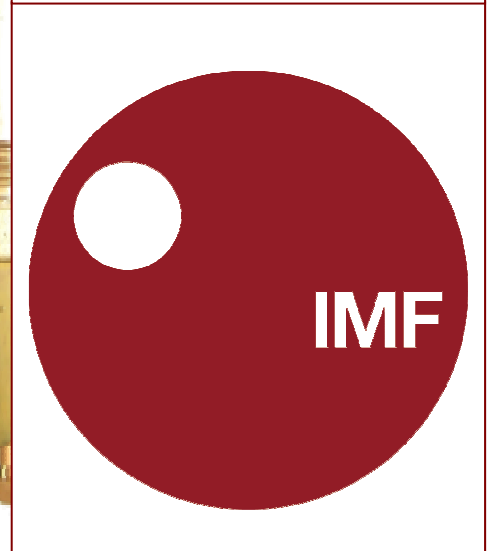
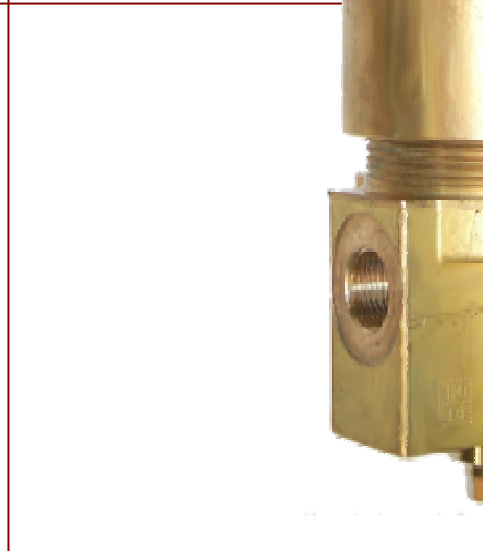
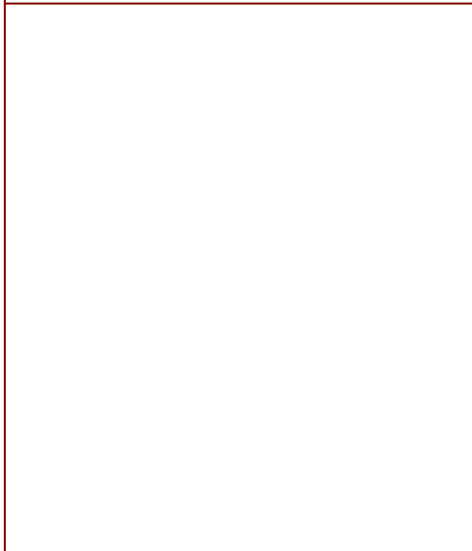
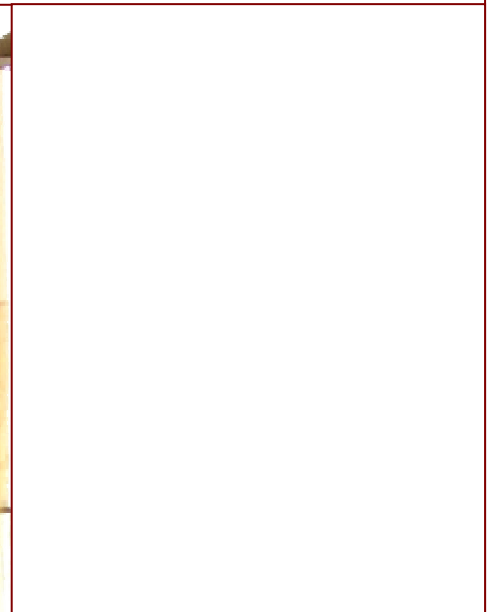
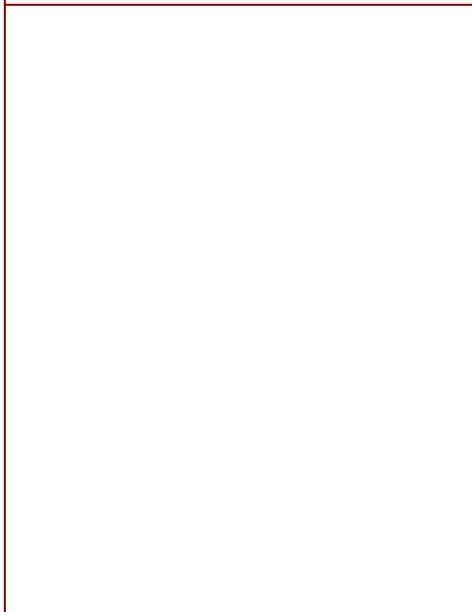


IMF

Solutions for pressure regulation





Solutions for
pressure regulation

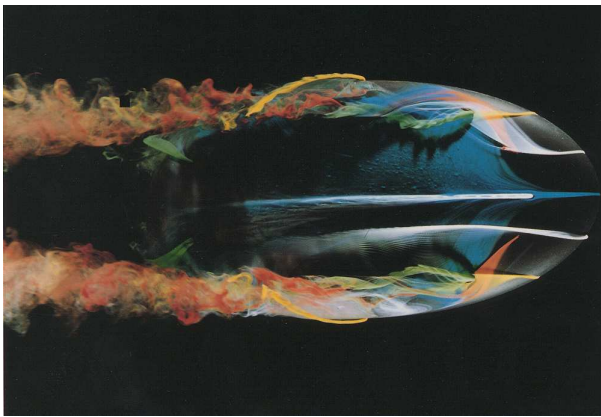
IMF Industrie Mécanique pour les Fluides propose:

- **40 years experience** in pressure control and regulation for gaseous and liquid medias, specially in high pressure systems.
- **IMF components and systems quality regarding regulation, leak tight and reliability, is insured with a rigorous conception and continuous internal controls.**

So IMF has got ISO 9001 certification in December 2001,
confirmed by ISO 9001 : 2000 certification in October 2003.

IMF has also agreements from customers and official body.

IMF is also notified for PED 97/23/CE since May 2002



- **Expertise in advanced fields such as:**

- Aerospace,
- National defence,
- Plastics industry,
- Gases industry,
- Formula 1,
- Diving and undersea research

- **A high technologic level expertise**
- **Advise and assistance** to define and use your process
- **La recherche et le développement** pour la réalisation
- Research and development for prototypes
- **Mass production**
- **Personalized service for start assistance**
(upon request)
- **After sale department**

IMF is equipped with a cleaning class 10000 to satisfy
the best cleaning level required by advanced industries.



Certifications and notifications in confirmation of IMF quality:



ISO 9001 version 2000



European Directive 97/23/CE



Atex Directive 94/9/CE



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Solutions for
pressure regulation



Spring loaded reducing valves

Ref	Ports Diameters	Main material	Max inlet Pressure bar(g)	Outlet range Bar(g)
D247	1/4" BSPP		250	1,5 à 10
D247	1/4" BSPP	Alubronze	250 – 420	6 à 330
D902	1/4" BSPP	Stainless steel	250 – 420	0,5 à 35
D083	3/8" – 1/2" BSPP	Brass	250	1,5 à 250
D131	3/8" – 1/2" BSPP	Brass	250	0,1 à 10
D118	3/8" – 1/2" BSPP	Stainless steel	250	0,1 à 10
D249	3/8" – 1/2" BSPP	Brass	420	1,5 à 300
D979	3/8" – 1/2" BSPP	Stainless steel	420	1,5 à 300
D973	3/8" BSPP	Stainless steel	700	50 à 700
D973	3/8" OD SFX	Inox	1000	50 à 700
D331	3/4" BSPP	Brass - Stainless steel	100	1,5 à 35
D111	1" BSPP	Brass	15	0,1 à 5
D117	1" BSPP	Stainless steel	15	0,1 à 5
D178	1" BSPP	Brass - Stainless steel	100	1,5 à 20
D301	1" BSPP	Brass - Stainless steel	250	1,5 à 52

Dome loaded reducing valves

Ref	Ports diameters	Main material	Max inlet Pressure bar(g)	Outlet range bar(g)
D253	3/8" – 1/2" BSPP	Brass	250 – 420	0 à 220
D261	3/8" – 1/2" BSPP	Brass – Stainless steel	250 – 420	0 à 350
D337	1/2" BSPP	Brass	35	0 à 35
D166	1" BSPP	Brass	15	0 à 5
D389	1" BSPP	Brass	35	0 à 5
D389	1" BSPP	Brass	35	0 à 35
D166	1" BSPP	Brass – Stainless steel	100	100
D162	1" BSPP	Brass – Stainless steel	350 – 400	0 à 220
D268	1" BSPP	Alubronze	420	0 à 380
D260	1 1/2" BSPP	Brass – Alubronze	250 – 350	0 à 200 – 210
D291	2" BSPP	Brass – Stainless steel	15	0 à 5
D291	2" BSPP	Brass – Stainless steel	100	0 à 100
D260	2" BSPP	Brass - Alubronze	250 - 400	0 à 200 - 350
D290	3" BSPP	Alubronze	15	0 à 5
D290	3" BSPP	Alubronze	100	0 à 100



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Solutions for
pressure regulation

Proportional reducing valves



D366



D386

- 3 ways regulator: inlet, outlet, vent
- Aluminium, brass and alubronze construction
- Max inlet pressure: 100 to 600 bar(g)
- Outlet pressure ranges: 0 - 10 bar(g) to 0 - 600 bar(g)
- Input signal: 4 - 20 mA or 0 - 10 V / Output 0 - 10 V
- Inlet : outlet integrated filters for high pressure type

Spring loaded back pressure valves

Ref	Ports diameters	Main material	Max inlet pressure bar(g)	Inlet pressure range bar(g)
B903	1/4" gaz	Stainless steel	35	0,5 à 35
B083	1/4" gaz	Cupro-aluminium	320	6 à 320
B043	3/8" – 1/2" gaz	Brass	250	1,5 à 250
B066	3/8" – 1/2" gaz	Brass - Stainless steel	10	0,1 à 10
B943	3/8" – 1/2" gaz	Stainless steel	300	1,5 à 300
B910	3/8" gaz	Stainless steel	700	50 à 700
B910	3/8" OD SXF	Stainless steel	1000	50 à 700
B067	1/2" gaz	Brass - Stainless steel	10	0,1 à 10
B051	1/2" gaz	Brass - Stainless steel	120	1,5 à 120
B075	1" gaz	Brass - Stainless steel	20	1,5 à 20



B903



B943



B043



B075



B066

Déverseurs à dôme



B057



B062



B071

Ref	Ports diameters	Main material	Max inlet pressure bar(g)	Inlet pressure range bar(g)
B057	1" BSPP	Brass	15	0 à 5
B057	1" BSPP	Brass – Stainless steel	100	0 à 100
B062	2" BSPP	Brass – Stainless steel	15	0 à 5
B062	2" BSPP	Brass – Stainless steel	100	0 à 100
B071	3" BSPP	Cupro-aluminium	15	0 à 5
B071	3" BSPP	Cupro-aluminium	100	0 à 100



Solutions pour la
régulation de pression



S110

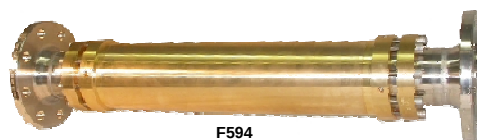


S105

Safety valves

Ref	Ports diameters	Main material	Max inlet pressure bar(g)	Set pressure range bar(g)
S110	3/8" BSPP	Brass – Stainless steel	5	0,1 à 5
S153	3/8" BSPP	Brass - Stainless steel	35	8 à 30
S153	3/8" BSPP	Brass	280	27 à 280
S153	3/8" BSPP	Stainless steel	450	27 à 450
S158	3/8" – 3/4" BSPP	Brass - Inox	10	0,1 à 10
S186	1/2" - 1" BSPP	Brass	420	70 à 420
S105	3/4" - 1" BSPP	Brass - Stainless steel	70	10 à 70
S145	3/4" - 1" BSPP	Brass - Stainless steel	10	0,1 à 10
S107	1" - 1 1/2 BSPP	Brass - Stainless steel	70	10 à 70
S148	1" - 1 1/2 BSPP	Brass - Stainless steel	10	0,1 à 10

Te type filters – Inline filters



F594

Ref	Ports diameters	Main material	Max inlet pressure bar(g)	Filtration (µm)	Filter element
F509	3/8" BSPP	Brass	280 - 420	5 - 10 - 14 - 25	SS sintered – SS clothed - Bronze sintered
F509	3/8" BSPP	Stainless steel	420 - 700	5 - 10 - 14 - 25	SS sintered – SS clothed - Bronze sintered
F581	3/8" OD SFX	Stainless steel	1000	10 - 25	SS sintered – SS clothed
F545	3/4" - 1" BSPP	Brass - Stainless steel	300 - 420	10 - 25	SS sintered – SS clothed - Bronze sintered
F582	1" BSPP	Brass	280	10 - 25	SS clothed
F563	1 1/2" – 2" BSPP	Brass - Stainless steel	100	10 - 25	SS clothed
F586	1 1/2" – 2" BSPP	Brass	250	10 - 25	SS clothed
F594	BW 3"	Brass	100	10 - 25	SS clothed - Bronze sintered



F509

Stop valves



R052



R084

Ref	Ports diameters	Main material	Max inlet pressure bar(g)
R052	1/8" - 1/4" NPT	Brass - Alubronze	250 - 400
R064	3/8" - 1/2" BSPP	Brass - Alubronze – Stainless steel	300 - 320 - 400
R075	1/2" BSPP	Brass - Stainless steel	420
R084	1" BSPP	Brass - Alubronze	250 - 400



Solutions pour la
régulation de pression

Solenoid valves



E024



E134

Ref	Ports diameters	Main material	Max inlet pressure bar(g)	Nb ways/position Function
E024	1/4" BSPP	Alubronze – Stainless steel	280 – 400	2/2 NF – Normally closed
E024	1/4" BSPP	Alubronze – Stainless steel	280 – 400	2/2 NO – Normally opened
E024	1/4" BSPP	Alubronze – Stainless steel	280 – 400	3/2 NF - Normally closed
E024	1/4" BSPP	Alubronze – Stainless steel	120 - 280 – 400	3/2 NO - Normally opened
E024	1/4" BSPP	Alubronze – Stainless steel	100	3/2 U - Universel
E134	1/4" BSPP	Alubronze – Stainless steel	280 – 400	2/2 NF - Normally closed
E134	1/4" BSPP	Alubronze – Stainless steel	280 – 400	2/2 NO - Normally opened
E134	1/4" BSPP	Alubronze – Stainless steel	280 – 400	3/2 NF - Normally closed
E134	1/4" BSPP	Alubronze – Stainless steel	120 - 280 – 400	3/2 NO - Normally opened
E134	1/4" BSPP	Alubronze – Stainless steel	100	3/2 U - Universel
E146	1/2 " BSPP	Brass	250	2/2 NF - Normally closed
E053	1" – 1 1/2 BSPP	Alubronze – Stainless steel	250 – 400	2/2 NF ou NO – According pilote

Pneumatic valves

Ref	Ports diameters	Main material	Max inlet pressure bar(g)	Nb ways/position Function
V134	1/4" BSPP	Alubronze – Stainless steel	280 – 400	2/2 NF - Normally closed
V134	1/4" BSPP	Alubronze – Stainless steel	280 – 400	2/2 NO - Normally opened
V134	1/4" BSPP	Alubronze – Stainless steel	280 – 400	3/2 NF - Normally closed
V134	1/4" BSPP	Alubronze – Stainless steel	120 - 280 – 400	3/2 NO - Normally opened
V137	1/2 " BSPP	Brass	350	2/2 NF - Normally closed
V137	1/2 " BSPP	Brass	350	2/2 NO - Normally opened
V138	1/2 " BSPP	Brass	250	3/2 U - Universel

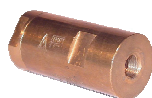


V134



V138

No-return valves



C313



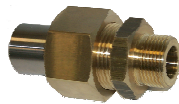
C479

Ref	Ports diameters	Main material	Max inlet pressure bar(g)
C313	1/4" BSPP	Brass – Stainless steel	300 - 400
C606	1/2" BSPP	Brass – Stainless steel	250
C479	1/2" BSPP	Brass – Stainless steel	350
C470	3/4" BSPP	Brass – Stainless steel	250 - 350
C480	1" BSPP	Brass – Stainless steel	250 - 350



Solutions for
pressure regulation

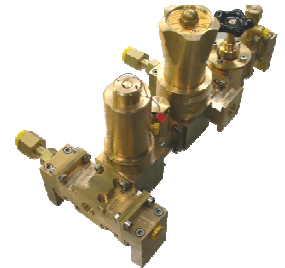
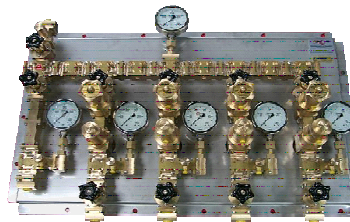
Tube fittings



- Brass, Alubronze and Stainless steel construction
- Max working pressure: 250 to 450 bar
- Male connection: 1/4" BSPP to 2" BSPP
- SS or carbon steel weld end, brass for brazing
- End for BW (but welding) or SW (socket welding)
- Same cleaning as other components

Intégrabloc system

- Intégrabloc is an assembly system of modular components to create distribution panels and reducing panels for gases.
- Modular components are similar as others:
Filters, reducing valves, back pressure valves, safety valves, stop valves, check valves, solenoid and pneumatic valves...
- Brass and Alubronze construction
- Max inlet pressures: 250 to 400 bar(g)



Some specific realizations



Reducing valves for
Formula 1



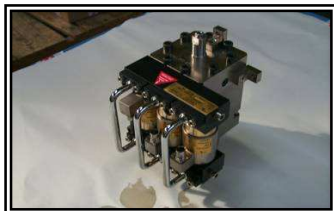
Solenoid valve for
submarine



Special electrical
motor for valves



Intégrabloc panel mounted on SS plate



Reducer-Back pressure
assembly for aerospace
industry



SS double stage
s industry



Double stages D260 et D290 reducers
for space test plant



Reducing system for
PET blowing machine

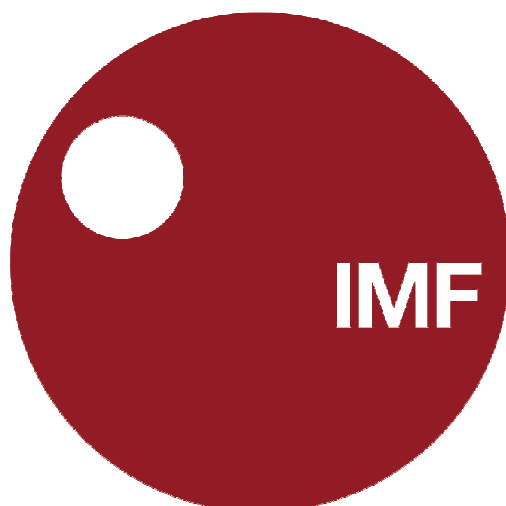


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