



a constant flow of solutions

Quick Couplings Product Directory

stucchigroup.com

The Company

Founded in 1960 by the two brothers Tino and Renzo in the province of Bergamo (Northern Italy), today Stucchi is one of the major worldwide manufacturers of quick couplings and solutions for hydraulic power transmission.

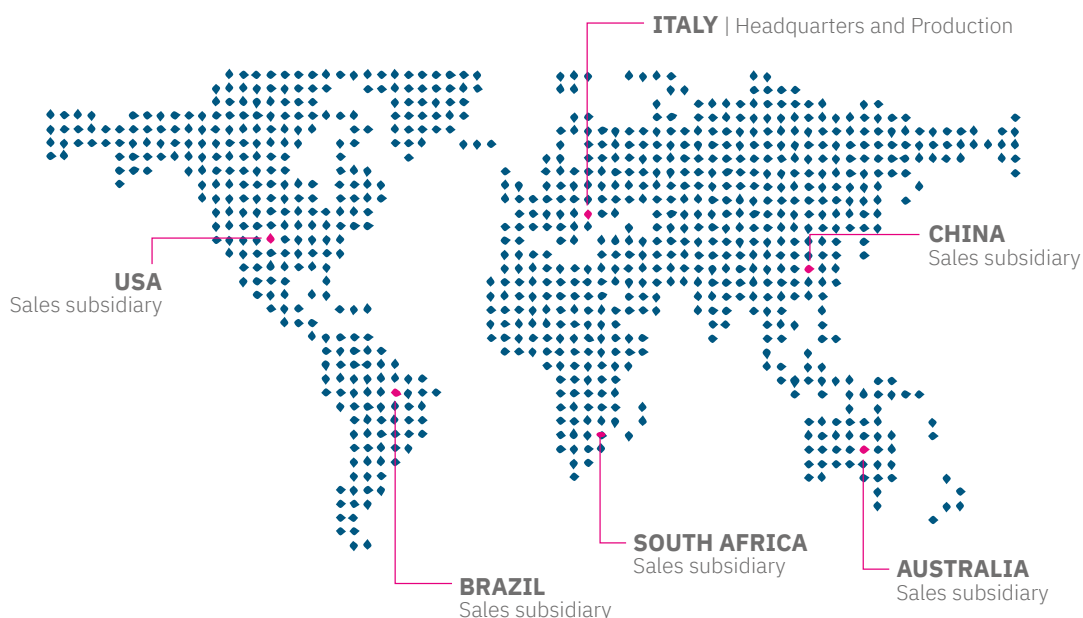
The vision that drives us to the future is to be recognized by our customers as their supplier of choice for fluid power products and solutions that are easy to use, safe, long lasting, environmentally friendly and that help in saving energy.

Why choose Stucchi Quick Couplings

- **Specialized** in quick couplings
- We **listen** to the needs of our customers
- **Full range** of products and interchangeability
- We **design** and **test** innovative solutions
- We have a **dedicated stock**
- **Diversified services** for our clients
- Our products are suitable for **many areas of applications**
- **Safety** and **respect for the environment** first
- 100% **Made in Italy** production, with a global sales network



Stucchi in the world



The Stucchi proposition

A complete range

The offer of Stucchi quick couplings allows us to **meet the different needs** of producers and end users, guaranteeing in any case the Stucchi certified quality.

From the most traditional poppet couplings to the latest generation multicouplings plates, up to the exclusive flat-face screw couplings: the range of Stucchi quick couplings covers the **most diverse applications** thanks to the experience and skills acquired in 60 years of history.

Quick couplings specialists

Stucchi products, capable of operating up to **pressures of 700 bar**, are designed to cover a wide range of applications thanks to the use of different types of **materials**, different **sizes** (from 1/8" to 2") and **configurations** (BSP, NPT, SAE, METRIC, etc.).

The table on pages 18-22 summarizes the offer in the Stucchi catalog, providing a **complete overview** of the available products, with the characteristics and options that can be ordered.

Special solutions

The **Special Series** section includes products developed for particular applications and it is available on the stucchigroup.com website or through the Stucchi sales network.

In addition to the products in the catalog, Stucchi also offers its customers an advanced **Technical-Commercial support**: thanks to its skills and a customer-oriented discovery approach, many manufacturers choose Stucchi for the conception, design and development of **specific and customized solutions**.



Applications

In the course of its over 60 years of history, Stucchi has developed the most suitable products for each sector of use.

Thanks to the constant collaboration with the main players of each market, it has been able to conceive and design specific solutions that meet the needs of manufacturers and end users.



Earth moving

In this sector, hydraulic circuits must reach particularly high operating standards: high power levels, prolonged contact with debris and dust, and frequent replacement of tools, call for meticulous care in the design of the couplings to ensure maximum operating efficiency, preventing damage to machinery and injury to personnel.



Oil & Gas

The hydraulic circuits in this field must transmit the fluid dynamic power to the machinery required for the exploration, perforation and extraction (upstream), transportation and storage (midstream) of crude oil and natural gas. The upstream sector, where quick couplings are more commonly used, is subject to intense mechanical stress and challenging environmental conditions.



Vehicles

In the Vehicles sector, safety and durability are the keywords because a malfunction could cause serious injuries to staff and damages to property. Heavy vehicles use hydraulic circuits to connect trailers, to steer the wheels and operate suspensions: the ability of the couplings to withstand these demanding applications is essential.



Agriculture

Agricultural machinery requires frequent equipment changeovers to be carried out directly on-site: in these conditions, operations must be carried out quickly and safely to prevent contamination of both the circuit and the soil, which is the most precious resource of this sector.



Hydraulic tools

The need to manage high pressures is combined with the need for tool portability: the hydraulic lines that power tools, such as pneumatic hammers must be available for use in any environment and under any conditions, while maintaining the highest degree of performance and safety.



High pressure

Roadside assistance tools, such as shears, jacks and retractors, require high pressure and frequent connection and disconnection of the lines: in this field of application, the speed of operations can make the difference between life and death.



Refrigeration

Special couplings are used in vehicles air conditioning recharging stations, or in eutectic plates used on insulated vans transporting frozen and fresh products. These fields of use call for specific components, guaranteeing the absence of fluid or gas leaks, which would otherwise cause the machinery to malfunction.



Industry

Machinery which must apply a high force, such as sheet metal shearing systems and hot rolling mills, are powered by hydraulic circuits. In this context it is necessary to be able to remove individual segments for maintenance and inspection purposes, by disconnecting parts of the circuit without stopping the rest of production.



Cooling

Liquid cooling systems offer improved performances and require smaller dimensions compared to air systems: on the other hand, their use with electronic components in systems for rail transport, server-farms, etc. means there must be a total absence of leaks to prevent damage to the entire system.



Chemical & Food Industry

In this sector numerous machines are used that require hydraulic circuits to operate correctly. The absence of leaks is a fundamental requirement for these applications when operating in an environment where the contamination of chemicals or foodstuffs with oil is inadmissible.

FLAT FACE

Stucchi Flat Face quick couplings were developed on the model of the FIRG coupling which in 1998 was one of the references to define the ISO 16028 international standard.

The special configuration of the interface allows connections in total safety, without the inclusion of dirt or air and with fluid losses reduced to a minimum, for greater protection of the working environment.



FIRG



Valving style: Flat face
Interchange: ISO 16028
Sealing: Nitrile NBR
Sizes: From 1/4" to 2"
Operating pressure: Up to 330 bar
Flow rate: Up to 1000 l/min
Material / Treatment: Carbon steel / Cr3

APM



Valving style: Flat face
Interchange: ISO 16028
Sealing: Nitrile NBR
Sizes: From 3/8" to 1-1/2"
Operating pressure: Up to 350 bar
Flow rate: Up to 750 l/min
Material / Treatment: Carbon steel / Cr3
Connection under pressure: One side

A



Valving style: Flat face
Interchange: ISO 16028
Sealing: Nitrile NBR
Sizes: From 1/8" to 1-1/2"
Operating pressure: Up to 420 bar
Flow rate: Up to 750 l/min
Material / Treatment: Carbon steel / Cr3

AX



Valving style: Flat face
Interchange: ISO 16028
Sealing: Nitrile NBR
Sizes: From 1/4" to 1"
Operating pressure: Up to 350 bar
Flow rate: Up to 378 l/min
Material / Treatment: Stainless steel (AISI 316L)

A-HD



Valving style: Flat face
Interchange: ISO 16028
Sealing: Nitrile NBR
Sizes: From 3/8" to 1/2"
Operating pressure: Up to 350 bar
Flow rate: Up to 90 l/min
Material / Treatment: Carbon steel / Cr3
Connection under pressure: One side

FL



Valving style: Flat face
Interchange: ISO 16028
Sealing: FKM (Viton®)
Sizes: From 1/8" to 2"
Operating pressure: Up to 350 bar
Flow rate: Up to 1000 l/min
Material / Treatment: Stainless steel (AISI 316L)

FIRG-Q



Valving style: Flat face
Interchange: ISO 16028
Sealing: Nitrile NBR, FKM (Viton®), DM, Kalrez®
Sizes: From 1/4" to 2"
Operating pressure: Up to 300 bar
Flow rate: Up to 1000 l/min
Material / Treatment: Carbon steel, stainless steel (AISI 316L) / QPQ

FLAT FACE SCREW

Developed by Stucchi designers, these specific couplings are particularly suitable for applications with high stresses and in the presence of residual pressure in the circuit; the characteristic screw closure system allows effortless connections and disconnections, in addition to the advantages of the flat face valve.



VP-P



Valving style: Flat face
Interchange: Stucchi profile
Sealing: Nitrile NBR
Sizes: From 1/4" to 1-1/2"
Operating pressure: Up to 600 bar
Flow rate: Up to 750 l/min
Material / Treatment:
Carbon steel / Cr3, QPQ
Connection under pressure: Allowed

VEP-P



Valving style: Flat face
Interchange: Stucchi profile
Sealing: Nitrile NBR
Sizes: From 1/4" to 2"
Operating pressure: Up to 600 bar
Flow rate: Up to 1000 l/min
Material / Treatment:
Carbon steel / Cr3, QPQ, (Zn-Ni)
Connection under pressure: Allowed

VEP-HD*



Valving style: Flat face
Interchange: Stucchi profile
Sealing: Nitrile NBR
Sizes: From 5/8" to 1-1/2"
Operating pressure: Up to 500 bar
Flow rate: Up to 750 l/min
Material / Treatment:
Carbon steel / QPQ
Connection under pressure: Allowed

* VEP-HDL version with safety cotter pin

MULTICOUPLINGS

Stucchi multicouplings are the ideal solution when there are multiple hydraulic lines to be connected and disconnected in a circuit, allowing you to connect the two parts with great ease and without the aid of tools.

The two plates, one mobile and one fixed, welcome one all the males and the other all the females; thanks to different mechanical systems (lever or cam), the operator can connect or disconnect with a single movement up to 10 hydraulic lines simultaneously.



The main advantages of using Stucchi Multicouplings:

- configuration flexibility
- widest range in the market
- maximum speed of execution
- minimum effort required of the operator
- no risk of wrong connections
- strong and secure connection thanks to the locking mechanisms
- connection and disconnection even in presence of residual pressure
- easy connection even in presence of large lines
- cleaning and safety of the flat face quick couplings
- less wear on the couplings
- possibility to insert electrical connectors

Multicouplings for hydraulic oil circuits

DP

DP is the series of compact manual multicouplings that offers solutions for applications that need to couple and uncouple multiple hydraulic lines in small spaces. Up to four 1/2" lines can be connected and disconnected simultaneously with a safe, simple and fast movement.



Valving style: Flat face
Interchange: Stucchi profile
Sealing: Nitrile NBR
Sizes: From 3/8" to 1"
Flow rate: Up to 378 l/min
Material / Treatment:
Carbon steel, Aluminium / Cr3
Connection under pressure: Allowed

GR

GR is the manual multiconnection series that allows the simultaneous connection and disconnection of up to 10 lines in complete safety, through a fast and effortless movement. The lines can have the same size or each line can be different from the others according to the applications.



Valving style: Flat face
Interchange: Stucchi profile
Sealing: Nitrile NBR
Sizes: From 3/8" to 1"
Flow rate: Up to 378 l/min
Material / Treatment: Carbon steel, Brass / Cr3
Connection under pressure: Allowed

DP and GR plates are designed to be used with specific couplings, which are divided into:

- FAP-ZN (usable with hydraulic oil up to 350 bar and connectable with residual pressure)
- FAP-HD (usable with hydraulic oil up to 700 bar and connectable with residual pressure)
- FAQ (usable with air, water and glycol up to 20 bar)



Multicouplings for water/glycole or air/oil circuits

GRE

The GRE series, with its brass couplings, is designed for hydraulic applications with low oil-water pressure or for pneumatic cooling. Up to 18 lines can be connected and disconnected simultaneously in a safe, simple and quick movement that requires minimal effort.



Valving style: Flat face
Interchange: Stucchi profile
Sealing: Nitrile NBR
Sizes: From 3/8" to 1/2"
Operating pressure: Up to 10 bar
Flow rate: Up to 90 l/min
Material / Treatment: Aluminium



GRE plates mount CS brass couplings, suitable for use with hydraulic oil up to 10 bar, water or air.

Summary table for DP and GR

Name	Family	Total lines	FAP9 (A)	FAP13 (B)	FAP15 (C)	FAP17 (D)	FAP21 (E)	EC*	Previous description	Page
Body size			3/8"	1/2"	5/8"	3/4"	1"	3/8" 1/2"		
Max flow suggested (l/min)			46	90	148	200	378			
Mostly used adaptor (main alternative thread)			3/8" (1/2")	1/2" (3/4")	3/4"	1" (3/4")	1-1/4" (1")			
DP2 2A-1EC	DP	2	2 A					1	DP2-9ZN	30
DP2 2A-2EC V04	DP	2	2 A					2	DP2-9L	32
DP2 2B-1EC	DP	2		2				1	DP2-13ZN	34
DP2 2B-2EC V04	DP	2		2				2	DP2-13L	36
DP2 2C	DP	2			2				DP2-15	38
DP2 2D	DP	2				2			DP2-17ZN	40
DP2 1A-1B	DP	2	1 D	1					DPT2ZN	42
DP3 1A-1B-1EC	DP	3	1 D	1				1**	DPT3ZN	44
DP3 1A-2C-1EC V04	DP	3	1 D		2			1		46
DP3 1C-2E	DP	3			1		2		DP3GE	48
DP3 2A-1EC	DP	3	2 A					1**	DPJ3ZN	50
DP4 4A V02	DP	4	4 A						DP4-9FAZN	50
DP4 4A-2EC	DP	4	4 A					2	DP4-9ZN	52
DP4 4B-2EC	DP	4		4				2	DP4-13ZN	54
DP6 2A-4D-2EC	DP	6	2 D					2	DP6AD	56
GR3 3A-1EC	GR	3	3 A			4		1	GR3-9ZN	58
GR3 3B-1EC	GR	3		3				1	GR3-13ZN	60
GR3 1A-2E-1EC	GR	3	1 D				2	1	GRK3ZN	62
GR3 2B-1C-2EC	GR	3		2	1			2	GRI3	64
GR4 2A-1B-1C-2EC	GR	4	2 D	1	1			2	GRI4SBZN	66
GR4 2A-2B-2EC	GR	4	2 D	2				2	GRB4ZN	68
GR4 2A-1B-1D-2EC	GR	4	2 D	1		1		2	GR4MRZN	70
GR4 2A-1C-1D-2EC	GR	4	2 D		1	1		2	GRI4ZN	72
GR4 2A-2C-2EC	GR	4	2 D		2			2	GRI4TBZN	74
GR5 1A-1B-1C-2D-1EC	GR	5	1 D	1	1	2		1	GRP6ZN	76
GR5 2B-3D-2EC	GR	5		2		3		2	GR5AAZN	78
GR5 3A-1D-1E-2EC	GR	5	3 D			1	1	2	GRD5ZN	80
GR5 2B-2C-1E-2EC	GR	5		2	2		1	2	GRZ5ZN	82
GR5 5C	GR	5			5				GR5-15ZN	84
GR6 6A-2EC	GR	6	6 A					2	GR6-9ZN	86
GR6 4A-2B-2EC	GR	6	4 D	2				2	GRT6ZN	88
GR6 4B-2D-4EC	GR	6		4		2		4	GR6ABZN	90
GR6 2A-2B-2C-2EC	GR	6	2 D	2	2			2	GRM6MCZN	92
GR6 6B-2EC	GR	6		6				2	GR6-13ZN	94
GR6 3A-1B-1C-1D-2EC	GR	6	3 D	1	1	1		2	GRC6ZN	96
GR6 2A-2C-2D-2EC	GR	6	2 D		2	2		2	GRM6ZN	98
GR6 2A-2B-1D-1E-2EC	GR	6	2 D	2		1	1	2	GRU6ZN	100
GR6 2B-4D-2EC	GR	6		2		4		2	GR6LLZN	102
GR6 2A-4C-2EC	GR	6	2 D		4			2	GRM6ALZN	104
GR6 2A-1B-2D-1E-3EC	GR	6	2 D			2	1	2 1	GR6AF	106
GR7 4A-3B-4EC	GR	7	4 D					4	GR7ABZN	108
GR7 4A-3B-4EC V01	GR	7	4 D					4	GR7ABZNLC	108
GRHP7 7A-4EC	GR	7	4 D					4	GR7ACZN	110
			3 HP							
GR7 4A-1B-2D-4EC	GR	7	4 D	1		2		4	GR7AAZN	112
GR8 6A-2B-6EC	GR	8	6 D	2				6	GR8ABZN	114
GR8 7A-1D-7EC	GR	8	7 D			1		7	GR8AAZN	116
GR10 10A-2EC	GR	10	10 D					2	GR10-9LCZN	118
GR10 10A-2EC V01	GR	10	10 D						GR10-9ZNSD	118
GR10 10A-2EC V03	GR	10	10 D						GR10-9ZN	118
GR10 10B-2EC	GR	10		10				2	GR10-13ZN	120

* Electrical Connector instead of hydraulic line

** this line is only dedicated for EC

FAP9 "A" and "D": the version is depending on the type of multicoupling in use.



CASTING

This family of products meets the needs of modern skid steers, summarizing all the experience gained by Stucchi in the management of fluids.

Designed and developed in close collaboration with primary references in the earth-moving sector, they are equipped with a manual drain system that allows connections and disconnections of the power lines in complete safety, even in presence of residual pressure.



SATURN 3 | 3 LINES



Valving style: Flat face
Interchange: ISO 16028
Sealing: Nitrile NBR
Sizes: From 1/2" to 3/4"
Operating pressure: Up to 350 bar
Flow rate: Up to 200 l/min
Material / Treatment: Carbon steel / Cr3
Connection under pressure: One side

SATURN 5 | 5 LINES



Valving style: Flat face
Interchange: ISO 16028
Sealing: Nitrile NBR
Sizes: From 1/2" to 3/4"
Operating pressure: Up to 350 bar
Flow rate: Up to 200 l/min
Material / Treatment: Carbon steel / Cr3
Connection under pressure: One side

POPPET SCREW

All the winning features of Stucchi poppet quick couplings with the addition of the screw system that guarantees greater strength, to withstand heavy situations or with frequent pressure pulses, as well as improved handling during connection and disconnection.



VD



Valving style: Poppet
Interchange: ISO 14541
Sealing: Nitrile NBR
Sizes: From 1/4" to 1-1/4"
Operating pressure: Up to 450 bar
Flow rate: Up to 378 l/min
Material / Treatment: Carbon steel / Cr3
Connection under pressure: One side

VLS



Valving style: Poppet
Interchange: With similar couplings
Sealing: Nitrile NBR
Sizes: From 1/2" to 1"
Operating pressure: Up to 465 bar
Flow rate: Up to 200 l/min
Material / Treatment: Carbon steel / Cr3
Connection under pressure: One side

VOF



Valving style: Poppet
Interchange: "Oil&Gas" couplings
Sealing: Nitrile NBR
Sizes: From 3/4" to 2"
Operating pressure: Up to 345 bar
Flow rate: Up to 1100 l/min
Material / Treatment: Carbon steel / Cr3
Connection under pressure: One side

VOFX



Valving style: Poppet
Interchange: "Oil&Gas" couplings
Sealing: Nitrile NBR
Sizes: From 3/4" to 2"
Operating pressure: Up to 207 bar
Flow rate: Up to 1100 l/min
Material / Treatment: Stainless steel (AISI 316L)
Connection under pressure: One side

VR



Valving style: Non spill flat face
Interchange: "Rohrleitung" couplings
Sealing: Nitrile NBR
Sizes: From 3/8" to 1-1/4"
Operating pressure: Up to 420 bar
Flow rate: Up to 576 l/min
Material / Treatment: Carbon steel / Cr3
Connection under pressure: One side

POPPET

Designed according to the ISO 7241-A and ISO 7241-B international standards, the Stucchi poppet couplings have been used for decades all over the world for their construction quality, durability and ease of use.

They are available with different materials, gaskets and seals, to meet the multiple needs of the sectors in which they are used.



BIR

Valving style: Poppet
Interchange: ISO 7241 A
Sealing: Nitrile NBR
Sizes: From 1/4" to 2"
Operating pressure: Up to 350 bar
Flow rate: Up to 1000 l/min
Material / Treatment:
Carbon steel / Cr3
Connection under pressure:
Only BIR-PC version



I/IP

Valving style: Poppet
Interchange: ISO 7241 A
Sealing: Nitrile NBR
Sizes: From 1/4" to 1"
Operating pressure: Up to 350 bar
Flow rate: Up to 200 l/min
Material / Treatment:
Carbon steel / Cr3



IR

Valving style: Ball
Interchange: With similar couplings
Sealing: Nitrile NBR
Sizes: From 1/4" to 1"
Operating pressure: Up to 300 bar
Flow rate: Up to 150 l/min
Material / Treatment:
Carbon steel / Cr3



IR-V

Valving style: Poppet
Interchange: With similar couplings
Sealing: Nitrile NBR
Sizes: From 1/4" to 1"
Operating pressure: Up to 300 bar
Flow rate: Up to 200 l/min
Material / Treatment: Carbon steel / Cr3



IFR

Valving style: Non spill flat face
Interchange: ISO 5676
Sealing: Nitrile NBR
Sizes: 3/8"
Operating pressure: Up to 150 bar
Flow rate: Up to 46 l/min
Material / Treatment:
Carbon steel / Cr3



IRC

Valving style: Poppet
Interchange: "Nordic" couplings
Sealing: Nitrile NBR
Sizes: From 1/4" to 1"
Operating pressure: Up to 450 bar
Flow rate: Up to 378 l/min
Material / Treatment:
Carbon steel / ZnNi
Connection under pressure:
Only IRC-PC version



IRCX

Valving style: Poppet
Interchange: "Nordic" couplings
Sealing: FKM (Viton®)
Sizes: From 1/4" to 1"
Operating pressure: Up to 300 bar
Flow rate: Up to 378 l/min
Material / Treatment:
Stainless steel (AISI 316L)



IRB

Valving style: Poppet
Interchange: ISO 7241 B
Sealing: Nitrile NBR
Sizes: From 1/8" to 1"
Operating pressure: Up to 350 bar
Flow rate: Up to 200 l/min
Material / Treatment:
Carbon steel / Cr3



IRBO

Valving style: Poppet
Interchange: ISO 7241 B
Sealing: FKM (Viton®)
Sizes: From 1/8" to 1"
Operating pressure: Up to 200 bar
Flow rate: Up to 200 l/min
Material / Treatment: Brass



IRBX

Valving style: Poppet
Interchange: ISO 7241 B
Sealing: FKM (Viton®)
Sizes: From 1/8" to 1"
Operating pressure: Up to 250 bar
Flow rate: Up to 200 l/min
Material / Treatment:
Stainless steel (AISI 316L), Brass



HIGH PRESSURE

Stucchi products dedicated to hydraulic applications that operate with pressures up to 700 bar are built with very high resistance carbon steel, to guarantee connections in total safety.



A-HP



Valving style: Flat face
Interchange: Stucchi profile
Sealing: Nitrile NBR
Sizes: From 1/8" to 3/8"
Operating pressure: Up to 700 bar
Flow rate: Up to 46 l/min
Material / Treatment: Carbon steel / Cr3

IV-HP



Valving style: Ball
Interchange: With similar couplings
Sealing: Nitrile NBR
Sizes: From 1/4" to 3/8"
Operating pressure: Up to 700 bar
Flow rate: Up to 23 l/min
Material / Treatment: Carbon steel / Cr3

CHECK VALVE

VUZ galvanized check valves are safe, compact, suitable for any hydraulic system that uses non-corrosive fluids. They are also available in the VU version with dark phosphating treatment.



VUZ

Sizes: From 1/8" to 2"
 Operating pressure: Up to 400 bar
 Flow rate: Up to 1000 l/min
 Material / Treatment: Carbon steel / Cr3








VEHICLE A/C

Thanks to its long experience in the sector, the ACR-ACB series is the Stucchi solution for recharging air conditioning used in the automotive sector. It is made of anodized aluminum with special HNBR seals.



ACR-ACB

Valving style: Poppet
 Interchange: SAE J639
 Sealing: HNBR
 Sizes: 1/4"
 Operating pressure: Up to 10 bar
 Material / Treatment: Aluminium, Brass

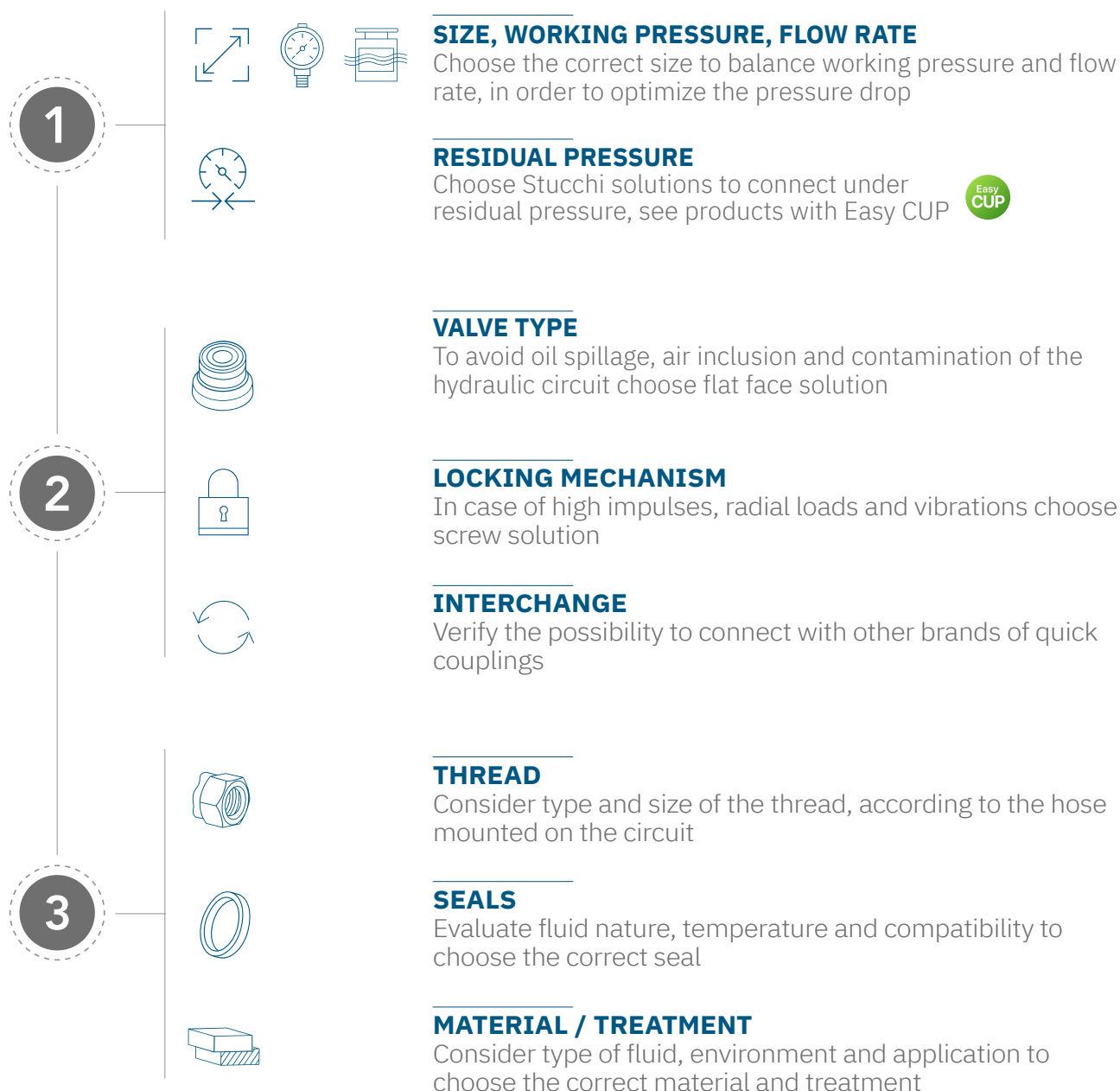
Family		Flat face						
SERIES	TECHNICAL FEATURES	FIRG 	A 	APM 	A-HD 	AX 	FIRG-Q 	FL 
Interchange	ISO and/or reference markets	ISO 16028	ISO 16028	ISO 16028	ISO 16028	ISO 16028	ISO 16028	ISO 16028
Valve Style	Flat face	✓	✓	✓	✓	✓	✓	✓
	Non spill flat face							
	Ball							
	Poppet							
Connection / Disconnection system	Pushing/Pulling the sleeve	✓	✓	✓	✓	✓	✓	✓
	Single active sleeve							
	Push-Pull*							
	Screw							
	Lever/Knob							
	By Multicoupling							
Locking mechanism	Locking ball	✓	✓	✓	✓	✓	✓	✓
	Screw							
	Pin/Cam							
	Safety lock	✓	✓		✓	✓	✓	✓
Connection Under residual Pressure	One side			✓	✓			
	Both sides							
	With Easy CUP**			✓				
	Disconnection							
Material	Carbon steel	✓	✓	✓	✓		✓	
	Stainless steel					✓	✓	✓
	Aluminium							
	Brass							
Treatment	Zn-Ni		(✓)					
	Cr3	✓	✓	✓	✓			
	QPQ						✓	
	Other							
Standard seal (others upon request)	Nitrile NBR	✓	✓	✓	✓		✓	
	FKM (Viton®)					✓	✓	✓
	EPDM						✓	
	HNBR							
Fluid type (with standard seal)	Hydraulic oil	✓	✓	✓	✓	✓	✓	✓
	Water, Water&Glycol						✓	
	Freon gas							
Threads available (others upon request)	BSP	✓	✓	✓	✓	✓	✓	✓
	NPT	✓	✓	✓	✓		✓	✓
	SAE	✓	✓	✓	✓			✓
	METRIC		✓			✓		
	Other	✓	✓					
Sizes / Performances Max. operating pressure (bar) Max suggested flow (l/min)	1/8"		$\frac{420}{6}$					$\frac{350}{6}$
	1/4"	$\frac{300}{24}$	$\frac{420}{24}$				$\frac{300}{24}$	$\frac{350}{24}$
	3/8"	$\frac{300}{46}$	$\frac{350}{46}$	$\frac{350}{46}$	$\frac{350}{46}$	$\frac{350}{46}$	$\frac{300}{46}$	$\frac{350}{46}$
	1/2"	$\frac{250}{90}$	$\frac{330}{90}$	$\frac{330}{90}$	$\frac{330}{90}$	$\frac{330}{90}$	$\frac{250}{90}$	$\frac{350}{90}$
	5/8"	$\frac{250}{148}$	$\frac{330}{148}$	$\frac{330}{148}$			$\frac{250}{148}$	$\frac{350}{148}$
	3/4"	$\frac{330}{200}$	$\frac{330}{200}$	$\frac{330}{200}$		$\frac{330}{200}$	$\frac{250}{200}$	$\frac{330}{200}$
	1"	$\frac{250}{378}$	$\frac{300}{378}$	$\frac{300}{378}$		$\frac{300}{378}$	$\frac{250}{378}$	$\frac{280}{378}$
	1-1/4"		$\frac{300}{450}$					
	1-1/2"	$\frac{200}{750}$	$\frac{270}{750}$	$\frac{270}{750}$			$\frac{200}{750}$	$\frac{230}{750}$
	2"	$\frac{200}{1000}$					$\frac{200}{1000}$	$\frac{150}{1000}$
Typical applications	Earth moving	✓	✓	✓	✓			
	Oil&Gas	✓	✓	✓	✓	✓	✓	✓
	Vehicles	✓	✓	✓	✓			
	Agriculture	✓	✓	✓	✓			
	Industry	✓	✓	✓	✓	✓	✓	✓
	Hydraulic tools	✓	✓	✓	✓			
	High pressure							
	Refrigeration					✓		✓
	Cooling						✓	
	Chemical&Food industry					✓	✓	✓

How to choose a quick coupling?

Stucchi offers a complete selection of quick disconnect couplings ranging from 1/8" to 2", able to operate with working pressures up to 700 bar. Products are available in different materials and port configurations. This variety of quick couplings covers main international interchangeabilities and includes several Stucchi solutions.

It is important to select the correct quick coupling for the hydraulic system it has to be fitted on: here some guidelines to identify the proper Stucchi product.

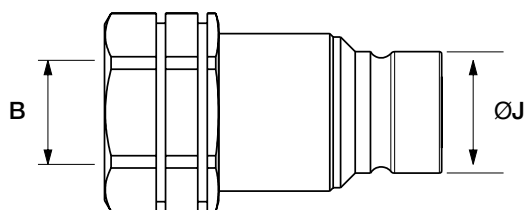
You can find all the explanatory tables in the catalog or on the stucchigroup.com website.



DIMENSION

Comparative table of the measures of the flat face couplings

Body size	ISO size	Port size B	Diameter J (mm)	A series	FIRG series OLD name	FIRG series NEW name
1/8"	(4)	1/8"	11.6	A4	use A4	use A4
1/4"	6.3	1/4"	16.1	A7	FIRG 14	FIRG7
3/8"	10	3/8"	19.7	A9	FIRG 38	FIRG9
3/8"	10	1/2"	19.7	A9	FIRG 12	FIRG9
1/2"	12.5	1/2"	24.5	A13	FIRG 12A	FIRG13
1/2"	12.5	3/4"	24.5	A13	FIRG 34	FIRG13
5/8"	16	3/4"	27.0	A15	FIRG 34B	FIRG15
3/4"	19	3/4"	30.0	A17	FIRG 34A	FIRG17
3/4"	19	1"	30.0	A17	FIRG 100	FIRG17
1"	25	1"	36.0	A21	use A21	use A21
1"	25	1"-1/4"	36.0	A21	FIRG 114	FIRG21
1-1/4"	(31.5)	1"	44.0	A25	use A25	use A25
1-1/4"	(31.5)	1"-1/4"	44.0	A25	use A25	use A25
1-1/2"	(40)	1"-1/2"	57.0	A30	FIRG 112	FIRG30
2"	(50)	2"	73.0	use FIRG200 / FIRG45	FIRG 200	FIRG45



THREADS

These are the main international standards for hydraulic fittings



BSP
British
Standard
Pipe



NPT
National
Pipe
Thread



SAE
Society
Automotive
Engineer



ISO
International
Organization for
Standardization



JIS
Japanese
Industrial
Standard



ORFS
O-Ring
Face
Seal



JIC, UN
Joint Industrial
Council,
Unified National



DIN
Deutsches
Institut für
Normung

SEALINGS

Temperature: in the chart the temperature range for each of the main sealings used

Range in Celsius (°C)		Range in Fahrenheit (°F)
-20 > +100	NBR (Nitrile)	-4 > +212
-15 > +180	FKM (Viton®)	+5 > +356
-40 > +150	EPDM (Ethylene Propylene)	-40 > +302
-25 > +300	KALREZ	-13 > +572
-30 > +130	HNBR	-22 > +266
-50 > +150	FLUOROSILICON	-58 > +302
-50 > +150	SILICON	-58 > +302
-40 > +100	NEOPRENE	-40 > +212
-50 > +180	PTFE Teflon®	-58 > +356

Fluids: in the chart you can see which fluids can be used with main sealings

Material	Compatibility
Nitrile NBR	Mineral oils and grease (ok for water/glycol max 60°C)
FKM (Viton®)	Mineral oils and grease (not compatible with water & glycol)
EPDM (Ethylene Propylene)	Water Water & Glycol with no contamination This elastomer must not come in contact with mineral oils or grease!



Hydraulic oil



Water



Others

⚠ WARNING

It is **MANDATORY** to read and closely follow the instructions.
Last updated version always apply at time of installation; see latest written Instructions on Stucchi website (www.stucchigroup.com) before selecting or using Stucchi products.
Stucchi SpA reserves the right to modify the information and data contained in this document at any time and without notice.

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