

STUCCHI

Quick Couplings

High Pressure



HYDRAULIC  
COMPONENTS  
& FLUID CONTAMINATION  
CONTROL



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# A-HP SERIES

INTERCHANGE > Stucchi profile



Stucchi®



## TECHNICAL FEATURES AND OPTIONS



### Interchange

Stucchi profile



### Sealing description

Nitrile NBR



### Connection system

Push



### Available sizes

from 1/8" to 3/8"



### Material/treatment

Carbon steel /Cr3



### Available threads

BSP - NPT



### Operating pressure

Up to 700 bar



### Locking mechanism

Locking Ball + Safety sleeve



### Flow rate

Up to 46 l/min



### Temperature (°C)

-20°C / +100°C



### Valving style

Flat face



### Connection under pressure

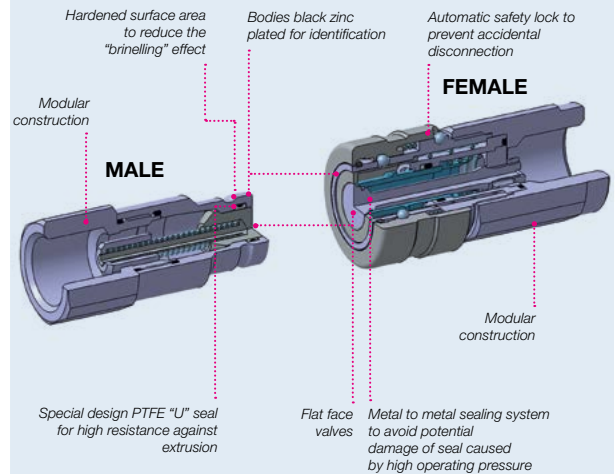
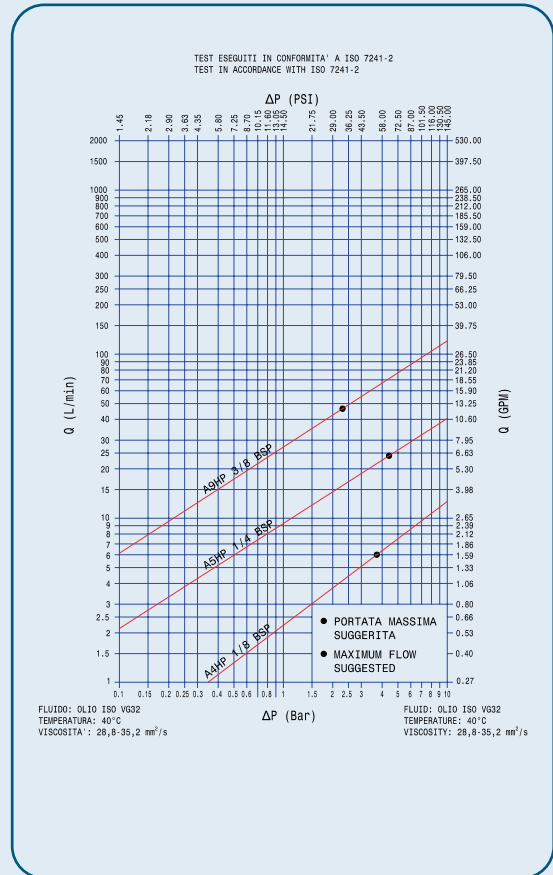
Connection: not allowed  
Disconnection: not allowed

## BENEFITS

- Flat face is easy to clean, reducing the inclusion of contamination inside the hydraulic circuit.
- Minimal fluid spillage during disconnection, reducing fluid spillage to the environment.
- Minimal air inclusion during disconnection.
- Internal design reduces pressure drop, increasing circuit efficiency.
- Automatic safety lock to prevent accidental disconnection.  
This safety feature is very important mainly for the rescue equipment.
- The modular structure allows broad range of port configurations.
- Compact slim design.
- Safe and simple to use.

## HOW TO USE

- Before to connect, clean the mating surface of the couplings to avoid dirt inclusion in the circuit.
- To connect push the male half towards the female half or vice versa until the coupler sleeve clicks.
- Upon connection the safety sleeve automatically rotates engaging the safety lock mechanism. In this safety lock position the coupling cannot be disconnected until the operator aligns the sleeve in the proper position (safety locking ball aligned with the notch in the coupler sleeve).
- To disconnect turn the external sleeve until the stop and push back the sleeve.



## MAIN APPLICATIONS



Agriculture



Oil & Gas



Industry



High Pressure



Cooling



Refrigeration



Earth Moving



Vehicles



Hydraulic Equipment



Chemical & Food Industry

HIGH PRESSURE

## PERFORMANCES

Size	Series/Size	Max. flow suggested		Connect force		Disconnect force		Spillage*
		l/min	gpm	N	lbf	N	lbf	
1/8	A4HP	6	1,59	95	21,38	40	9,00	0,04
1/4	A5HP	24	6,36	125	28,13	45	10,13	0,02
3/8	A9HP	46	12,19	205	46,13	50	11,25	0,02

Size	Series/Size	Max. operating pressure						Burst pressure					
		Coupled		Male		Female		Coupled		Male		Female	
in		MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
1/8	A4HP	70	10150	70	10150	70	10150	160	23200	160	23200	160	23200
1/4	A5HP	70	10150	70	10150	50	7250	200	29000	200	29000	150	21750
3/8	A9HP	70	10150	70	10150	42	6090	180	26100	200	29000	125	18125

\* Spillage is an indicative value of the fluid loss during disconnection (according to ISO norm test method).

### Different possible configurations:

Different threads available upon request.

### Temperature range:

Standard seals NBR (Nitrile): from -20 °C to +100 °C (from -4 °F to +212 °F). Please read carefully Instructions and warnings for proper selection of the products.

### Tests:

The couplings have been tested at impulse with max. operating pressure for pressure for 100.000 impulses according to ISO norm test method. A4HP has been tested for 10.000 impulses.



## WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.

Never connect or disconnect with dynamic pressure (e.g. pump on).

Do not use the female coupling disconnected with high impulse pressure.

Do not couple-uncouple with flow and/or pressure in the circuit.

Do not couple-uncouple when the temperature inside of the circuit is higher than 80 °C (176 °F).

Check the maximum allowable working pressure of the port in use.

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.

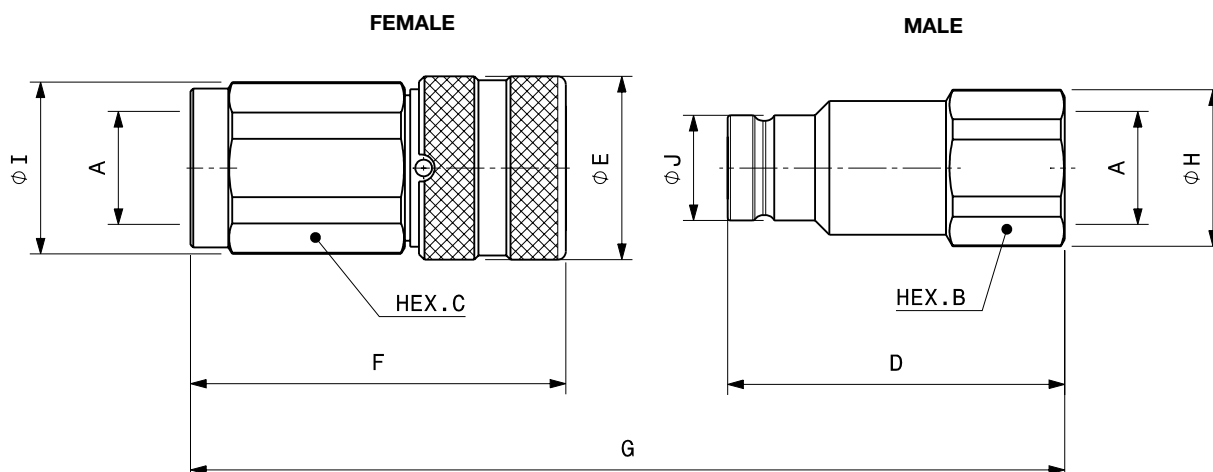
The interchangeability is mentioned under the assumption that the manufacturer of the considered products has not changed any dimension.

**It is mandatory to carefully read and closely follow the instructions before selecting or using any Stucchi products.**

**Always refer to the version uploaded in the Instructions and warning section of [stucchigroup.com](http://stucchigroup.com) website for the latest release.**

**For specific, product-related, instructions, please contact Stucchi technical service.**

## OVERALL DIMENSIONS



### Port description: FEMALE THREAD NPT (ANSI B.1.20.1)

BODY SIZE	Descriptive Code	Item Code		PORT (A)	Overall Length		Length		Hex		Diameter		Diameter		Weight						
					mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb					
1/8"	F A4HP 1/8 NPT	Female	801601014	1/8"	G	72,3	2,85	F	44,0	1,73	C	17,0	0,67	I	21,8	0,86	E	22,0	0,87	0,09	0,20
	M A4HP 1/8 NPT	Male	801601015					D	36,2	1,43	B	17,0	0,67	H	18,5	0,73	J	12,0	0,47	0,04	0,09
1/4"	F A5HP 1/4 NPT	Female	801601004	1/4"	G	94,9	3,74	F	58,0	2,28	C	22,0	0,87	I	29,0	1,14	E	29,0	1,14	0,21	0,45
	M A5HP 1/4 NPT	Male	801601005					D	47,9	1,89	B	22,0	0,87	H	23,8	0,94	J	16,5	0,65	0,09	0,20
1/4"	F A5HP 3/8 NPT	Female	801601008	3/8"	G	103,9	4,09	F	60,0	2,36	C	24,0	0,94	I	29,0	1,14	E	29,0	1,14	0,21	0,46
	M A5HP 3/8 NPT	Male	801601009					D	54,9	2,16	B	24,0	0,94	H	26,0	1,02	J	16,5	0,65	0,11	0,24
3/8"	F A9HP 3/8 NPT	Female	801601010	3/8"	G	108,8	4,28	F	64,6	2,54	C	30,0	1,18	I	32,0	1,26	E	34,0	1,34	0,32	0,71
	M A9HP 3/8 NPT	Male	801601011					D	60,0	2,36	B	27,0	1,06	H	29,0	1,14	J	19,5	0,77	0,15	0,34
3/8"	F A9HP 1/2 NPT	Female	801601012	1/2"	G	116,3	4,58	F	69,6	2,74	C	30,0	1,18	I	32,0	1,26	E	34,0	1,34	0,31	0,68
	M A9HP 1/2 NPT	Male	801601013					D	62,5	2,46	B	27,0	1,06	H	29,0	1,14	J	19,5	0,77	0,14	0,32





# IV-HP SERIES

INTERCHANGE > with similar couplings (High Pressure)



Stucchi®



## TECHNICAL FEATURES AND OPTIONS



**Interchange**  
ISO 14540  
(High Pressure)



**Sealing description**  
Nitrile NBR



**Connection system**  
Screw



**Available sizes**  
from 1/4" to 3/8"



**Material /treatment**  
Carbon steel /Cr3



**Available threads**  
NPT



**Operating pressure**  
Up to 700 bar



**Locking mechanism**  
Screw to connect



**Flow rate**  
Up to 23 l/min



**Temperature (°C)**  
-20°C / +100°C



**Valving style**  
Ball



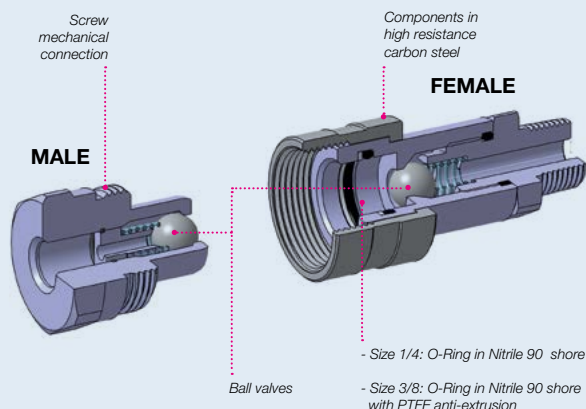
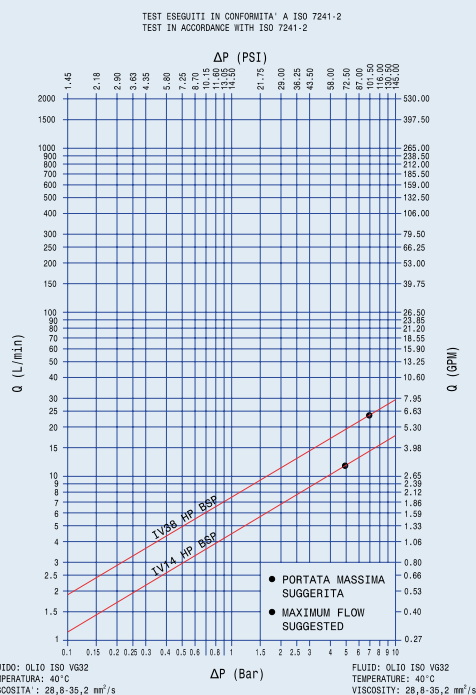
**Connection under pressure**  
Connection: not allowed  
Disconnection: not allowed

## BENEFITS

- Ball valves in hardened steel provide a good wearing resistance.
- Compact slim design.
- Simple to use.

## HOW TO USE

- Before to connect, clean the mating surface of the couplings to avoid dirt inclusion in the circuit.
- To connect insert the male coupling in the female coupling, move forward the sleeve of the female coupling and screw it manually on the male coupling till it blocks.
- To disconnect unscrew totally the sleeve from the male coupling.



## MAIN APPLICATIONS



Agriculture



Oil/Gas



Industry



High Pressure



Cooling



Refrigeration



Earth Moving



Vehicles



Hydraulic Equipment



Chemical & Food Industry

HIGH PRESSURE

## PERFORMANCES

Size	Series/Size	Max. flow suggested		Max. operating pressure	
		l/min	gpm	MPa	psi
1/4	IV14HP	12	3,18	70	10150
3/8	IV38HP	23	6,10	70	10150

### Temperature range:

Standard seals NBR (Nitrile): from -20 °C to +100 °C (from -4 °F to +212 °F).

Please read carefully Instructions and warnings for proper selection of the products.

### Different possible configurations:

Different threads available upon request.



## WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.

Never connect or disconnect with dynamic pressure (e.g. pump on).

Do not use the coupling disconnected with high impulse pressure.

Do not couple-uncouple with flow and/or pressure in the circuit.

Do not couple-uncouple when the temperature inside of the circuit is higher than 80 °C (176 °F).

Check the maximum allowable working pressure of the port in use.

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.

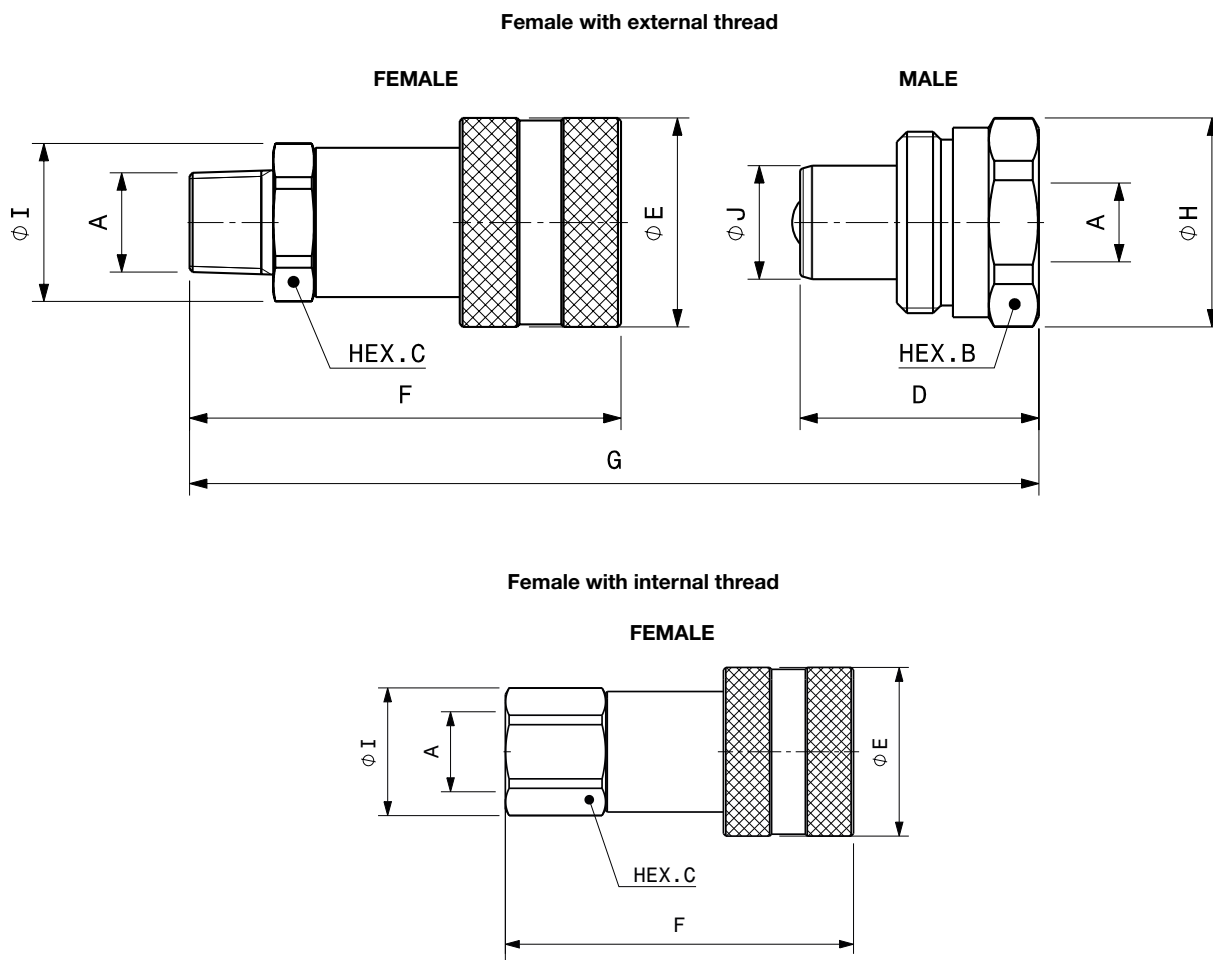
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## OVERALL DIMENSIONS



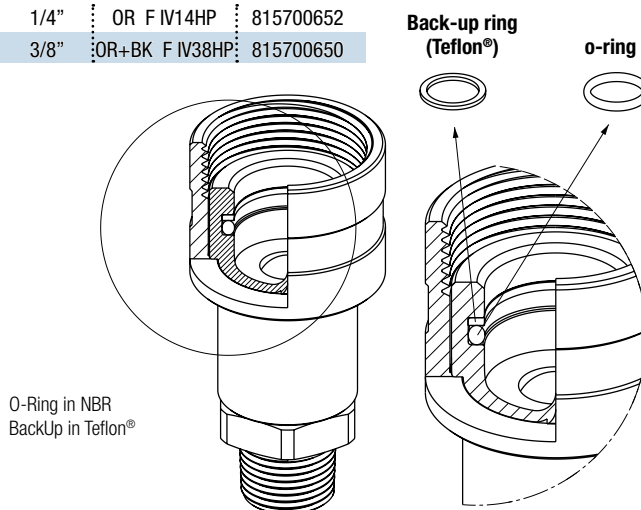
**Port description: FEMALE THREAD NPT (ANSI B1.20.1)**  
**- MALE THREAD NPT (ANSI B1.20.1)**

BODY SIZE	Descriptive Code	Item Code		PORT (A)		Overall Length		Length		Hex		Diameter		Diameter		Weight					
						mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb				
1/4"	F IV14HP 1/4 NPT EXT	Female	800201008	1/4"				F	60,8	2,39	C	22,0	0,87	I	24,5	0,96	E	28,0	1,10	0,14	0,30
1/4"	F IV14HP 1/4 NPT	Female	800201034	1/4"	G	74,5	2,93	F	60,8	2,39	C	22,0	0,87	I	24,5	0,96	E	28,0	1,10	0,14	0,30
1/4"	M IV14HP 1/4 NPT	Male	800201009	1/4"				D	32,5	1,28	B	19,0	0,75	H	28,0	1,10	J	15,8	0,62	0,07	0,16
3/8"	F IV38HP 1/4 NPT EXT	Female	800201006	1/4"				F	72,3	2,85	C	24,0	0,94	I	26,5	1,04	E	35,0	1,38	0,21	0,47
3/8"	F IV38HP 1/4 NPT	Female	800201022	1/4"	G	F+D-18,8	F+D-0,74	F	69,9	2,75	C	24,0	0,94	I	26,5	1,04	E	35,0	1,38	0,22	0,49
3/8"	M IV38HP 1/4 NPT	Male	800201023	1/4"				D	40,0	1,57	B	32,0	1,26	H	35,0	1,38	J	19,0	0,75	0,15	0,33
3/8"	F IV38HP 3/8 NPT EXT	Female	800201004	3/8"				F	72,2	2,84	C	24,0	0,94	I	26,5	1,04	E	35,0	1,38	0,22	0,49
3/8"	F IV38HP 3/8 NPT	Female	800201014	3/8"	G	F+D-25,4	F+D-1,00	F	72,3	2,85	C	24,0	0,94	I	26,5	1,04	E	35,0	1,38	0,24	0,52
3/8"	M IV38HP 3/8 NPT	Male	800201005	3/8"				D	40,0	1,57	B	32,0	1,26	H	35,0	1,38	J	19,0	0,75	0,14	0,31



## SPARE KIT SEAL FOR FEMALE

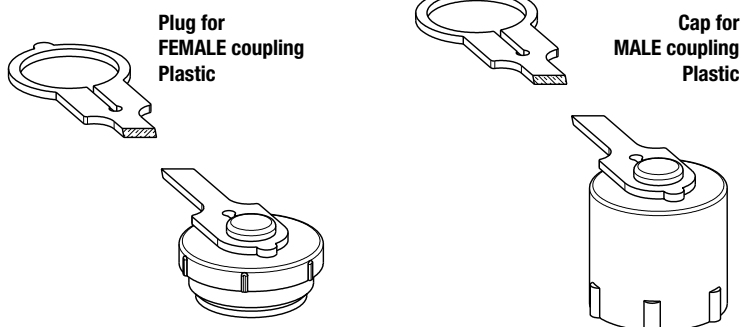
Repair kit / OR (+BK)		
Body Size	Description	Part Number
1/4"	OR F IV14HP	815700652
3/8"	OR+BK F IV38HP	815700650



## PROTECTIVE CAPS FOR IV-HP SERIES

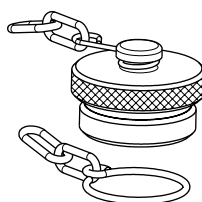
Protective caps are always recommended to protect the couplings from damage, dirt inclusion, and will increase the product life. For the IV-HP series are available two kind of materials:

- Plastic caps with lanyard (standard color: black)
- Cr3 steel with lanyard (standard colors: natural)

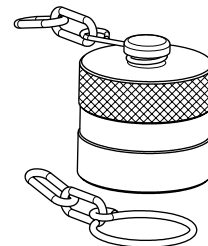


Protective Cap			
Body Size/Description	Part Number		Material/Color
	Plug for Female	Cap for Male	
1/4" IV14HP	815603010	815603011	Plastic/Black
3/8" IV38HP	815603012	815603013	Plastic/Black

Plug for FEMALE coupling  
Carbon Steel



Cap for MALE coupling  
Carbon Steel



Protective Cap			
Body Size/Description	Part Number		Material/Color
	Plug for Female	Cap for Male	
1/4" IV14HP	815605004	815605005	Carbon steel/Chrome 3
3/8" IV38HP	815605002	815605003	Carbon steel/Chrome 3



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