INTERCHANGE > Stucchi profile (only for Stucchi multicouplings)





TECHNICAL FEATURES AND OPTIONS



Interchange Stucchi profile (only for Stucchi



Sealing description Nitrile NBR



Connection system







Material High strenght



Available





Up to 350 bar



Locking mechanism PIN/CAM



Flow rate Up to 378 L/Min





Temperature (°C)



Valving style Flat face



Connection under pressure

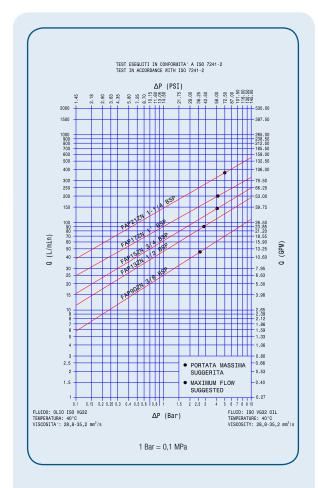
Connection: Both sides. Disconnection: allowed

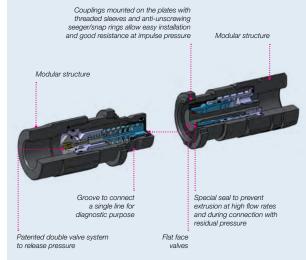
BENEFITS

- Flat face is easy to clean, helping to reduce the inclusion of contamination in the hydraulic circuit.
- Minimal fluid loss during connection/disconnection, reducing fluid loss to the
- Minimal air inclusion during connection/disconnection, enhancing correct function of the circuit.
- Internal flow of valve design creates minimal pressure drop, maintaining circuit efficiency in the system.
- Patented internal pressure release valve system allows an easy connection with high internal residual pressure.
- The modular design allows for broad range of port configurations.
- Couplings without locking balls eliminate the "brinelling" effect.
- For diagnostic purpose of a single line (example: pressure or flow check for a limited period of time), male FAP-ZN may be connected with a Stucchi "A series" flat face female coupling.
- · Compact slim design.
- Safe and simple to use.

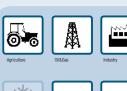
HOW TO USE

See instructions at page 22





MAIN APPLICATIONS



















PERFORMANCE

S	ize	Series/Size	Max. flow suggested		Hydrostatic pushing area coupled	Spillage*
Inch	mm (ISO)		l/min	GPM	Cm ²	ml
3/8	-	FAP9ZN (A/D)	46	12,19	1,226	0,012
1/2	-	FAP13ZN	90	23,85	1,893	0,020
5/8	-	FAP15ZN	148	39,22	2,404	0,110
3/4	-	FAP17ZN	200	53,00	3,298	0,032
1	-	FAP21ZN	378	100,17	4,335	0,035

Size	Series/Size		Ma	x. operat	ing pressu	re				Burst pr	essure		
		Col	ıpled		lale .		male	Cou	ıpled	M	ale	Fer	nale
Inch		MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
3/8	Fap9zn (a/d)	35	5075	35	5075	35	5075	120	17400	120	17400	100	14500
1/2	FAP13ZN	33	4785	33	4785	33	4785	120	17400	120	17400	100	14500
5/8	FAP15ZN	33	4785	33	4785	33	4785	120	17400	120	17400	100	14500
3/4	FAP17ZN	33	4785	33	4785	33	4785	120	17400	120	17400	100	14500
1	FAP21ZN	30	4350	30	4350	30	4350	100	14500	100	14500	80	11600

Size	Series/Size		ale to drain		ure during conr ale to drain	ection	Male an	d Female	Max. reside during dis	ual pressure connection
Inch		MPa	psi	MPa	psi		MPa	psi	MPa	psi
3/8	FAP9ZN (A/D)	25	3625	25	3625		25	3625	25	3625
1/2	FAP13ZN	25	3625	25	3625		20	2900	20	2900
5/8	FAP15ZN	25	3625	25	3625		20	2900	20	2900
3/4	FAP17ZN	25	3625	25	3625		15	2175	15	2175
1	FAP21ZN	25	3625	25	3625		15	2175	15	2175

^{*}Spillage is an indicative value of the fluid loss per couple-uncouple cycle without residual pressure.

Temperature range:

Standard seals NBR, PUR, POM from -20 °C to +100 °C (from -4 °F to +212 °F). Please read carefully "instruction and warning" for proper selection of the products.

The couplings coupled have been tested at max. operating pressure for 200.000 impulses, replacing the seeger ring every 50.000 impulses, in according with ISO 7241-2. The male uncoupled have been tested for 200.000 impulses. The female uncoupled have been tested for 100.000 impulses.

WARNING

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

A derect, a wrong choice or an improper use or 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 operating pressure of the port in use.

It is important to limit contamination in the circuit to avoid compromising the function of the internal valves. 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.

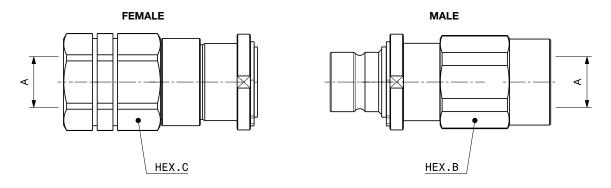
In case of doubt please contact Stucchi Technical Support. FAP-ZN series is intended to be used only on Stucchi Multiconnections. Do not use the FAP-ZN coupling on a Custom-made multiconnection or other device different than a Stucchi Multiconnection.

Do not disassemble, misuse, modify or damage the products. FAP-ZN series is intended to be used with standard hydraulic oils in fluid power application. Do not use the FAP-ZN coupling with different fluids (for example with inflammable, corrosive or dangerous fluids, gases ecc). Replace the seeger ring every 50.000 impulse cycles. For dimension "FAP9ZN 3/8": there are two versions of FAP9ZN: "A" and "D". The version is depending on the type of multiconnection in use. Please verify if the multiconnection you are using requires FAP9ZN "A" or "D" type consulting the single datasheet in case of need of spare parts. Contact Stucchi Service for support. Do not use the male FAP-ZN groove to connect the A-series female for a continuous service with pressure impulse (this feature is intended to be used only for diagnostic purpose so that for a short&limited time). When the couplings are disconnected, it is suggested to use the protection cap and parking station.

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.



SPECIFICATIONS

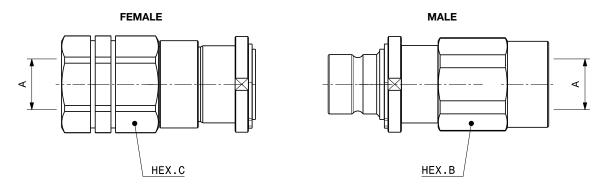


Port description: FEMALE THREAD BSPP (ISO 1179-1)

Body size	Descriptive Code	Ite	m Code	Port (A)	A or D type		Hex	
							mm	inch
3/8"	F FAP9DZN 1/4 BSP	Female	811400024	1/4"	D	С	30,0	1,18
0/0	M FAP9DZN 1/4 BSP	Male	811400025	17-7		В	27,0	1,06
3/8"	F FAP9AZN 1/4 BSP	Female	811400026	1/4"	А	С	30,0	1,18
O/ O	M FAP9AZN 1/4 BSP	Male	811400027	17-7	, ,	В	27,0	1,06
3/8"	F FAP9AZN 3/8 BSP	Female	811400002	3/8"	А	С	30,0	1,18
0/0	M FAP9AZN 3/8 BSP	Male	811400003	0,0		В	27,0	1,06
3/8"	F FAP9DZN 3/8 BSP	Female	811400004	3/8"	D	С	30,0	1,18
G/ O	M FAP9DZN 3/8 BSP	Male	811400005	0,0		В	27,0	1,06
3/8"	F FAP9AZN 1/2 BSP	Female	811400006	1/2"	Α	С	30,0	1,18
	M FAP9AZN 1/2 BSP	Male	811400007	.,_	· · ·	В	27,0	1,06
3/8"	F FAP9DZN 1/2 BSP	Female	811400008	1/2"	D	С	30,0	1,18
G, G	M FAP9DZN 1/2 BSP	Male	811400009	.,_		В	27,0	1,06
1/2"	F FAP13ZN 1/2 BSP	Female	811400010	1/2"		С	36,0	1,42
	M FAP13ZN 1/2 BSP	Male	811400011			В	36,0	1,42
1/2"	F FAP13ZN 3/4 BSP	Female	811400012	3/4"		С	36,0	1,42
	M FAP13ZN 3/4 BSP	Male	811400013			В	36,0	1,42
5/8"	F FAP15ZN 3/4 BSP	Female	811400014	3/4"		С	41,0	1,61
	M FAP15ZN 3/4 BSP	Male	811400015			В	36,0	1,42
3/4"	F FAP17ZN 3/4 BSP	Female	811400020	3/4"		С	46,0	1,81
3, .	M FAP17ZN 3/4 BSP	Male	811400021	σ, .		В	46,0	1,81
3/4"	F FAP17ZN 1' BSP	Female	811400016	1"		С	46,0	1,81
3 , .	M FAP17ZN 1' BSP	Male	811400017	•		В	46,0	1,81
1"	F FAP21ZN 1' BSP	Female	811400022	1"		С	55,0	2,17
	M FAP21ZN 1' BSP	Male	811400023	·		В	55,0	2,17
1"	F FAP21ZN 1-1/4 BSP	Female	811400018	1-1/4"		С	55,0	2,17
,	M FAP21ZN 1-1/4 BSP	Male	811400019	1-1/4		В	55,0	2,17



SPECIFICATIONS

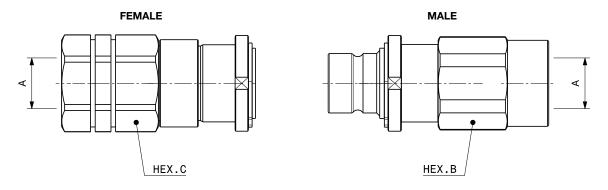


Port description: FEMALE THREAD NPT (ANSI B1.20.1)

Body size	Descriptive Code	Itei	m Code	Port (A)	A or D type		Hex	
							mm	inch
3/8"	F FAP9AZN 3/8 NPT	Female	811401002	3/8"	Α	С	30,0	1,18
3/0	M FAP9AZN 3/8 NPT	Male	811401003	3/0	^	В	27,0	1,06
3/8"	F FAP9DZN 3/8 NPT	Female	811401004	3/8"	D	С	30,0	1,18
3/0	M FAP9DZN 3/8 NPT	Male	811401005	3/0	,	В	27,0	1,06
3/8"	F FAP9AZN 1/2 NPT	Female	811401006	1/2"	Α	С	30,0	1,18
3/0	M FAP9AZN 1/2 NPT	Male	811401007	1/2	7	В	27,0	1,06
3/8"	F FAP9DZN 1/2 NPT	Female	811401008	1/2"	D	С	30,0	1,18
3/0	M FAP9DZN 1/2 NPT	Male	811401009	1/2	,	В	27,0	1,06
1/2"	F FAP13ZN 1/2 NPT	Female	811401010	1/2"		С	36,0	1,42
1/2	M FAP13ZN 1/2 NPT	Male	811401011	1/2		В	36,0	1,42
1/2"	F FAP13ZN 3/4 NPT	Female	811401012	3/4"		С	36,0	1,42
1/2	M FAP13ZN 3/4 NPT	Male	811401013			В	36,0	1,42
5/8"	F FAP15ZN 3/4 NPT	Female	811401014	3/4"		С	41,0	1,61
5/0	M FAP15ZN 3/4 NPT	Male	811401015	5/4		В	36,0	1,42
3/4"	F FAP17ZN 3/4 NPT	Female	811401020	3/4"		С	46,0	1,81
3/4	M FAP17ZN 3/4 NPT	Male	811401021	3/4		В	46,0	1,81
3/4"	F FAP17ZN 1' NPT	Female	811401016	1"		С	46,0	1,81
3/4	M FAP17ZN 1' NPT	Male	811401017	'		В	46,0	1,81
1"	F FAP21ZN 1' NPT	Female	811401022	1"		С	55,0	2,17
ı	M FAP21ZN 1' NPT	Male	811401023	'		В	55,0	2,17
1"	F FAP21ZN 1-1/4 NPT	Female	811401018	1-1/4"		С	55,0	2,17
I	M FAP21ZN 1-1/4 NPT	Male	811401019	1-1/4		В	55,0	2,17



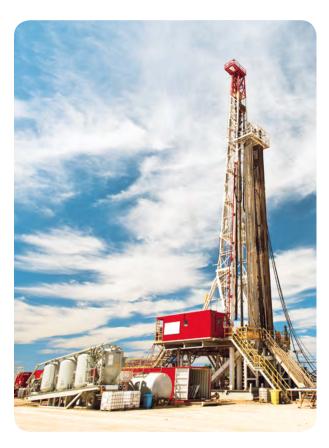
SPECIFICATIONS



Port description: FEMALE THREAD SAE (ISO 11926-1 & SAEJ1926-1)

Body size	Descriptive Code	Ite	m Code	Port (A)	A or D type		Hex	
					•		mm	inch
3/8"	F FAP9AZN 1/4 SAE	Female	811404020	7/16-UNF	A	С	27,0	1,06
5/0	M FAP9AZN 1/4 SAE	Male	811404021	7/10 0141	7	В	30,0	1,18
3/8"	F FAP9DZN 1/4 SAE	Female	811404022	7/16-UNF	D	С	27,0	1,06
3/0	M FAP9DZN 1/4 SAE	Male	811404023	7/10-0NI	D	В	30,0	1,18
3/8"	F FAP9AZN 3/8 SAE	Female	811404024	9/16-18UNF	Α	С	27,0	1,06
3/0	M FAP9AZN 3/8 SAE	Male	811404025	3/10-100IVI	^	В	30,0	1,18
3/8"	F FAP9DZN 3/8 SAE	Female	811404026	9/16-18UNF	D	С	27,0	1,06
3/0	M FAP9DZN 3/8 SAE	Male	811404027	3/10-100IVI	D	В	30,0	1,18
3/8"	F FAP9AZN 1/2 SAE	Female	811404002	3/4-16UNF	Α	С	27,0	1,06
3/0	M FAP9AZN 1/2 SAE	Male	811404003	3/4-100IVI	^	В	30,0	1,18
3/8"	F FAP9DZN 1/2 SAE	Female	811404004	3/4-16UNF	D	С	27,0	1,06
3/0	M FAP9DZN 1/2 SAE	Male	811404005	3/4-100IVI		В	30,0	1,18
3/8"	F FAP9AZN 5/8 SAE	Female	811404006	7/8-14UNF	А	С	27,0	1,06
3/8	M FAP9AZN 5/8 SAE	Male	811404007			В	30,0	1,18
3/8"	F FAP9DZN 5/8 SAE	Female	811404008	7/8-14UNF	D	С	27,0	1,06
3/0	M FAP9DZN 5/8 SAE	Male	811404009			В	30,0	1,18
1/2"	F FAP13ZN 1/2 SAE	Female	811404028	3/4-16UNF		С	36,0	1,42
1/2	M FAP13ZN 1/2 SAE	Male	811404029	3/4-100IVI		В	36,0	1,4
1/2"	F FAP13ZN 5/8 SAE	Female	811404010	7/8-14UNF		С	36,0	1,4
1/2	M FAP13ZN 5/8 SAE	Male	811404011	770-140IVI		В	36,0	1,4
1/2"	F FAP13ZN 3/4 SAE	Female	811404012	1-1/16-12UN		С	36,0	1,42
1/2	M FAP13ZN 3/4 SAE	Male	811404013	1-1/10-1201		В	36,0	1,42
5/8"	F FAP15ZN 3/4 SAE	Female	811404014	1-1/16-12UN		С	41,0	1,6
3/0	M FAP15ZN 3/4 SAE	Male	811404015	1 1/10 1201		В	36,0	1,42
3/4"	F FAP17 3/4 SAE	Female	811404030	1-1/16-12UN		С	46,0	1,8
3/4	M FAP17ZN 3/4 SAE	Male	811404031	1 1/10 1201		В	46,0	1,8
3/4"	F FAP17ZN 1' SAE	Female	811404016	1-5/16-12UN		С	46,0	1,8
	M FAP17ZN 1' SAE	Male	811404017	1 3/10 1201		В	46,0	1,8
1"	F FAP21ZN 1' SAE	Female	811404032	1-5/16-12UN		С	55,0	2,17
	M FAP21ZN 1' SAE	Male	811404033	1-5/10-12UN		В	55,0	2,17
1"	F FAP21ZN 1-1/4 SAE	Female	811404018	1-5/8-12UN		С	55,0	2,17
	M FAP21ZN 1-1/4 SAE	Male	811404019	1-3/8-1∠UN		В	55,0	2,17

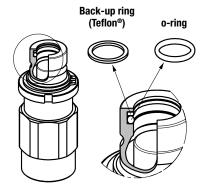




SPARE KIT SEAL FOR MALE

	Repair kit / OR+BK	
Body Size	Description	Part Number
3/8"	m fap9zn	815701096
1/2"	M FAP13ZN	815700339
5/8"	M FAP15ZN	815700341
3/4"	M FAP17ZN	815700655
1"	M FAP21ZN	815700345

O-Ring in Nitrile BackUp in Teflon®



REPAIR KIT/NUT + SEEGER

	Repair kit / Nut + Seeger
Part Number	Description
815701000	KIT NR.10 NUT+SEEGER RING F/M FAP9AZN
815701001	KIT NR.10 NUT+SEEGER RING F/M FAP9DZN
815701002	KIT NR.10 NUT+SEEGER RING F/M FAP13ZN
815701003	KIT NR.5 NUT+SEEGER RING F/M FAP15ZN
815701004	KIT NR.5 NUT+SEEGER RING F/M FAP17ZN
815701005	KIT NR.5 NUT+SEEGER RING F/M FAP21ZN

