

TO
HYD

TRANSFER OIL
GENERAL CATALOGUE

TO
IND

V H P

// 041 VHP 10000

Check latest technical updates & crimping diameters



Thermoplastic hose with combined reinforcements for very high pressure hydraulic applications

up to 700 bar
(up to 10000 psi)



FEATURES

INNER TUBE

Polyester elastomer.

REINFORCEMENT

One or two braids of aramid fiber plus one braid of steel wire.

COVER

Polyurethane, black, non pinpricked, white inkjet branding.

APPLICATIONS

Rescue and safety equipment // High pressure systems and pumps // Bolt tensioning tools // Jacking and rerailing equipment.

FEATURES

Combined Aramid Steel braid construction for compact design // Lightweight and flexible // Light bend radii for use on hose reels and in tight environments // Antiabrasion cover.

TEMPERATURE RANGE

-40°C to +100°C (-40°F to +212°F); limited to +70°C (+158°F) for air and water based fluids.

DESCRIPTION

Exceeds the former American Jacking Specifications IJ100 (1/4") - Very High Pressure hose suitable for petroleum or synthetic or water based hydraulic fluids in hydraulic systems - Combined Aramid Steel braid ensures longevity pressure performance and compact design.

VACUUM RATING

0,93 bar; 700 mm Hg/-13,5 psi; 27,5 inch Hg

APPLICATIONS



OTHER FEATURES



TO Eco Hydraulic



VHP original parts.
Use VHP inserts and ferrules

STANDARD



Coils



Pallet

OPTIONAL



Reel



Twin multi-line



Multicolour

04R 04Y 04O 04B 04G

part no.	hose size			ID		OD		WP		BP		safety factor	bend radius		weight		ferrule part no.	
	dash	inch	DN	mm	inch	mm	inch	bar	psi	bar	psi		mm	inch	g/m	lbs/ft	std	A316L
0412	-4	1/4"	DN6	6,60	0,260	12,70	0,500	700	10000	2800	40000	4:1	35	1,38	180	0,121	SAF121	SAF821
0414	-6	3/8"	DN10	9,80	0,386	18,70	0,736	700	10000	2800	40000	4:1	90	3,54	330	0,222	SAF141	SAF841

BRANDING

TRANSFER OIL - TO HYDRAULIC - (PART No) - VHP 10000 - (INCH SIZE) - (DN SIZE) - WP (bar) / bar / (WP psi) / psi - MADE IN ITALY - www.transferoil.com - (BATCH No)

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TO HYDRAULIC

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PILOT FL

SAE 100R7

ANSI A92.2

1SB
STEEL BRAID

SAE 100R8

HR8

2SB-TWO
STEEL BRAIDS

HDH

SAE 100R18
CPLT 3000

CPLT 3600

CPLT 5000

CPHR 5000

VHP

OFF SHORE
MASTER

MICRO BORE

TWIN HOSES

MEDIUM PRESSURE

HIGH PRESSURE

CONSTANT PRESSURE

VERY HIGH PRESSURE

SPECIALTIES

VHP FERRULES

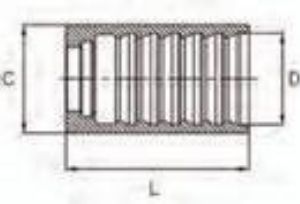
SAF CRIMPING FERRULE VHP TP-F

Check latest technical updates & crimping diameters



An extreme performing hose needs extreme performing fittings. For a hose of this Very High Pressure capability the ferrule and insert need to be specifically designed. Transfer Oil strongly recommend the use of original parts. For new applications, ferrules or fittings not listed in this file please contact us.

WARNING: always check bore collapse using go/no go bore gauge. If needed adjust crimping diameter in order to obtain the optimal bore collapse.



Carbon STEEL part no.	AISI 316L STEEL part no.	description	Hose Size		C mm	D mm	L mm
			DN	inch			
SAF101	SAF801	1/8" FERRULE VHP TP-F	DN4	1/8"	13,50	9,80	24,0
SAF111	SAF811	3/16" FERRULE VHP TP-F	DN5	3/16"	15,50	11,80	29,0
SAF121	SAF821	1/4" FERRULE VHP TP-F	DN6	1/4"	20,00	15,00	38,4
SAF131	SAF831	5/16" FERRULE VHP TP-F	DN8	5/16"	24,00	18,20	41,0
SAF141	SAF841	3/8" FERRULE VHP TP-F	DN10	3/8"	26,00	20,00	44,0
SAF151	SAF851	1/2" FERRULE VHP TP-F	DN12	1/2"	33,00	25,50	48,0
SAF161	SAF861	5/8" FERRULE VHP TP-F	DN16	5/8"	36,50	28,70	53,0
SAF171	SAF871	3/4" FERRULE VHP TP-F	DN20	3/4"	40,00	32,00	60,0
SAF181	SAF881	1" FERRULE VHP TP-F	DN25	1"	50,80	41,50	63,0

ACCESSORIES

STANDARD
FERRULES
AND INSERTS

VHP
FERRULES
AND INSERTS

MICRO BORE
FERRULES
AND INSERTS

PUSH-ON
INSERTS

INSTALLATION
FACTORS

FERRULE SELECTION BY HYDRAULIC AND INDUSTRIAL HOSE FAMILY ALL HOSES ARE AVAILABLE BOTH WITH STANDARD/AISI 316L STEEL

//SAFXXX CRIMPING FERRULE TP-F	AISI 316L STEEL	SAF801	SAF811	SAF821	SAF831	SAF841	SAF851	SAF861	SAF871	SAF881	-
	CARBON STEEL	SAF101	SAF111	SAF121	SAF131	SAF141	SAF151	SAF161	SAF171	SAF181	-
		1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1+1/4"
041X-VHP 10000				•		•					
046X-VHP NON COND.		•	•	•		•					
040X-VHP 10000 MARINER				•		•	•				
080X-VHP EXTRA				•							
060X-OFF SHORE MASTER 5000			•	•		•	•		•	•	
//159X-CNG 5000 COMP. NATURAL GAS HOSE							•		•		
//049X-HP AGGRESSIVE CHEMICALS						•	•				
//048X-VHP 10000 AGG. CHEMICALS				•	•	•	•	•	•	•	

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// TO FITTINGS

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VHP INSERTS

// STANDARD BSPP British Standard Pipe Parallel (BSPP)

Popular couplings British Standard Pipe (BSP) threads, also known as Whitworth threads.

The BSPP (parallel) male will mate with a BSPP (parallel) female or a female port. The BSPP male has straight threads and a 30° seat. The BSPP female has straight threads and a 30° seat.

The female swivel BSPP has a tapered nose which seals on the cone seat of the male.

The BSPP (parallel) connector is similar to, but not interchangeable with, the NPSM connector. The thread pitch is different in most sizes, and the thread angle is 55° instead of the 60° angle found on NPSM threads.

VHP INSERTS BSPP

// SOA - F-BSPP VHP C VHP STRAIGHT FEMALE BSPP 60° - 316L

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technical updates
& crimping
diameters

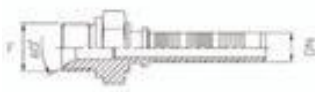


Carbon STEEL part no.	AISI 316L STEEL part no.	description	Hose Size		Thread	
			DN	inch	F	
SOA120	SOA820	1/4" F-BSPP VHP C 1/8"	DN4	1/8"	1/4"	19
SOA121	SOA821	1/4" F-BSPP VHP C 3/16"	DN5	3/16"	1/4"	19
SOA122	SOA822	1/4" F-BSPP VHP C 1/4"	DN6	1/4"	1/4"	19
SOA143	SOA843	3/8" F-BSPP VHP C 5/16"	DN8	5/16"	3/8"	19
SOA144	SOA844	3/8" F-BSPP VHP C 3/8"	DN10	3/8"	3/8"	19
SOA155	SOA855	1/2" F-BSPP VHP C 1/2"	DN12	1/2"	1/2"	14
SOA176	SOA876	3/4" F-BSPP VHP C 5/8"	DN16	5/8"	3/4"	14
SOA177	SOA877	3/4" F-BSPP VHP C 3/4"	DN20	3/4"	3/4"	14
SOA188	SOA888	1" F-BSPP VHP C 1"	DN25	1"	1"	11

VHP INSERTS BSPP

// SOB - M-BSPP VHP C VHP PARALLEL MALE BSPP - 316L

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technical updates
& crimping
diameters



Carbon STEEL part no.	AISI 316L STEEL part no.	description	Hose Size		Thread	
			DN	inch	F	
SOB120	SOB820	1/4" M-BSPP VHP C 1/8"	DN4	1/8"	1/4"	19
SOB121	SOB821	1/4" M-BSPP VHP C 3/16"	DN5	3/16"	1/4"	19
SOB122	SOB822	1/4" M-BSPP VHP C 1/4"	DN6	1/4"	1/4"	19
SOB142	SOB842	3/8" M-BSPP VHP C 1/4"	DN6	1/4"	3/8"	19
SOB144	SOB844	3/8" M-BSPP VHP C 3/8"	DN10	3/8"	3/8"	19
SOB155	SOB855	1/2" M-BSPP VHP C 1/2"	DN12	1/2"	1/2"	14
SOB177	SOB877	3/4" M-BSPP VHP C 3/4"	DN20	3/4"	3/4"	14
SOB188	SOB888	1" M-BSPP VHP C 1"	DN25	1"	1"	11



VHP INSERTS

// **STANDARD NPT**
National Pipe Tapered Fuel (NPTF)

This is a dryseal thread, the National pipe tapered thread for fuels. This is used for both male and female ends. This connection is still widely used in fluid power systems, even though it is not recommended by the National Fluid Power Association (N.F.P.A.) for use in hydraulic applications. The NPTF male will mate with the NPTF, NPSF or NPSM female.

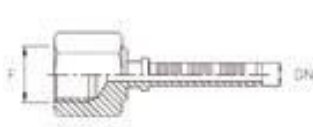
The NPTF male has tapered threads and a 30° inverted seat. The NPTF female has tapered threads and no seat. The seal takes place by deformation of the threads. The NPSM female has straight threads and a 30° inverted seat. The seal takes place on the 30° seat.

The NPTF connector is similar to, but not interchangeable with, the BSPT connector. The thread pitch is different in most sizes. Also, the thread angle is 60° instead of the 55° angle found on BSPT threads.

VHP INSERTS NPT

// **SOC - F-NPT VHP**
NPT VHP FEMALE - 316L

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Carbon STEEL part no.	AISI 316L STEEL part no.	description	Hose Size		Thread	
			DN	inch	F	
SOC122	SOC822	1/4" F-NPT VHP C 1/4"	DN6	1/4"	1/4"	18
SOC142	SOC842	3/8" F-NPT VHP C 1/4"	DN6	1/4"	3/8"	18

VHP INSERTS NPT

// **SOD - M-NPT VHP C**
VHP NPTF MALE - 316L

Check latest technical updates & crimping diameters



Carbon STEEL part no.	AISI 316L STEEL part no.	description	Hose Size		Thread	
			DN	inch	F	
SOD101	SOD801	1/8" M-NPT VHP C 3/16"	DN5	3/16"	1/8"	27
SOD121	SOD821	1/4" M-NPT VHP C 3/16"	DN5	3/16"	1/4"	18
SOD122	SOD822	1/4" M-NPT VHP C 1/4"	DN6	1/4"	1/4"	18
SOD142	SOD842	3/8" M-NPT VHP C 1/4"	DN6	1/4"	3/8"	18
SOD143	SOD843	3/8" M-NPT VHP C 5/16"	DN8	5/16"	3/8"	18
SOD144	SOD844	3/8" M-NPT VHP C 3/8"	DN10	3/8"	3/8"	18
SOD155	SOD855	1/2" M-NPT VHP C 1/2"	DN12	1/2"	1/2"	14
SOD177	SOD877	3/4" M-NPT VHP C 3/4"	DN20	3/4"	3/4"	14
SOD188	SOD888	1" M-NPT VHP C 1"	DN25	1"	1"	11,5



ACCESSORIES

STANDARD FERRULES AND INSERTS

// VHP FERRULES AND INSERTS

MICRO BORE FERRULES AND INSERTS

PUSH-ON INSERTS

INSTALLATION FACTORS

VHP INSERTS

// STANDARD JIC
SAE J514 370 (JIC)

The Society of Automotive Engineers (SAE) specifies a 37° angle flare or seat be used with high pressure hydraulic tubing. These are commonly called JIC couplings. The JIC 37° flare male will mate with a JIC female only. The JIC male has straight threads and a 37° flare seat. The JIC female has straight threads and a 37° flare seat. The seal is made on the 37° flare seat by establishing a line contact between the male flare and the female cone seat. The threads hold the connection mechanically.

VHP INSERTS JIC

// SOH - F VHP JIC C
STRAIGHT FEMALE JIC 74° - 316L

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technical updates
& crimping
diameters



Carbon STEEL part no.	AISI 316L STEEL part no.	description	hose size		thread	
			DN	inch	F	
SOH1B2	SOH8B2	9/16" F-JIC VHP C 1/4"	DN6	1/4"	9/16"	18
SOH1B4	SOH8B4	9/16" F-JIC VHP C 3/8"	DN10	3/8"	9/16"	18
SOH152	SOH852	1/2" F-JIC VHP C 1/4"	DN6	1/4"	1/2"	20
SOH174	SOH874	3/4" F-JIC VHP C 3/8"	DN10	3/8"	3/4"	16

VHP INSERTS BSPT

// STANDARD BSPT
British Standard Pipe Tapered (BSPT)

The BSPT (tapered) male will mate with a BSPT (tapered) female, or a BSPP (parallel) female. The BSPT male has tapered threads. When mating with either the BSPT (tapered) female or the BSPP (parallel) female port, the seal is made on the threads accomplished by thread distortion. A thread sealant is recommended. The BSPT connector is similar to, but not interchangeable with, the NPT connector. The thread pitch is different in most cases, and the thread angle is 55° instead of the 60° angle found on NPT threads.

VHP INSERTS BSPT

// SOO - M-BSPT VHP
TAPERED MALE BSPT 60° - 316L

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technical updates
& crimping
diameters



Carbon STEEL part no.	AISI 316L STEEL part no.	description	hose size		thread	
			DN	inch	F	
SOO - M-BSPT VHP C - TAPERED MALE BSPT 60°						
SOO142	SOO842	3/8" M-BSPT VHP C 1/4"	DN6	1/4"	3/8"	19



VHP INSERTS

**// STANDARD DIN 24°
DIN 2353 / 3865 24°**

The DIN 24° cone male will mate with any of the three females listed: Female 24° cone with O-Ring, Female metric tube, Female Universal or 60° cone. The male has a 24° seat, straight metric threads, and a recessed counterbore with matches the tube O.D. used with it. The mating female may be a 24° cone with O-ring (DKO type), a metric tube fitting or a universal 24° or 60° cone. There is a light and heavy series DIN coupling. Proper identification is made by measuring both the tread size and the tube O.D. (the heavy series has a smaller tube O.D. than the light, but has a thicker wall section).

VHP INSERTS DIN 24°

**// SOM - F- VHP DKOS FEMALE
STRAIGHT FEMALE DIN 24° - 316L**

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Carbon STEEL part no.	AISI 316L STEEL part no.	description	Hose Size		Thread
			DN	inch	F
SOM132	SOM832	14X1.5 F-DKOS VHP C 1/4"	DN6	1/4"	14 X 1.5
SOM142	SOM842	16X1.5 F-DKOS VHP C 1/4"	DN6	1/4"	16 X 1.5
SOM152	SOM852	18X1.5 F-DKOS VHP C 1/4"	DN6	1/4"	18 X 1.5
SOM172	SOM872	22X1.5 F-DKOS VHP C 1/4"	DN6	1/4"	22 X 1.5
SOM174	SOM874	22X1.5 F-DKOS VHP C 3/8"	DN10	3/8"	22 X 1.5
SOM182	SOM882	24X1.5 F-DKOS VHP C 1/4"	DN6	1/4"	24 X 1.5
SOM185	SOM885	24X1.5 F-DKOS VHP C 1/2"	DN12	1/2"	24 X 1.5
SOM1G7	SOM8G7	36X2 F-DKOS VHP C 3/4"	DN20	3/4"	36 X 2
SOM1G8	SOM8G8	36X2 F-DKOS VHP C 1"	DN25	1"	36 X 2
SOM1H8	SOM8H8	42X2 F-DKOS VHP C 1"	DN25	1"	42 X 2

ACCESSORIES

STANDARD FERRULES AND INSERTS

// VHP FERRULES AND INSERTS

MICRO BORE FERRULES AND INSERTS

PUSH-ON INSERTS

INSTALLATION FACTORS

// TO FITTINGS



ACCESSORIES

STANDARD
FERRULES
AND INSERTS

//VHP
FERRULES
AND INSERTS

MICRO BORE
FERRULES
AND INSERTS

PUSH-ON
INSERTS

INSTALLATION
FACTORS

// TO FITTINGS
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VHP INSERTS DIN 24°

// **SOI - CEL - MALE VHP C**
MALE METRIC DIN 24° - 316 L

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diameters

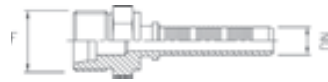


Carbon STEEL	AISI 316L STEEL	description	Hose Size		Thread	D
			DN	inch	F	
part no.	part no.					
SOI1XX - VHP CEL MALE						
SOI132	SOI832	14X1.5 M-CEL VHP C 1/4"	DN6	1/4"	14X1.5	8
SOI143	SOI843	16X1.5 M-CEL VHP C 5/16"	DN8	5/16"	16X1.5	10
SOI154	SOI854	18X1.5 M-CEL VHP C 3/8"	DN10	3/8"	18X1.5	12
SOI175	SOI875	22X1.5 M-CEL VHP C 1/2"	DN12	1/2"	22X1.5	15
SOI1F7	SOI8F7	30X2 M-CEL VHP C 3/4"	DN19	3/4"	30X2	22
SOI1G8	SOI8G8	36X2 M-CEL VHP C 1"	DN25	1"	36X2	28

VHP INSERTS DIN 24°

// **SOL - VHP CES MALE**
MALE CES DIN 24° VHP - 316 L

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technical updates
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diameters



Carbon STEEL	AISI 316L STEEL	description	Hose Size		Thread	D
			DN	inch	F	
part no.	part no.					
SOL - VHP CES MALE MALE CES DIN 24° VHP						
SOL152	SOL852	18X1.5 M-CES VHP C 1/4"	DN6	1/4"	18X1.5	10
SOL163	SOL863	20X1.5 M-CES VHP C 5/16"	DN8	5/16"	20X1.5	12
SOL174	SOL874	22X1.5 M-CES VHP C 3/8"	DN10	3/8"	22X1.5	14
SOL185	SOL885	24X1.5 M-CES VHP C 1/2"	DN12	1/2"	24X1.5	16
SOL1F6	SOL8F6	30X2 M-CES VHP C 5/8"	DN16	5/8"	30X2	20
SOL1G7	SOL8G7	36X2 M-CES VHP C 3/4"	DN19	3/4"	36X2	25
SOL1H8	SOL8H8	42X2 M-CES VHP C 1"	DN25	1"	42X2	30



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