A-HPSERIES

INTERCHANGE > **Stucchi profile**



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

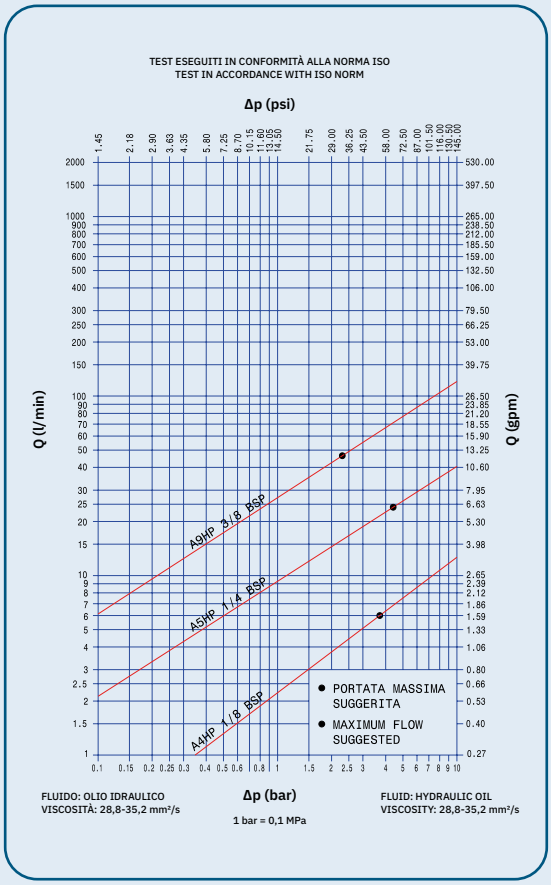
Connection under pressure
Connection: not allowed
Disconnection: not allowed

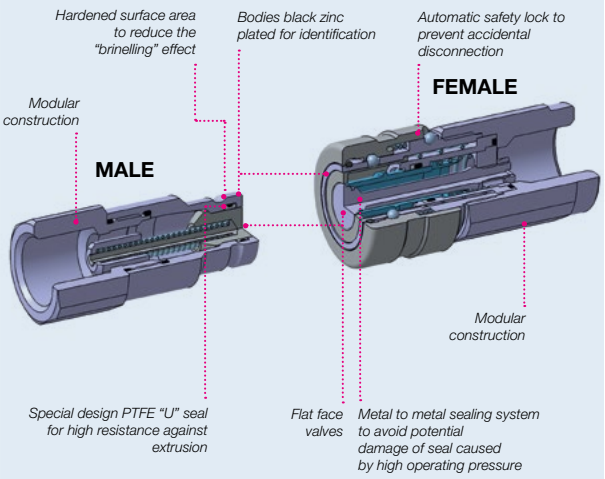
BENEFITS

- 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 connection.
- The pressurized components are made with high-strength carbon steel with surface control class 2 UNI EN 10277/1 and certificate type 3.1.
- 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.

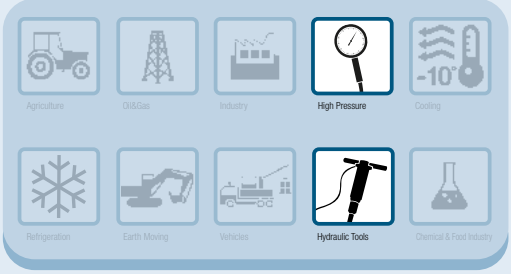
HOW TO USE

- 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 until the stop and push back the sleeve.





MAIN APPLICATIONS



PERFORMANCES

Size	Series/Size	Max. flow suggested		Connect force		Disconnect force		Spillage*
in		l/min	gpm	N	lbf	N	lbf	ml
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).

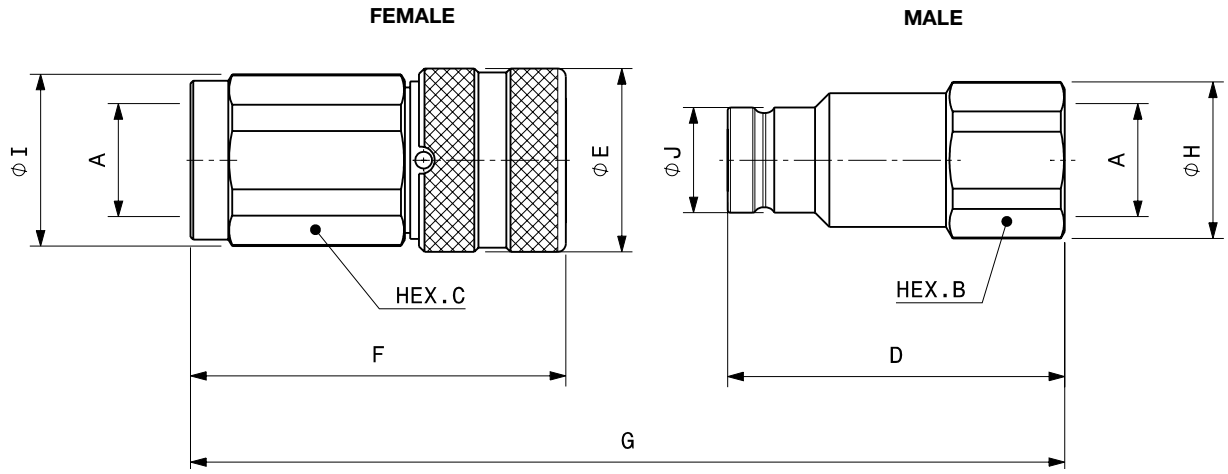
Different possible configurations:
Different threads available upon request.

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:
Qualification tests have been performed with hydraulic oil using couplings with NBR (Nitrile) seals.
The max. operating pressure have been verified fo 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 website for the latest release.
For specific, product-related, instructions, please contact Stucchi technical service.



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

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