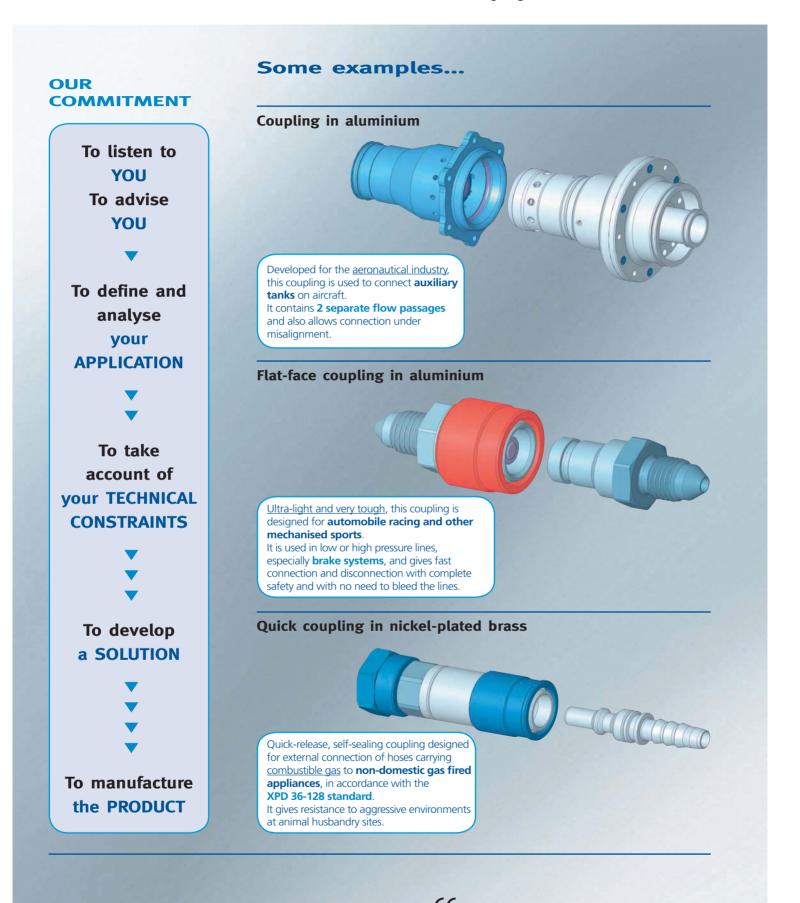


Elemente si sisteme hidraulice Elemente si sisteme pneumatice Service, proiectare, asistenta tehnica Reparatii pompe hidraulice Tel: +40 (0) 314 326 326, 7, 8 Fax: +40 (0) 314 326 329 office@progressfluid.ro www.progressfluid.ro





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European Pressure Equipment Directive (E

TUTHILL SAS declares that its pneumatic, hydraulic and special quick couplings for all fluids and applications are developed and manufactured in accordance with the requirements of the European Pressure Equipment

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... of our special developments

You are a manufacturer, installer, specifier... Taking into account your application details is one of the essential elements in our special developments, together with the advice and expertise of our engineers.

Whatever your application (fluid conveyed, working temperature, environmental conditions,...) we are able to offer you a MADE-TO-MEASURE technical solution. Please consult us!*

Aluminium self-sealing coupling

Standard or flat-face version Application Electricity industry. Evacuation and charging of enclosures (SF₆ gas) in high voltage switchgear.

2" stainless steel coupling with bronze release sleeve and handwheel Application

Flushing with nitrogen and helium filling of Ariane rocket launcher firing stage.

Flat-face multi-coupling manifold

Application Railway equipment. This manifold gives connection of different hydraulic service functions between the tank and the bogies.

Button-release quick coupling with ball-valve in corrosion-resistant materials Two separate security features **Application** Breathing air.

Coupling in non-corrodible materials

Application LPG (liquid petroleum gas) fuel lines on forklift trucks, giving a fast connection between the LPG bottle and the engine fuel system.

Aluminium coupling designed for

on-board cooling systems Application Military aircraft. Excellent vibration resistance

Aluminium coupling incorporating mounting flange and operating handle Connection between the fuel feed system and

Application Military aircraft (combat helicopters). releasable tanks.



	80 ->++	380 ->++	G-600 ->++
Profile Interchangeability	Rectus series 20 & 91 Legris series 20 Walther series 06-003	Rectus series 21 & 90 Legris series 21	ISO 6150 B & US A-A-59439 standard
Nominal diameter	2.7 mm	5 mm	5.5 mm
Maximum working pressure*	35 bar (508 psi)	35 bar (508 psi)	20 bar (290 psi)
Materials	Socket body: nickel-plated brass Plug: nickel-plated brass Seals: nitrile	Socket body: nickel-plated brass Plug: nickel-plated brass Seals: nitrile	Socket body: nickel-plated brass Plug: zinc-plated steel Seals: nitrile
Technical data	Connection: one-handed straight push Ball-locking	Connection: one-handed straight push Ball-locking	Connection: one-handed straight push Ball-locking
Applications	Compressed air Consult us for other fluids	Compressed air Consult us for other fluids	Compressed air Consult us for other fluids

Standard quick-release air couplings

	2400	I-900 -∽+←	T-1300 -∽+←
	ALCO ALCO	Contraction of the second	COLUM
Profile Interchangeability Nominal diameter	हिन्द्रामुङ्गर्भ Legris: series 25 & 26 CEJN series 320 Prévost series ESC & ESG	8 mm ISO 6150 B & US A-A-59439 standards	12 mm Proprietary profile
Maximum working pressure*	35 bar (508 psi)	20 bar (290 psi)	20 bar (290 psi)
Materials	Socket body: brass Plug: zinc-plated steel Seals: nitrile	Socket body: nickel-plated brass Plug: zinc-plated steel Seals: nitrile	Socket body: nickel-plated brass Plug: zinc-plated steel Seals: nitrile
Technical data	Connection: one-handed straight push Pin-locking	Connection: one-handed straight push Ball-locking	Connection: one-handed straight push Ball-locking
Applications	Compressed air Consult us for other fluids	Compressed air Consult us for other fluids	Compressed air Consult us for other fluids



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afety-type	94.						
ISO 6150 B -0) profile	≻+ <	ISO 6150 (profile		ARO 21 profile			100 S-200
200	(59) (1)	00	1524	To	CO - Line	M-2	200 M-280 E-700
O 6150 B & S A-A-59439 standards		ISO 6150 C standa	rd	ARO 210 pro	file	SP	UBD TAS TPVC
5 and 8 mm		5.5 mm 8 mm	11 mm	5.5 mm			
5 bar (232 psi)		12 bar 10 bar (174 psi) (145 ps	si) 8 bar (116 psi)	16 bar (232 p	si)		e refer to our "Pneumatic sories" catalogue
ocket body: aluminium ug: zinc-plated steel als: nitrile		Socket body: aluminium Plug: zinc-plated steel Seals: nitrile					e refer to our "Pneumatic sories" catalogue
Connection: one-handed straight push Button-operated sockets Elimination of hose-whip when disconnecting		Connection: one-handed straight push Button-operated sockets Elimination of hose-whip when disconnecting		Connection: one-handed straight push Button-operated sockets Elimination of hose-whip when disconnecting		and h	guns tors, Ys, tees, elbows, crosses lose tails lils and hoses
ompressed air onsult us for other fluids		Compressed air Consult us for other	fluids	Compressed a Consult us for		TPVC	pressed air : compressed air and water ult us for other fluids)
uick coupl				bung	Couplings for refrigerants W-10000		Non-return valves
J-50000 ->+-(J-6c Proprieta with oth	0000 ->+-(->+-()+()+(-)+(J-70000 Proprietary pro with other mak	Dung			Non-return valves R-4000 ₩0-
J-50000 ->+ +>+ +>+ oprietary profile conpatible th other makes of quick uplings of the same design	J-6c Proprieta with oth	booo	J-70000 Proprietary pro	Dung	Proprietary pron- with other makes of the same design Size 8 Size 12	Size 16	
J-50000 ++++ prietary profile opatible th other makes or quick uplings of the same design and 9 mm	J-6c Proprieta with oth couplings 6 and 9	booo	J-70000 Proprietary provith other make couplings of the	Dung D +++ ces of quick e same design	Proprietary provide same design	Size 16 21 mm ar (725 to	R-4000
uick couple J-50000 \rightarrow \leftarrow \bullet oprietary profile opatible th other makes of quick uplings of the same design and 9 mm 9 bar (725 psi) ain components in stainless sel als: Viton	J-6c Proprieta with oth couplings 6 and 9 10 or 16 232 psi) working	booo boooo booo booo booo booo booo booo booo booo booo booo booo booo booo booo booo boooo boooo booo booo boooo boooo booooooo boooo booooo	J-70000 Proprietary provide the couplings of the 8 and 12 mm	Dung D +++ e same design	Proprietary prolive with other makes of of the same design Size 8 Size 12 10.3 mm 16.2 mm From 50 to 125 bo	Size 16 21 mm ar (725 to ing on size	R-4000 ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔
J-50000 oprietary profix opatible th other makes or quick uplings of the same design and 9 mm 9 bar (725 psi) ain components in stainless sel	J-6c Proprieta with oth couplings 6 and 9 10 or 16 232 psi) working Socket: steel Plug: nic Seals: Vir Ball-lock Pull-to-c	booo	J-70000 Proprietary provide the couplings of the 8 and 12 mm 10 bar (145 ps)	Dung Dun	Vertocological and the same design size 8 Size 12 10.3 mm 16.2 mm From 50 to 125 bo 1810 psi), depended the same design Size 2 10.3 mm 16.2 mm from 50 to 125 bo 1810 psi), depended the same design size 3 Size 12 10.3 mm 16.2 mm Size 3 Size 12 10.3 mm 16.2 mm Size 3 Size 3 Size 12 10.3 mm 16.2 mm Size 3	 Size 16 21 mm ar (725 to ing on size bichromate oprene ewing up 	R-4000 ↔ From 3.8 to 34.7 mm From 25 to 700 bar (360 to 10150 psi), depending on size and material Zinc-plated steel, bichromate nickel-plated brass or AISI 31 stainless steel



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Ball-locked hydraulic couplings

H-5000	HK - >+≪ -	L-7000 🔾	ST 🔶
Proprietary profile	ISO 7241-1 B standard	Proprietary profile	Proprietary profile
From 3.8 to 34.7 mm	From 4.4 to 46 mm	From 8 to 50 mm	From 4.4 to 60.4 mm
From 20 to 1000 bar (290 to 14500 psi), depending on size and material	From 27 to 345 bar (390 to 5000 psi), depending on size and material	From 20 to 1000 bar (290 to 14500 psi), depending on size and material	From 17 to 520 bar (245 to 7540 psi), depending on size and material
Zinc-plated steel, bichromate, nickel- plated brass or AISI 316L stainless steel Seals: nitrile, Viton or EPDM	Zinc-plated steel, bichromate, brass or 303 or 316 stainless steel, Seals: nitrile, Viton, EPDM, Kalrez [®] , Teflon [®] or Neoprene	Zinc-plated steel, bichromate, brass or AISI 316L stainless steel Seals: nitrile, Viton or EPDM	Zinc-plated steel, bichromate, brass or AISI 303 or 416 stainless steel Seals: nitrile, Viton, EPDM, Teflon® or Neoprene
Pull-to-connect couplings Excellent pressure performance Optional safety locking ring	Pull-to-connect couplings High flow rates Optional safety sleeve lock to prevent accidental disconnection and "High Impulse" version (increased resistance to brinelling)	Pull-to-connect couplings	Pull-to-connect couplings Optional safety locking ring and "High Impulse" version (increased resistance to brinelling)
Automobile, oil, railway and food processing industries Iron and steel, electronics, laboratories, agriculture, public works, aviation,	Automobile, oil, railway and food processing industries Iron and steel, electronics, laboratories, agriculture, public works, aviation, Refrigeration	Applications where maximum flow capacity is required Pressure washing Some steam-cleaning equipment Fluid transfer lines Refrigerant circuits	Applications where maximum flow capacity is required Pressure washing Some steam-cleaning equipment Fluid transfer lines Refrigerant circuits

Flat-face hydraulic couplings / Dry-break

FF		DB	- > +-{\co-	RW	-0>+-{0-	HYDRAV	-0>+-{0-
		TO		Con and a second		Proprietary profile com	patible with other
ISO 16028 standar	d	Proprietary profile		Proprietary profile		makes of couplings of	the same design
From 6 to 18 mm		From 5.5 to 18.5 m	m	6 and 9 mm		From 3.6 to 24.3 mm	
350 bar (5075 psi)		From 140 to 190 ba 2755 psi), dependin		160 bar (2320 psi)		From 150 to 450 bar (depending on size	2175 to 6525 psi),
Zinc-plated steel, bi QPQ finish Seals: nitrile (alterna materials on reques	ative seal	316L stainless steel Seals: Viton or EPDN alternative seal mate		Main components in s Seals: Viton	stainless steel	Aluminium or stainless on size EPDM 41 B seals to NF	
Ball-locking Push-to-connect cou Sleeve-locking devic accidental disconnec Excellent pressure pe	e to prevent tion	Ball-locking Push-to-connect co High flow-rate High temperature ca seals)		Ball-locking Pull-to-connect coup Double seal when co External dust seal Excellent flow capac	onnected	Connection by fast-scr Anti-unscrew security f Minimum entry of air a End connections to SAR standard	eature Ind loss of fluid
Hydraulic circuits Connections to hydra jacks, distributors and Lifting and handling a Public works, agricultu steel, railways and oth	l accessories equipment ure, iron and	Chemicals and petro Pharmaceuticals Cosmetics Food processing ind Resistant to aggress corrosion	ustry	Rail industry and all in applications Good vibration resista		Mainly intended for the these couplings give co between test benches systems of certain airco Vibration-resistant	onnections and the hydraulic
	it-off -O>	+ Single shut-off	$\rightarrow + \leftarrow s$	traight-through			



Screw-to-connect hydraulic couplings

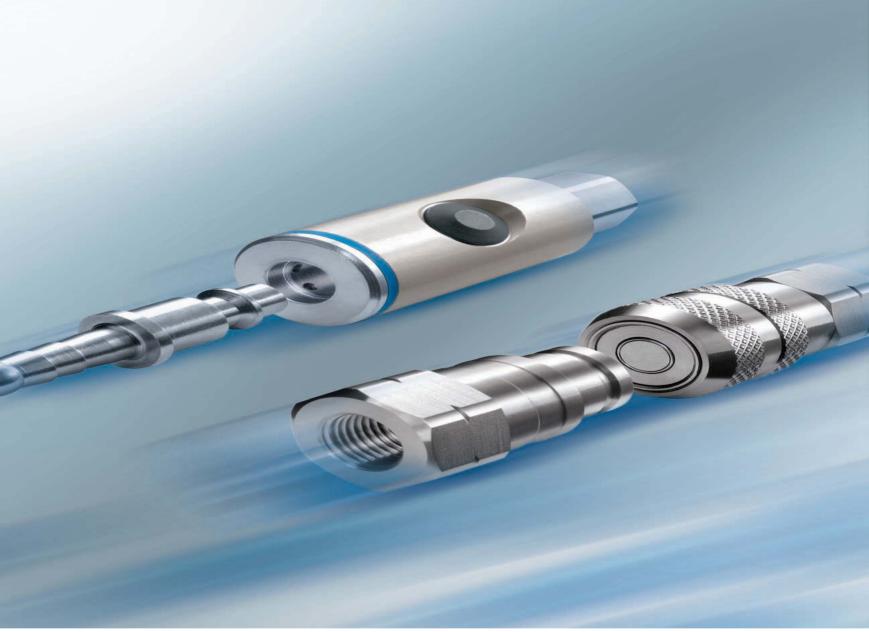
₩-6000 - >+ -	₩-26000 - >+ -	₩-56000/HP3 - >+-	96 ->+{~
TO TO	TO TO	Proprietary profiles compatible	Proprietary profile compatible
Proprietary profile	Proprietary profile	with other makes of couplings of the same design	with other makes of couplings of the same design
From 5.7 to 34.7 mm	14.2 and 16.5 mm	Series W-56000: 5.7 and 7.6 mm Series HP3: 7.1 mm	From 11.9 to 22.8 mm
From 300 to 1100 bar (4350 to 15950 psi), depending on size	From 450 to 650 bar (6525 to 9425 psi), depending on size	700 bar (10150 psi)	From 190 to 210 bar (2755 to 3045 psi), depending on size
Zinc-plated steel, bichromate or 1.4418 stainless steel Seals: nitrile, Viton or EPDM	Zinc-plated steel, bichromate Seals: nitrile	Series W-56000: zinc-plated steel Series HP3: zinc-plated steel, bichromate Seals: nitrile	Brass Seals: nitrile
Resistance to heavy mechanical demands Can be connected against residual pressure	Lugs on sleeve Coarse trapezoidal screw-thread sleeve (resistance to shock loads and speed of connection) Metal-to-metal sealing in disconnected position Can be connected against residual pressure	Series W-56000: poppet valving Series HP3: ball valving	Wing-nut mechanism O-ring indication allows checking that connection is complete Connection under pressure is possible Minimum air inclusion The plug can be bulkhead-mounted
All industrial and severe applications Public works, offshore, lifting equipment, systems subject to heavy mechanical loads, high pressures,	All industrial and severe applications, particularly public works	Hydraulic jacks, clamping systems, lifting and emergency release equipment	Applications needing connection or disconnection under pressure, with low fluid loss (flat-faced valves) Fuel industry Tractor-trailer connections

Hydraulic couplings / Agricultural range

H-15000	H-55000 - >+∢ -	K-8000 -≫+-<<>	Q-9000 -≫+↔-
ISO 7241-1 A standard	Proprietary profile compatible with some other makes of couplings of the same design	Proprietary profile compatible with other makes of agricultural couplings of the same design	ISO 5676 & NF U 16-006 standards
From 5.3 to 16.9 mm	5.9 and 7 mm	8 mm	8 mm
From 200 to 315 bar (2900 to 4565 psi), depending on size	250 bar (3625 psi)	250 bar (3625 psi)	150 bar (2175 psi)
Zinc-plated steel, bichromate Seals: nitrile or Viton	Zinc-plated steel Seals: nitrile	Zinc-plated steel or zinc-plated steel, bichromate Seals: nitrile	Zinc-plated steel, bichromate Seals: nitrile
Ball-locking Pull-to-connect couplings 1/2" size available in a push-pull version	Ball-locking Pull-to-connect couplings Ball valving	Agricultural coupling Connection by screwing up the locking sleeve Minimum entry of air and loss of fluid	Brake coupling Ball-locking Pull-to-connect couplings Minimum entry of air and loss of fluid
Hydraulic circuits and equipment Agriculture and public works Hydraulic fluids	Hydraulic circuits and equipment Forestry and agricultural machinery Iron and steel industry	Tractors, agricultural and forestry machinery and equipment	Trailer brake circuits on agricultural and forestry vehicles



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CONTACT:

Bd.Iuliu Maniu, No220, Bucuresti, Sector 6

Tel: +40 (0) 314 326 326 +40 (0) 314 326 327 +40 (0) 314 326 328

Fax: +40 (0) 314 326 329

office@progressfluid.ro www.progressfluid.ro