

Applications



The strength that distinguishes Stucchi in the market is a “constant flow of solutions” in the development, manufacturing and distribution of products for fluid connections and control.

The vision that drives us towards the future is to be recognized by our customers as the supplier of choice for fluid power products and solutions that are easy to use, safe, durable, environmentally friendly and that help in saving energy. Following these principles Stucchi offers solutions that cover a wide range of applications constantly ensuring the quality of products.



Oil&Gas

Stucchi couplings are used in exploration, extraction, field services (upstream), storage and conveyance (downstream) of crude oil and natural gas.



Industry

Stucchi couplings are present on machineries and systems used for industrial manufacturing and applications.



Earth Moving

Stucchi couplings are suitable for systems and products related with controlling mobile equipment used in off-highway applications. Stucchi products have been successfully proven for years in heavy duty applications and in connect under pressure conditions.



Hydraulic Equipment

Stucchi couplings are suitable for machineries and systems related to various hydraulic equipment, such as machine tools and automation, measurement and control and for powered hand tools.



Vehicles

Stucchi couplings are present on vehicles hydraulic applications systems, to connect different tools or trailers. Stucchi products are particularly appreciated by body manufacturers for their high performances and for their ability to withstand heavy duty applications.

Agriculture

From conventional ‘poppet design’ profile to flat face and multi couplings, Stucchi products are present on agricultural machines and attachments.



High Pressure

Stucchi couplings are present on systems associated with high pressure applications; not only on jacks, ram or clamping devices but also on rescue equipment.



Cooling

Stucchi couplings are used on machineries for cooling of systems with water or water glycol.



Refrigeration

Stucchi couplings are present on systems associated with vehicles refrigeration (A/C recharge) and isothermal bodies through low temperature eutectic plates.



Chemical & Food Industry

Stucchi couplings are used in chemical applications where flow performances associated with non-spill design allows to increase system specifications and to protect the environment.



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For complete technical information see www.stucchi.it or contact info@stucchi.it - STUCCHI S.p.A. - January 2016 - All right reserved. (Quick Couplings Directory - EN)



QUICK COUPLINGS

DIRECTORY

a constant flow of solutions



Stucchi is a recognized global leader in the design and manufacturing of quick coupling products providing a variety of sizes and port configurations from 1/8" to 2" sizes to accommodate a wide field of application requirements.

Pressure capabilities extend to 700 bar working pressure; port configurations include BSP, NPT, SAE and metric standard.

Materials range from brass to 316 stainless steel; port configurations ranging from 1/8" to 2" in dimensions to accommodate a wide range of application requirements.

Its solutions-based approach meets the demanding requirements for applications across multiple markets.

Product quality assurance is documented throughout the company's supply chain, beginning with raw materials certifications, ongoing improvements in production materials, automation of production, fatigue testing, pressure-testing parts prior to shipping, and an ISO quality-management system.



ISO16028
FIRG SERIES


Valving style: **Flat face**
Interchange: **ISO 16028 and NFPA T3.20.15 HTMA (size 3/8")**
Available sizes: **From 1/4" to 2"**
Operating pressure: **Up to 300 bar**
Flow rate: **Up to 1000 L/Min**
Material: **High strength carbon steel**
Connection system: **Push**
Connection under pressure: **Not allowed**
Typical use: **Outdoor**

FIRG-Q SERIES


Valving style: **Flat face**
Interchange: **ISO 16028 and NFPA T3.20.15 HTMA (size 3/8")**
Available sizes: **From 1/4" to 2"**
Operating pressure: **Up to 300 bar**
Flow rate: **Up to 1000 L/Min**
Material: **Internal parts in stainless steel**
Connection system: **Push**
Connection under pressure: **Not allowed**
Typical use: **Indoor & Outdoor**

AX SERIES


Valving style: **Flat face**
Interchange: **ISO 16028 and NFPA T3.20.15 HTMA (size 3/8")**
Available sizes: **From 1/4" to 1"**
Configuration: **Modular construction**
Operating pressure: **Up to 350 bar**
Flow rate: **Up to 378 L/Min**
Material: **Stainless steel (AISI 316L)**
Connection system: **Push**
Connection under pressure: **Not allowed**
Typical use: **Indoor & Outdoor**

A-HD SERIES


Valving style: **Flat face**
Interchange: **ISO 16028 and NFPA T3.20.15 HTMA (size 3/8")**
Available sizes: **From 3/8" to 1/2"**
Operating pressure: **Up to 350 bar**
Flow rate: **Up to 90 L/Min**
Material: **High strength carbon steel**
Connection system: **Push**
Connection under pressure: **Female side, other side to drain**
Typical use: **Outdoor**

A SERIES


Valving style: **Flat face**
Interchange: **ISO 16028 and NFPA T3.20.15 HTMA (size 3/8")**
Available sizes: **From 1/8" to 1-1/2"**
Configuration: **Modular construction**
Operating pressure: **Up to 420 bar**
Flow rate: **Up to 750 L/Min**
Material: **High strength carbon steel**
Connection system: **Push**
Connection under pressure: **Not allowed**
Typical use: **Outdoor**

FL SERIES


Valving style: **Flat face**
Interchange: **ISO 16028 and NFPA T3.20.15 HTMA (size 3/8")**
Available sizes: **From 1/8" to 2"**
Operating pressure: **Up to 350 bar**
Flow rate: **Up to 1000 L/Min**
Material: **Stainless steel (AISI 316L)**
Connection system: **Push**
Connection under pressure: **Not allowed**
Typical use: **Indoor & Outdoor**

APM SERIES


Valving style: **Flat face**
Interchange: **ISO 16028 and NFPA T3.20.15 HTMA (size 3/8")**
Available sizes: **From 3/8" to 1-1/2"**
Operating pressure: **Up to 350 bar**
Flow rate: **Up to 750 L/Min**
Material: **High strength carbon steel**
Connection system: **Push**
Connection under pressure: **Male side, other side to drain**
Typical use: **Outdoor**

SATURN SERIES


Valving style: **Flat face**
Interchange: **ISO 16028 (for the couplings)**
Available sizes: **From 1/2" to 3/4"**
Operating pressure: **Up to 350 bar**
Flow rate: **Up to 200 L/Min**
Material: **High strength carbon steel**
Connection system: **Push**
Connection under pressure: **One side + disconnection allowed (using Knob)**
Typical use: **Outdoor**

STUCCHI SOLUTIONS
VEP-P SERIES


Valving style: **Flat face**
Interchange: **Stucchi profile**
Available sizes: **From 1/4" to 2"**
Operating pressure: **Up to 600 bar**
Flow rate: **Up to 1000 L/Min**
Material: **High strength carbon steel**
Connection system: **Screw**
Connection under pressure: **Both side, easy connection + disconnection allowed**
Typical use: **Outdoor**

VEP-HD SERIES


Valving style: **Flat face**
Interchange: **Stucchi profile**
Available sizes: **From 3/4" to 1-1/2"**
Operating pressure: **Up to 500 bar**
Flow rate: **Up to 750 L/Min**
Material: **High strength carbon steel**
Connection system: **Screw**
Connection under pressure: **Both side, easy connection + disconnection allowed**
Typical use: **Outdoor (Heavy duty)**

VP-P SERIES


Valving style: **Flat face**
Interchange: **Stucchi profile**
Available sizes: **From 1/4" to 1-1/2"**
Operating pressure: **Up to 600 bar**
Flow rate: **Up to 750 L/Min**
Material: **High strength carbon steel**
Connection system: **Screw**
Connection under pressure: **Both side, easy connection + disconnection allowed**
Typical use: **Outdoor**

HIGH PRESSURE
A-HP SERIES

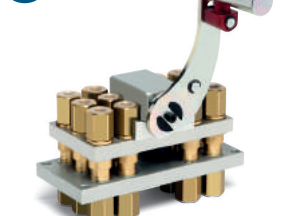

Valving style: **Flat face**
Interchange: **Stucchi profile (High Pressure)**
Available sizes: **From 1/8" to 3/8"**
Operating pressure: **Up to 720 bar**
Flow rate: **Up to 46 L/Min**
Material: **High strength carbon steel**
Connection system: **Push**
Connection under pressure: **Not allowed**
Typical use: **Outdoor**

MULTICOUPLINGS
DP SERIES


Valving style: **Flat face**
Interchange: **Stucchi interface**
Available sizes: **From 3/8" to 3/4"**
Operating pressure: **Up to 350 bar**
Flow rate: **Up to 378 L/Min**
Material: **Aluminium & high strength carbon steel**
Connection system: **Lever**
Connection under pressure: **Both side, easy connection**
Typical use: **Outdoor**

GR SERIES


Valving style: **Flat face**
Interchange: **Stucchi interface**
Available sizes: **From 3/8" to 1"**
Operating pressure: **Up to 350 bar**
Flow rate: **Up to 378 L/Min**
Material: **Brass & high strength carbon steel**
Connection system: **Lever**
Connection under pressure: **Both side, easy connection**
Typical use: **Outdoor**

GRE SERIES


Valving style: **Flat face**
Interchange: **Stucchi interface**
Available sizes: **From 3/8" to 1/2"**
Operating pressure: **Up to 10 bar**
Flow rate: **Up to 90 L/Min**
Material: **Aluminium & brass**
Connection system: **Lever**
Typical use: **Indoor**

IV-HP SERIES


Valving style: **Ball**
Interchange: **Similar Couplings**
Available sizes: **From 1/4" to 3/8"**
Operating pressure: **Up to 700 bar**
Flow rate: **Up to 23 L/Min**
Material: **High strength carbon steel**
Connection system: **Screw**
Connection under pressure: **Not allowed**
Typical use: **Outdoor**

ISO B
IRB SERIES


Valving style: **Poppet**
Interchange: **ISO 7241-1 B**
Available sizes: **From 1/8" to 1"**
Operating pressure: **Up to 350 bar**
Flow rate: **Up to 200 L/Min**
Material: **High strength carbon steel**
Connection system: **Single acting sleeve**
Connection under pressure: **Not allowed**
Typical use: **Indoor & Outdoor**

IRBX SERIES


Valving style: **Poppet**
Interchange: **ISO 7241-1 B**
Available sizes: **From 1/8" to 1"**
Operating pressure: **Up to 250 bar**
Flow rate: **Up to 200 L/Min**
Material: **Stainless steel (AISI 316L)**
Retainer in brass
Connection system: **Single acting sleeve**
Connection under pressure: **Not allowed**
Typical use: **Indoor & Outdoor**

IRBO SERIES


Valving style: **Poppet**
Interchange: **ISO 7241-1 B**
Available sizes: **From 1/8" to 1"**
Operating pressure: **Up to 200 bar**
Flow rate: **Up to 200 L/Min**
Material: **Brass**
Connection system: **Single acting sleeve**
Connection under pressure: **Not allowed**
Typical use: **Indoor**

CHECK VALVES
VUZ SERIES


Valving style: **Check valves**
Available sizes: **From 1/8" to 2"**
Standard cracking pressure: **Up to 4,5 bar**
Flow rate: **Up to 1000 L/Min**
Material: **High strength carbon steel**
Typical use: **Outdoor**

ISO A
BIR SERIES


Valving style: **Poppet**
Interchange: **ISO 7241-1 A**
Available sizes: **From 1/4" to 2"**
Operating pressure: **Up to 350 bar**
Flow rate: **Up to 1000 L/Min**
Material: **High strength carbon steel**
Connection system: **Single acting sleeve**
Connection under pressure: **One side with PC version**
Typical use: **Outdoor**

I/IP SERIES


Valving style: **Poppet**
Interchange: **ISO 7241-1 A**
Available sizes: **From 1/4" to 1"**
Configuration: **Modular construction**
Operating pressure: **Up to 350 bar**
Flow rate: **Up to 200 L/Min**
Material: **High strength carbon steel**
Connection system: **Push-pull**
Connection under pressure: **Not allowed**
Typical use: **Outdoor**

IR/IR-V SERIES


Valving style: **Ball/Poppet**
Interchange: **Similar couplings + IR V + ISO 7241-1 "A" size 1/2" only**
Available sizes: **From 1/4" to 1"**
Operating pressure: **Up to 300 bar**
Flow rate: **Up to 200 L/Min**
Material: **High strength carbon steel**
Connection system: **Single active sleeve**
Connection under pressure: **Not allowed**
Typical use: **Outdoor**

VEHICLE A/C
ACR-ACB SERIES


Valving style: **Poppet**
Interchange: **SAE J639**
Operating pressure: **Up to 41 bar**
Material: **Brass/Aluminum**
Connection system: **Push - screw**
Connection under pressure: **Not allowed**
Typical use: **Indoor**

OTHER INTERCHANGES
VD SERIES


Valving style: **Poppet**
Interchange: **ISO14541**
Available sizes: **From 1/4" to 1-1/4"**
Operating pressure: **Up to 450 bar**
Flow rate: **Up to 378 L/Min**
Material: **High strength carbon steel**
Connection system: **Screw**
Connection under pressure: **One side**
Typical use: **Outdoor**

VOF SERIES


Valving style: **Poppet**
Interchange: **Similar Couplings (Oil & Gas)**
Available sizes: **From 3/4" to 2"**
Operating pressure: **Up to 345 bar**
Flow rate: **Up to 1100 L/Min**
Material: **High strength carbon steel**
Connection system: **Screw**
Connection under pressure: **One side**
Typical use: **Outdoor**

IRC SERIES


Valving style: **Poppet**
Interchange: **similar couplings (Nordic interface)**
Available sizes: **From 1/4" to 1"**
Operating pressure: **Up to 600 bar**
Flow rate: **Up to 378 L/Min**
Material: **High strength carbon steel**
Connection system: **Single acting sleeve**
Connection under pressure: **One side with PC version**
Typical use: **Outdoor**

VR SERIES


Valving style: **Flat face limited spill**
Interchange: **Similar Couplings (Rohrleitung)**
Available sizes: **From 3/8" to 1-1/4"**
Operating pressure: **Up to 420 bar**
Flow rate: **Up to 576 L/Min**
Material: **High strength carbon steel**
Connection system: **Screw**
Connection under pressure: **One side**
Typical use: **Outdoor**

VLS SERIES


Valving style: **Poppet**
Interchange: **Similar Couplings**
Available sizes: **From 1/2" to 1"**
Operating pressure: **Up to 465 bar**
Flow rate: **Up to 200 L/Min**
Material: **High strength carbon steel**
Connection system: **Screw**
Connection under pressure: **One side**
Typical use: **Outdoor**

VOFX SERIES


Valving style: **Poppet**
Interchange: **Similar Couplings (Oil & Gas)**
Available sizes: **From 3/4" to 2"**
Operating pressure: **Up to 207 bar**
Flow rate: **Up to 1100 L/Min**
Material: **Stainless steel (AISI 316L)**
Connection system: **Screw**
Connection under pressure: **One side**
Typical use: **Outdoor**

IRCX SERIES


Valving style: **Poppet**
Interchange: **With similar product (Nordic interface)**
Available sizes: **From 1/4" to 1"**
Operating pressure: **Up to 300 bar**
Flow rate: **Up to 378 L/Min**
Material: **Stainless steel (AISI 316L)**
Connection system: **Single acting sleeve**
Connection under pressure: **Not allowed**
Typical use: **Outdoor**

IFR SERIES


Valving style: **Flat face**
Interchange: **ISO 5676**
Available sizes: **3/8"**
Operating pressure: **Up to 150 bar**
Flow rate: **Up to 23 L/Min**
Material: **High strength carbon steel**
Connection system: **Single acting sleeve**
Connection under pressure: **Not allowed**
Typical use: **Outdoor**



Easy connection is the Stucchi solution for manual connection with residual pressure in the circuit. The male couplings have a triple valve system: double internal pressure release valve and a flat face valve. This system easily allows connection of couplings with internal high residual pressure in safe condition and without fluid loss.



Specific dimensions of Stucchi VEP-P, VP-P, VOF and VOFX series are fire tested and Lloyd certified in accordance with API 16D and the EUB Directive #36. For complete technical information please contact Stucchi technical support.

WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects. Connect under pressure products are suitable to be connected under residual (static) pressure. Never connect or disconnect with dynamic pressure (e.g. pump on). Make sure that the medium used is compatible with seal and material as indicated for each series. In case of doubt please contact Stucchi Technical Support. The interchangeability is mentioned under the assumption that the manufacturer of the considered products has not changed any dimension.

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.stucchi.it) before selecting or using Stucchi products.