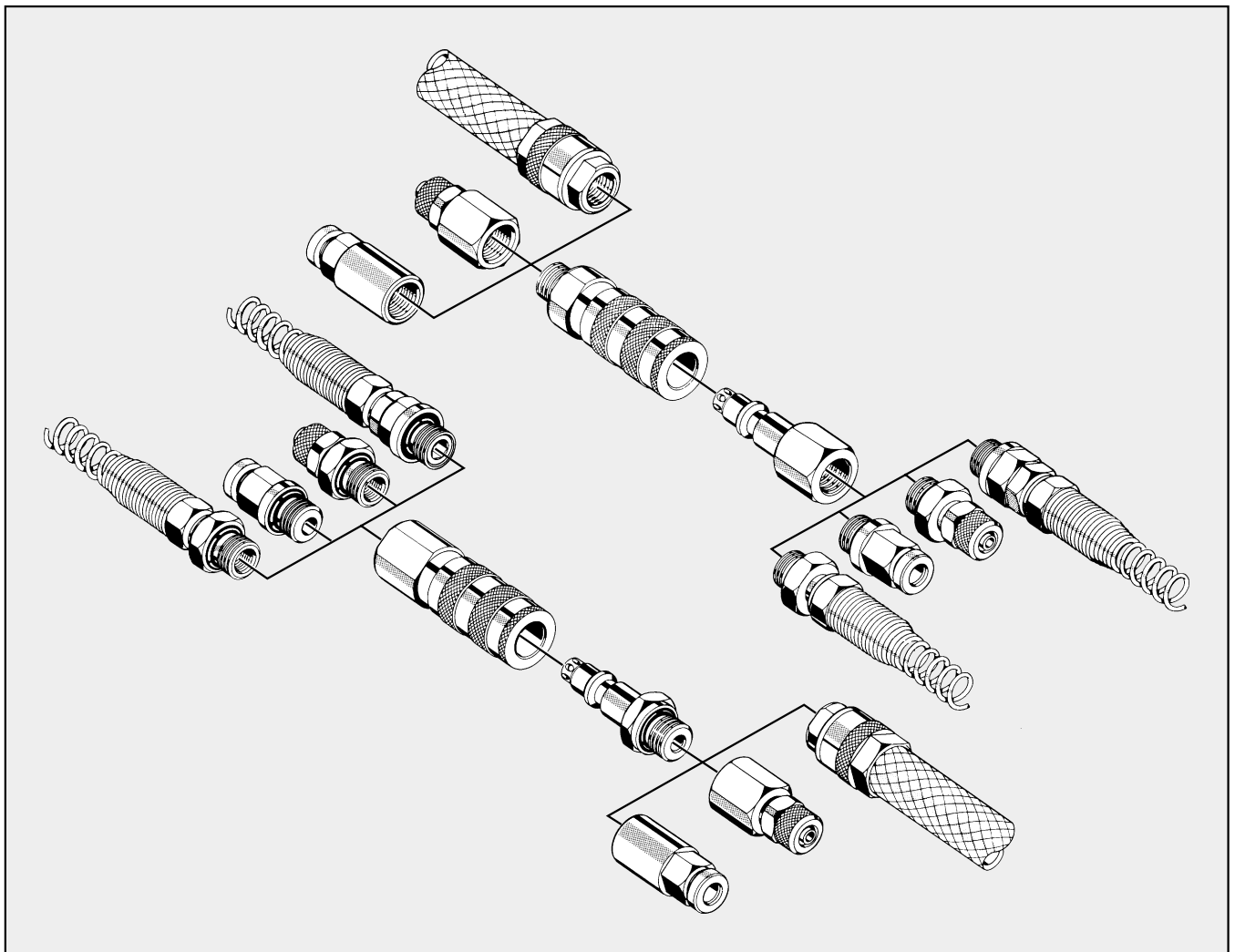
CURVE WITH FREE EXHAUST



FLOW TEST DIAGRAMS



TYPICAL ASSEMBLIES





OVERALL DIMENSIONS AND ORDERING CODES

	Code	Ref.	Model	F	Ch1	P	L	E	O-ring	FIAT DRAWG.
	0101001	01	mini	1/8	16	6.0	38.0	18.8	2031	
	0101002	02	mini	1/4	16	8.0	40.0	18.8	2043	
	0201101	101	100	1/4	21	8.0	50.0	24.4	2043	
	0301201	201	200	3/8	23	9.0	57.6	26.4	2056	477351116
	0300202	201/A	200	1/4	23	8.0	56.6	26.4	2043	
	0401301	301	300	1/2	30	11.0	70.8	33.0	3068	

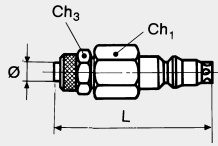
	Code	Ref.	Model	F	Ch1	P	L	E	FIAT DRAWG.
	0101003	03	mini	1/8	16	7.0	40.5	18.8	
	0101004	04	mini	1/4	16	8.0	42.0	18.8	
	0201102	102	100	1/4	21	8.0	52.0	24.4	1324472
	0301202	202	200	3/8	23	10.0	60.7	26.4	
	0401302	302	300	1/2	30	11.0	73.8	33.0	

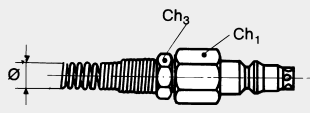
	Code	Ref.	Model	∅	Ch1	Ch3	P	L	E
	0101005	05	mini	6/4	16	12	14.0	46.0	18.8
	0101006	06	mini	8/6	16	14	14.0	46.0	18.8

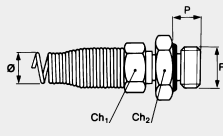
	Code	Ref.	Model	∅	Ch1	Ch3	E
	0101007	07	mini	6/4	16	12	18.8
	0101008	08	mini	8/6	16	14	18.8

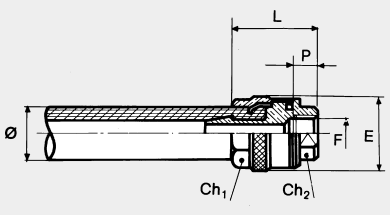
	Cod.	Ref.	Model	F	Ch1	P	L	M	O-ring	FIAT DRAWG.
	0102011	11	mini	1/8	13	6.0	29.3	15	2031	
	0102012	12	mini	1/4	14	8.0	32.7	18	2043	
	0202111	111	100	1/4	14	8.0	42.2	18	2043	
	0302211	211	200	3/8	17	9.0	45.8	20	2056	1324473
	0303205	211/A	200	1/4	16	8.0	46.2	18	2043	
	0402311	311	300	1/2	22	11.0	55.2	26	3068	

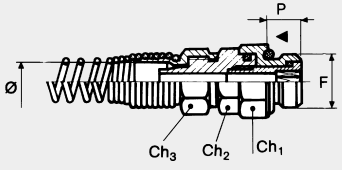
	Code	Ref.	Model	F	Ch1	P	L	FIAT DRAWG.
	0102013	13	mini	1/8	14	7.0	29.5	5000101
	0102014	14	mini	1/4	17	8.0	30.5	
	0202112	112	100	1/4	17	8.0	42.0	1324477
	0302212	212	200	3/8	20	10.0	48.0	
	0402312	312	300	1/2	24	11.0	55.0	

Code	Ref.	Model	Ø	Ch1	Ch3	L	
	0102015	15	mini	6/4	12	12	35.5
	0102016	16	mini	8/6	14	14	35.5

Code	Ref.	Model	Ø	Ch1	Ch3	
	0102017	17	mini	6/4	12	12
	0102018	18	mini	8/6	14	14

Code	Ref.	F	Ø	Ch1	Ch2	P	
	0010001	C1/Z★	1/4	8	14	18	8
	0010002	C1/Z★	3/8	8	14	21	9
	0010003	C1/Z★	1/4	10	17	18	8
	0010004	C1/Z★	3/8	10	17	21	9
	0010005	C1/Z★	3/8	12	19	21	9

Code	Ref.	F	Ø	Ch1	Ch2	P	L	E	
	2601001	40	1/4	6x14	18	16	8.0	29.0	23.0
	2601002	41	1/4	8x17	21	16	8.0	31.0	25.0
	2601003	42	1/4	10x19	23	17	8.0	31.0	27.0
	2601004	43	1/2	13x23	27	24	11.0	35.5	31.0

Code	Ref.	F	Ø	Ch1	Ch2	Ch3	P	O-ring	FIAT DRAWG.
	2501010	50	1/4	6/4	16	14	12	8.0	2043
	2501011	51	1/4	8/6	16	14	14	8.0	2043
	2501012	52	3/8	10/8	19	17	17	9.0	2056
	2501013	53	3/8	12/10	19	17	19	9.0	2056

★ with spring