













VT RoT-lock

FLAT FACE SCREW



Technical specifications and options

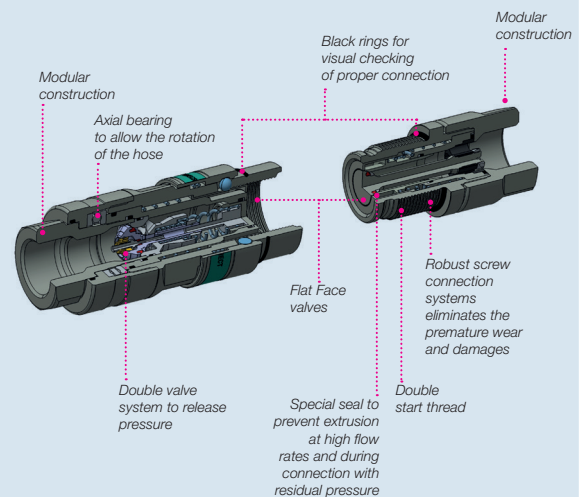
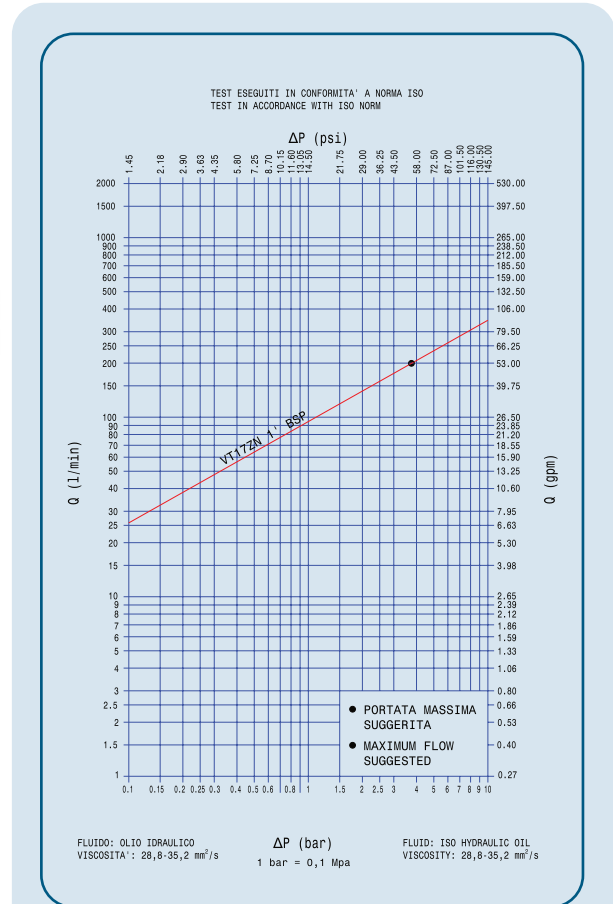
 Interchange Stucchi profile	 Sealing description Nitrile NBR	 Connection system Screw
 Available sizes 3/4"	 Material /treatment Carbon steel / Zinc Nickel	 Available threads BSP, NPT, SAE, ORFS
 Operating pressure Up to 500 bar	 Locking mechanism Screw to connect + Automatic lock sleeve	 Flow rate Up to 200 l/min
 Temperature -20°C / +100°C	 Valving style Flat face	 Connection under pressure Connection: Both sides Disconnection: Allowed

Benefits

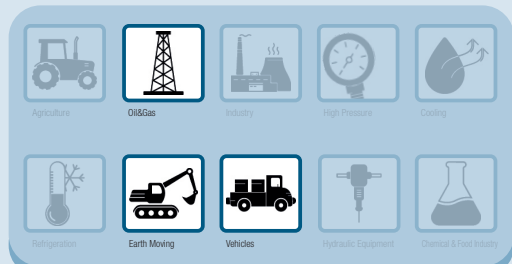
- The automatic lock sleeve integrated in the connection system prevents the accidental disconnection
- Axial bearing integrated in the male coupling to allow the rotation of the hose avoiding the unscrewing and damaging of the parts
- Robust screw connection system that eliminates the premature wear and damages, making the product life much longer
- Double start thread allows to connect and disconnect in half the time compared to single thread coupling
- Black rings for visual checking of proper connection of the couplings
- Connection under residual pressure is allowed in both sides, the internal valve system allows an easy connection
- Flat face is easy to clean, reducing the inclusion of contamination to the hydraulic circuit
- Minimal fluid loss during disconnection, reducing contamination to the environment
- Minimal air inclusion during connection/disconnection
- Internal valve design creates minimal pressure drop, maintaining circuit efficiency in the system
- The modular design allows flexibility with a wide range of configurations
- High resistance at impulse pressures
- Safe and simple to use

How to use

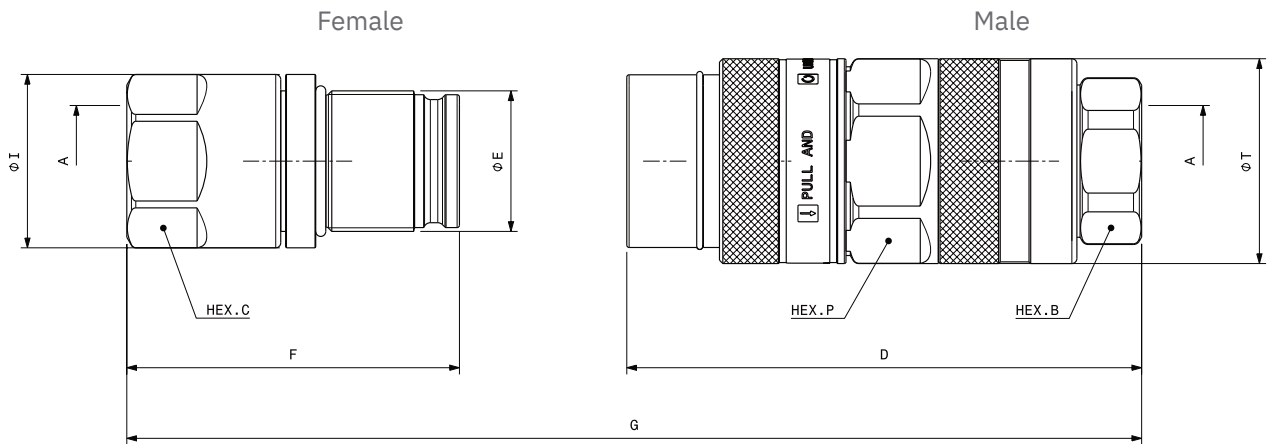
- Before to connect, clean the mating surface of the couplings to avoid dirt inclusion in the circuit
- To connect align the female coupling to the male coupling, push the male and twist in one motion to catch the first thread on the female half and continue to thread together (do not push together couplers, screw only)
- Always connect male and female with the male adaptor fixed on the hose
- The screwing of the threads should be done by hand without the use of the tools for the first part of the connection
- The use of tools for the second part of connection can be necessary if there is high residual pressure in the circuit
- Thread the mating halves until the sleeve lock clicks into position.
- This activates the safety lock and eliminates accidental disconnection of the coupling.
- The coupling is properly coupled when the two black rings are not exposed
- To disconnect push the safety locking sleeve towards the male coupling and unthread the connection
- The lock is disengaged after one complete rotation of the coupler, continue to unthread until both halves disconnect
- If safety lock sleeve will not push back rotate the male coupling to couple direction until the sleeve will pull back



MAIN APPLICATIONS



Overall dimensions



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

Body size	Description	Part Number	PORT (A)	E	Overall length		Length		Wrench Flat		Wrench Flat		Diameter		Weight						
					mm	in	mm	in	mm	in	mm	in	mm	in	Kg	lbs					
3/4"	F VT17ZN 1 BSP RoT-lock®	Female 812400000	1	Rd 42	G	210,3	8,28	F	99,4	3,91	C	46,0	1,81	-	-	-	I	51,8	2,04	0,96	2,12
	M VT17ZN 1 BSP RoT-lock®	Male 812400001	-	-				D	153,9	6,06	B	46,0	1,81	P	55,0	2,17	T	61,2	2,41	2,18	4,81

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

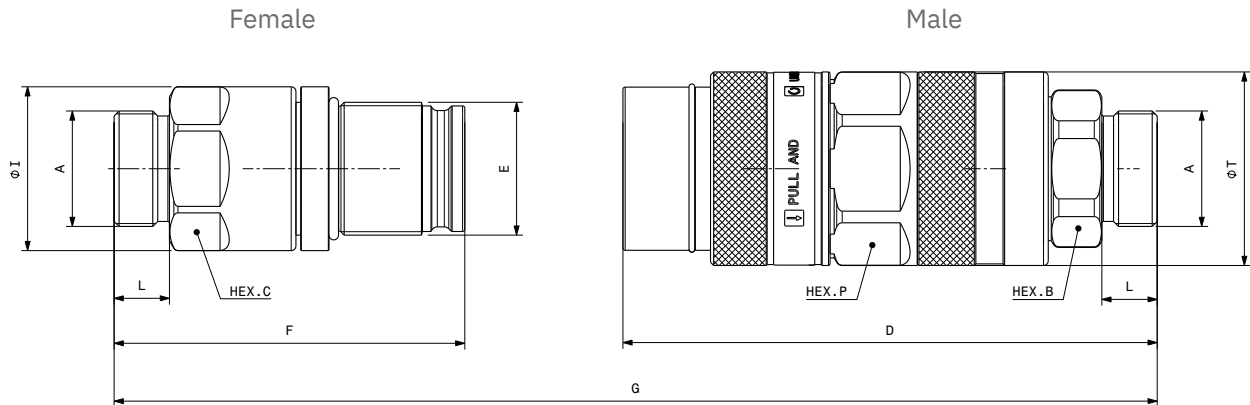
Body size	Description	Part Number	PORT (A)	E	Overall length		Length		Wrench Flat		Wrench Flat		Diameter		Weight						
					mm	in	mm	in	mm	in	mm	in	mm	in	Kg	lbs					
3/4"	F VT17ZN 1 NPT RoT-lock®	Female 812401000	1	Rd 42	G	210,3	8,28	F	99,4	3,91	C	46,0	1,81	-	-	-	I	51,8	2,04	0,96	2,12
	M VT17ZN 1 NPT RoT-lock®	Male 812401001	-	-				D	153,9	6,06	B	46,0	1,81	P	55,0	2,17	T	61,2	2,41	2,18	4,81

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

Body size	Description	Part Number	PORT (A)	E	Overall length		Length		Wrench Flat		Wrench Flat		Diameter		Weight						
					mm	in	mm	in	mm	in	mm	in	mm	in	Kg	lbs					
3/4"	F VT17ZN 1 SAE RoT-lock®	Female 812404000	1-5/16-12UN	Rd 42	G	210,3	8,28	F	99,4	3,91	C	46,0	1,81	-	-	-	I	51,8	2,04	0,96	2,12
	M VT17ZN 1 SAE RoT-lock®	Male 812404001	-	-				D	153,9	6,06	B	46,0	1,81	P	55,0	2,17	T	61,2	2,41	2,18	4,81



Overall dimensions



Port description: MALE THREAD ORFS (SAE J1453 or ISO 8434-3)

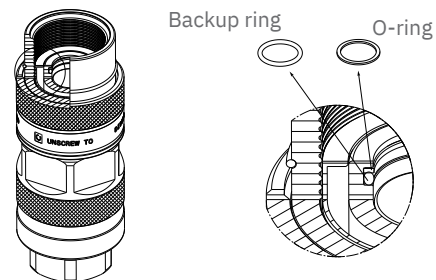
Body size	Description	Part Number	PORT (A)	E	Overall length		Length		Port Length		Wrench Flat		Wrench Flat		Diameter		Weight		
					mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	Kg	lbs	
3/4"	F VT17ZN 1 ORFS RoT-lock®	Female 812413000	1-7/16-12UN	Rd 42	G	236,9	9,33	F 110,9	4,4	L 17,5	0,69	C 46,0	1,81	-	-	I 51,8	2,04	0,96	2,11
	M VT17ZN 1 ORFS RoT-lock®	Male 812413001		-				D 169	6,06			B 46,0	1,81	P 55,0	2,17	T 61,2	2,41	2,32	5,12

Spare kit seal for male

Repair kit/OR+BK		
Body size	Description	Part number
3/4	SPARE KIT OR HNBR+BK M VT17ZN	815701335

Kit replacement O-ring holder + O-ring

O-Ring in HNBR
Backup in Teflon®



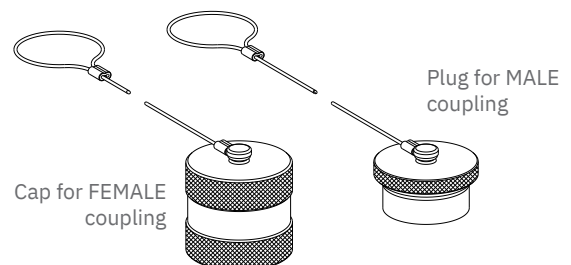
Protective caps

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.

Body size	Description	Cap part number		Material/Color
		Cap for Female	Plug for Male	
3/4	VT17ZN	816105400	816105401	Aluminum/Natural
3/4	VT17ZN	816103000	816103001	Plastic/Black

Available upon request:

Aluminum with lanyard in different colors.



⚠ 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). Do not use the female coupling disconnected with high impulse pressure. Do not couple-uncouple with flow 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. 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. **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.stucchigroup.com) before selecting or using Stucchi products.**