

# SAF Crimping Ferrule VHP TP-F

ACCESSORIES

STANDARD

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.

### WARNING!

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

VHP

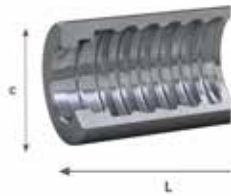
Transfer Oil strongly recommend the use of original parts. For new applications, ferrules or fittings not listed in this file please contact us.

FERRULES

INSERTS

MICRO BORE

PUSH-ON



Carbon STEEL	AISI 316L STEEL	Description	Minimum Pack quantity	Hose Size		C	D	L
Part. No	Part. No			DN	inch	mm	mm	mm
SAF101	SAF801	1/8" FERRULE VHP TP-F	20 pcs	4	1/8"	13,5	9,8	24
SAF111	SAF811	3/16" FERRULE VHP TP-F	20 pcs	5	3/16"	15,5	11,8	29
SAF121	SAF821	1/4" FERRULE VHP TP-F	20 pcs	6	1/4"	20	15	38,4
SAF131	SAF831	5/16" FERRULE VHP TP-F	20 pcs	8	5/16"	24	18,2	41
SAF141	SAF841	3/8" FERRULE VHP TP-F	20 pcs	10	3/8"	26	20	44
SAF151	SAF851	1/2" FERRULE VHP TP-F	20 pcs	12	1/2"	33	25,5	54
SAF161	SAF861	5/8" FERRULE VHP TP-F	2 pcs	16	5/8"	36,5	28,7	53
SAF171	SAF871	3/4" FERRULE VHP TP-F	2 pcs	20	3/4"	40	32	60
SAF172	SAF872	3/4" FERRULE VHP TP-F	2 pcs	20	3/4"	39	31	60
SAF181	SAF881	1" FERRULE VHP TP-F	2 pcs	25	1"	50,8	41,5	63

## Ferrule selection by hose family

All ferrules are available both with standard and AISI 316L steel

	AISI 316L STEEL	SAF801	SAF811	SAF821	SAF831	SAF841	SAF851	SAF861	SAF871	SAF872	SAF881
CARBON STEEL	SAF101	SAF111	SAF121	SAF131	SAF141	SAF151	SAF161	SAF171	SAF172	SAF181	
	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	3/4"	1"	
<b>HYDRAULIC</b>											
041X VHP 10000			•			•					
046X VHP NON COND	•	•	•			•					
040X VHP 10000 MARINER			•			•	•				
080X VHP EXTRA			•								
060X OFF SHORE MASTER 5000		•	•			•	•		•		•
168X OFF SHORE MASTER 10000			•								
<b>INDUSTRIAL</b>											
159X CNG 5000 COMP. NATURAL GAS HOSE			•			•	•		•		
049X HP AGGRESSIVE CHEMICALS						•	•				
048X VHP 10000 AGG. CHEMICALS			•	•		•	•	•	•		•

# SAL Crimping Ferrule VHP TP-L

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	AISI 316L STEEL	Description	Minimum Pack quantity	Hoze Size		C	D	L
Part. No	Part. No			DN	inch	mm	mm	mm
SAL171	SAL871	3/4" FERRULE OSM 3k TP-L	2 pcs	20	3/4"	-	-	-
SAL181	SAL881	1" FERRULE OSM 3k TP-L	20 pcs	25	1"	-	-	-

ACCESSORIES

STANDARD

VHP

FERRULES

INSERTS

MICRO BORE

PUSH-ON

## Ferrule selection by hose family

All ferrules are available both with standard and AISI 316L steel

AISI 316L STEEL	-	-	-	-	-	-	-	SAL871	SAL881	-
CARBON STEEL	-	-	-	-	-	-	-	SAL171	SAL181	-
	-	-	-	-	-	-	-	3/4"	1"	-

## HYDRAULIC

168X OFF SHORE MASTER 3K

• •

# Standard BSPP British Standard Pipe Parallel

ACCESSORIES

STANDARD

VHP

FERRULES

INSERTS

MICRO BORE

PUSH-ON

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.

## SOA F-BSPP VHP C VHP Straight Female BSPP 60°



Carbon STEEL	AISI 316L STEEL	Description	Minimum Pack quantity	Hose Size		Thread	
Part. No	Part. No			DN	inch	F	
SOA120	SOA820	1/4 F-BSPP VHP C 1/8	20 pcs	4	1/8"	1/4"	19
SOA121	SOA821	1/4 F-BSPP VHP C 3/16	20 pcs	5	3/16"	1/4"	19
SOA122	SOA822	1/4 F-BSPP VHP C 1/4	20 pcs	6	1/4"	1/4"	19
SOA143	SOA843	3/8 F-BSPP VHP C 5/16	20 pcs	8	5/16"	3/8"	19
SOA144	SOA844	3/8 F-BSPP VHP C 3/8	20 pcs	10	3/8"	3/8"	19
SOA155	SOA855	1/2 F-BSPP VHP C 1/2	20 pcs	12	1/2"	1/2"	14
SOA176	SOA876	3/4 F-BSPP VHP C 5/8	2 pcs	16	5/8"	3/4"	14
SOA177	SOA877	3/4 F-BSPP VHP C 3/4	2 pcs	20	3/4"	3/4"	14
SOA187	SOA887	1 F-BSPP VHP C 3/4	2 pcs	20	3/4"	3/4"	11
SOA198	SOA898	1+1/4 F-BSPP VHP C 1	2 pcs	20	1"	1+1/4"	11
SOA188	SOA888	1 F-BSPP VHP C 1	2 pcs	25	1"	1"	11

### Selection by hose family

All inserts are available both with standard and AISI 316L steel

	CARBON STEEL	SOA120	SOA121	SOA122	SOA143	SOA144	SOA155	SOA176	SOA177	SOA187	SOA198	SOA188
	AISI 316L STEEL	SOA820	SOA821	SOA822	SOA843	SOA844	SOA855	SOA876	SOA877	SOA887	SOA898	SOA888
		1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1"	1"
<b>HYDRAULIC</b>												
041X VHP 10000				•								
046X VHP NON CONDUCTIVE		•	•	•								
040X VHP 10000 MARINER				•		•	•					
080X VHP EXTRA				•								
168X FF SHORE MASTER 3K											•	•
060X OFF SHORE MASTER 5K			•	•		•	•		•	•	•	•
169X OFF SHORE MASTER 10K				•								
<b>INDUSTRIAL</b>												
15R CNG 5000 COMPRESSED NATURAL GAS HOSE				•		•	•		•	•	•	•
049 HP AGGRESSIVE CHEMICALS						•	•					
048 VHP AGGRESSIVE CHEMICALS				•	•	•	•	•	•	•	•	•

# SOB M-BSPP VHP C VHP Parallel Male BSPP

ACCESSORIES

STANDARD

VHP

FERRULES

INSERTS

MICRO BORE

PUSH-ON



Carbon STEEL	AISI 316L STEEL	Description	Minimum Pack quantity	Hose Size		Thread	
Part. No	Part. No			DN	inch	F	
SOB120	SOB820	1/4 M-BSPP VHP C 1/8	20 pcs	4	1/8"	1/4"	19
SOB121	SOB821	1/4 M-BSPP VHP C 3/16	20 pcs	5	3/16"	1/4"	19
SOB122	SOB822	1/4 M-BSPP VHP C 1/4	20 pcs	6	1/4"	1/4"	19
SOB142	SOB842	3/8 M-BSPP VHP C 1/4	20 pcs	6	1/4"	3/8"	19
SOB143	SOB843	3/8 M-BSPP VHP C 5/16	20 pcs	10	5/16"	3/8"	19
SOB144	SOB844	3/8 M-BSPP VHP C 3/8	20 pcs	10	3/8"	3/8"	19
SOB155	SOB855	1/2 M-BSPP VHP C 1/2	20 pcs	12	1/2"	1/2"	14
SOB176	SOB876	3/4 M-BSPP VHP C 5/8	20 pcs	20	5/8"	3/4"	14
SOB177	SOB877	3/4 M-BSPP VHP C 3/4	2 pcs	20	3/4"	3/4"	14
SOB188	SOB888	1 M-BSPP VHP C 1	2 pcs	25	1"	1"	11

## Selection by hose family

All inserts are available both with standard and AISI 316L steel

	CARBON STEEL	SOB120	SOB121	SOB122	SOB142	SOB143	SOB144	SOB155	SOB176	SOB177	SOB188
	AISI 316L STEEL	SOB820	SOB821	SOB822	SOB842	SOB843	SOB844	SOB855	SOB876	SOB877	SOB888
		1/8"	3/16"	1/4"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
<b>HYDRAULIC</b>											
041X - VHP 10000				•	•		•				
046X - VHP NON CONDUCTIVE		•	•	•	•		•				
040X - VHP 10000 MARINER				•	•		•	•			
080X - VHP EXTRA				•	•						
168X - OFF SHORE MASTER 3K											•
060X - OFF SHORE MASTER 5K			•	•			•	•		•	•
169X - OFF SHORE MASTER 10K				•	•						
<b>HYDRAULIC</b>											
15R - CNG 5000 - COMPRESSED NATURAL GAS HOSE				•			•	•		•	•
049 - HP AGGRESSIVE CHEMICALS							•	•			
048 - VHP AGGRESSIVE CHEMICALS				•	•	•	•	•	•	•	•

# Standard NPT National Pipe Tapered Fuel

## ACCESSORIES

### STANDARD

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 through it is not recommended by the National Fluid Power Association (NFPA) for use in hydraulic applications.

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.

### VHP

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 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.

### FERRULES

### INSERTS

### MICRO BORE

### PUSH-ON

## SOC F-NPT VHP NPT VHP Female



Carbon STEEL	AISI 316L STEEL	Description	Minimum Pack quantity	Hose Size		Thread	
Part. No	Part. No			DN	inch	F	
SOC122	SOC822	1/4 F-NPT VHP C 1/4	20 pcs	6	1/4"	1/4"	18
SOC142	SOC842	3/8 F-NPT VHP C 1/4	20 pcs	6	1/4"	3/8"	18

### Selection by hose family

All inserts are available both with standard and AISI 316L steel

	CARBON STEEL		AISI 316L STEEL										
					1/8"	3/16"	1/4"	1/4"	3/8"	1/2"	5/8"	3/4"	1"
<b>HYDRAULIC</b>													
041X VHP 10000			SOC122	SOC142									
046X VHP NON CONDUCTIVE			SOC822	SOC842									
040X VHP 10000 MARINER													
080X VHP EXTRA													
060X OFF SHORE MASTER 5K													
169X OFF SHORE MASTER 10K													
<b>INDUSTRIAL</b>													
15R CNG 5000 COMPRESSED NATURAL GAS HOSE													
048 VHP AGGRESSIVE CHEMICALS													

# SOD M-NPT VHP C NPTF Male

ACCESSORIES

STANDARD

VHP

FERRULES

INSERTS

MICRO BORE

PUSH-ON



Carbon STEEL	AISI 316L STEEL	Description	Minimum Pack quantity	Hose Size		Thread	
Part. No	Part. No			DN	inch	F	
SOD101	SOD801	1/8 M-NPT VHP C 3/16	20 pcs	DN5	3/16"	1/8"	27
SOD121	SOD821	1/4 M-NPT VHP C 3/16	20 pcs	DN5	3/16"	1/4"	18
SOD122	SOD822	1/4 M-NPT VHP C 1/4	20 pcs	DN6	1/4"	1/4"	18
SOD142	SOD842	3/8 M-NPT VHP C 1/4	20 pcs	DN6	1/4"	3/8"	18
SOD143	SOD843	3/8 M-NPT VHP C 5/16	20 pcs	DN8	5/16"	3/8"	18
SOD144	SOD844	3/8 M-NPT VHP C 3/8	20 pcs	DN10	3/8"	3/8"	18
SOD155	SOD855	1/2 M-NPT VHP C 1/2	20 pcs	DN12	1/2"	1/2"	14
SOD177	SOD877	3/4 M-NPT VHP C 3/4	2 pcs	DN20	3/4"	3/4"	14
SOD188	SOD888	1 M-NPT VHP C 1	2 pcs	DN25	1"	1"	11,5

## Selection by hose family

All inserts are available both with standard and AISI 316L steel

	CARBON STEEL	SOD101	SOD121	SOD122	SOD142	SOD143	SOD144	SOD155	SOD177	SOD188
	AISI 316L STEEL	SOD801	SOD821	SOD822	SOD842	SOD843	SOD844	SOD855	SOD877	SOD888
		3/16"	3/16"	1/4"	1/4"	5/16"	3/8"	1/2"	3/4"	1"
<b>HYDRAULIC</b>										
041X - VHP 10000				•	•		•			
046X - VHP NON CONDUCTIVE	•	•	•	•	•		•			
040X - VHP 10000 MARINER				•	•		•	•		
080X - VHP EXTRA				•	•					
168X - OFF SHORE MASTER 3K										•
060X - OFF SHORE MASTER 5K	•	•	•	•	•	•	•	•	•	•
169X - OFF SHORE MASTER 10K				•	•					
<b>HYDRAULIC</b>										
15R - CNG 5000 - COMPRESSED NATURAL GAS HOSE				•	•		•	•	•	•
049 - HP AGGRESSIVE CHEMICALS							•	•		
048 - VHP AGGRESSIVE CHEMICALS				•	•	•	•	•	•	•

# Standard JIC SAE J514 370

ACCESSORIES

STANDARD

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 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

The JIC 37° flare male will mate with a JIC female only.

FERRULES

## SOH F VHP JIC C Straight Female JIC 74°

INSERTS

MICRO BORE



PUSH-ON

Carbon STEEL	AISI 316L STEEL	Description	Minimum Pack quantity	Hose Size		Thread	
Part. No	Part. No			DN	inch	F	
SOH1A1	SOH8A1	7/16 F-JIC VHP C 3/16	20 pcs	6	3/16"	7/16"	20
SOH1A2	SOH8A2	7/16 F-JIC VHP C 1/4	20 pcs	6	1/4"	7/16"	20
SOH152	SOH852	1/2 F-JIC VHP C 1/4	20 pcs	6	1/4"	1/2"	20
SOH1B2	SOH8B2	9/16 F-JIC VHP C 1/4	20 pcs	6	1/4"	9/16"	18
SOH1B4	SOH8B4	9/16 F-JIC VHP C 3/8	20 pcs	10	3/8"	9/16"	18
SOH174	SOH874	3/4 F-JIC VHP C 3/8	20 pcs	10	3/8"	3/4"	16
SOH175	SOH875	3/4 F-JIC VHP C 1/2	20 pcs	12	1/2"	3/4"	16
SOH1C5	SOH8C5	7/8 F-JIC VHP C 1/2	20 pcs	12	1/2"	7/8"	14
SOH1D7	SOH8D7	1+1/16 F-JIC VHP C 3/4	2 pcs	20	3/4"	1+1/16"	12
SOH1F8	SOH8F8	1+5/16 F-JIC VHP C 1	2 pcs	25	1"	1+5/16"	12

### Selection by hose family

All inserts are available both with standard and AISI 316L steel

	CARBON STEEL	SOH1A1	-	SOH1A2	SOH152	SOH1B2	SOH1B4	SOH174	SOH1C5	SOH175	-	SOH1F8
	AISI 316L STEEL	SOH8A1	SOH8B1	SOH8A2	SOH854	SOH8B2	SOH8B4	SOH874	SOH8C5	SOH875	SOH8D7	SOH8F8
		3/16"	3/16"	1/4"	1/4"	1/4"	3/8"	3/8"	1/2"	1/2"	3/4"	1"
<b>HYDRAULIC</b>												
041X VHP 10000				•	•	•	•	•				
046X VHP NON CONDUCTIVE		•	•	•	•	•	•	•				
040X VHP 10000 MARINER				•	•	•	•	•	•	•		
080X VHP EXTRA				•	•	•						
168X OFF SHORE MASTER 3K												•
060X OFF SHORE MASTER 5K				•	•	•	•	•	•	•	•	•
169X OFF SHORE MASTER 10K		•	•		•							
<b>INDUSTRIAL</b>												
15R CNG 5000 COMPRESSED NATURAL GAS HOSE				•	•	•	•	•	•	•	•	•
049 - HP AGGRESSIVE CHEMICALS							•	•	•	•		
048 VHP AGGRESSIVE CHEMICALS				•	•	•	•	•	•	•	•	•

# Standard BSPT British Standard Pipe Tapered

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.

## SOO M-BSPT VHP Tapered Male BSPT 60°



Carbon STEEL	AISI 316L STEEL	Description	Minimum Pack quantity	Hose Size		Thread	
Part. No	Part. No			DN	inch	F	
SOO142	SOO842	3/8" M-BSPT VHP C 1/4"	20 pcs	6	1/4"	3/8"	19

ACCESSORIES

STANDARD

VHP

FERRULES

INSERTS

MICRO BORE

PUSH-ON

### Selection by hose family

All inserts are available both with standard and AISI 316L steel

	CARBON STEEL	AISI 316L STEEL	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
<b>HYDRAULIC</b>	-	-									
041X - VHP 10000					•						
046X - VHP NON CONDUCTIVE					•						
040X - VHP 10000 MARINER					•						
080X - VHP EXTRA					•						
168X - OFF SHORE MASTER 3K					•						
060X - OFF SHORE MASTER 5K					•						
169X - OFF SHORE MASTER 10K					•						
<b>INDUSTRIAL</b>											
15R - CNG 5000 - COMPRESSED NATURAL GAS HOSE					•						
049 - HP AGGRESSIVE CHEMICALS											
048 - VHP AGGRESSIVE CHEMICALS					•						



# Standard DIN 24° DIN 2353 / 3865 24°

## ACCESSORIES

### STANDARD

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.

There is a light and heavy series DIN coupling.

### VHP

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.

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).

### FERRULES

### INSERTS

### MICRO BORE

### PUSH-ON

## SOF F-VHP DKOL Female Straight Female DIN 24°



Carbon STEEL	AISI 316L STEEL	Description	Minimum Pack quantity	Hose Size		Thread
Part. No	Part. No			DN	inch	F
SOF132	-	14X1.5 F-DKOL VHP C 1/4"	20 pcs	6	1/4"	14 x 1.5
SOF154	-	18X1.5 F-DKOL VHP C 3/8"	20 pcs	10	3/8"	18 x 1.5
SOF175	-	22X1.5 F-DKOL VHP C 1/2"	20 pcs	12	1/2"	22 x 1.5
SOF196	-	26X1.5 F-DKOL VHP C 5/8"	2 pcs	16	5/8"	26 x 1.5

### Selection by hose family

	CARBON STEEL	SOF132	-	SOF154	SOF175	SOF196	-	-
		1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
<b>HYDRAULIC</b>								
041X - VHP 10000		•		•				
046X - VHP NON CONDUCTIVE		•		•				
040X - VHP 10000 MARINER		•		•	•			
080X - VHP EXTRA		•						
060X - OFF SHORE MASTER 5K		•		•	•			
169X - OFF SHORE MASTER 10K		•		•	•			
<b>INDUSTRIAL</b>								
15R - CNG 5000 - COMPRESSED NATURAL GAS HOSE		•		•	•			
049 - HP AGGRESSIVE CHEMICALS				•	•			
048 - VHP AGGRESSIVE CHEMICALS		•		•	•	•		

# SOM F VHP DKOS Female Straight Female DIN 24°

ACCESSORIES

STANDARD

VHP

FERRULES

INSERTS

MICRO BORE

PUSH-ON



Carbon STEEL	AISI 316L STEEL	Description	Minimum Pack quantity	Hose Size		Thread
Part. No	Part. No			DN	inch	F
SOM132	SOM832	14X1.5 F-DKOS VHP C 1/4"	20 pcs	6	1/4"	14 x 1.5
SOM142	SOM842	16X1.5 F-DKOS VHP C 1/4"	20 pcs	6	1/4"	16 x 1.5
SOM152	SOM852	18X1.5 F-DKOS VHP C 1/4"	20 pcs	6	1/4"	18 x 1.5
SOM172	SOM872	22X1.5 F-DKOS VHP C 1/4"	20 pcs	6	1/4"	22 x 1.5
SOM182	SOM882	24X1.5 F-DKOS VHP C 1/4"	20 pcs	6	1/4"	24 x 1.5
SOM163	-	20X1.5 F-DKOS VHP C 5/16"	20 pcs	8	5/16"	20 x 1.5
SOM164	-	20x1.5 F-DKOS VHP C 3/8"	20 pcs	10	3/8"	20 x 1.5
SOM174	SOM874	22X1.5 F-DKOS VHP C 3/8"	20 pcs	10	3/8"	22 X 1.5
SOM185	SOM885	24X1.5 F-DKOS VHP C 1/2"	20 pcs	12	1/2"	24 x 1.5
SOM1F6	-	30X2 F-DKOS VHP C 5/8"	2 pcs	16	5/8"	30 x 2
SOM1G7	SOM8G7	36X2 F-DKOS VHP C 3/4"	2 pcs	20	3/4"	36 x 2
SOM1G8	SOM8G8	36X2 F-DKOS VHP C 1"	2 pcs	25	1"	36 x 2
SOM1H8	SOM8H8	42X2 F-DKOS VHP C 1"	2 pcs	25	1"	42 x 2

## Selection by hose family

All inserts are available both with standard and AISI 316L steel

CARBON STEEL	SOM132	SOM142	SOM152	SOM172	SOM182	SOM163	SOM164	SOM174	SOM185	SOM1F6	SOM1G7	SOM1G8	SOM1H8
AISI 316L STEEL	SOM832	SOM842	SOM852	SOM872	SOM882	-	-	SOM874	SOM885	-	SOM8G7	SOM8G8	SOM8H8
	1/4"	1/4"	1/4"	1/4"	1/4"	5/16"	3/8"	3/8"	1/2"	5/8"	3/4"	1"	1"
041X - VHP 10000	•	•	•	•	•		•	•					
046X - VHP NON CONDUCTIVE	•	•	•	•	•		•	•					
040X - VHP 10000 MARINER	•	•	•	•	•		•	•	•				
080X - VHP EXTRA	•	•	•	•	•								
168X - OFF SHORE MASTER 3K											•	•	
060X - OFF SHORE MASTER 5K	•	•	•	•	•		•	•	•		•	•	•
169X - OFF SHORE MASTER 10K	•	•	•	•	•								

### HYDRAULIC

041X - VHP 10000	•	•	•	•	•		•	•					
046X - VHP NON CONDUCTIVE	•	•	•	•	•		•	•					
040X - VHP 10000 MARINER	•	•	•	•	•		•	•	•				
080X - VHP EXTRA	•	•	•	•	•								
168X - OFF SHORE MASTER 3K											•	•	
060X - OFF SHORE MASTER 5K	•	•	•	•	•		•	•	•		•	•	•
169X - OFF SHORE MASTER 10K	•	•	•	•	•								

### INDUSTRIAL

15R - CNG 5000 - COMPRESSED NATURAL GAS HOSE	•	•	•	•	•		•	•	•		•	•	•
049 - HP AGGRESSIVE CHEMICALS							•	•	•				
048 - VHP AGGRESSIVE CHEMICALS	•	•	•	•	•	•	•	•	•	•	•	•	•

# SOI CEL Male VHP C Male Metric DIN 24°

ACCESSORIES

STANDARD

**VHP**

FERRULES

INSERTS

MICRO BORE

PUSH-ON



Carbon STEEL	AISI 316L STEEL	Description	Minimum Pack quantity	Hose Size		Thread
Part. No	Part. No			DN	inch	F
SOI132	SOI832	14X1.5 M-CEL VHP C 1/4"	20 pcs	6	1/4"	14 x 1.5 8
SOI143	SOI843	16X1.5 M-CEL VHP C 5/16"	20 pcs	8	5/16"	16 x 1.5 10
SOI154	SOI854	18X1.5 M-CEL VHP C 3/8"	20 pcs	10	3/8"	18 x 1.5 12
SOI175	SOI875	22X1.5 M-CEL VHP C 1/2"	20 pcs	12	1/2"	22 x 1.5 15
SOI1F7	SOI8F7	30X2 M-CEL VHP C 3/4"	20 pcs	19	3/4"	30 x 2 22
SOI1G8	SOI8G8	36X2 M-CEL VHP C 1"	20 pcs	25	1"	36 x 2 28

## Selection by hose family

All inserts are available both with standard and AISI 316L steel

CARBON STEEL	-	-	SOI132	SOI143	SOI154	SOI175	-	SOI1F7	SOI1G8
AISI 316L STEEL	-	-	SOI832	SOI843	SOI854	SOI875	-	SOI8F7	SOI8G8
	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"

### HYDRAULIC

041X - VHP 10000			•			•			
046X - VHP NON CONDUCTIVE			•			•			
040X - VHP 10000 MARINER			•			•	•		
080X - VHP EXTRA			•						
168X - OFF SHORE MASTER 3K									•
060X - OFF SHORE MASTER 5K			•			•	•	•	•
169X - OFF SHORE MASTER 10K			•						

### INDUSTRIAL

15R - CNG 5000 - COMPRESSED NATURAL GAS HOSE			•			•	•	•	•
049 - HP AGGRESSIVE CHEMICALS						•	•		
048 - VHP AGGRESSIVE CHEMICALS			•	•	•	•		•	•

# SOL VHP CES Male CES DIN 24° VHP

ACCESSORIES

STANDARD

VHP

FERRULES

INSERTS

MICRO BORE

PUSH-ON



Carbon STEEL	AISI 316L STEEL	Description	Minimum Pack quantity	Hose Size		Thread	D
Part. No	Part. No			DN	inch	F	mm
SOL152	SOL852	18X1.5 M-CES VHP C 1/4"	20 pcs	6	1/4"	18 x 1.5	10
SOL163	SOL863	20X1.5 M-CES VHP C 5/16"	20 pcs	8	5/16"	20 x 1.5	12
SOL174	SOL874	22X1.5 M-CES VHP C 3/8"	20 pcs	10	3/8"	22 x 1.5	14
SOL185	SOL885	24X1.5 M-CES VHP C 1/2"	20 pcs	12	1/2"	24 x 1.5	16
SOL1F6	SOL8F6	30X2 M-CES VHP C 5/8"	2 pcs	16	5/8"	30 x 2	20
SOL1G7	SOL8G7	36X2 M-CES VHP C 3/4"	2 pcs	19	3/4"	36 x 2	25
SOL1H8	SOL8H8	42X2 M-CES VHP C 1"	2 pcs	25	1"	42 X 2	30

## Selection by hose family

All inserts are available both with standard and AISI 316L steel

	CARBON STEEL	-	-	SOL152	SOL163	SOL174	SOL185	SOL1F6	SOL1G7	SOL1H8
	AISI 316L STEEL	-	-	SOL852	SOL863	SOL874	SOL885	SOL8F6	SOL8G7	SOL8H8
		1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
<b>HYDRAULIC</b>										
041X - VHP 10000				•		•				
046X - VHP NON CONDUCTIVE				•		•				
040X - VHP 10000 MARINER				•		•	•			
080X - VHP EXTRA				•						
060X - OFF SHORE MASTER 3K										•
060X - OFF SHORE MASTER 5K				•		•	•		•	•
169X - OFF SHORE MASTER 10K				•						
<b>INDUSTRIAL</b>										
15R - CNG 5000 - COMPRESSED NATURAL GAS HOSE				•		•	•		•	•
049 - HP AGGRESSIVE CHEMICALS						•	•			
048 - VHP AGGRESSIVE CHEMICALS				•	•	•	•	•	•	•

# Standard NPSM National Pipe Straight Mechanical

ACCESSORIES

STANDARD

The NPSM female has straight threads and a 30° inverted seat. This is used on the female swivel nut of iron pipe swivel adapters.

The leak-resistant joint is not made by the sealing fit of threads, but by a tapered seat in the coupling end. This connection is sometimes used in fluid power systems.

VHP

FERRULES

## SOP F-NPSM VHP Female

INSERTS



MICRO BORE

PUSH-ON

Carbon STEEL	AISI 316L STEEL	Description	Minimum Pack quantity	Hose Size		Thread	D
Part. No	Part. No			DN	inch	F	mm
SOP122	-	1/4 F-NPSM VHP C 1/4	20 pcs	6	1/4"	14	18

### Selection by hose family

	CARBON STEEL	-	-	SOQ122	-	-	-	-	-
		1/8"	3/16"	1/4"	3/8"	1/2"	5/8"	3/4"	1"
<b>HYDRAULIC</b>									
041X - VHP 10000				•					
046X - VHP NON CONDUCTIVE				•					
040X - VHP 10000 MARINER				•					
080X - VHP EXTRA				•					
060X - OFF SHORE MASTER 3K									
060X - OFF SHORE MASTER 5K				•					
169X - OFF SHORE MASTER 10K				•					
<b>INDUSTRIAL</b>									
15R - CNG 5000 - COMPRESSED NATURAL GAS HOSE				•					
049 - HP AGGRESSIVE CHEMICALS									
048 - VHP AGGRESSIVE CHEMICALS				•					

# SOQ F-Type M VHP

ACCESSORIES

STANDARD

**VHP**

FERRULES

**INSERTS**

MICRO BORE

PUSH-ON



Carbon STEEL	AISI 316L STEEL	Description	Minimum Pack quantity	Hose Size		Thread
Part. No	Part. No			DN	inch	F
SOQ1B2	SOQ8B2	9/16 F-TYPE M VHP C 1/4	20 pcs	6	1/4"	9/16"-18 UNF

## Selection by hose family

All inserts are available both with standard and AISI 316L steel

CARBON STEEL			SOQ1B2									
AISI 316L STEEL			SOQ8B2									
				1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
	-	-		-	-	-	-	-	-	-	-	-
	-	-		-	-	-	-	-	-	-	-	-

### HYDRAULIC

041X - VHP 10000	•
046X - VHP NON CONDUCTIVE	•
040X - VHP 10000 MARINER	•
080X - VHP EXTRA	•
060X - OFF SHORE MASTER 3K	•
060X - OFF SHORE MASTER 5K	•
169X - OFF SHORE MASTER 10K	•

### INDUSTRIAL

15R - CNG 5000 - COMPRESSED NATURAL GAS HOSE	•
049 - HP AGGRESSIVE CHEMICALS	
048 - VHP AGGRESSIVE CHEMICALS	•

# Standard JIC SAE J514 370

ACCESSORIES

STANDARD

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 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

The JIC 37° flare male will mate with a JIC female only.

FERRULES

## SOH F-VHP JIC C Straight Female JIC 74°

INSERTS

MICRO BORE

Carbon STEEL Part. No	AISI 316L STEEL Part. No	Description	Minimum Pack quantity	Hose Size		Thread
				DN	inch	F
SOH1A1	SOH8A1	7/16 F-JIC VHP C 3/16	20	6	3/16"	7/16"
SOH1A2	SOH8A2	7/16 F-JIC VHP C 1/4	20	6	1/4"	7/16"
SOH152	SOH852	1/2 F-JIC VHP C 1/4	20	6	1/4"	1/2"
SOH1B2	SOH8B2	9/16 F-JIC VHP C 1/4	20	6	1/4"	9/16"
SOH1B4	SOH8B4	9/16 F-JIC VHP C 3/8	20	10	3/8"	9/16"
SOH174	SOH874	3/4 F-JIC VHP C 3/8	20	10	3/8"	3/4"
SOH175	SOH875	3/4 F-JIC VHP C 1/2	20	12	1/2"	3/4"
SOH1C5	SOH8C5	7/8 F-JIC VHP C 1/2	20	12	1/2"	7/8"
SOH1D7	SOH8D71	1+1/16 F-JIC VHP C 3/4	2	20	3/4"	1+1/16"
SOH1F8	SOH8F8	1+5/16 F-JIC VHP C 1	2	25	1"	1+5/16"

PUSH-ON

### Selection by hose family

All inserts are available both with standard and AISI 316L steel

	CARBON STEEL	SOH1A1 -	SOH1A2	SOH152	SOH1B2	SOH1B4	SOH174	SOH1C5	SOH175 -	SOH1F8		
	AISI 316L STEEL	SOH8A1	SOH8B1	SOH8A2	SOH854	SOH8B2	SOH8B4	SOH874	SOH8C5	SOH875	SOH8D7	SOH8F8
		3/16"	3/16"	1/4"	1/4"	1/4"	3/8"	3/8"	1/2"	1/2"	3/4"	1"
<b>HYDRAULIC</b>												
041X - VHP 10000				•	•	•	•	•				
046X - VHP NON CONDUCTIVE		•	•	•	•	•	•	•				
040X - VHP 10000 MARINER				•	•	•	•	•	•	•		
080X - VHP EXTRA				•	•	•						
060X - OFF SHORE MASTER 3K												•
060X - OFF SHORE MASTER 5K				•	•	•	•	•	•	•	•	•
169X - OFF SHORE MASTER 10K		•	•		•							
<b>INDUSTRIAL</b>												
15R - CNG 5000 - COMPRESSED NATURAL GAS HOSE				•	•	•	•	•	•	•	•	•
049 - HP AGGRESSIVE CHEMICALS							•	•	•	•		
048 - VHP AGGRESSIVE CHEMICALS				•	•	•	•	•	•	•	•	•