INTERCHANGE > ISO 16028 - NFPA T3.20.15 - HTMA (size 3/8")





#### **TECHNICAL FEATURES AND OPTIONS**



# Interchange

ISO 16028 NFPA T3.20.15 HTMA (size 3/8")



Sealing description



Connection system

Push



from 3/8"



Stainless steel (AISI 316L)



Available threads



BSP - METRIC









Up to 378 I/min

Connection



Temperature (°C) 15°C / +180°C



Valving style Flat face



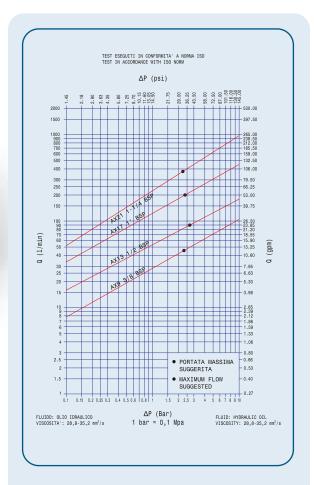
under pressure Connection: not allowed

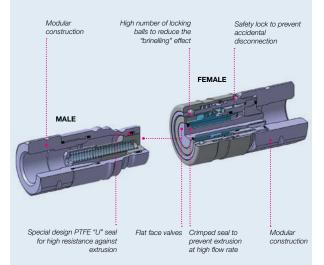
#### BENEFITS

- 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
- Minimal air inclusion during connection.
- Internal valve design creates minimal pressure drop, maintaining circuit efficiency in the system.
- The modular design allows flexibility with a wide range of configurations.
- Optimal corrosion resistance.
- 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.
- After connection turn the external sleeve to engage safety lock function, to prevent accidental disconnection.
- To disconnect turn the external sleeve until the sleeve lock notch match the safety lock ball and push back the sleeve.





# MAIN APPLICATIONS









#### PERFORMANCES

	Size	Series/Size	Max. flow	suggested	Conne	ct force	Disconn	Spillage*		
in	mm (ISO)		I/min	gpm	N	lbf	N	lbf	ml	
3/8	10	AX9	46	12,19	200	45	45	10,12	0,01	
1/2	12,5	AX13	90	23,85	165	37,12	58	13,05	0,02	
3/4	19	AX17	200	53	255	57,37	80	18	0,03	
1	25	AX21	378	100,17	285	64,12	110	24,75	0,03	

Size	Series/Size									
		Col	upled	M	ale	Female				
in		MPa	psi	MPa	psi	MPa	psi			
3/8	AX9	35	5075	35	5075	35	5075			
1/2	AX13	33	4785	33	4785	33	4785			
3/4	AX17	33	4785	33	4785	33	4785			
1	AX21	30	4350	30	4350	30	4350			

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

#### **Material:**

- Construction: Stainless steel AISI 316L

- Springs: AISI 302 - Locking ball: AISI 316

#### Different possible configurations:

Size AX7 and AX15 upon request. Different threads available upon request.

#### Temperature range:

Seals in FKM (VITON®): from -15°C to +180°C (from +5 °F to +356 °F). Seals in NBR (Nitrile) with water: from  $+5^{\circ}$ C to  $+60^{\circ}$ C (from  $+41^{\circ}$ F to  $+140^{\circ}$ F). Different seals available upon request.



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.

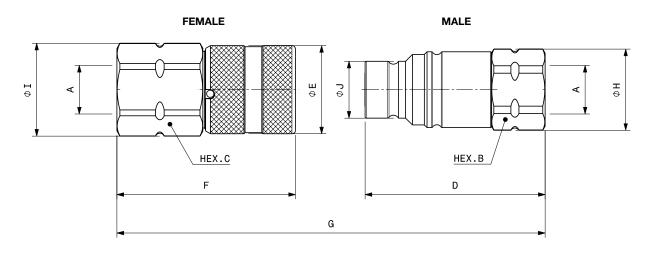
Always refer to the version uploaded in the Instructions and warning section of stucchigroup.com website for the latest release.

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# **OVERALL DIMENSIONS**



# Port description: FEMALE THREAD SAE (SAE J1926-1 or ISO 11926-1)

BODY	Descriptive Code	Ite	m Code	ISO	PORT (A)	0	verall Le	ngth		Length			Hex			Diamete	r		Diamete	er	Weig	ht
SIZE				DN			mm	in		mm	in		mm	in		mm	in		mm	in	kg	lb
3/8"	F AX9 3/8 SAE	Female	808504104 *	10	9/16-18UNF	C.	118,8	168	F	69,4	2,73	С	30,0	1,18	ı	32,0	1,26	Е	32,0	1,26	0,30	0,66
3/0	M AX9 3/8 SAE	Male	808504105 *	10	3/10-100NI	u	110,0	4,00	D	65,4	2,57	В	27,0	1,06	Н	29,0	1,14	J	19,7	0,78	0,16	0,34
3/8"	F AX9 1/2 SAE	Female	808504106	10	3/4-16UNF	G	125,8	1 05	F	74,4	2,93	С	30,0	1,18	-1	32,0	1,26	Е	32,0	1,26	0,33	0,72
3/0	M AX9 1/2 SAE	Male	808504107	10	0/4 T00INI	u	120,0	7,50	D	67,4	2,65	В	27,0	1,06	Н	29,0	1,14	J	19,7	0,78	0,16	0,35
3/4"	F AX17 3/4 SAE	Female	808504114	18	1-1/16-12UN	G	167,3	6 50	F	103,8	4,09	С	46,0	1,81	ı	49,8	1,96	Ε	48,0	1,89	1,08	2,37
3/4	M AX17 3/4 SAE	Male	808504115	10	1 1/10 12014	ŭ	1 107,0	,0 0,00	D	85,7	3,37	В	46,0	1,81	Н	49,5	1,95	J	30,0	1,18	0,54	1,18
3/4"	F AX17 1" SAE	Female	808504120 *	19	1-5/16-12UN	G	170,3	6.70	F	103,8	4,09	С	46,0	1,81	ı	49,8	1,96	Е	48,0	1,89	-	-
0/ 4	M AX17 1" SAE	Male	808504121 *	10	1 0/10 1201	ŭ	170,0	0,70	D	88,7	3,49	В	46,0	1,81	Н	49,5	1,95	J	30,0	1,18	-	-
1"	F AX21 114 SAE	Female	808504122 *	25	1-5/8-12UN	G	185,8	7 31	F	108,3	4,26	С	55,0	2,17	ı	59,8	2,35	Ε	55,0	2,17	1,42	3,13
'	M AX21 114 SAE	Male	808504123 *	20	1 0/0-120N	u	100,0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	D	100,2	3,94	В	55,0	2,17	Н	59,8	2,35	J	36,0	1,42	0,82	1,80

<sup>\*</sup> Available upon request.

# Port description: FEMALE THREAD BSPP (ISO 1179-1)

	Descriptive Code	lte	m Code	ISO	PORT (A)	Overall Length		Length			Hex				Diamete	r	Diameter			Weight		
SIZE				DN			mm	in		mm	in		mm	in		mm	in		mm	in	kg	lb
3/8"	F AX9 3/8 BSP	Female	808500104	10	3/8"	G	118.8	4 67	F	69,4	2,73	С	30,0	1,18	ı	32,0	1,26	Е	32,0	1,26	0,30	0,66
3/0	M AX9 3/8 BSP	Male	808500105	10	0/0	·	110,0	7,07	D	65,4	2,57	В	27,0	1,06	Н	29,0	1,14	J	19,7	0,78	0,16	0,34
1/2"	F AX13 1/2 BSP	Female	808500108	12.5	1/2"	C	1271	5,40	F	76,9	3,03	С	36,0	1,42	Ι	40,0	1,57	Е	38,0	1,50	0,48	1,05
1/2	M AX13 1/2 BSP	Male	808500109	12,0	1/2	u	137,1	3,40	D	77,5	3,05	В	32,0	1,26	Н	35,0	1,38	J	24,5	0,96	0,30	0,66
3/4"	F AX17 3/4 BSP	Female	808500114	19	3/4"	G	1675	6,59	F	103,8	4,09	С	46,0	1,81	ı	49,8	1,96	Ε	48,0	1,89	1,06	2,33
	M AX17 3/4 BSP	Male	808500115	10	3/4	u	107,5		D	85,7	3,37	В	46,0	1,81	Н	49,5	1,95	J	30,0	1,18	0,53	1,16

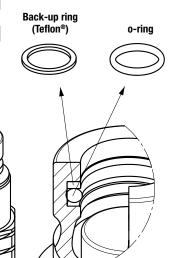






#### SPARE KIT SEAL FOR MALE

Repair kit / OR+BK										
Body Size	Description	Part Number								
3/8"	M AX9	815700247								
1/2"	M AX13	815700249								
3/4"	M AX17	815700253								
1"	M AX21	815700255								

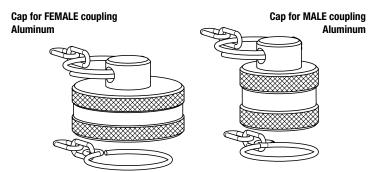


O-Ring in FKM (VITON®) BackUp in Teflon®

### PROTECTIVE CAPS FOR AX SERIES

Protective caps are always recommended to protect the couplings from damage, dirt inclusion, and will increase the product life. This is particularly important in mobile applications where exposure to weather and aggregate materials are common.

The protective caps for AX couplings are manufactured in aluminum with lanyard (colors: natural aluminum).



	Protective Cap											
<b>Body Size</b>	/Description	Part N	Material/Color									
		Cap for Female	Cap for Male									
3/8"	AX9	816005004	816005005	Aluminum/Natural								
1/2"	AX13	816005006	816005007	Aluminum/Natural								
3/4"	AX17	816005010	816005011	Aluminum/Natural								
1"	AX21	816005012	816005013	Aluminum/Natural								

The protective caps for AX couplings are also available in plastic (see A series caps at page 39).

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