VOFSERIES

INTERCHANGE > **Similar Couplings (Oil & Gas)**

Stucchi®

BOP



TECHNICAL FEATURES AND OPTIONS

Interchange
Similar Couplings (Oil & Gas)

Sealing description
Nitrile NBR

Connection system
Screw

Available sizes
From 3/4" to 2"

Material /treatment
Carbon steel /Cr3

Available threads
BSP - NPT - SAE

Operating pressure
Up to 345 bar

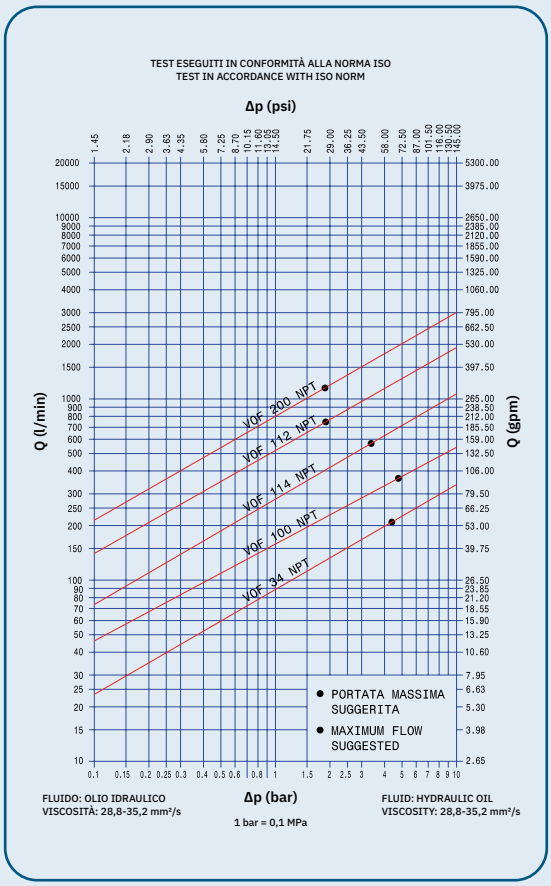
Locking mechanism
Screw to connect

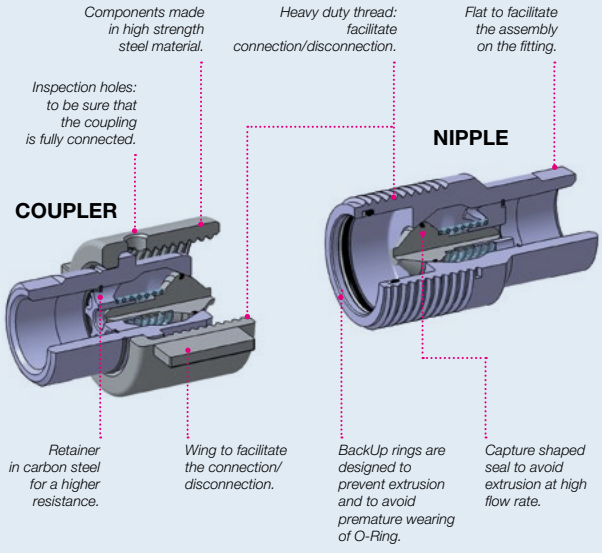
Flow rate
Up to 1100 l/min

Temperature (°C)
-20°C / +100°C

Valving style
Poppet

Connection under pressure
Connection: one side
Disconnection: not allowed





BENEFITS

- Connection under residual pressure is allowed in one side.
- Inspection hole to control if the coupling is completely connected.
- All dimensions of Stucchi VOF series are certified with Lloyd Type Approval in accordance with API 16D at specific rating pressure of 345 bar/5000 psi for all sizes except size 2" that is 333 bar/4830 psi.
- Wrench flat on the bodies to facilitate the fitting assembly.
- The poppet valve with elastomer seal provides maximum sealing of the couplings when disconnected.
- Retainer in high resistance carbon steel.
- Shape of internal parts is designed to reduce turbulence and pressure drop.
- High resistance to pressure impulses (500.000 connected).
- Compact 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 nipple in the coupler, screw the sleeve until positive stop (surface contact of two moving parts), do not push together the couplings, screw only.
- The use of tools for the second part of the connection can be necessary if there is high residual pressure in the circuit.
- Check inspection holes to ensure that the coupling is fully connected (no free space allowed).
- To disconnect unscrew totally the sleeve from the nipple.

MAIN APPLICATIONS



PERFORMANCES

Size		Series/Size	Max. flow suggested		Manual connect torque*		Manual disconnect torque*		Spillage**
in	mm		l/min	gpm	Nm	lbf ft	Nm	lbf ft	ml
3/4”	20	VOF34	212	56,18	1,2	0,89	0,6	0,44	11,5
1”	25	VOF100	378	100,17	1,6	1,18	1,1	0,81	21,2
1-1/4”	31,5	VOF114	576	152,64	2,8	2,07	1,9	1,40	42,3
1-1/2”	40	VOF112	758	200,87	4	2,95	3,6	2,66	82,6
2“	50	VOF200	1100	291,50	7,5	5,53	5,1	3,76	192,0

Size	Series/Size	Max. operating pressure						Burst pressure					
		Coupled		Nipple		Coupler		Coupled		Nipple		Coupler	
in		MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
3/4”	VOF34	34,5	5000	34,5	5000	34,5	5000	137,9	20000	137,9	20000	100,0	14500
1”	VOF100	34,5	5000	34,5	5000	34,5	5000	137,9	20000	137,9	20000	100,0	14500
1-1/4”	VOF114	34,5	5000	34,5	5000	34,5	5000	137,9	20000	137,9	20000	100,0	14500
1-1/2”	VOF112	34,5	5000	34,5	5000	34,5	5000	137,9	20000	137,9	20000	82,8	12000
2 “	VOF200	34,5	5000	34,5	5000	34,5	5000	100,0	14500	90,0	13050	75,9	11000

* Connect torque and disconnect torque without residual pressure.
The torque will increase as internal residual pressure increases.

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

BOP Only configurations mentioned in the dedicated BOP section of this catalog are BOP certified.
For complete technical information please contact Stucchi Technical Support.

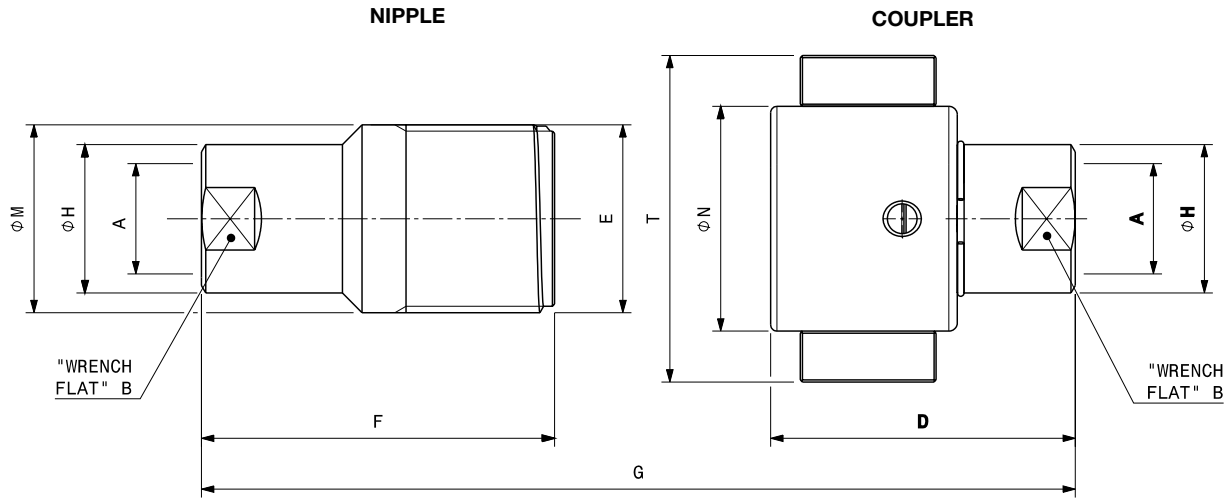
Different possible configurations:
SAE thread available upon request.

Temperature range:
Standard seals NBR 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 performed:
Qualification tests have been performed with hydraulic oil using couplings with NBR (Nitrile) seals.
The max. operating pressure have been verified fo 500.000 impulses according to ISO norm test method.
The couplings disconnected have been tested for 100.000 impulses.

WARNING

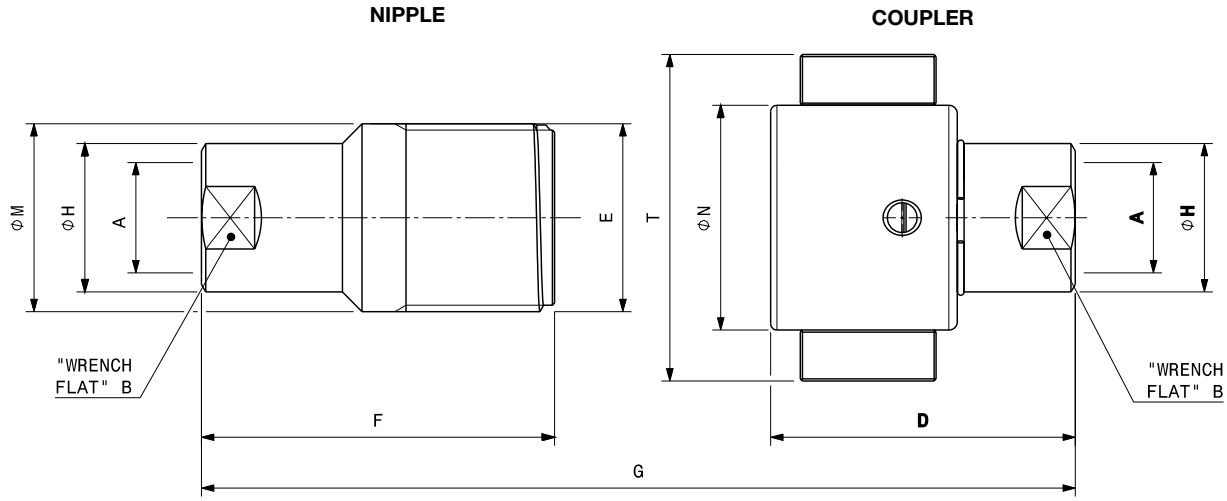
A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.
Never connect or disconnect with dynamic pressure (e.g. pump on).
Do not couple-uncouple with flow in the circuit.
Do not couple-uncouple when the temperature inside of the circuit is higher than 80 °C (176 °F).
Do not use the coupling disconnected with high impulse pressure.
Connect under pressure products are suitable to be connected under residual (static) pressure.
Connection with residual pressure (pressure trapped in the circuit) allowed with other side coupling to drain.
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)	Thread		Overall Length mm	Overall Length in	Length	mm	Length in	Hex	mm	Hex in	Diameter	mm	Diameter in
3/4"	VOF34 NPT	Nipple	811201002	3/4"	E	1 3/4-8 special	G	123,6	4,87	F	83,2	3,28	B	31,8	1,25	H	35,0	1,38
	VOF34 NPT	Coupler	811201003							D	71,8	2,83						
1"	VOF100 NPT	Nipple	811201000	1"	E	2 1/4-6 Stub ACME	G	152,9	6,02	F	105,8	4,17	B	41,3	1,63	H	45,0	1,77
	VOF100 NPT	Coupler	811201001							D	87,3	3,44						
1-1/4"	VOF114 NPT	Nipple	811201004	1-1/4"	E	2 5/8-6 Stub ACME	G	197,9	7,79	F	136,7	5,38	B	50,8	2,00	H	54,5	2,15
	VOF114 NPT	Coupler	811201005							D	112,4	4,43						
1-1/2"	VOF112 NPT	Nipple	811201006	1-1/2"	E	3 1/4-4 Stub ACME	G	220,3	8,67	F	151,2	5,95	B	57,2	2,25	H	63,5	2,50
	VOF112 NPT	Coupler	811201007							D	126,9	5,00						
2"	VOF200 NPT	Nipple	811201008	2"	E	4-4 Stub ACME	G	255,2	10,05	F	179,0	7,05	B	76,2	3,00	H	82,6	3,25
	VOF200 NPT	Coupler	811201009							D	154,2	6,07						

Body Size	Descriptive Code	Item Code		Diameter	mm	Diameter in	Max overall dimension	mm	Max overall dimension in	Weight kg	Weight lb
3/4"	VOF34 NPT	Nipple	811201002	M	44,3	1,74				0,48	1,05
	VOF34 NPT	Coupler	811201003	N	53,0	2,09	T	77,0	3,03	0,61	1,34
1"	VOF100 NPT	Nipple	811201000	M	57,2	2,25				1,19	2,62
	VOF100 NPT	Coupler	811201001	N	69,0	2,72	T	109,0	4,29	1,38	3,03
1-1/4"	VOF114 NPT	Nipple	811201004	M	66,7	2,62				1,95	4,30
	VOF114 NPT	Coupler	811201005	N	80,0	3,15	T	120,0	4,72	2,27	5,01
1-1/2"	VOF112 NPT	Nipple	811201006	M	82,6	3,25				3,22	7,11
	VOF112 NPT	Coupler	811201007	N	95,0	3,74	T	145,0	5,71	3,84	8,47
2"	VOF200 NPT	Nipple	811201008	M	101,6	4,00				6,04	13,32
	VOF200 NPT	Coupler	811201009	N	122,5	4,82	T	182,5	7,19	8,10	17,86



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

Body Size	Descriptive Code	Item Code		PORT (A)		Thread	Overall Length	mm	in	Length	mm	in	Hex	mm	in	Diameter	mm	in
3/4"	**VOF34 BSP**	Nipple	**811200002**	3/4"	E	1 3/4-8 special	G	123,6	4,87	F	83,2	3,28	B	31,8	1,25	H	35,0	1,38
	VOF34 BSP	Coupler	**811200003**							D	71,8	2,83						
1"	**VOF100 BSP**	Nipple	**811200000**	1"	E	2 1/4-6 Stub ACME	G	152,9	6,02	F	105,8	4,17	B	41,3	1,63	H	45,0	1,77
	VOF100 BSP	Coupler	**811200001**							D	87,3	3,44						
1-1/4"	**VOF114 BSP**	Nipple	**811200004**	1-1/4"	E	2 5/8-6 Stub ACME	G	197,9	7,79	F	136,7	5,38	B	50,8	2,00	H	54,5	2,15
	VOF114 BSP	Coupler	**811200005**							D	112,4	4,43						
1-1/2"	**VOF112 BSP**	Nipple	**811200006**	1-1/2"	E	3 1/4-4 Stub ACME	G	220,3	8,67	F	151,2	5,95	B	57,2	2,25	H	63,5	2,50
	VOF112 BSP	Coupler	**811200007**							D	126,9	5,00						
2"	**VOF200 BSP**	Nipple	**811200008**	2"	E	4-4 Stub ACME	G	255,2	10,05	F	179,0	7,05	B	76,2	3,00	H	82,6	3,25
	VOF200 BSP	Coupler	**811200009**							D	154,2	6,07						

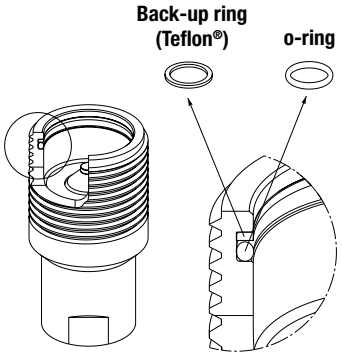
Body Size	Descriptive Code	Item Code		Diameter	mm	in	Max overall dimension	mm	in	Weight	kg	lb
3/4"	**VOF34 BSP**	Nipple	**811200002**	M	44,30	1,74					0,50	1,10
	VOF34 BSP	Coupler	**811200003**	N	53,00	2,09	T	77,0	3,03		0,63	1,38
1"	**VOF100 BSP**	Nipple	**811200000**	M	57,15	2,25					1,17	2,58
	VOF100 BSP	Coupler	**811200001**	N	69,00	2,72	T	109,0	4,29		1,35	2,99
1-1/4"	**VOF114 BSP**	Nipple	**811200004**	M	66,67	2,62					1,92	4,23
	VOF114 BSP	Coupler	**811200005**	N	80,00	3,15	T	120,0	4,72		2,24	4,93
1-1/2"	**VOF112 BSP**	Nipple	**811200006**	M	82,55	3,25					3,16	6,97
	VOF112 BSP	Coupler	**811200007**	N	95,00	3,74	T	145,0	5,71		3,82	8,43
2"	**VOF200 BSP**	Nipple	**811200008**	M	101,60	4,00					6,03	13,29
	VOF200 BSP	Coupler	**811200009**	N	122,50	4,82	T	182,5	7,19		8,09	17,83



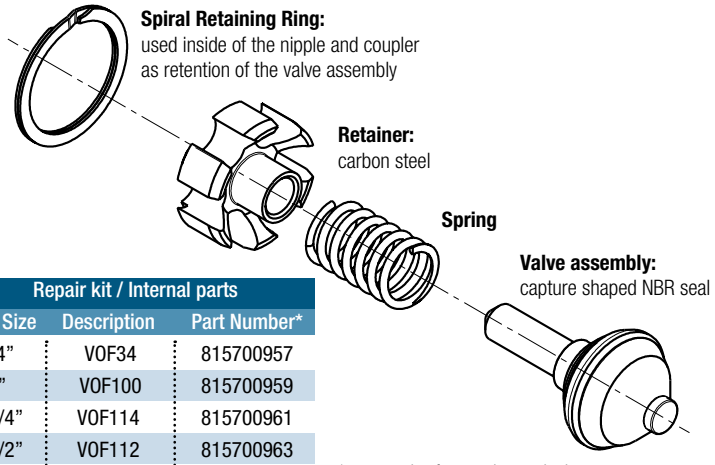
SPARE KIT SEAL FOR NIPPLE

Repair kit / OR+BK		
Body Size	Description	Part Number
3/4”	VOF34	815700956
1”	VOF100	815700958
1-1/4”	VOF114	815700960
1-1/2”	VOF112	815701122
2”	VOF200	815700964

O-Ring in Nitrile
BackUp in Teflon®



SPARE KIT INTERNAL PARTS

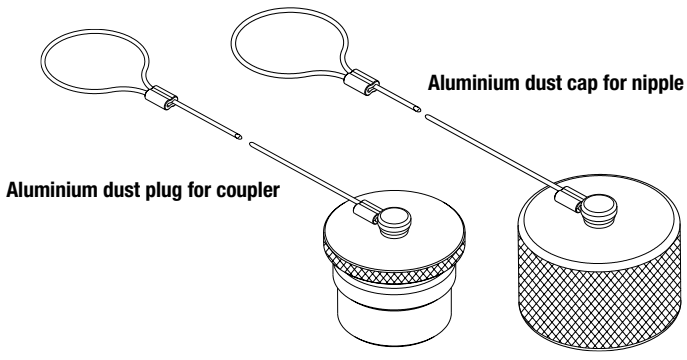


Repair kit / Internal parts		
Body Size	Description	Part Number*
3/4”	VOF34	815700957
1”	VOF100	815700959
1-1/4”	VOF114	815700961
1-1/2”	VOF112	815700963
2”	VOF200	**

*same codes for coupler or nipple
**contact Stucchi for the correct Part Number

PROTECTIVE CAPS FOR VOF 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 Oil&Gas and mobile applications where exposure to weather and aggregate materials are common.
The protective caps for VOF couplings are manufactured in aluminum (natural color).



Protective Cap			
Body Size/Description	Part Number		Material/Color
	Plug for Coupler	Cap for Nipple	
3/4”	815405013	815405012	Aluminum/Natural
1”	815405011	815405010	Aluminum/Natural
1-1/4”	815405015	815405014	Aluminum/Natural
1-1/2”	815405017	815405016	Aluminum/Natural
2”	815405019	815405018	Aluminum/Natural

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