VEP-HDSERIES

INTERCHANGE > **Stucchi VEP profile**

Stucchi®

Easy CUP

BOP



TECHNICAL FEATURES AND OPTIONS

Interchange
Stucchi VEP profile

Sealing description
Nitrile NBR

Connection system
Screw
HDL version= lock system

Available sizes
from 5/8" to 1-1/2"

Material /treatment
Carbon steel /QPQ (Zn-Ni)

Available threads
BSP - NPT - SAE - FLANGE

Operating pressure
Up to 550 bar

Locking mechanism
Screw to connect

Flow rate
Up to 750 l/min

Temperature (°C)
-20°C / +100°C

Valving style
Flat Face

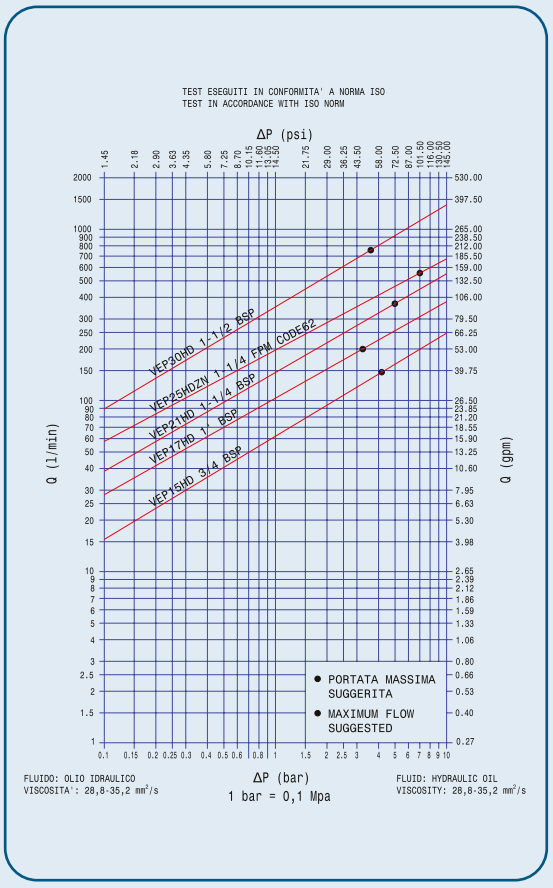
Connection under pressure
Connection: Both sides (see Benefits).
Disconnection: Allowed (see Benefits).

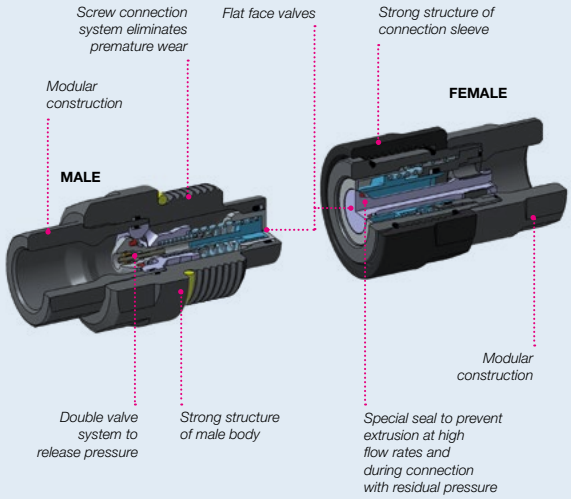
BENEFITS

- Easy connection/disconnection with both side under residual pressure thanks to the Stucchi design.
- Flat face is easy to clean, reducing the inclusion of contamination inside the hydraulic circuit.
- AVEP15HD, VEP17HD, VEP21HD and VEP30HD are certified with Lloyd Type Aproval in accordance with API 16D at specific rating pressure of 345 bar/5000 psi. For complete technical information please contact Stucchi Technical Support.
- Minimal fluid spillage during disconnection, reducing fluid spillage to the environment.
- Minimal air inclusion during connection.
- Internal valve design creates minimal pressure drop, maintaining circuit efficiency in the system
- Internal pressure release valve system allows an easy connection with high internal residual pressure.
- The modular design allows flexibility with a wide range of configurations.
- High resistance to pressure impulses.
- Safe and simple to use.
- HDL version= lock system included.

HOW TO USE

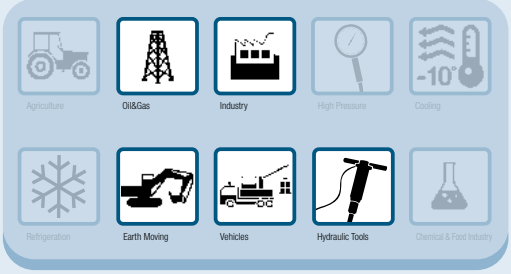
- Before to connect, clean the mating surface of the couplings to avoid dirt inclusion in the circuit.
- To connect pull forward the connection sleeve of the female coupling.
- Align the female and male coupling holding forward the connection sleeve and thread together turning the sleeve.
- Keep couplers aligned during connection process. Do not push to connect couplings.
- 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.
- Screw the connecting sleeve of the female until metal surface contact with the male coupling is complete.
- Tighten the sleeve to the base of the male using the tightening torque spec. as indicated in the table below.
- To disconnect turn sleeve from contact position using a wrench, then unscrew making sure the couplings stay aligned through the entire process.
- HDL version: in addition to the instructions here above remove external yellow O-ring on the male. To connect: 1st step connect by hand till metal to metal contact; 2nd step use tool to reach proper Tightening torque as indicated in the specific table; 3rd step insert cotter pin.
- Provide an adequate maintenance of the parts (washing with clear water, lubricating and greasing the QPQ surface) to extend the life in corrosive environment.





Size 25 has Zn-Ni as standard treatment

MAIN APPLICATIONS



VEP-HDSERIES

Stucchi®

PERFORMANCES VEP-HD, VEP-HDL ALL THREADS

Size	Series/Size	Max. flow suggested		Manual connect torque		Manual disconnect torque		Tightening torque		Spillage*
in		l/min	gpm	Nm	lbf ft	Nm	lbf ft	Nm	lbf ft	ml
5/8	VEP15HD	148	39,22	3,0	2,21	1,8	1,33	70-80	52-59	0,03
3/4	VEP17HD	200	53,00	5,6	4,13	3,6	2,65	110-130	81-96	0,02
1	VEP21HD	378	100,17	8,2	6,04	5,8	4,27	125-145	92-107	0,06
1-1/4	VEP25HDZN	576	152,64	8,5	6,27	6,0	4,43	140-160	103-118	0,06
1-1/2	VEP30HD	750	198,75	26,0	19,16	12,5	9,21	155-175	114-129	0,20

PERFORMANCES FOR VEP-HD, VEP-HDL STANDARD THREADS

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
5/8	VEP15HD	55	7975	55	7975	33	4785	140	20300	140	20300	100	14500
3/4	VEP17HD	50	7250	50	7250	33	4785	125	18130	125	18130	100	14500
1	VEP21HD	47	6815	47	6815	30	4350	120	17400	120	17400	80	11600
1-1/4	VEP25HDZN	42	6090	42	6090	30	4350	120	17400	120	17400	80	11600
1-1/2	VEP30HD	40	5800	40	5800	27	3915	110	15950	110	15950	80	11600

Size	Series/Size	Max. residual pressure during connection						Max. residual pressure during disconnection	
		Male, female to drain		Female, male to drain		Male and female			
in		MPa	psi	MPa	psi	MPa	psi	MPa	psi
5/8	VEP15HD	25	3625	25	3625	20	2900	20	2900
3/4	VEP17HD	25	3625	25	3625	15	2175	15	2175
1	VEP21HD	25	3625	25	3625	15	2175	15	2175
1-1/4	VEP25HDZN	25	3625	25	3625	5	725	5	725
1-1/2	VEP30HD	25	3625	25	3625	5	725	5	725

PERFORMANCES VEP-HD & VEP-HDL FLANGE

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
3/4	VEP17HD FLANGE	42	6090	42	6090	33	4785	165	24000	165	24000	100	14500
1	VEP21HD FLANGE	42	6090	42	6090	30	4350	165	24000	165	24000	80	11600
1-1/4	VEP25HDZN FLANGE	42	6090	42	6090	30	4350	165	24000	165	24000	80	11600
1-1/2	VEP30HD FLANGE	42	6090	42	6090	27	3915	165	24000	165	24000	80	11600

Size	Series/Size	Tightening torque		Max. residual pressure during connection						Max. residual pressure during disconnection	
				Male, female to drain		Female, male to drain		Male and female			
in		Nm	lbf ft	MPa	psi	MPa	psi	MPa	psi	MPa	psi
3/4	VEP17HD FLANGE	110-130	81-96	25	3625	25	3625	15	2175	15	2175
1	VEP21HD FLANGE	125-145	92-107	25	3625	25	3625	15	2175	15	2175
1-1/4	VEP25HDZN FLANGE	140-160	103-118	25	3625	25	3625	5	725	5	725
1-1/2	VEP30HD FLANGE	155-175	114-129	25	3625	25	3625	5	725	5	725

* Spillage is an indicative value of the fluid loss during disconnection (according to ISO norm test method). Connect torque and disconnect torque without residual pressure. The torque will increase as internal residual pressure increases.

Port configurations include internal female threads:
- BSP, NPT and SAE.
- CODE62 flange ports (ISO 6162-2 and SAE J518 interchangeable).

Two ports options are available:
FP “Flange Port” (4 bolt mating configuration).
FH “Flange Head” (head configuration and sealing groove).

BOP Only configurations mentioned in the dedicated BOP section of this catalog are BOP certified.

Different possible configurations:
Zn-Ni treatment is a standard for VEP25HD and avaiable upon request for the others size.
Different threads available upon request.

Temperature range:
Standard seals NBR, PUR, POM from -20 °C to +100 °C (from -4 °F to +212 °F).
Please read carefully Instructions and warnings for proper selection of the products.

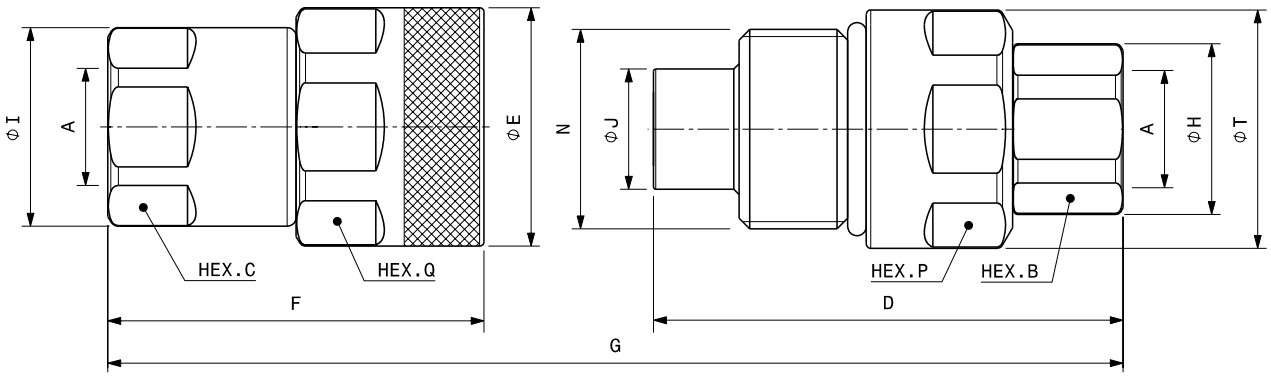
Tests:
Qualification tests have been performed with hydraulic oil using couplings with NBR (Nitrile) seals.
The max. operating pressure have been verified for 1.000.000 impulses according to ISO norm test method (VEP15HD and VEP25HDZN 500.000 impulses).
(VEP15HD and VEP25HDZN 500.000 impulses).

The couplings uncoupled have been tested at max. operating pressure for 100.000 impulses.

Connection and disconnection with residual pressure in both couplings is recommended for occasional operations only.
For ordinary operations it is suggested to release pressure in one side before to connect and disconnect in way that operator effort and wearing of the couplings are reduced.

FEMALE

MALE



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

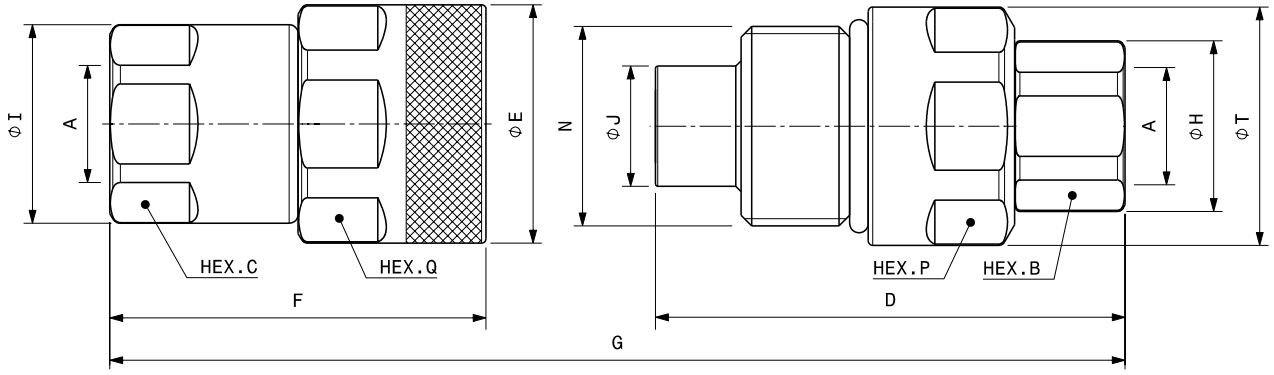
Body Size	Descriptive Code	Item Code		PORT (A)	N	Overall Length mm	Overall Length in	Length mm	Length in	Hex mm	Hex in	Hex mm	Hex in	Diameter mm	Diameter in	Weight kg	Weight lb
5/8"	F VEP15HD 3/4 BSP	Female	808100010	3/4"	M45x3	G 172,4	6,79	F 84,9	3,34	C 41,0	1,61	Q 50,0	1,97	E 53,8	2,12	0,92	2,03
	M VEP15HD 3/4 BSP	Male	808100011					D 106	4,17	B 36,0	1,42	P 50,0	1,97	T 53,8	2,12	0,94	2,07
3/4"	F VEP17HD 3/4 BSP	Female	808100018	3/4"	M50x3	G 200,9	7,91	F 99,7	3,93	C 46,0	1,81	Q 55,0	2,17	E 58,8	2,12	1,33	2,93
	M VEP17HD 3/4 BSP	Male	808100019					D 124,0	4,88	B 46,0	1,81	P 55,0	2,17	T 58,8	2,12	1,36	3,00
3/4"	F VEP17HD 1 BSP	Female	808100012	1"	M50x3	G 200,9	7,91	F 99,7	3,93	C 46,0	1,81	Q 55,0	2,17	E 58,8	2,31	1,28	2,82
	M VEP17HD 1 BSP	Male	808100013					D 124,0	4,88	B 46,0	1,81	P 55,0	2,17	T 58,8	2,31	1,30	2,87
1"	F VEP21HD 1 BSP	Female	808100020	1"	M58x3	G 216,2	8,51	F 106,8	4,20	C 55,0	2,17	Q 65,0	2,56	E 69,8	2,75	2,10	4,61
	M VEP21HD 1 BSP	Male	808100021					D 133,4	5,25	B 55,0	2,17	P 65,0	2,56	T 69,8	2,75	1,78	3,92
1"	F VEP21HD 1-1/4 BSP	Female	808100014	1-1/4"	M58x3	G 216,2	8,51	F 106,8	4,20	C 55,0	2,17	Q 65,0	2,56	E 69,8	2,75	2,02	4,45
	M VEP21HD 1-1/4 BSP	Male	808100015					D 133,4	5,25	B 55,0	2,17	P 65,0	2,56	T 69,8	2,75	1,79	3,95
1-1/4"	F VEP25HDZN 1-1/4 BSP	Female	812200010	1-1/4"	Rd68 x1/6	G 230,0	9,06	F 115,6	4,55	C 55,0	2,17	Q 75,0	2,95	E 80,0	3,15	2,68	5,91
	M VEP25HDZN 1-1/4 BSP	Male	812200011					D 141,8	5,58	B 65,0	2,56	P 70,0	2,76	T 80,0	3,15	2,44	5,38
1-1/2"	F VEP30HD 1-1/4 BSP	Female	808100022	1-1/4"	80x4 TpF	G 253,9	10,00	F 133,5	5,26	C 65,0	2,56	Q 85,0	3,35	E 95,0	3,74	4,40	9,69
	M VEP30HD 1-1/4 BSP	Male	808100023					D 150,0	5,91	B 65,0	2,56	P 75,0	2,95	T 82,5	3,25	3,36	7,39
1-1/2"	F VEP30HD 1-1/2 BSP	Female	808100016	1-1/2"	80x4 TpF	G 253,9	10,00	F 133,5	5,26	C 65,0	2,56	Q 85,0	3,35	E 95,0	3,74	4,36	9,61
	M VEP30HD 1-1/2 BSP	Male	808100017					D 150,0	5,91	B 65,0	2,56	P 75,0	2,95	T 94,4	3,72	3,30	7,28

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

Body Size	Descriptive Code	Item Code		PORT (A)	N	Overall Length mm	Overall Length in	Length mm	Length in	Hex mm	Hex in	Hex mm	Hex in	Diameter mm	Diameter in	Weight kg	Weight lb
3/4"	F VEP17HDZN 3/4 BSP	Female	812200008	3/4"	M50x3	G 200,9	7,91	F 99,7	3,93	C 46,0	1,81	Q 55,0	2,17	E 58,8	2,12	1,33	2,93
	M VEP17HDZN 3/4 BSP	Male	812200009					D 124,0	4,88	B 46,0	1,81	P 55,0	2,17	T 58,8	2,12	1,36	3,00
3/4"	F VEP17HDZN 1 BSP	Female	812200012	1"	M50x3	G 200,9	7,91	F 99,7	3,93	C 46,0	1,81	Q 55,0	2,167	E 58,8	2,12	1,28	2,82
	M VEP17HDZN 1 BSP	Male	812200013					D 124,0	4,88	B 46,0	1,81	P 55,0	2,17	T 58,8	2,12	1,30	2,87
1"	F VEP21HDZN 1-1/4 BSP	Female	812200014	1-1/4"	M58x3	G 216,2	8,51	F 106,8	4,20	C 55,0	2,17	Q 65,0	2,56	E 69,8	2,75	2,02	4,45
	M VEP21HDZN 1-1/4 BSP	Male	812200015					D 133,4	5,25	B 55,0	2,17	P 65,0	2,56	T 69,8	2,75	1,79	3,95
1-1/2"	F VEP30HDZN 1-1/4 BSP	Female	812200018	1-1/4"	80X4 TpF	G 253,9	10,00	F 133,5	5,26	C 65,0	2,56	Q 85,0	3,35	E 95,0	3,74	4,40	9,69
	M VEP30HDZN 1-1/4 BSP	Male	812200019					D 150,0	5,91	B 65,0	2,56	P 75,0	2,95	T 82,5	3,25	3,36	7,39
1-1/2"	F VEP30HDZN 1-1/2 BSP	Female	812200016	1-1/2"	80X4 TpF	G 253,9	10	F 166,5	6,56	C 65,0	2,56	Q 65,0	2,55	E 95,0	3,74	4,36	9,61
	M VEP30HDZN 1-1/2 BSP	Male	812200017					D 183,0	7,21	B 65,0	2,56	P 55,0	2,15	T 94,4	3,72	3,30	7,28

FEMALE

MALE

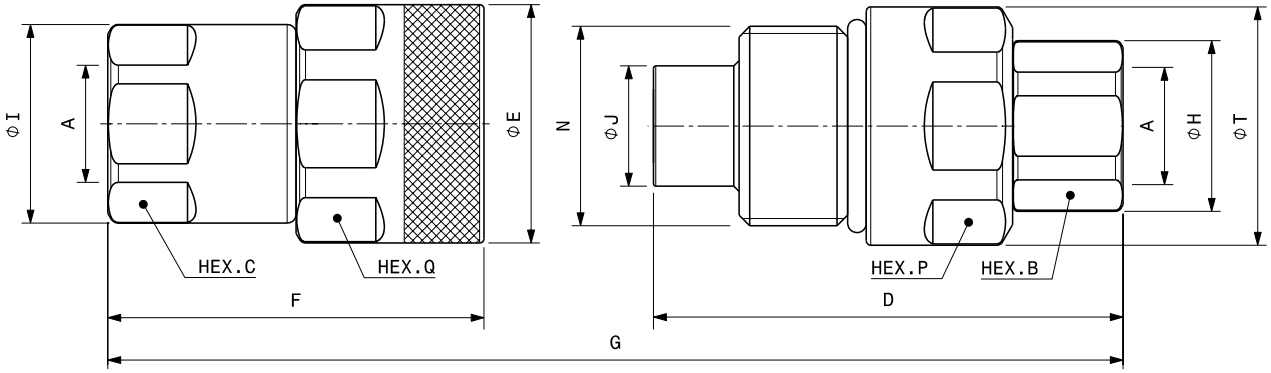


Port description: FEMALE THREAD NPT (ANSI B.1.20.1)

Body Size	Descriptive Code	Item Code		PORT (A)	N	Overall Length			Length			Hex			Hex			Diameter			Weight	
							mm	in		mm	in		mm	in		mm	in		mm	in	kg	lb
5/8"	F VEP15HD 3/4 NPT	Female	808101010	3/4"	M45x3	G	172,4	6,79	F	84,9	3,34	C	41,0	1,61	Q	50,0	1,97	E	53,8	2,12	0,93	2,05
	M VEP15HD 3/4 NPT	Male	808101011						D	106	4,17	B	36,0	1,42	P	50,0	1,97	T	53,8	2,12	0,95	2,09
3/4"	F VEP17HD 3/4 NPT	Female	808101018	3/4"	M50x3	G	201,0	7,91	F	99,7	3,93	C	46,0	1,81	Q	55,0	2,17	E	58,8	2,31	1,34	2,95
	M VEP17HD 3/4 NPT	Male	808101019						D	124,1	4,89	B	46,0	1,81	P	55,0	2,17	T	58,8	2,31	1,42	3,13
3/4"	F VEP17HD 1 NPT	Female	808101012	1"	M50x3	G	200,9	7,91	F	99,7	3,93	C	46,0	1,81	Q	55,0	2,17	E	58,8	2,31	1,28	2,82
	M VEP17HD 1 NP	Male	808101013						D	124,0	4,88	B	46,0	1,81	P	55,0	2,17	T	58,8	2,31	1,30	2,87
1"	F VEP21HD 1 NPT	Female	808101020	1"	M58x3	G	216,2	8,51	F	106,8	4,20	C	55,0	2,17	Q	55,0	2,17	E	69,8	2,75	2,11	4,65
	M VEP21HD 1 NPT	Male	808101021						D	133,4	5,25	B	55,0	2,17	P	55,0	2,17	T	69,8	2,75	1,89	4,15
1"	F VEP21HD 1-1/4 NPT	Female	808101014	1-1/4"	M58x3	G	216,2	8,51	F	106,8	4,20	C	55,0	2,17	Q	65,0	2,56	E	69,8	2,75	2,02	4,45
	M VEP21HD 1-1/4 NPT	Male	808101015						D	133,4	5,25	B	55,0	2,17	P	65,0	2,56	T	69,8	2,75	1,79	3,95
1-1/4"	F VEP25HDZN 1-1/4 NPT	Female	812201058	1-1/4"	Rd68 x1/6	G	227,7	8,77	F	110,6	4,35	C	55,0	2,17	Q	75,0	2,95	E	80,0	3,15	2,68	5,91
	M VEP25HDZN 1-1/4 NPT	Male	812201059						D	139,5	5,49	B	65,0	2,56	P	70,0	2,76	T	80,0	3,15	2,44	5,38
1-1/2"	F VEP30HD 1-1/2 NPT	Female	808101016	1-1/2"	80x4 TpF	G	253,9	10,00	F	133,5	5,26	C	65,0	2,56	Q	85,0	3,35	E	95,0	3,74	4,36	9,61
	M VEP30HD 1-1/2 NPT	Male	808101017						D	150,0	5,91	B	65,0	2,56	P	75,0	2,95	T	94,4	3,72	3,30	7,28

FEMALE

MALE

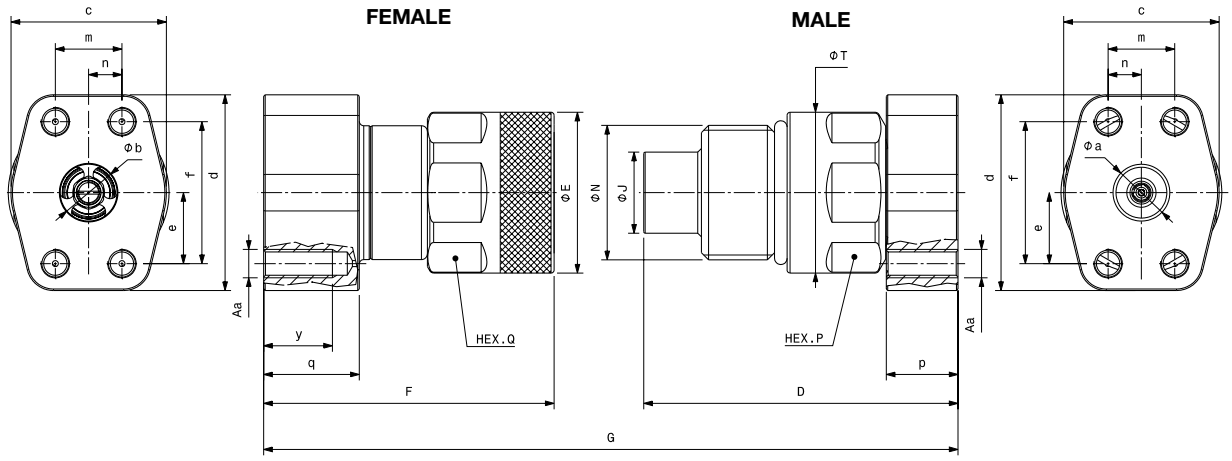


Port description: FEMALE THREAD SAE (ISO 11926-1 & SAE J1926-1)

Body Size	Descriptive Code	Item Code		PORT (A)	N	Overall Length			Length			Hex			Hex			Diameter			Weight	
							mm	in		mm	in		mm	in		mm	in		mm	in	kg	lb
5/8"	F VEP15HD 3/4 SAE	Female	808104010	1-1/16-12UN	M45x3	G	172,4	6,79	F	84,9	3,34	C	41,0	1,61	Q	50,0	1,97	E	53,8	2,12	0,91	2,01
	M VEP15HD 3/4 SAE	Male	808104011						D	106	4,17	B	41,0	1,61	P	50,0	1,97	T	53,8	2,12	1,0	2,20
3/4"	F VEP17HD 1 SAE	Female	808104012	1-5/16-12UN	M50x3	G	201,9	7,95	F	100,7	3,96	C	46,0	1,81	Q	55,0	2,17	E	58,8	2,31	1,27	2,80
	M VEP17HD 1 SAE	Male	808104013						D	124,0	4,88	B	46,0	1,81	P	55,0	2,17	T	58,8	2,31	1,29	2,84
1"	F VEP21HD 1 SAE	Female	808104020	1-5/16-12UN	M58x3	G	216,2	8,51	F	106,8	4,20	C	55,0	2,17	Q	65,0	2,56	E	69,8	2,75	2,11	4,65
	M VEP21HD 1 SAE	Male	808104021						D	133,4	5,25	B	55,0	2,17	P	65,0	2,56	T	69,8	2,75	1,89	4,15
1"	F VEP21HD 1-1/4 SAE	Female	808104014	1-5/8-12UN	M58x3	G	216,2	8,51	F	106,8	4,20	C	55,0	2,17	Q	65,0	2,56	E	69,8	2,75	2,01	4,43
	M VEP21HD 1-1/4 SAE	Male	808104015						D	133,4	5,25	B	55,0	2,17	P	65,0	2,56	T	69,8	2,75	1,78	3,92
1-1/4"	F VEP25HDZN 1-1/4 SAE	Female	812204058	1-5/8-12UN-2B	Rd68 x1/6	G	227,7	8,77	F	110,6	4,35	C	55,0	2,17	Q	75,0	2,95	E	80,0	3,15	2,68	5,91
	M VEP25HDZN 1-1/4 SAE	Male	812204059						D	139,5	5,49	B	65,0	2,56	P	70,0	2,76	T	80,0	3,15	2,44	5,38
1-1/2"	F VEP30HD 1-1/4 SAE	Female	808104022	1-5/8-12UN-2B	80x4 TpF	G	253,9	10,00	F	133,5	5,26	C	65,0	2,56	Q	85,0	3,35	E	95,0	3,74	4,42	9,73
	M VEP30HD 1-1/4 SAE	Male	808104023						D	150,0	5,91	B	65,0	2,56	P	75,0	2,95	T	94,4	3,72	3,38	7,43
1-1/2"	F VEP30HD 1-1/2 SAE	Female	808104016	1-7/8-12UN	80x4 TpF	G	253,9	10,00	F	133,5	5,26	C	65,0	2,56	Q	85,0	3,35	E	95,0	3,74	4,34	9,56
	M VEP30HD 1-1/2 SAE	Male	808104017						D	150,0	5,91	B	65,0	2,56	P	75,0	2,95	T	94,4	3,72	3,28	7,23

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

Body Size	Descriptive Code	Item Code		PORT (A)	N	Overall Length			Length			Hex			Hex			Diameter			Weight	
							mm	in		mm	in		mm	in		mm	in		mm	in	kg	lb
5/8"	F VEP15HDZN 3/4 SAE	Female	812204010	1-1/16-12UN	M45x3	G	172,4	6,79	F	84,9	3,34	C	41,0	1,61	Q	50,0	1,97	E	53,8	2,12	0,91	2,01
	M VEP15HDZN 3/4 SAE	Male	812204011						D	106,0	4,17	B	41,0	1,61	P	50,0	1,97	T	53,8	2,12	1,00	2,20
3/4"	F VEP17HDZN 1 SAE	Female	812204012	1-5/16-12UN	M50x3	G	201,9	7,95	F	100,7	3,96	C	46,0	1,81	Q	55,0	2,17	E	58,8	2,31	1,27	2,80
	M VEP17HDZN 1 SAE	Male	812204013						D	124,0	4,88	B	46,0	1,81	P	55,0	2,17	T	58,8	2,31	1,29	2,84
1"	F VEP21HDZN 1-1/4 SAE	Female	812204014	1-5/8-12UN	M58x3	G	216,2	8,51	F	106,8	4,20	C	55,0	2,17	Q	65,0	2,56	E	69,8	2,75	2,01	4,43
	M VEP21HDZN 1-1/4 SAE	Male	812204015						D	133,4	5,25	B	55,0	2,17	P	65,0	2,56	T	69,8	2,75	1,78	3,92
1-1/2"	F VEP30HDZN 1-1/2 SAE	Female	812204016	1-7/8-12UN	Rd68x1/6	G	253,9	10,00	F	133,5	5,26	C	65,0	2,56	Q	85,0	3,35	E	95,0	3,74	4,34	9,56
	M VEP30HDZN 1-1/2 SAE	Male	812204017						D	150,0	5,91	B	65,0	2,56	P	75,0	2,95	T	94,4	3,72	3,28	7,23



Port description: FLANGE PORT – 4 THREADED HOLES (ISO 6162-2 6000 psi & SAE J518)

For more detailed dimensions please contact Stucchi Technical support.

Body Size	Descriptive Code	Item Code	Diameter mm	Diameter in	N	Overall Length mm	Overall Length in	Length mm	Length in	Hex mm	Hex in	Diameter mm	Diameter in	Weight kg	Weight lb
3/4"	F VEP17HD 1 FPU CODE62 7/16-14UNC	Female 808124020	b 22,5	0,89	M50x3	G 217,9	8,58	F 115,7	6,13	Q 55,0	2,16	E 58,8	2,31	1,68	3,70
	M VEP17HD 1 FPU CODE62 7/16-14UNC	Male 808124021	a 22,0	0,87				D 125,0	6,90	P 55,0	2,16	T 58,8	2,31	1,65	3,64
1"	F VEP21HD 1 FPM CODE62 M12	Female 808124018	b 22,5	0,89	M58x3	G 228	8,98	F 116,8	4,6	Q 65,0	2,56	E 69,8	2,75	3,00	6,61
	M VEP21HD 1 FPM CODE62 M12	Male 808124019	a 22,5	0,89				D 135,2	5,32	P 65,0	2,56	T 69,8	2,75	2,97	6,55
1"	F VEP21HD 1-1/4 FPM CODE62 M14	Female 808124026	b 25,6	1,01	M58x3	G 228	8,98	F 116,8	4,6	Q 65,0	2,56	E 69,8	2,75	3,39	7,47
	M VEP21HD 1-1/4 FPM CODE62 M14	Male 808124027	a 25,0	0,98				D 135,2	5,32	P 65,0	2,56	T 69,8	2,75	2,97	6,55
1"	F VEP21HD 1-1/4 FPU CODE62 1/2-13UNC	Female 808124022	b 25,6	1,01	M58x3	G 215	8,46	F 115,8	6,72	Q 65,0	2,56	E 69,8	2,75	2,60	5,73
	M VEP21HD 1-1/4 FPU CODE62 1/2-13UNC	Male 808124023	a 25,6	1,01				D 123,2	7,25	P 65,0	2,56	T 69,8	2,75	2,16	4,76
1-1/4"	F VEP25HDZN 1-1/4 FPM CODE62 M12	Female 812224058	b 31,8	1,25	Rd68 x1/6	G 234,5	9,23	F 122,5	4,82	Q 37	1,46	E 80	3,15	3,72	8,20
	M VEP25HDZN 1-1/4 FPM CODE62 M12	Male 812224059	a 31,8	1,25				D 139,4	5,49	P 35	1,38	T 80	3,15	3,28	7,23
1-1/4"	F VEP25HDZN 1-1/4 FPU CODE62 1/2-13UNC	Female 812224060	b 31,8	1,25	Rd68 x1/6	G 234,5	9,23	F 122,5	4,82	Q 37	1,46	E 80	3,15	3,72	8,20
	M VEP25HDZN 1-1/4 FPU CODE62 1/2-13UNC	Male 812224061	a 31,8	1,25				D 139,4	5,49	P 35	1,38	T 80	3,15	3,28	7,23
1-1/2"	F VEP30HD 1-1/4 FPM CODE62 M14	Female 808124034	b 32,0	1,26	80x4 Tr	G 266,5	10,49	F 148,5	8,25	Q 85,0	3,35	E 95,0	3,74	5,23	11,53
	M VEP30HD 1-1/4 FPM CODE62 M14	Male 808124035	a 32,0	1,26				D 147,6	8,33	P 75,0	2,95	T 94,4	3,72	3,85	8,49
1-1/2"	F VEP30HD 1-1/2 FPU CODE62 5/8-11UNC	Female 808124024	b 35,0	1,38	80x4 Tr	G 276,6	10,89	F 156,6	6,17	Q 85,0	3,35	E 95,0	3,74	6,91	15,23
	M VEP30HD 1-1/2 FPU CODE62 5/8-11UNC	Male 808124025	a 32,0	1,26				D 149,6	5,89	P 75,0	2,95	T 94,4	3,72	4,81	10,60
1-1/2"	F VEP30HD 1-1/2 FPM CODE62 M16	Female 808124028	b 35,0	1,38	80x4 Tr	G 262,6	10,34	F 150,6	5,93	Q 85,0	3,35	E 95,0	3,74	6,91	15,23
	M VEP30HD 1-1/2 FPM CODE62 M16	Male 808124029	a 32,0	1,26				D 141,6	5,57	P 75,0	2,95	T 94,4	3,72	4,81	10,60
1-1/2"	F VEP30HD 1-1/4 FPU CODE62 1/2-13UNC	Female 808124036	b 32,0	1,26	TpF80x4	G 266,5	10,49	F 148,5	5,85	Q 85,0	3,35	E 95,0	3,74	5,91	13,02
	M VEP30HD 1-1/4 FPU CODE62 1/2-13UNC	Male 808124037	a 32,0	1,26				D 147,6	5,81	P 75,0	2,95	T 94,4	3,72	4,17	9,19
1-1/2"	F VEP30HD 1-1/4 FPM CODE62 M12	Female 808124040	b 32,0	1,26	TpF80x4	G 266,5	10,49	F 148,5	5,85	Q 85,0	3,35	E 95,0	3,74	5,92	13,05
	M VEP30HD 1-1/4 FPM CODE62 M12	Male 808124041	a 32,0	1,26				D 147,6	5,81	P 75,0	2,95	T 94,4	3,72	4,18	9,22

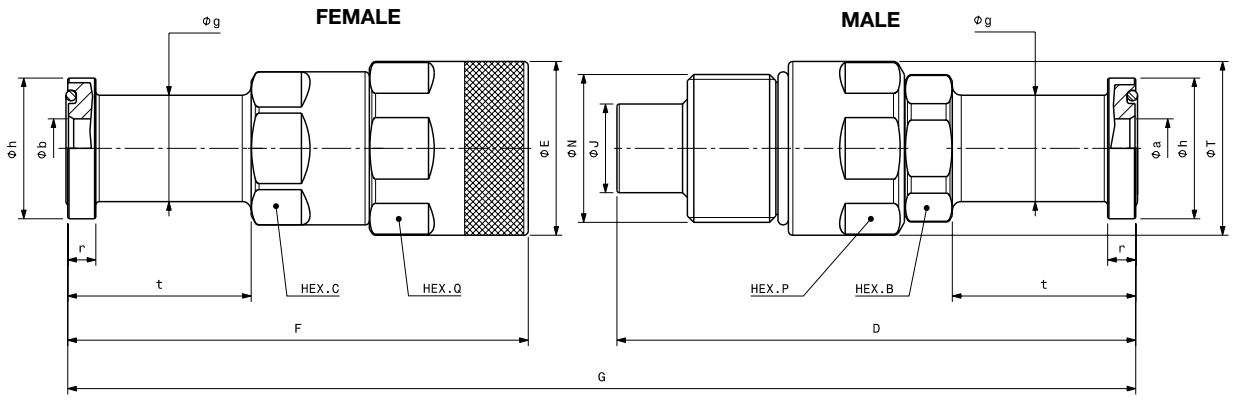
Port description: FLANGE PORT – 4 THREADED HOLES (ISO 6162 - 2 6000 psi & SAE J518) - ZincNickel treatment

Body Size	Descriptive Code	Item Code	Diameter mm	Diameter in	N	Overall Length mm	Overall Length in	Length mm	Length in	Hex mm	Hex in	Diameter mm	Diameter in	Weight kg	Weight lb
1"	F VEP21HDZN 1 FPM CODE62 M12	Female 812224018	b 22,5	0,89	M58x3	G 228	8,98	F 116,8	4,60	Q 65,0	2,56	E 69,8	2,75	3,00	6,61
	M VEP21HDZN 1 FPM CODE62 M12	Male 812224019	a 22,5	0,89				D 135,2	5,32	P 65,0	2,56	T 69,8	2,75	2,97	6,55
1-1/4"	F VEP30HDZN 1-1/4 FPM CODE62 M12	Female 812224040	b 31,8	1,25	Rd68x1/6	G 234,5	9,23	F 122,5	4,83	Q 37,0	1,46	E 80,0	3,15	3,72	8,20
	M VEP30HDZN 1-1/4 FPM CODE62 M12	Male 812224041	a 31,8	1,25				D 139,4	5,49	P 35,0	1,38	T 80,0	3,15	3,28	7,23
1-1/2"	F VEP30HDZN 1-1/2 FPU CODE62 5/8-11UNC	Female 812224024	b 35,0	1,38	80x4 Tr	G 276,6	10,89	F 156,6	6,17	Q 85,0	3,35	E 95,0	3,74	6,91	15,23
	M VEP30HDZN 1-1/2 FPU CODE62 5/8-11UNC	Male 812224025	a 32	1,26				D 149,6	5,89	P 75,0	2,95	T 94,4	3,72	4,17	9,19

Designation example VEP17HD1" FPU/M:

- VEP-HD (coupling series)
- 17 (size coupling Stucchi)
- 1" (size of flange)
- FP (Flange Port)
- U (flange threaded holes type UNC; M in case of metric threaded holes)
- CODE 62 (flanged coupling solution)

For complete technical information contact Stucchi via stucchigroup.com Contacts Form.



Port description: FLANGE HEAD – WITH O-RING (ISO 6162-2 6000 psi & SAE J518)

For more detailed dimensions please contact Stucchi Technical support.

Body Size	Descriptive Code	Item Code		Diameter mm	Diameter in	N	Overall Length	mm	in	Length	mm	in	Hex	mm	in	Hex	mm	in	Diameter	mm	in	Weight	kg	lb
3/4"	F VEP17HD 1 FH CODE62	Female	808124012	b	20,0	0,79	M50x3	G	308,3	12,14	F	155,7	6,13	C	46,0	1,81	Q	55,0	2,16	E	58,8	2,31	1,68	3,70
	M VEP17HD 1 FH CODE62	Male	808124013	a	20,0	0,79					D	175,4	6,90	B	46,0	1,81	P	55,0	2,16	T	58,8	2,31	1,65	3,63
1"	F VEP21HD 1-1/4 FH CODE 62	Female	808124014	b	25,6	1,01	M58x3	G	331,0	13,03	F	170,8	6,72	C	55,0	2,16	Q	65,0	2,56	E	69,8	2,75	2,60	5,72
	M VEP21HD 1-1/4 FH CODE 62	Male	808124015	a	25,6	1,01					D	184,2	7,25	B	55,0	2,16	P	65,0	2,56	T	69,8	2,75	2,16	4,75
1-1/4"	F VEP25HDZN 1-1/4 CODE 62 FH	Female	812224062	b	31,6	1,24	Rd68 x1/6	G	385,1	15,16	F	219,1	8,63	C	55,0	2,16	Q	75,0	2,95	E	80,0	3,15	2,68	5,91
	M VEP25HDZN 1-1/4 CODE 62 FH	Male	812224063	a	31,6	1,24					D	193,4	7,61	B	65,0	2,56	P	70,0	2,76	T	80,0	3,15	2,82	6,22
1-1/2"	F VEP30HD 1-1/4 FH CODE62	Female	808124038	b	28,0	1,1	TpF80x4	G	371,5	14,63	F	199,5	7,85	-	-	-	Q	85,0	3,35	E	95,0	3,74	5,04	11,11
	M VEP30HD 1-1/4 FH CODE62	Male	808124039	a	28,0	1,1					D	201,6	7,94	-	-	-	P	75,0	2,95	T	94,4	3,72	3,66	8,07
1-1/2"	F VEP30HD 1-1/2 FH CODE 62	Female	808124016	b	32,0	1,26	TpF80x4	G	391,5	15,41	F	209,5	8,25	C	65,0	2,56	Q	85,0	3,35	E	95,0	3,74	5,23	11,51
	M VEP30HD 1-1/2 FH CODE 62	Male	808124017	a	32,0	1,26					D	211,6	8,33	B	65,0	2,56	P	75,0	2,95	T	94,4	3,72	3,85	8,47

Port description: FLANGE HEAD – WITH O-RING (ISO 6162-2 6000 psi & SAE J518) - ZincNickel treatment

Body Size	Descriptive Code	Item Code		Diameter mm	Diameter in	N	Overall Length	mm	in	Length	mm	in	Hex	mm	in	Hex	mm	in	Diameter	mm	in	Weight	kg	lb
1-1/2"	F VEP30HDZN 1-1/4 FH CODE62	Female	812224038	b	28	1,1	TpF80x4	G	371,5	14,63	F	199,5	7,85	-	-	-	Q	85,0	3,35	E	95,0	3,74	5,04	11,11
	M VEP30HDZN 1-1/4 FH CODE62	Male	812224039	a	28	1,1					D	201,6	7,94	-	-	-	P	75,0	2,95	T	94,4	3,72	3,66	8,07
1-1/2"	F VEP30HDZN 1-1/2 FH CODE62	Female	812224016	b	32	1,26	TpF80x4	G	391,5	15,41	F	209,5	8,25	C	65,0	2,56	Q	85,0	3,35	E	95,0	3,74	5,23	11,51
	M VEP30HDZN 1-1/2 FH CODE62	Male	812224017	a	32	1,26					D	211,6	8,33	B	65,0	2,56	P	75,0	2,95	T	94,4	3,72	3,85	8,47

Designation example VEP17HD1"FH:

- VEP-HD (coupling series)
- 17 (size coupling Stucchi)
- 1" (size of flange)
- FH (Flange Head)
- CODE 62 (flanged coupling solution)

For complete technical information contact Stucchi via stucchigroup.com Contacts Form.

VEP-HDL version

VEP-HDL option is a female quick coupling interchangeable with standard VEP-HD series (flat face design, screw connection, connectable with residual pressure system), but equipped with special anti-unscrewing sleeve.

This series is suggested for specific heavy duty applications where the most severe pressure impulses are present, or else where you want to ensure that the operator successfully connect the male in the female coupling.

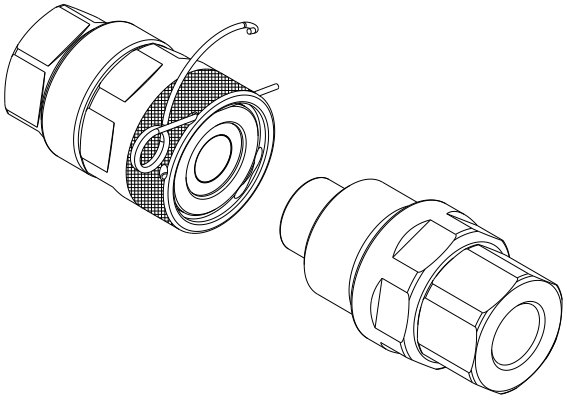
Female VEP-HDL version is interchangeable with male VEP-HD after removing yellow male external O-ring (upon request male without external O-ring).

Available sizes 5/8", 3/4", 1", 1-1/2"

Tested at 420 bar for 500.000 impulses connected.

VEP-HDL is available also with Zinc-Nickel treatment.

For specific codes and configuration or any other information, please contact Stucchi Technical Support.

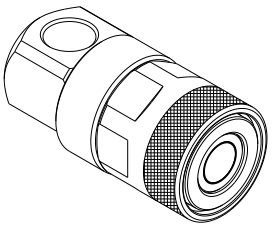


90°version

VEP-HD is available upon request also in special configuration with 90° fitting.

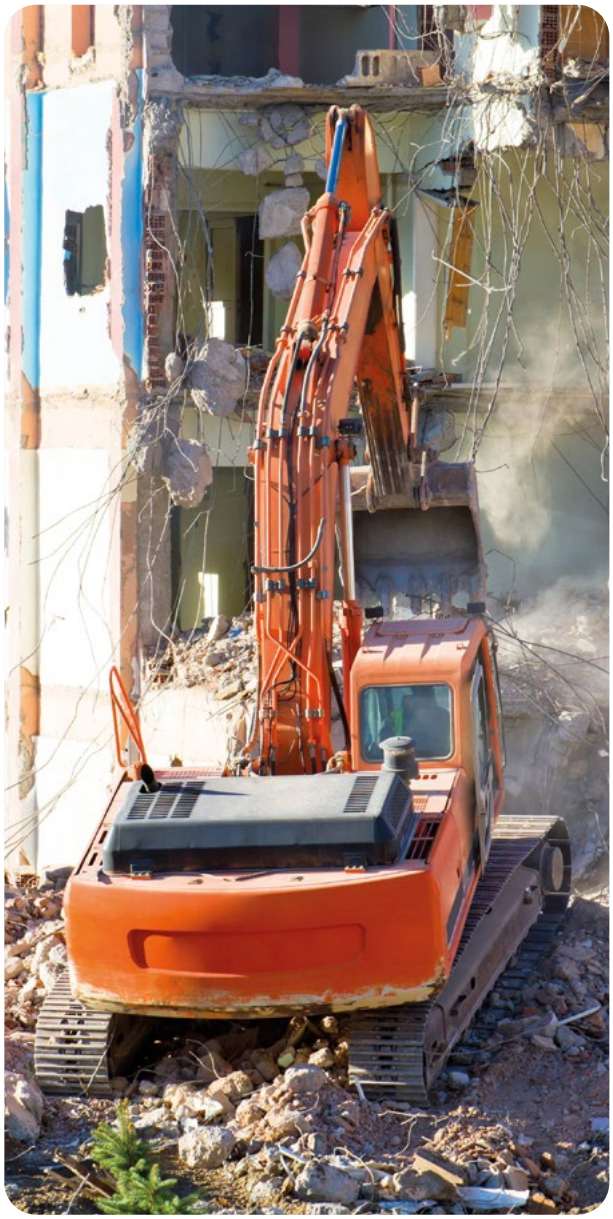
This version is ideal for applications with less space that requires a compact design and it guarantees the correct bending of the hose.

For specific codes, configuration or any other information, please contact Stucchi Technical Support.



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.
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.

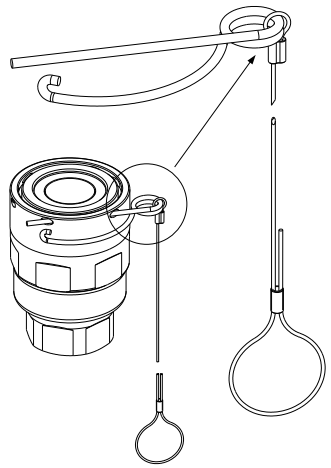


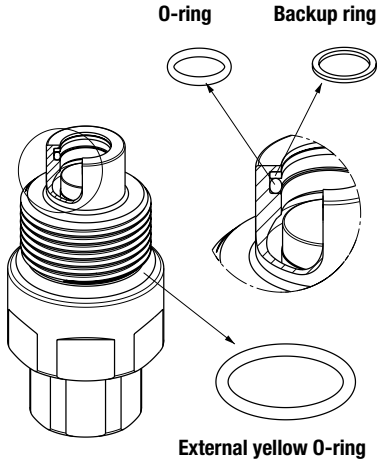
SPARE KIT SEAL & KIT COTTER

Repair kit / OR+BK+EXTERNAL OR		
Body Size	Description	Part Number
5/8”	M VEP15HD	815700738
3/4”	M VEP17HD	815700739
1”	M VEP21HD	815700740
1-1/4”	M VEP25HD	815701319
1-1/2”	M VEP30HD*	815700741

* OR + O-Ring holder

O-Ring in Nitrile
BackUp in Teflon®

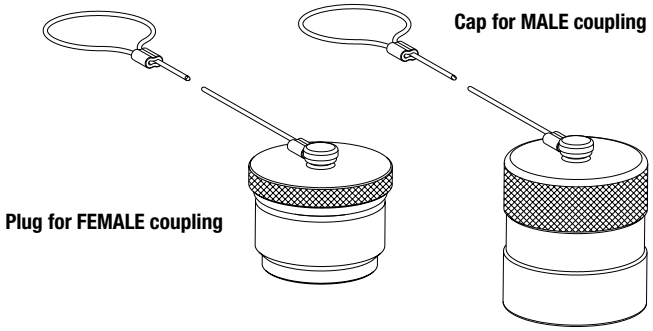




Kit Cotter VEP-HDL version		
Body Size	Description	Part Number
Ask to sales department		

PROTECTIVE CAPS FOR VEP-HD 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.
Two solutions are available.
• threaded aluminum caps with lanyard (standard colors: natural aluminum, other colors available upon request)
• threaded plastic caps with lanyard (standard color black).
Caps and plugs are also available without lanyard, upon request.



Protective Cap				
Body Size/Description		Part Number		Material/Color
		Plug for Female	Cap for Male	
5/8”	VEP15	815305076	815305077	Aluminum/Natural
3/4”	VEP17	815305078	815305079	Aluminum/Natural
1”	VEP21	815305080	815305081	Aluminum/Natural
1-1/4"	VEP25	815305148	815305149	Aluminium/Natural
1-1/2”	VEP30	815305082	815305083	Aluminum/Natural

Protective Cap				
Body Size/Description		Part Number		Material/Color
		Plug for Female	Cap for Male	
5/8”	VEP15	815303130	815303131	Plastic/Black
3/4”	VEP17	815303132	815303133	Plastic/Black
1”	VEP21	815303134	815303135	Plastic/Black
1-1/4"	VEP25	815303150	815303151	Plastic/Black
1-1/2”	VEP30	815303136	815303137	Plastic/Black

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