

Flexible Solutions



Hydraulic Fittings

Welcome

At Kays Trading, we have invested in facilities to provide a complete service solution for our valued customers. Here, we provide world-class quality Hoses and Fittings for all types of applications. The crimping of hoses takes place at our work-shop facility as well as onsite through our fleet of mobile workshops.

We are committed to provide our customers with a prompt and excellent service along with our World-class Quality products. Our Technical staff are among the best in the industry, having more than 10 years of industry specific experience.

Who we are

Kays Trading Company LLC is an Industrial Division of Al Dobowi Group. Al Dobowi Group is a leading name in the industry spread across the globe. It was established in 1976 in Dubai and is today one of the leading Automotive businesses in the Middle East. With global presence across four continents and a staff of over 2000, the Group is focussed on providing its clients with superior services and unique solutions.

The Group product portfolio includes leading brands of tyres, automotive batteries, traction batteries, lubricants, conveyor belt systems, technical rubber products, hoses and fittings.

The hoses division has invested in facilities to provide a complete service solution for its customers. The crimping of hoses takes place at its facility as well as onsite using the mobile workshops.

We offer wide range of products and solutions such as:

- Hydraulic Hoses
- Hydraulic Fittings
- Industrial Fittings
- Adapting Accessories
- Onsite Mobile Services

Workshop

Our workshop is fully equipped with cutting / crimping / testing facilities. The testing facility of upto 25000PSI is available. Highly qualified technicians having min. experience of 10 years +, Machinery is callibrated according to ISO standards on yearly basis

Mobile/ On-Site Facilities

We have a fleet of mobile vans that are fully equipped with stock & fittings & crimping facilities. They are just one phone call away from your doorsteps.

FACILITIES

Kays Trading has invested in facilities to provide a complete service solution for our valued customers. Here, we provide world-class quality Hoses and Fittings for all types of applications. The crimping of hoses takes place at our facility as well as onsite using the mobile workshops.

Warehouse, Storage & Delivery

Our centralized warehouse is located in the middle of Al Quoz Industrial Area, Dubai which can be easily approached from the main road. Ample parking space is available for deliveries.

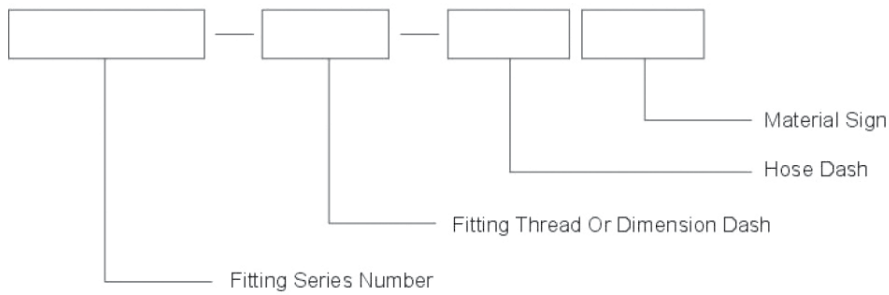
We take enough care to store our goods to protect them from any damage. Each roll of a hose is stacked carefully in separate bin, which ensures that our goods are stored safely.

Delivery & Packaging

We take extra care in delivering your goods and make sure that they reach you in safely and in crisp condition. We pack them carefully in individual packaging and ensure that the hoses are not bent at an awkward angle which might result in damage.

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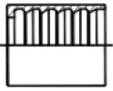

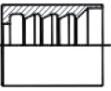
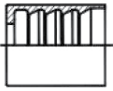
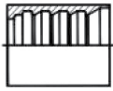
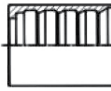
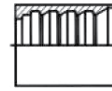
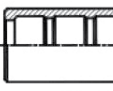
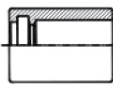
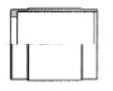
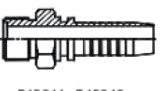
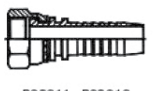



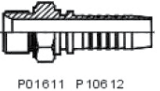

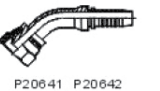
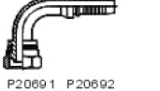

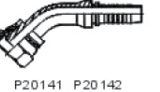
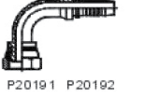
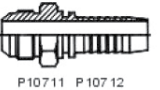
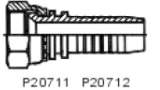
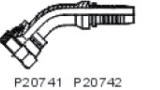
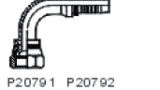


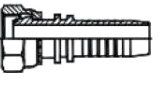



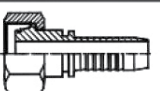
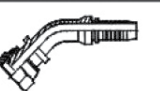

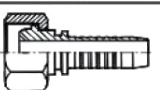
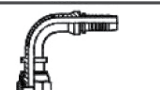
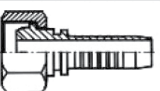
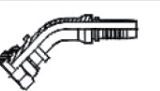
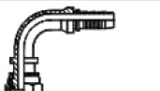
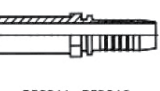
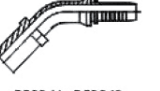
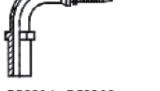
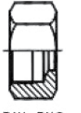
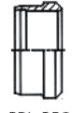
MATERIAL	CARBON STEEL	COPPER	STAINLESS STEEL
SIGN	—	BR	SS


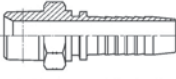


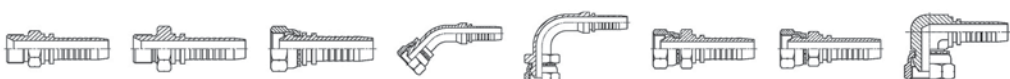


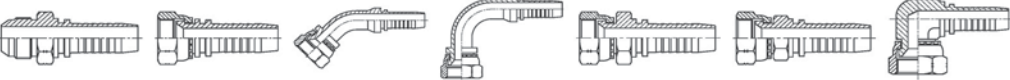




HOSE DN	3	4	5	6	8	10	12	16	20	22	25	32	40	45	50	64
HOSE DASH	-01	-02	-03	-04	-05	-06	-08	-10	-12	-14	-16	-20	-24	-28	-32	-40

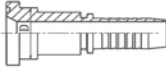



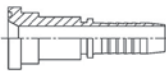
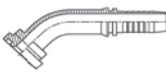






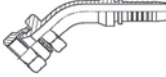

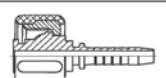


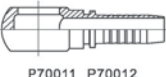
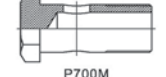
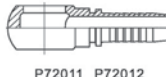
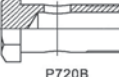
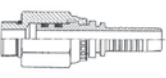

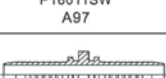
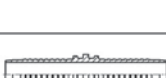
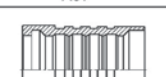
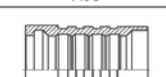

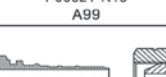


BSP THREAD	G1/8"X28	G1/4"X19	—	G3/8"X19	G1/2"X14	G5/8"X14	G3/4"X14	G1"X11	G1.1/4"X11	G1.1/2"X11	G2"X11
BSPT THREAD	R1/8"X28	R1/4"X19	—	R3/8"X19	R1/2"X14	—	R3/4"X14	R1"X11	R1.1/4"X11	R1.1/2"X11	R2"X11
NPT THREAD	Z1/8"X27	Z1/4"X18	—	Z3/8"X18	Z1/2"X14	—	Z3/4"X14	Z1"X11.5	Z1.1/4"X11.5	Z1.1/2"X11.5	Z2"X11.5
JIC THREAD	—	7/16"X20	1/2"X20	9/16"X18	3/4"X16	7/8"X14	1.1/16"X12	1.5/16"X12	1.5/8"X12	1.7/8"X12	2.1/2"X12
FLANGE SIZE	—	—	—	—	1/2"	—	3/4"	1"	1.1/4"	1.1/2"	2"
DASH	-02	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32















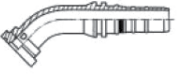


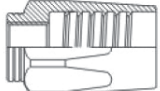
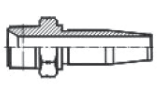

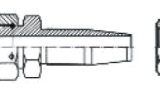
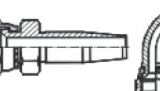





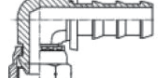



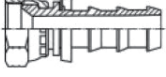
Note: The dash of metric thread accords with the O.D of thread.

Example: Fitting series is P15611, fitting thread is Z1/2"X14, hose bore is 12mm and is made of carbon steel the number is P15611-08-08, if made of stainless steel, the number is P15611-08-08SS.

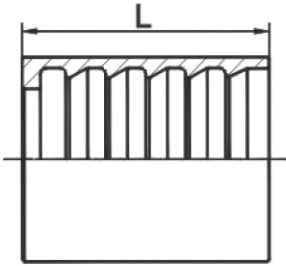
Swaged Hose Fitting	Ferrule	 P00110 A24	 P03310 A24	 P00200 A25	 P00210 A25	 P00400 A26	 P01400 A26	 P00401 A26
		 P00018 A27	 P00TF0 A27	 P00710 A28				
	Flat Seal	 P10311 P10312 A28	 P20211 P20212 A29	 P20231 P20232 A30	 P20241 P20242 A30	 P20291 P20292 A31		
	60° Cone Seal	 P01611 P10612 A32	 P20611 P20612 A33	 P20641 P20642 A34	 P20691 P20692 A34			
	Multiseal	 P20111 P20112 A35		 P20141 P20142 A36	 P20191 P20192 A37			
	74° Cone Seal	 P10711 P10712 A38	 P20711 P20712 A39	 P20741 P20742 A40	 P20791 P20792 A40			
	90° Cone Seal	 P10811L A41						
	24° Cone O-Ring Seal L.T.	 P10411 P10412 A42	 P20411 P20412 A44	 P20441 P20442 A45	 P20491 P20492 A46			
	24° Cone O-Ring Seal L.T.	 P10511 P10512 A43	 P20511 P20512 A47	 P20541 P20542 A48	 P20591 P20592 A49			
	24° Cone O-Ring Seal L.T.	 P20411C P20412C A50		 P20491C P20492C A50				
	24° Cone O-Ring Seal L.T.	 P20511C P20512C A51		 P20541C P20542C A51	 P20591C P20592C A52			
	Standpipe Straight	 P50011 P50012 A54		 P50041 P50042 A55	 P50091 P50092 A56	 PNL PNS A52 A53		 PRL PRS A53

Swaged Hose Fitting	BSP O-Ring Seal		P12211 P12212 A58
	BSPT		P13011-SP P13012-SP A57
	BSP Multiseal		P22111 P22112 A60 P22141 P22142 A61 P22191 P22192 A62
	BSP Flat Seal		P22211 P22212 A63 P22241 P22242 A64 P22291 P22292 A64
	BSP60° Cone Seal		P12611 P12612 A58 P12611A P12612A A59 P22611 P22612 A65 P22641 P22642 A66 P22691 P22692 A67 P22611D P22612D A68 P22611D-SM P22612D-SM A68 P22691K P22692K A69
	SAE O-Ring Seal		P16011 P16012 A69
	NPT		P15611 P15612 A70
	JIC 74° Cone Seal		P16711 P16712 A71 P26711 P26712 A72 P26741 P26742 A73 P26791 P26792 A74 P26711D P26712D A75 P26711D-SM P26712D-SM A75 P26791K P26792K A76
	SAE90° Cone Seal		P17811 P17812 A76 P27811 P27812 A77 P27841 P27842 A77 P27891 P27892 A78
	ORFS Flat Seal		P14211 P14212 A78 P24211 P24212 A79 P24241 P24242 A80 P24291 P24292 A81
	NPSM60° Cone Seal		P21611 P21612 A82 P21641 P21642 A82 P21691 P21692 A83
	SAE Flange L.T.		P87311 P87312 A84 P87341 P87342 A85 P87391 P87392 A86 PFL A88

Swaged Hose Fitting	SAE Flange H.T.	 P87611 P87612 A87	 P87641 P87642 A87	 P87691 P87692 A88	 PFS A89
	Flange	 P88111 P88112 A89	 P88141 P88142 A89	 P88191 P88192 A90	
	Metric 60° Cone Seal	 P18611 P18612 A90	 P28611 P28612 A91	 P28641 P28642 A91	 P28691 P28692 A92
	GAS60° Cone Seal	 P29611 P29612 A92	 P29641 P29642 A93	 P29691 P29692 A93	
	Metric Waterwash	 P20011-T A94			
	Staplelok	 P60011 P60012 A94	 P67011 P67012 A94		
	Banjo	 P70011 P70012 A95	 P700M A95	 P72011 P72012 A96	 P720B A96
	NPT Awivel	 P15611SW A97			
	SAE O-Ring Boss Awivel	 P16011SW A97			
	Double Connection	 P90011 A97	 P90012 A98		
Interlock Hose Fitting	Ferrule	 P00621 A99	 P00621-R15 A99		
	British	 P13013-SP A100	 P12613 A100	 P22613 A101	 P22613-OR A101

Interlock Hose Fitting	NPT	 P15613 A100
	JIC74° Cone Seal	 P26713 A101  P26793 A102
	Metric 24° Cone Seal H.T.	 P10513 A102  P20513 A102  P20543 A103  P20593 A103
	SAE Flange	 P87313 A104  P87343 A104  P87393 A105  P87613 A105  P87643 A106  P87693 A106
	9000PSI Flange	 P87913 A107  P87943 A107  P87993 A108
	Double Connection	 P90013 A108
Reusable Hose Fitting	 P00518 A109  P15618-R5 A109  P22618D-R5 A110  P16718-R5 A110  P26718D-R5 A111  P26798D-R5 A111	
Socketless Hose Fitting	 P13011-SP(PO) A112  P15611-PO A112  P12611-PO A112  P22611-PO A113  P22691K-PO A113	
	 P16711-PO A113  P26711-PO A114  P26791K-PO A114  P27811-PO A114	

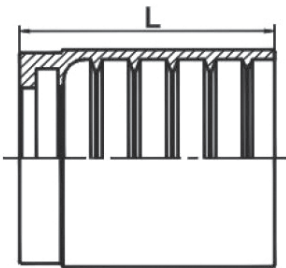
FERRULE FOR SAE 100R1 AT/EN853 1SN HOSE



P00110

PART NO.	HOSE BORE		DIMENSIONS
	DN	DASH	L
P00110-03	5	03	23
P00110-04	6	04	30
P00110-05	8	05	31
P00110-06	10	06	32
P00110-08	12	08	34
P00110-10	16	10	37
P00110-12	20	12	43
P00110-16	25	16	50
P00110-20	32	20	59
P00110-24	40	24	74
P00110-32	50	32	78

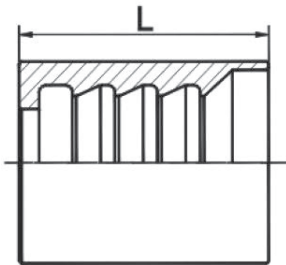
FERRULE FOR SAE 100R2 AT/EN853 2SN HOSE



P03310

PART NO.	HOSE BORE		DIMENSIONS
	DN	DASH	L
P03310-03	5	03	23
P03310-04	6	04	30.5
P03310-05	8	05	30
P03310-06	10	06	32
P03310-08	12	08	34
P03310-10	16	10	37
P03310-12	20	12	42
P03310-16	25	16	51

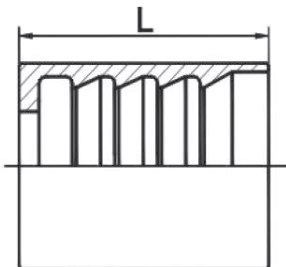
FERRULE FOR SAE 100R2 AT/EN853 2SN HOSE



P00200

PART NO.	HOSE BORE		DIMENSIONS
	DN	DASH	L
P00200-20	32	20	59
P00200-24	40	24	74
P00200-32	50	32	78

FERRULE FOR SAE 100R2 AT/DIN20022 2SN HOSE

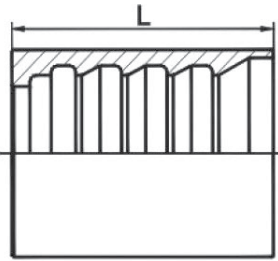


P00210

PART NO.	HOSE BORE		DIMENSIONS
	DN	DASH	L
P00210-03	5	03	27
P00210-04	6	04	30
P00210-05	8	05	31
P00210-06	10	06	32
P00210-08	12	08	34
P00210-10	16	10	37
P00210-12	20	12	43
P00210-16	25	16	50
P00210-20	32	20	59
P00210-24	40	24	74
P00210-32	50	32	78

Don't recommend for engineering machine.

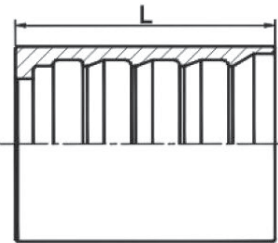
FERRULE FOR SASP, 4SH/12-16, R12/06-16 HOSE



P00400

PART NO.	HOSE BORE		DIMENSIONS
	DN	DASH	L
P00400-04	6	04	37.5
P00400-06	10	06	39
P00400-08	12	08	41
P00400-10	16	10	43
P00400-12	20	12	51
P00400-16	25	16	61.5
P00400-20	32	20	67.5
P00400-24	40	24	75
P00400-32	50	32	79

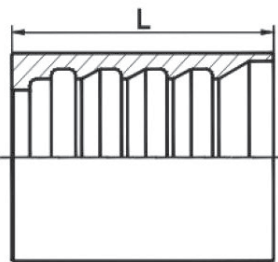
FERRULE FOR R12/20-24 HOSE



P01400

PART NO.	HOSE BORE		DIMENSIONS
	DN	DASH	L
P01400-20	32	20	67.5
P01400-24	38	24	75

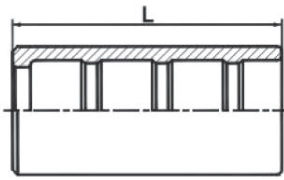
FERRULE FOR 4SH, R12/32 HOSE



P00401

PART NO.	HOSE BORE		DIMENSIONS
	DN	DASH	L
P00401-20	32	20	59
P00401-24	40	24	74
P00401-32	50	32	78

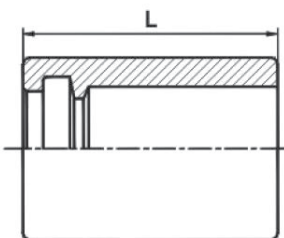
FERRULE FOR SAE 100 R7 HOSE



P00018

PART NO.	HOSE BORE		DIMENSIONS	
	DN	DASH	D	L
P00018-03	5	03	14.2	27
P00018-04	6	04	17	29
P00018-05	8	05	18.8	31
P00018-06	10	06	21	31
P00018-08	12	08	25.5	34
P00018-10	16	10	31.5	36
P00018-12	20	12	33	43

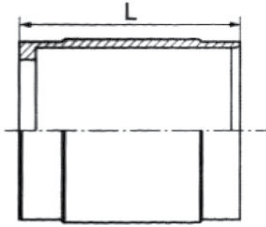
FERRULE FOR TEFLON HOSE



P00TF0

PART NO.	HOSE BORE		DIMENSIONS
	DN	DASH	L
P00TF0-03	4	03	27.5
P00TF0-04	6	04	30.7
P00TF0-05	8	05	30.6
P00TF0-06	10	06	32.1
P00TF0-08	12	08	34.3
P00TF0-10	16	10	37
P00TF0-12	20	12	42.8
P00TF0-14	22	14	42.7
P00TF0-16	25	16	50.8

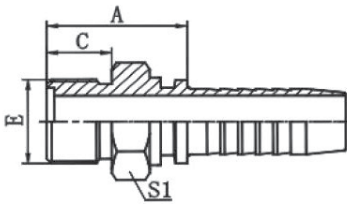
FERRULE FOR TEFLON HOSE



P00710

PART NO.	HOSE BORE		DIMENSIONS
	DN	DASH	L
P00710-06	10	06	28.6
P00710-08	12	08	30
P00710-12	20	12	38
P00710-16	25	16	45.9
P00710-20	32	20	54
P00710-24	40	24	57
P00710-32	50	32	69.8

O-RING METRIC MALE FLAT SEAL

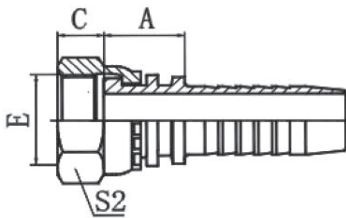


P10311

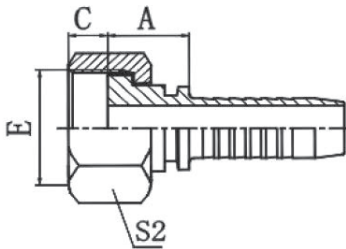
PART NO.	THREADE	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P10311-12-04	M12X1.25	6	04	22.5	10	14
P10311-14-04	M14X1.5	6	04	23.5	11	17
P10311-16-04	M16X1.5	6	04	23.5	11	17
P10311-16-05	M16X1.5	8	04	23.5	11	17
P10311-16-06	M16X1.5	10	06	23.5	11	17
P10311-18-06	M18X1.5	10	06	23.5	11	19
P10311-22-05	M22X1.5	8	05	27	12	22
P10311-22-06	M22X1.5	10	06	26	12	22
P10311-22-08	M22X1.5	12	08	26.5	12	22
P10311-27-10	M27X1.5	16	10	31.5	13	27
P10311-30-12	M30X1.5	20	12	33.5	14	32
P10311-36-12	M36X2	20	12	35.5	16	38
P10311-36-14	M36X2	22	14	35.5	16	38
P10311-39-16	M39X2	25	16	39	16	41
P10311-45-20	M45X2	32	20	44.5	20	46
P10311-52-24	M52X2	40	24	47.5	22	55
P10311-64-32	M64X2	50	32	52.5	27	65

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P10312-xx-xx.

METRIC FEMALE FLAT SEAT REF.GB/T 9065.3



P20211

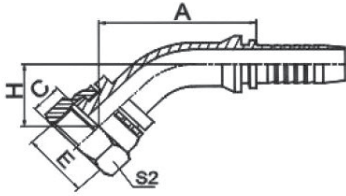


P20211-T

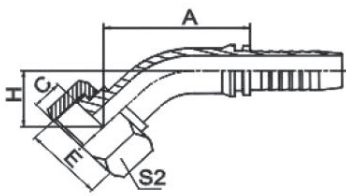
PART NO.	THREAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S2
P20211-10-02	M10X1	4	02	14	6	14
P20211-12-03	M12X1.25	5	03	14	8	17
P20211-14-04	M14X1.5	6	04	15.5	8.5	19
P20211-14-05	M14X1.5	8	05	15.5	8.5	19
P20211-16-04	M16X1.5	6	04	16.5	8	22
P20211-16-05	M16X1.5	8	05	16.5	8	22
P20211-16-06	M16X1.5	10	06	16.5	8	22
P20211-18-05T	M18X1.5	8	05	17.5	8	24
P20211-18-06	M18X1.5	10	06	17.5	8	24
P20211-20-06T	M20X1.5	10	06	16	10	24
P20211-20-08	M20X1.5	12	08	18.5	10	27
P20211-22-06T	M22X1.5	10	06	16	10	27
P20211-22-08	M22X1.5	12	08	18.5	10	27
P20211-22-10	M22X1.5	16	10	19.5	10	27
P20211-24-08T	M24X1.5	12	08	16.5	11	30
P20211-24-10	M24X1.5	16	10	20.5	10.5	30
P20211-27-08T	M27X1.5	12	08	18.5	10	32
P20211-27-10T	M27X1.5	16	10	19.5	10	32
P20211-30-12	M30X1.5	20	12	21.5	11	36
P20211-33-14	M33X2	22	14	21.5	13	41
P20211-36-12T	M36X2	20	12	20	13	41
P20211-36-14T	M36X2	22	14	20	13	41
P20211-39-16T	M39X2	25	16	23.5	13	46
P20211-42-20	M42X2	32	20	26	15	50
P20211-45-20T	M45X2	32	20	25	15	55
P20211-52-24T	M52X2	40	24	25	17	60
P20211-60-28T	M60X2	45	28	26	20	70
P20211-64-32T	M64X2	50	32	26	23	75

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20212-xx-xx.

30°METRIC FEMALE FLAT SEAT (REF.GB/T 9065.3)



P20231

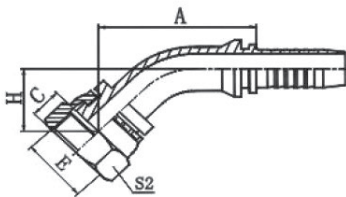


P20231-T

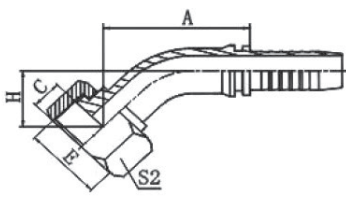
PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P20231-22-08	M22X1.5	12	08	63.3	10	15	27
P20231-27-10T	M27X1.5	16	10	73.7	10	15.1	32
P20231-30-12	M30X1.5	20	12	84.4	11	18.6	36
P20231-36-12T	M36X2	20	12	92.5	13	18.8	41
P20231-39-16T	M39X2	25	16	90.2	13	17.8	46
P20231-45-20T	M45X2	32	20	102.8	15	20	55
P20231-52-24T	M52X2	40	24	116.2	17	21.8	60

Note:1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20232-xx-xx_o.

45°METRIC FEMALE FLAT SEAT



P20241

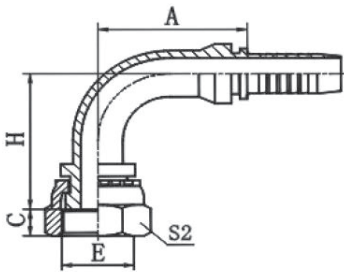


P20241-T

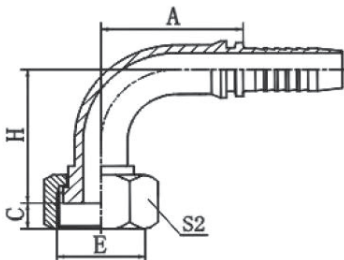
PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P20241-14-04	M14X1.5	6	04	40.5	8.5	18.5	19
P20241-14-05	M14X1.5	8	05	42.7	8.5	19.3	19
P20241-16-05	M16X1.5	8	05	44.4	8.5	20	22
P20241-18-06	M18X1.5	10	06	45.7	8	21.4	24
P20241-22-08	M22X1.5	12	08	58.9	10	24	27
P20241-27-10T	M27X1.5	16	10	68.6	10	24.3	32
P20241-30-12	M30X1.5	20	12	78.1	11	30	36
P20241-36-12T	M36X2	20	12	75	13	27.5	41
P20241-36-14T	M36X2	22	14	77.3	13	27	41
P20241-36-16	M36X2	25	16	85.7	13	31.5	41
P20241-39-16T	M39X2	25	16	83.9	13	29.7	46
P20241-42-20	M42X2	32	20	97.3	15	36.6	50
P20241-45-20T	M45X2	32	20	94.5	15	33.8	55
P20241-52-20T	M52X2	32	20	94.5	17	33.8	60
P20241-52-24T	M52X2	40	24	108.5	17	37.7	60
P20241-60-28T	M60X2	45	28	118.7	20	43.6	70
P20241-64-32T	M64X2	50	32	127.8	23	45.6	75

Note:1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20242-xx-xx_o.

90°METRIC FEMALE FLAT SEAT (REF.GB/T 9065.3)



P20291

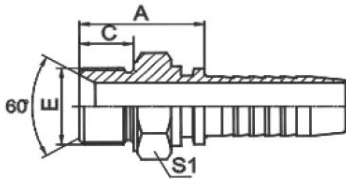


P20291-T

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P20291-12-02	M12X1.25	4	02	26.5	8	30.5	17
P20291-12-04	M12X1.25	6	04	30	8	33.5	17
P20291-14-04	M14X1.5	6	04	30	8.5	34	19
P20291-14-05	M14X1.5	8	05	33	8.5	37	19
P20291-16-04	M16X1.5	6	04	30	8	35	22
P20291-16-05	M16X1.5	8	05	34	8	38	22
P20291-16-06	M16X1.5	10	06	35.3	8	40.3	22
P20291-18-05T	M18X1.5	8	05	33	8	39	24
P20291-18-06	M18X1.5	10	06	35.75	8	41.3	24
P20291-22-08	M22X1.5	12	08	41	10	48	27
P20291-22-10	M22X1.5	16	10	57.5	10	53	27
P20291-24-08T	M24X1.5	12	08	41	11	45.5	30
P20291-27-04T	M27X1.5	6	04	30	10	35.5	32
P20291-27-08T	M27X1.5	12	08	41	10	46	32
P20291-27-10T	M27X1.5	16	10	56	10	51	32
P20291-30-12	M30X1.5	20	12	66.2	11	63.5	36
P20291-33-14	M33X2	22	14	71.2	13	65	41
P20291-36-14T	M36X2	22	14	71.2	13	61	41
P20291-36-16	M36X2	25	16	76.7	13	70	41
P20291-39-16T	M39X2	25	16	76.7	13	67.5	46
P20291-42-20	M42X2	32	20	91.5	15	82.5	50
P20291-45-20T	M45X2	32	20	91.5	15	78.5	55
P20291-52-20T	M52X2	32	20	91.5	17	78.5	60
P20291-52-24T	M52X2	40	24	109.4	17	92	60
P20291-60-28T	M60X2	45	28	119.9	20	106.5	70
P20291-64-32T	M64X2	50	32	130.95	23	113.3	75

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20292-xx-xx.

METRIC MALE DOUBLE USE FOR 60° CONE SEAT OR BONDED SEAL

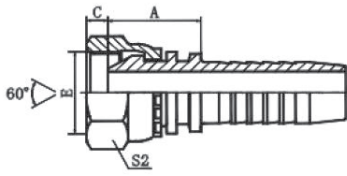


P10611

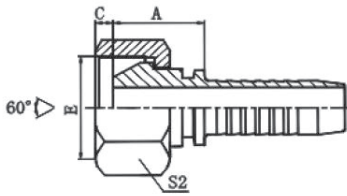
PART NO.	E THREAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S2
P10611-14-04	M14X1.5	6	04	23.5	11	19
P10611-14-06	M14X1.5	10	06	24	11	19
P10611-16-04	M16X1.5	6	04	27.5	12	22
P10611-16-05	M16X1.5	8	05	26.5	12	22
P10611-18-06	M18X1.5	10	06	29.5	12	24
P10611-22-06	M22X1.5	10	06	30.5	14	27
P10611-22-08	M22X1.5	12	08	32	14	27
P10611-24-10	M24X1.5	16	10	35	14	30
P10611-26-10	M26X1.5	16	10	35	16	32
P10611-27-10D	M27X1.5	16	10	35	16	32
P10611-27-10	M27X2	16	10	37	18	32
P10611-30-12D	M30X1.5	20	12	38	18	36
P10611-30-12	M30X2	20	12	38	18	36
P10611-33-16	M33X2	25	16	43	20	46
P10611-42-20	M42X2	32	20	46	20	50
P10611-45-20	M45X2	32	20	46	20	55
P10611-48-24	M48X2	40	24	46	20	55
P10611-52-24	M52X2	40	24	46	20	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P10612-xx-xx.

METRIC MALE 60° CONE



P20611

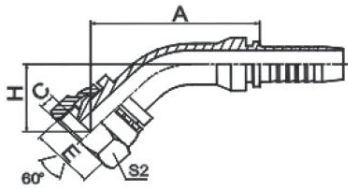


P20611-T

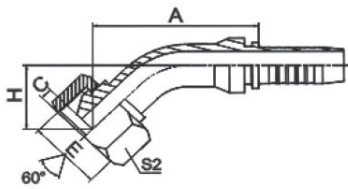
PART NO.	THREAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S2
P20611-14-04	M14X1.5	6	04	18	5.5	19
P20611-16-05	M16X1.5	8	05	19	5.5	22
P20611-16-06	M16X1.5	10	06	19	5.5	22
P20611-18-06	M18X1.5	10	06	20	5.5	24
P20611-20-08	M20X1.5	12	08	22	6.5	27
P20611-22-08	M22X1.5	12	08	22.5	6	27
P20611-24-10	M24X1.5	16	10	24.5	6.5	30
P20611-26-10	M26X1.5	16	10	25.5	6	32
P20611-27-10DT	M27X1.5	16	10	25.5	6	32
P20611-27-10T	M27X2	16	10	25.5	6	32
P20611-30-10D	M30X1.5	16	10	26.5	6	36
P20611-30-12D	M30X1.5	20	12	26.5	6	36
P20611-30-12	M30X2	20	12	26.5	6	36
P20611-36-16	M36X2	25	16	30	6.5	41
P20611-39-16T	M39X2	25	16	30	6.5	46
P20611-45-20T	M45X2	32	20	31	8.5	55
P20611-52-24T	M52X2	40	24	32	10	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20612-xx-xx.

45° METRIC FEMALE 60° CONE



P20641

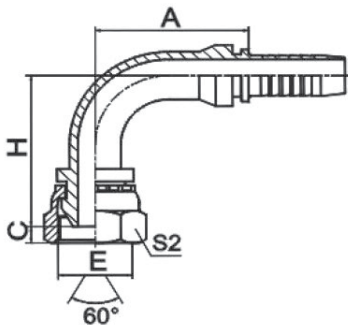


P20641-T

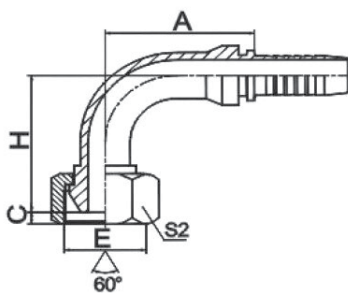
PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P20641-14-04	M14X1.5	6	04	42.7	5.5	20.6	19
P20641-16-05	M16X1.5	8	05	45.1	5.5	21.8	22
P20641-18-06	M18X1.5	10	06	47.4	5.5	23.2	24
P20641-22-08	M22X1.5	12	08	61.8	6	26.8	27
P20641-27-10DT	M27X1.5	16	10	71.4	6	27.1	32
P20641-30-12DT	M30X1.5	20	12	81.6	6	33.5	36
P20641-36-14T	M36X2	22	14	81.9	6.5	31.6	41
P20641-39-16T	M39X2	25	16	88.5	6.5	34.3	46
P20641-45-20T	M45X2	32	20	99.1	8.5	38.4	55
P20641-52-24T	M52X2	40	24	113.4	10	42.7	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20642-xx-xx.

90° METRIC FEMALE 60° CONE



P20691

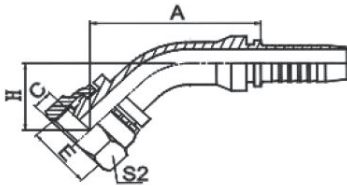


P20691-T

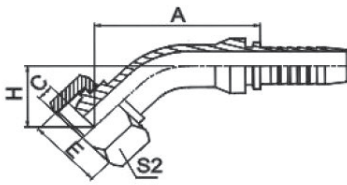
PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P20691-14-04	M14X1.5	6	04	30	5.5	37	19
P20691-16-05	M16X1.5	8	05	33	5.5	40.5	22
P20691-18-06	M18X1.5	10	06	35.3	5.5	43.8	24
P20691-22-08	M22X1.5	12	08	41	6	52	27
P20691-27-10DT	M27X1.5	16	10	56	6	55	32
P20691-30-12D	M30X1.5	20	12	66.2	6	68.5	36
P20691-36-16	M36X2	25	16	78	6.5	76.5	41
P20691-36-14T	M36X2	22	14	71.2	6.5	67.5	41
P20691-39-16T	M39X2	25	16	76.7	6.5	74	46
P20691-45-20T	M45X2	32	20	91.5	8.5	85	55
P20691-52-24T	M52X2	40	24	109.4	10	99	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20692-xx-xx.

45° METRIC FEMALE MULTISEAL



P20141

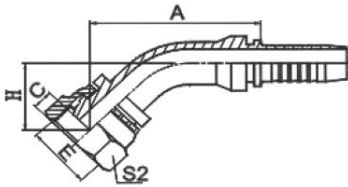


P20141-T

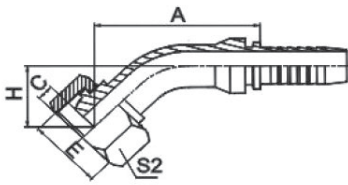
PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P20141-10-03	M10X1	5	03	41.1	2.5	20.7	14
P20141-10-04	M10X1	6	04	43.2	2.5	21.5	14
P20141-12-03	M12X1.5	5	03	40.9	4	21.2	17
P20141-12-04	M12X1.5	6	04	43	4	22	17
P20141-14-04	M14X1.5	6	04	43.4	4.5	21.3	19
P20141-14-05	M14X1.5	8	05	45.5	4.5	22.2	19
P20141-16-04	M16X1.5	6	04	43.7	4.5	21.4	22
P20141-16-05	M16X1.5	8	05	45.8	4.5	22.5	22
P20141-16-06	M16X1.5	10	06	47.4	4.5	24.1	22
P20141-18-05T	M18X1.5	8	05	46.8	4	22.6	24
P20141-18-06	M18X1.5	10	06	48.2	4	24.2	24
P20141-18-08	M18X1.5	12	08	52.2	4	25.7	24
P20141-20-06T	M20X1.5	10	06	48.2	5.5	23.9	27
P20141-20-08	M20X1.5	12	08	62.1	5.5	27.2	27
P20141-22-06T	M22X1.5	10	06	58.4	5	25.7	27
P20141-22-08	M22X1.5	12	08	62.1	5	27.2	27
P20141-24-08T	M24X1.5	12	08	61.1	5.5	26.1	30
P20141-24-10	M24X1.5	16	10	75.4	5	29.6	30
P20141-27-10DT	M27X1.5	16	10	74.4	5.5	29.6	32
P20141-27-10T	M27X2	16	10	74.4	5.5	29.6	32
P20141-30-12D	M30X1.5	20	12	80.9	6	33.5	36
P20141-30-12	M30X2	20	12	80.9	6	33.5	36
P20141-36-14T	M36X2	22	14	83	7	32.64	41
P20141-39-16T	M39X2	25	16	88.2	7	33.95	46
P20141-45-20T	M45X2	32	20	99.1	8.5	38.4	55
P20141-52-24T	M52X2	40	24	114.1	9	43.4	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20142-xx-xx.

45° METRIC FEMALE MULTISEAL



P20141

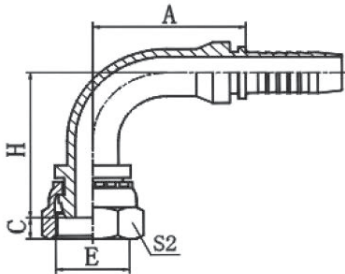


P20141-T

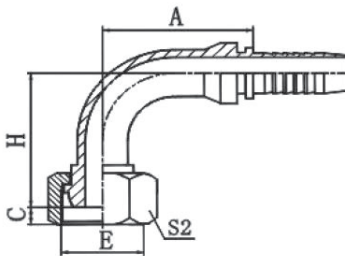
PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P20141-10-03	M10X1	5	03	41.1	2.5	20.7	14
P20141-10-04	M10X1	6	04	43.2	2.5	21.5	14
P20141-12-03	M12X1.5	5	03	40.9	4	21.2	17
P20141-12-04	M12X1.5	6	04	43	4	22	17
P20141-14-04	M14X1.5	6	04	43.4	4.5	21.3	19
P20141-14-05	M14X1.5	8	05	45.5	4.5	22.2	19
P20141-16-04	M16X1.5	6	04	43.7	4.5	21.4	22
P20141-16-05	M16X1.5	8	05	45.8	4.5	22.5	22
P20141-16-06	M16X1.5	10	06	47.4	4.5	24.1	22
P20141-18-05T	M18X1.5	8	05	46.8	4	22.6	24
P20141-18-06	M18X1.5	10	06	48.2	4	24.2	24
P20141-18-08	M18X1.5	12	08	52.2	4	25.7	24
P20141-20-06T	M20X1.5	10	06	48.2	5.5	23.9	27
P20141-20-08	M20X1.5	12	08	62.1	5.5	27.2	27
P20141-22-06T	M22X1.5	10	06	58.4	5	25.7	27
P20141-22-08	M22X1.5	12	08	62.1	5	27.2	27
P20141-24-08T	M24X1.5	12	08	61.1	5.5	26.1	30
P20141-24-10	M24X1.5	16	10	75.4	5	29.6	30
P20141-27-10DT	M27X1.5	16	10	74.4	5.5	29.6	32
P20141-27-10T	M27X2	16	10	74.4	5.5	29.6	32
P20141-30-12D	M30X1.5	20	12	80.9	6	33.5	36
P20141-30-12	M30X2	20	12	80.9	6	33.5	36
P20141-36-14T	M36X2	22	14	83	7	32.64	41
P20141-39-16T	M39X2	25	16	88.2	7	33.95	46
P20141-45-20T	M45X2	32	20	99.1	8.5	38.4	55
P20141-52-24T	M52X2	40	24	114.1	9	43.4	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20142-xx-xx.

90° METRIC FEMALE MULTISEAL



P20191

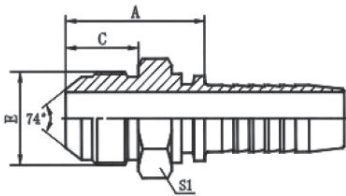


P20191-T

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P20191-10-03	M10X1	5	03	27	2.5	35.5	14
P20191-12-04	M12X1.5	6	04	30	4	37.5	17
P20191-14-04	M14X1.5	6	04	30	4.5	38	19
P20191-14-05	M14X1.5	8	05	33	4.5	41	19
P20191-16-04	M16X1.5	6	04	30	4.5	38.5	19
P20191-16-05	M16X1.5	8	05	33	4.5	41.5	22
P20191-16-06	M18X1.5	10	06	35.5	4.5	43.8	22
P20191-18-05T	M18X1.5	8	05	33	4	43	24
P20191-18-06	M18X1.5	10	06	35.3	4	45.3	24
P20191-18-08	M18X1.5	12	08	40.5	4	50.5	24
P20191-20-06T	M20X1.5	10	06	35.3	5.5	44.8	24
P20191-20-08	M20X1.5	12	08	41	5.5	52	27
P20191-22-06T	M22X1.5	10	06	35.8	5	76.8	27
P20191-22-08	M22X1.5	12	08	41	5	52.5	27
P20191-24-08T	M24X1.5	12	08	41	5.5	51	30
P20191-24-10	M24X1.5	16	10	58	5	58.8	30
P20191-27-10DT	M27X1.5	16	10	56	5.5	55.5	32
P20191-27-10T	M27X2	16	10	56	5.5	55.5	32
P20191-30-12D	M30X1.5	20	12	67.5	6	68.5	36
P20191-30-12	M30X2	20	12	67.5	6	68.5	36
P20191-36-12T	M36X2	20	12	65.5	7	68	41
P20191-36-14T	M36X2	22	14	71.2	7	69	41
P20191-39-16T	M39X2	25	16	76.7	7	73.5	46
P20191-45-20T	M45X2	32	20	91.5	8.5	85	55
P20191-52-24T	M52X2	40	24	109.4	9	100	60
P20191-54-32T	M64X2	50	32	131.75	14	122.3	75

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20192-xx-xx.

GB METRIC MALE 74° CONE

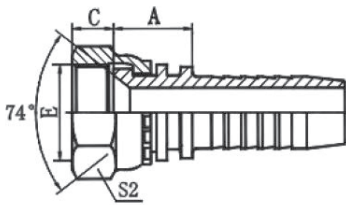


P10711

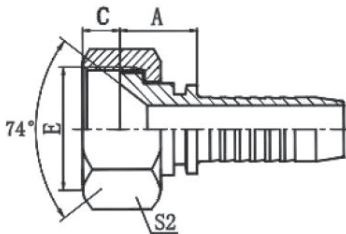
PART NO.	THREADE	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P10711-10-02	M10X1	4	02	23	12.5	14
P10711-10-03	M10X1	5	03	23	12.5	14
P10711-12-03	M12X1.5	5	03	26.5	15.7	14
P10711-12-03C	M12X1.25	5	03	24.5	14	14
P10711-14-04	M14X1.5	6	04	30.5	18	17
P10711-14-06	M14X1.5	10	06	30.5	18	17
P10711-16-05	M16X1.5	8	05	31.5	19	17
P10711-16-06	M16X1.5	10	06	31.5	19	17
P10711-18-06	M18X1.5	10	06	31.5	19	19
P10711-22-08	M22X1.5	12	08	35	19.5	22
P10711-24-08	M24X1.5	12	08	37	20	24
P10711-27-10	M27X1.5	16	10	38.5	20.5	27
P10711-30-12	M30X1.5	20	12	42.5	23	32
P10711-30-12E	M30X2	20	12	45.5	26	32
P10711-33-12	M33X2	20	12	45	26	36
P10711-36-14	M36X2	22	14	45	26	38
P10711-39-16	M39X2	25	16	48	27.5	41
P10711-42-20	M42X2	32	20	52	28.5	46
P10711-45-20	M45X2	32	20	52	28.5	46

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P10712-xx-xx.

GB METRIC MALE 74° CONE SEAT



P20711

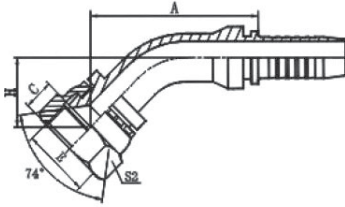


P20711-T

PART NO.	THREAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S2
P20711-10-02	M10X1	4	02	14	7.5	14
P20711-12-03C	M12X1.25	5	03	14	9	17
P20711-12-03	M12X1.5	5	03	14	10	17
P20711-12-04	M12X1.5	6	04	14.5	10	17
P20711-14-04	M14X1.5	6	04	15.5	8.5	19
P20711-14-05	M14X1.5	8	05	15.5	8.5	19
P20711-14-06	M14X1.5	10	06	15.5	8.5	19
P20711-16-04	M16X1.5	6	04	16.5	8	22
P20711-16-05	M16X1.5	8	05	16.5	8	22
P20711-16-06	M16X1.5	10	06	16	8	22
P20711-18-05T	M18X1.5	8	05	16	8	22
P20711-18-06	M18X1.5	10	06	17.5	10	24
P20711-20-06T	M20X1.5	10	06	16	10	24
P20711-20-08	M20X1.5	12	08	18.5	10	27
P20711-22-06T	M22X1.5	10	06	16	10	27
P20711-22-08	M22X1.5	12	08	18.5	10	27
P20711-22-10	M22X1.5	16	10	19.5	10	27
P20711-24-08T	M24X1.5	12	08	16.5	11	30
P20711-27-08T	M27X1.5	12	08	18.5	11	32
P20711-27-10T	M27X1.5	16	10	19.5	11	32
P20711-27-12	M27X1.5	20	12	21.5	11	32
P20711-30-10T	M30X1.5	16	10	18.5	11	36
P20711-30-12	M30X1.5	20	12	21.5	11	36
P20711-33-10T	M33X2	16	10	20	13	41
P20711-33-12T	M33X2	20	12	20	13	41
P20711-33-14	M33X2	22	14	21.5	13	41
P20711-36-12T	M36X2	20	12	20	14	41
P20711-36-14T	M36X2	22	14	20	14	41
P20711-36-16	M36X2	25	16	23	14	41
P20711-39-16T	M39X2	25	16	23.5	14	46
P20711-42-16T	M42X2	25	16	23.5	15	50
P20711-42-20	M42X2	32	20	26	15	50
P20711-45-20T	M45X2	32	20	25	15	55
P20711-52-24T	M52X2	40	24	25	17	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20712-xx-xx.

45° GB METRIC FEMALE 74° CONE SEAT

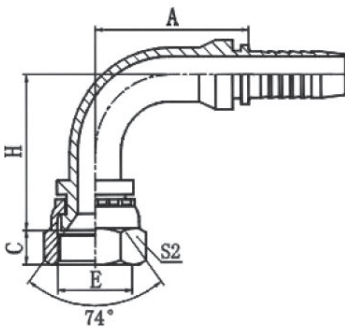


P20741

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P20741-14-04	M14X1.5	6	04	40.5	8.5	18.5	19
P20741-16-05	M16X1.5	8	05	44.4	8	20	22
P20741-18-06	M18X1.5	10	06	45.7	10	21.4	24
P20741-22-08	M22X1.5	12	08	58.9	10	24	27
P20741-27-10	M27X1.5	16	10	71.2	11	26.4	32
P20741-30-12	M30X1.5	20	12	78.1	11	30	36
P20741-33-12	M33X2	20	12	77.4	13	30	41
P20741-33-16	M33X2	25	16	85	13	30.8	41
P20741-36-14	M36X2	22	14	79.8	14	29.6	41
P20741-36-16	M36X2	25	16	85.7	14	31.5	41
P20741-39-16	M39X2	25	16	86.1	14	31.8	46
P20741-45-20W	M45X2	32	20	97	15	36.2	55
P20741-52-24W	M52X2	40	24	112.9	17	40.9	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20742-xx-xx.

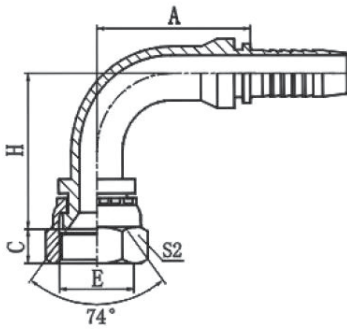
90° GB METRIC FEMALE 74° CONE SEAT



P20791

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P20791-12-04C	M12X1.25	6	04	30	9	33.5	17
P20791-12-04	M12X1.5	6	04	30	10	33.5	17
P20791-14-04	M14X1.5	6	04	30	8.5	34	19
P20791-16-04	M16X1.5	6	04	30	8	35	22
P20791-16-05	M16X1.5	8	05	34	8	38	22
P20791-18-06	M18X1.5	10	06	35.3	10	41.3	24

90° GB METRIC FEMALE 74° CONE SEAT

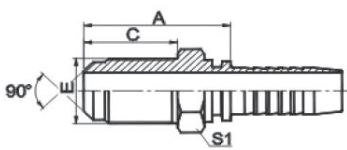


P20791

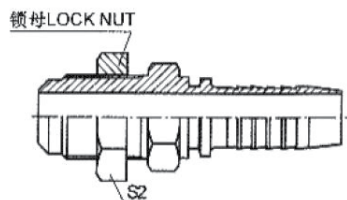
PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P20791-22-08	M22X1.5	12	08	41	10	48	27
P20791-22-10	M22X1.5	16	10	56.5	10	52.5	27
P20791-27-10	M27X1.5	16	10	56.5	11	54	32
P20791-30-12	M30X1.5	20	12	66.2	11	63.5	36
P20791-33-12	M33X2	20	12	65.5	13	63.5	41
P20791-33-16	M33X2	25	16	76.7	13	69	41
P20791-36-12	M36X2	20	12	65.5	14	63.5	41
P20791-36-14	M36X2	22	14	71.2	14	64.5	41
P20791-39-16	M39X2	25	16	76.7	14	70.5	46
P20791-45-20W	M45X2	32	20	91.5	15	83	55
P20791-52-20W	M52X2	32	20	93	17	84.5	60
P20791-52-24W	M52X2	40	24	110.7	17	96.5	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20742-xx-xx.

METRIC MALE 90° CONE SEAT



P10811L

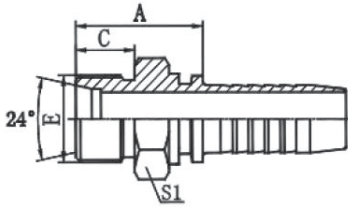


P10811L-LN

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	S1	S2
P10811L-12-04	M12X1.5	6	04	46	34	17	17
P10811L-12-04A	M12X1	6	04	44.5	32.5	17	17
P10811L-14-04	M14X1.5	6	04	46	34	17	19
P10811L-14-06	M14X1.5	10	06	46.5	34	17	19
P10811L-16-04	M16X1.5	6	04	46.5	34	19	22
P10811L-16-06	M16X1.5	10	06	46.5	34	22	22
P10811L-20-06	M20X1.5	10	6	57	40	27	27
P10811L-20-08	M20X1.5	12	08	57.5	40	27	27
P10811L-22-08	M22X1.5	12	08	62.5	45	27	27

Note: if you are interested to order the fitting with lock nut, please insert suffix "LN" after our part no. for example P10811L-12-04LN.

METRIC MALE 24° CONE SEAT L.T. ISO 8434-1 / DIN 3861

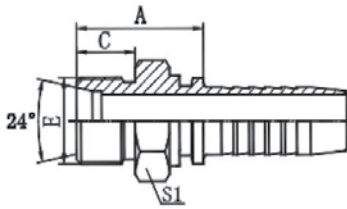


P10411

PART NO.	THREAD E	HOSE BORE		HOSE O.D.	DIMENSIONS		
		DN	DASH		A	C	S1
P10411-12-04	M12X1.5	6	04	6	20.5	10	12
P10411-14-04	M14X1.5	6	04	8	20.5	10	14
P10411-14-05	M14X1.5	8	05	8	21.5	10	14
P10411-16-04	M16X1.5	6	04	10	22.5	11	17
P10411-16-05	M16X1.5	8	05	10	22.5	11	17
P10411-16-06	M16X1.5	10	06	10	22.5	11	17
P10411-18-05	M18X1.5	8	05	12	23.5	11	19
P10411-18-06	M18X1.5	10	06	12	21.5	11	19
P10411-22-06	M22X1.5	10	06	15	24.5	12	24
P10411-22-08	M22X1.5	12	08	15	26	12	24
P10411-26-08	M26X1.5	12	08	18	26.5	12	27
P10411-26-10	M26X1.5	16	10	18	27	12	27
P10411-27-10	M27X1.5	16	10	18	32	14	30
P10411-30-10	M30X2	16	10	22	29	14	32
P10411-30-12	M30X2	20	12	22	29	14	32
P10411-36-16	M36X2	25	16	28	31.5	14	38
P10411-45-20	M45X2	32	20	35	36	16	46
P10411-52-24	M52X2	40	24	42	38	16	55

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P10412-xx-xx.

METRIC MALE 24° CONE SEAT H.T. ISO 8434-1 / DIN 3861

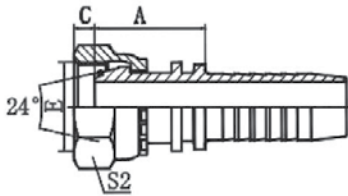


P10511

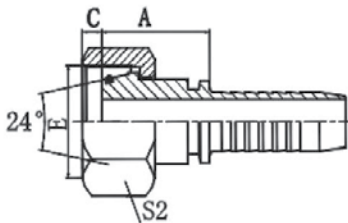
PART NO.	THREAD E	HOSE BORE		HOSE O.D.	DIMENSIONS		
		DN	DASH		A	C	S1
P10511-14-04	M14X1.5	6	04	6	24.1	12	14
P10511-16-04	M16X1.5	6	04	8	26.5	12	17
P10511-18-04	M18X1.5	6	04	10	26.5	12	19
P10511-20-05	M20X1.5	8	05	12	27	12	22
P10511-20-06	M20X1.5	10	06	12	26.5	12	22
P10511-22-05	M22X1.5	8	05	14	30.5	14	24
P10511-22-06	M22X1.5	10	06	14	30.5	14	24
P10511-22-08	M22X1.5	12	08	14	31	14	24
P10511-24-08	M24X1.5	12	08	16	31.5	14	27
P10511-30-10	M30X2	16	10	20	36	16	32
P10511-30-12	M30X2	20	12	20	36	16	32
P10511-36-12	M36X2	20	12	25	40.5	18	41
P10511-36-16	M36X2	25	16	25	41.5	18	38
P10511-42-16	M42X2	25	16	30	44	20	46
P10511-42-20	M42X2	32	20	30	45	20	46
P10511-52-20	M52X2	32	20	30	50	22	55

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P10512-xx-xx.

METRIC FEMALE 24° CONE O-RING L.T. ISO 12151-2 / DIN 3865



P20411

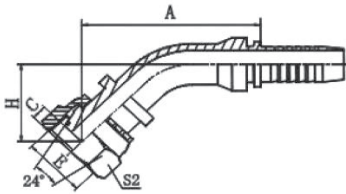


P20411-T

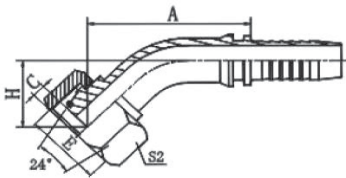
PART NO.	E THREAD	HOSE BORE		TUBE O.D.	O RING	DIMENSIONS		
		DN	DASH			A	C	S2
P20411-12-04	M12X1.5	6	04	6	O04.5X1.5	26	1	17
P20411-14-04	M14X1.5	6	04	8	O06.5X1.5	27.5	2	19
P20411-14-06	M14X1.5	10	06	8	O06.5X1.5	27.5	2	19
P20411-16-04	M16X1.5	6	04	10	O08.0X1.5	28	2	22
P20411-16-05	M16X1.5	8	05	10	O08.0X1.5	28	2	22
P20411-16-06	M16X1.5	10	06	10	O08.0X1.5	28	2	22
P20411-18-05T	M18X1.5	8	05	12	O10.0X1.5	27.5	1.8	22
P20411-18-06	M18X1.5	10	06	12	O10.0X1.5	29	2.5	24
P20411-18-08	M18X1.5	12	08	12	O10.0X1.5	29.5	2.5	24
P20411-22-05T	M22X1.5	8	05	15	O12.0X2.0	29.5	2.1	27
P20411-22-06T	M22X1.5	10	06	15	O12.0X2.0	29	2.5	27
P20411-22-08	M22X1.5	12	08	15	O12.0X2.0	32	2.5	27
P20411-26-10	M26X1.5	16	10	18	O15.0X2.0	35	2.5	32
P20411-26-12	M26X1.5	20	12	18	O15.0X2.0	35	2.5	32
P20411-27-10T	M27X1.5	16	10	18	O15.0X2.0	28	2.5	32
P20411-27-12	M27X1.5	20	12	18	O15.0X2.0	35	2.5	32
P20411-30-10T	M30X2	16	10	22	O20.0X2.0	35	4	36
P20411-30-12	M30X2	20	12	22	O20.0X2.0	38	4	36
P20411-36-12T	M36X2	20	12	28	O26.0X2.0	35	4	41
P20411-36-14T	M36X2	22	14	28	O26.0X2.0	36	4	41
P20411-45-16T	M45X2	25	16	35	O32.0X2.5	41	5	55
P20411-45-20T	M45X2	32	20	35	O32.0X2.5	42	5	55
P20411-52-20T	M52X2	32	20	42	O38.0X2.5	44	5.5	60
P20411-52-24T	M52X2	40	24	42	O38.0X2.5	44	5.5	60

Note: 1 For use with braided hoses. 2 If use with spiral hoses, hose fitting series number is P20412-xx-xx_o

45° METRIC FEMALE 24° CONE L.T. ISO 12151-2 / DIN 3865



P20441

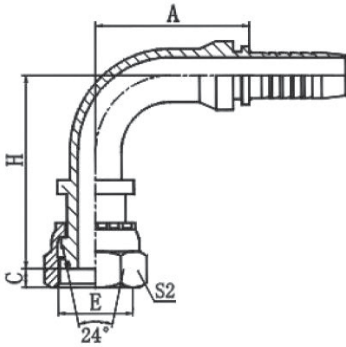


P20441-T

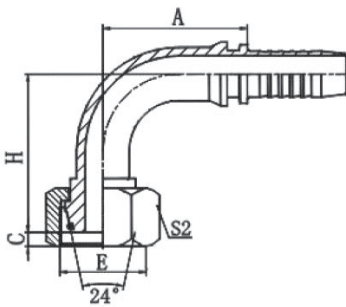
PART NO.	E THREAD E	HOSE BORE		TUBE O.D.	O RING	DIMENSIONS			
		DN	DASH			A	C	H	S2
P20441-14-04	M14X1.5	6	04	8	O06.5X1.5	49	2	27	19
P20441-16-05	M16X1.5	8	05	10	O08.0X1.5	51.5	2	28.2	22
P20441-16-06	M16X1.5	10	06	10	O08.0X1.5	53.4	2	29.2	22
P20441-18-05T	M18X1.5	8	05	12	O10.0X1.5	46.2	2.5	22.9	22
P20441-18-06	M18X1.5	10	06	12	O10.0X1.5	54.2	2.5	29.9	24
P20441-22-05T	M22X1.5	8	05	15	O12.0X2.0	48.3	2.5	25	27
P20441-22-06T	M22X1.5	10	06	15	O12.0X2.0	50.4	2.5	25.7	27
P20441-22-08	M22X1.5	12	08	15	O12.0X2.0	68.1	2.5	33.2	27
P20441-26-08T	M26X1.5	12	08	18	O15.0X2.0	62	2.5	26.1	32
P20441-26-10	M26X1.5	16	10	18	O15.0X2.0	80.7	2.5	35.9	32
P20441-26-12	M26X1.5	20	12	18	O15.0X2.0	86.9	2.5	39.5	32
P20441-27-10T	M27X1.5	16	10	18	O15.0X2.0	72	2.5	27.7	32
P20441-27-12	M27X1.5	20	12	18	O15.0X2.0	86.9	2.5	39.5	32
P20441-30-10T	M30X2	16	10	22	O20.0X2.0	75.1	4	30.3	36
P20441-30-12	M30X2	20	12	22	O20.0X2.0	89.1	4	41.7	36
P20441-36-12T	M36X2	20	12	28	O26.0X2.0	82	4	33.9	41
P20441-36-14T	M36X2	22	14	28	O26.0X2.0	83.7	4	33.3	41
P20441-45-20T	M45X2	32	20	35	O32.0X2.5	99.6	5	40.8	55
P20441-52-20T	M52X2	32	20	42	O38.0X2.5	103	5.5	41.9	60
P20441-52-24T	M52X2	40	24	42	O38.0X2.5	117	5.5	45.8	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20412-xx-xx.

90° METRIC FEMALE 24° CONE O-RING L.T. ISO 12151-2 / DIN 3865



P20491

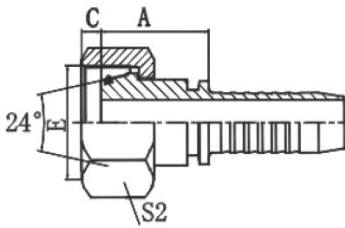


P20491-T

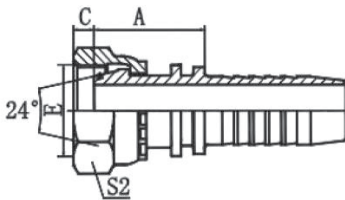
PART NO.	THREAD E	HOSE BORE		TUBE O.D.	O RING	DIMENSIONS			
		DN	DASH			A	C	H	S2
P20491-12-03	M12X1.5	5	03	6	O04.5X1.5	26.5	1	41.5	17
P20491-12-04	M12X1.5	6	04	6	O04.5X1.5	30	1	41.5	17
P20491-14-04	M14X1.5	6	04	8	O06.5X1.5	30	2	46	19
P20491-16-04	M16X1.5	6	04	10	O08.0X1.5	30	2	46.5	22
P20491-16-05	M16X1.5	8	05	10	O08.0X1.5	33	2	49.5	22
P20491-16-06	M16X1.5	10	06	10	O08.0X1.5	35.3	2	51.8	22
P20491-18-05T	M18X1.5	8	05	12	O10.0X1.5	33	2.5	42	22
P20491-18-06	M18X1.5	10	06	12	O10.0X1.5	35.5	2.5	53.5	24
P20491-22-06T	M22X1.5	10	06	15	O12.0X2.0	35.3	2.5	47.3	27
P20491-22-08	M22X1.5	12	08	15	O12.0X2.0	41	2.5	61	27
P20491-26-08T	M26X1.5	12	08	18	O15.0X2.0	42	2.5	51	32
P20491-26-10	M26X1.5	16	10	18	O15.0X2.0	56.5	2.5	67.5	32
P20491-26-12	M26X1.5	20	12	18	O15.0X2.0	65.5	2.5	77	32
P20491-27-10T	M27X1.5	16	10	18	O15.0X2.0	56.5	2.5	67.5	32
P20491-27-12	M27X1.5	20	12	18	O15.0X2.0	65.5	2.5	77	32
P20491-30-10T	M30X2	16	10	22	O20.0X2.0	56.5	4	57.2	36
P20491-30-12	M30X2	20	12	22	O20.0X2.0	65.5	4	80	36
P20491-36-12T	M36X2	20	12	28	O26.0X2.0	65.5	4	69	41
P20491-36-14T	M36X2	22	14	28	O26.0X2.0	71.2	4	70	41
P20491-45-16T	M45X2	25	16	35	O32.0X2.5	76.7	5	75	55
P20491-45-20T	M45X2	32	20	35	O32.0X2.5	91.5	5	88.5	55
P20491-52-20T	M52X2	32	20	42	O38.0X2.5	93	5.5	87	60
P20491-52-24T	M52X2	40	24	42	O38.0X2.5	109.4	5.5	104	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20492-xx-xx.

METRIC FEMALE 24° CONE O-RING H.T. ISO 12151-2 / DIN 3865



P20511

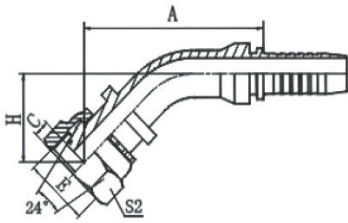


P20511-T

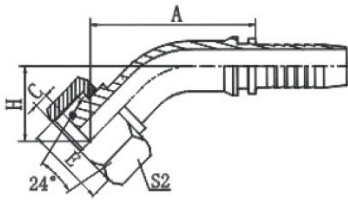
PART NO.	E THREAD E	HOSE BORE		TUBE O.D.	O RING	DIMENSIONS		
		DN	DASH			A	C	S2
P20511-14-04	M14X1.5	6	04	6	O04.5X1.5	28.5	1.1	19
P20511-16-04	M16X1.5	6	04	8	O06.5X1.5	29	1.5	22
P20511-16-05	M16X1.5	8	05	8	O06.5X1.5	29	1.5	22
P20511-18-04T	M18X1.5	6	04	10	O08.0X1.5	26.5	2	22
P20511-18-06	M18X1.5	10	06	10	O08.0X1.5	29	2	24
P20511-20-06T	M20X1.5	10	06	12	O10.0X1.5	28.5	2.5	24
P20511-20-08	M20X1.5	12	08	12	O10.0X1.5	31.5	2.5	27
P20511-22-06T	M22X1.5	10	06	14	O11.0X2.0	28.5	2.5	27
P20511-22-08	M22X1.5	12	08	14	O11.0X2.0	31.5	2.5	27
P20511-24-06T	M24X1.5	10	06	16	O13.0X2.0	28.5	2.5	30
P20511-24-08T	M24X1.5	12	08	16	O13.0X2.0	30	3	30
P20511-30-10T	M30X2	16	10	20	O16.3X2.0	36	3	36
P20511-30-12	M30X2	20	12	20	O16.3X2.4	39	3	36
P20511-36-12T	M36X2	20	12	25	O20.3X2.4	36	3	41
P20511-36-14T	M36X2	22	14	25	O20.3X2.4	36	3	41
P20511-42-12T	M42X2	20	12	30	O25.3X2.4	40	5	50
P20511-42-16T	M42X2	25	16	30	O25.3X2.4	41	5	50
P20511-52-20T	M52X2	32	20	38	O33.3X2.4	44	6.5	60
P20511-52-24T	M52X2	40	24	38	O33.3X2.4	44	6.5	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20512-xx-xx.

45° METRIC FEMALE 24° CONE O-RING H.T. ISO 12151-2 / DIN 3865



P20541

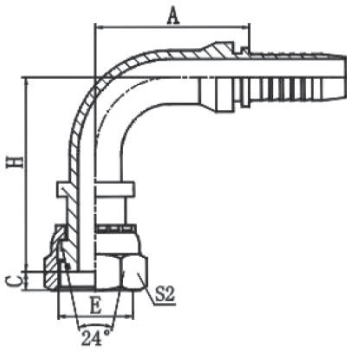


P20541-T

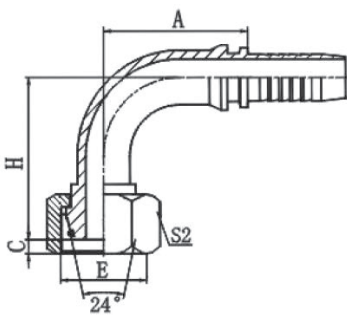
PART NO.	E THREAD E	HOSE BORE		TUBE O.D.	O RING	DIMENSIONS			
		DN	DASH			A	C	H	S2
P20541-14-04	M14X1.5	6	04	6	O04.5X1.5	50.1	1.1	28	19
P20541-16-04	M16X1.5	6	04	8	O06.5X1.5	50.4	1.5	28.3	22
P20541-16-05	M16X1.5	8	05	8	O06.5X1.5	52.2	1.5	28.9	22
P20541-18-04T	M18X1.5	6	04	10	O08.0X1.5	43.4	2	21.3	22
P20541-18-06	M18X1.5	10	06	10	O08.0X1.5	54.3	2	29.6	24
P20541-20-06T	M20X1.5	10	06	12	O10.0X1.5	49.7	2.5	25	24
P20541-20-08	M20X1.5	12	08	12	O10.0X1.5	67.8	2.5	32.8	27
P20541-22-06T	M22X1.5	10	06	14	O11.0X2.0	49.6	2.5	25.3	27
P20541-22-08	M22X1.5	12	08	14	O11.0X2.0	68.1	2.5	33.2	27
P20541-24-08T	M24X1.5	12	08	16	O13.0X2.0	62.5	3	27.5	30
P20541-24-10	M24X1.5	16	10	16	O13.0X2.0	80.7	2.5	35.9	30
P20541-30-10T	M30X2	16	10	20	O16.3X2.0	75.8	3	31	36
P20541-30-12	M30X2	20	12	20	O16.3X2.4	90.5	3	42.4	36
P20541-36-12T	M36X2	20	12	25	O20.3X2.4	82.7	3	34.6	41
P20541-36-14T	M36X2	22	14	25	O20.3X2.4	84.4	3	34	41
P20541-42-16T	M42X2	25	16	30	O25.3X2.4	92.3	5	36.8	50
P20541-52-20T	M52X2	32	20	38	O33.3X2.4	103.4	6.5	41.2	60
P20541-52-24T	M52X2	40	24	38	O33.3X2.4	115.9	6.5	45.1	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20412-xx-xx.

90° METRIC FEMALE 24° CONE O-RING H.T. ISO 12151-2 / DIN 3865



P20591

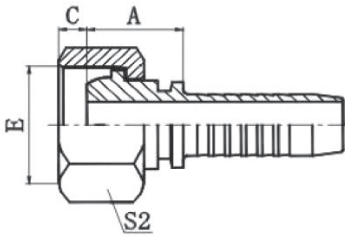


P20591-T

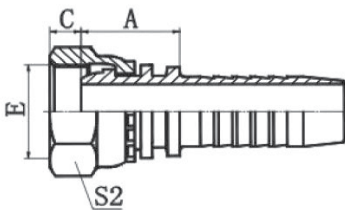
PART NO.	THREAD E	HOSE BORE		TUBE O.D.	O RING	DIMENSIONS			
		DN	DASH			A	C	H	S2
P20591-14-04	M14X1.5	6	04	6	O04.5X1.5	30	1.1	47.5	19
P20591-16-04	M16X1.5	6	04	8	O06.5X1.5	30	1.5	48	22
P20591-16-05	M16X1.5	8	05	8	O06.5X1.5	33	1.5	51	22
P20591-18-05T	M18X1.5	8	05	10	O08.0X1.5	33	2	41.5	22
P20591-18-06	M18X1.5	10	06	10	O08.0X1.5	35.3	2	52.8	24
P20591-20-06T	M20X1.5	10	06	12	O10.0X1.5	35.8	2.5	46.3	24
P20591-20-08	M20X1.5	12	08	12	O10.0X1.5	41	2.5	61	27
P20591-22-06T	M22X1.5	10	06	14	O11.0X2.0	35.3	2.5	46.8	27
P20591-22-08	M22X1.5	12	08	14	O11.0X2.0	41	2.5	61	27
P20591-24-08T	M24X1.5	12	08	16	O13.0X2.0	41	3	53	30
P20591-24-10	M24X1.5	16	10	16	O13.0X2.0	56.5	2.5	67.5	30
P20591-30-10T	M30X2	16	10	20	O16.3X2.0	56.5	3	60.5	36
P20591-30-12	M30X2	20	12	20	O16.3X2.4	65.5	3	81	36
P20591-36-12T	M36X2	20	12	25	O20.3X2.4	66.2	3	70	41
P20591-36-14T	M36X2	22	14	25	O20.3X2.4	71.2	3	71	41
P20591-42-16T	M42X2	25	16	30	O25.3X2.4	78	5	77.5	50
P20591-52-20T	M52X2	32	20	38	O33.3X2.4	93	6.5	89	60
P20591-52-24T	M52X2	40	24	38	O33.3X2.4	109.4	6.5	103	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20592-xx-xx.

METRIC FEMALE MULTISEAT L.T.

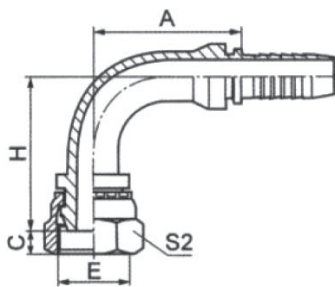


P20411C

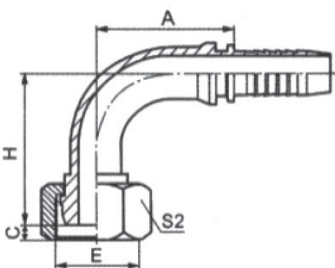


P20411C-T

PART NO.	E THREAD E	HOSE BORE		HOSE O.D.	DIMENSIONS		
		DN	DASH		A	C	S2
P20411C-12-04	M12X1.5	6	04	6	19.5	3.5	17
P20411C-14-04	M14X1.5	6	04	8	20.5	3.5	19
P20411C-16-04	M16X1.5	6	04	10	21	3.5	22
P20411C-16-05	M16X1.5	8	05	10	21	3.5	22
P20411C-16-06	M16X1.5	10	06	10	21	3.5	22
P20411C-18-06	M18X1.5	10	06	12	22.5	3	24
P20411C-22-06T	M22X1.5	10	06	15	23.5	4.5	27
P20411C-22-08	M22X1.5	12	08	15	24	4.5	27
P20411C-26-10T	M26X1.5	16	10	18	27	4	32
P20411C-30-10T	M30X2	16	10	22	26.5	7	36
P20411C-30-12	M30X2	20	12	22	27	7	36
P20411C-30-14	M30X2	22	14	22	27	7	36
P20411C-36-16	M36X2	25	16	28	29	6.5	41
P20411C-45-20T	M45X2	32	20	35	33	7	55
P20411C-52-24T	M52X2	40	24	42	34	8	60



P20491C



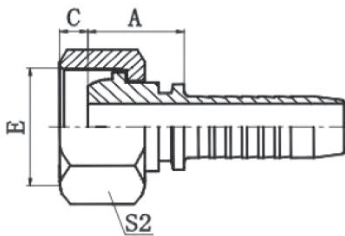
P20419C-T

90° METRIC FEMALE 24° MULTISEAT L.T.

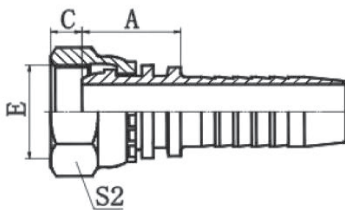
PART NO.	THREAD E	HOSE BORE		TUBE O.D.	DIMENSIONS			
		DN	DASH		A	C	H	S2
P20491C-14-04	M14X1.5	6	04	8	30	3.5	39.5	19
P20491C-16-04	M16X1.5	6	04	10	30	3.5	40	22
P20491C-16-05	M16X1.5	8	05	10	33	3.5	43	22
P20491C-16-06	M16X1.5	10	06	10	35.25	3.5	45.2	22
P20491C-18-06	M18X1.5	10	06	12	35.25	3	47.25	24
P20491C-22-08	M22X1.5	12	08	15	41	4.5	53	27
P20491C-26-10	M26X1.5	16	10	18	56.5	4	60	32
P20491C-30-12	M30X2	20	12	22	65.5	7	68.5	36
P20491C-36-12T	M36X2	20	12	28	65.5	6.5	67.5	41

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P10512-xx-xx.

METRIC FEMALE 24° MULTISEAT H.T.



P20511C

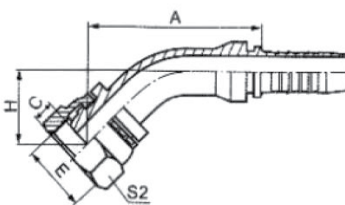


P20511C-T

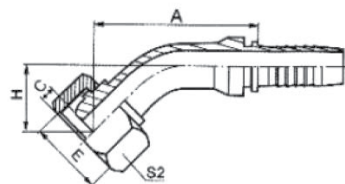
PART NO.	THREAD E	HOSE BORE		TUBE O.D.	DIMENSIONS		
		DN	DASH		A	C	S2
P20511C-18-04T	M18X1.5	6	04	10	21	3	22
P20511C-20-05T	M20X1.5	8	05	12	21.5	4.5	24
P20511C-20-06T	M20X1.5	10	06	12	21.5	4.5	24
P20511C-22-06T	M22X1.5	10	06	14	21.5	4.5	27
P20511C-24-08T	M24X1.5	12	08	16	23	5	30
P20511C-30-10T	M30X2	16	10	20	26.5	7	36
P20511C-36-12T	M36X2	20	12	25	27	6.5	41
P20511C-42-16T	M42X2	25	16	30	29.5	9	50
P20511C-52-20T	M52X2	32	20	38	34	8	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20512C-xx-xx.

45° METRIC FEMALE 24° MULTISEAT L.T.



P20541C

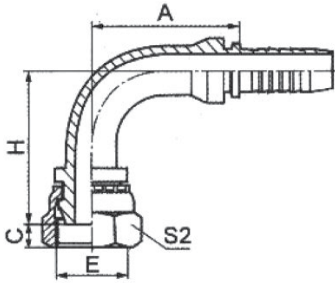


P20541C-T

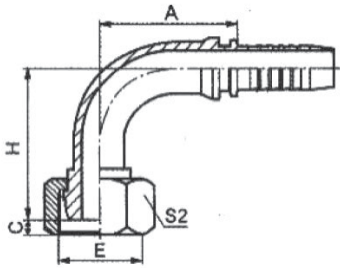
PART NO.	THREADE	HOSE BORE		TUBE O.D.	DIMENSIONS			
		DN	DASH		A	C	H	S2
P20541C-16-04	M16X1.5	6	04	8	44.8	3	22.7	19
P20541C-18-04T	M18X1.5	6	04	10	43.7	3	21.6	22
P20541C-20-06T	M20X1.5	10	06	12	48.9	4.5	24.6	24
P20541C-24-08T	M24X1.5	12	08	16	61.4	2.5	26.5	30

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20542C-xx-xx.

90° METRIC FEMALE 24° MULTISEAT H.T.



P20591C

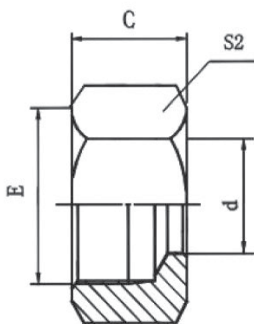


P20591C-T

PART NO.	THREAD E	HOSE BORE		TUBE O.D.	DIMENSIONS			
		DN	DASH		A	C	H	S2
P20591C-16-04	M16X1.5	6	04	8	30	3	40	22
P20591C-18-04T	M18X1.5	6	04	10	30	3	38.5	22
P20591C-20-05T	M20X1.5	8	05	12	33	4.5	42	24
P20591C-20-06T	M20X1.5	10	06	12	35.3	4.5	45.7	24
P20591C-22-06T	M22X1.5	10	06	14	35.3	4.5	44.7	27
P20591C-24-08T	M24X1.5	12	08	16	41	5	52	30
P20591C-30-10T	M30X2	16	10	20	56.5	7	56.5	36
P20591C-36-12T	M36X2	20	12	25	65.5	6.5	66.5	41
P20591C-42-16T	M42X2	25	16	30	78	9	73.5	50
P20591C-52-20T	M52X2	32	20	38	93	8	87.5	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P20592C-xx-xx.

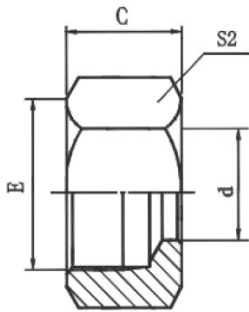
RETAINING NUT L.T. DIN 3870



PNL

PART NO.	THREAD E	TUBE O.D.	DIMENSIONS	
			C	S2
PNL-12	M12X1.5	6	14.5	14
PNL-14	M14X1.5	8	14.5	17
PNL-16	M16X1.5	10	15.5	19
PNL-18	M18X1.5	12	15.5	22
PNL-22	M22X1.5	15	17	27
PNL-26	M26X1.5	18	18	32
PNL-30	M30X2	22	20	36
PNL-36	M36X2	28	21	41
PNL-45	M45X2	35	24	50
PNL-52	M52X2	42	24	60

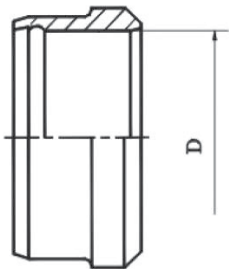
RETAINING NUT L.T. DIN 3870



PNS

PART NO.	THREAD E	TUBE O.D.	DIMENSIONS	
			C	S2
PNL-14	M14X1.5	6	16.5	17
PNL-16	M16X1.5	8	16.5	19
PNL-18	M18X1.5	10	17.5	22
PNL-20	M20X1.5	12	17.5	24
PNL-22	M22X1.5	14	20.5	27
PNL-24	M24X1.5	16	20.5	30
PNL-30	M30X2	20	24	36
PNL-36	M36X2	25	27	46
PNL-45	M42X2	30	29	50
PNL-52	M52X2	38	32.5	60

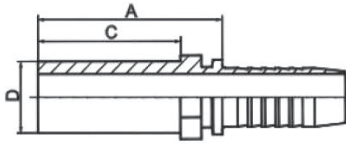
CUTTING RINGS DIN 3861



PRL,PRS

PART NO.	TUBE O.D.	DIMENSIONS	NOTE
PRL-06	6	the same as the RS series	L
PRL-08	8		
PRL-10	10		
PRL-12	12		
PRL-15	15		
PRL-18	18		
PRL-22	22		
PRL-28	28		
PRL-35	35		
PRL-42	42		
PRS-06	6		S
PRS-08	8		
PRS-10	10		
PRS-12	12		
PRS-14	14		
PRS-16	16		
PRS-20	20		
PRS-25	25		
PRS-30	30		
PRS-38	38		

METRIC STANDPIPE STRAIGHT DIN 2353

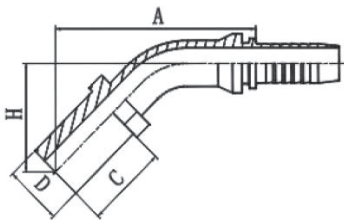


P50011

PART NO.	TUBE O.D.	HOSE BORE		DIMENSIONS		NOTE
		DN	DASH	A	C	
P50011-06-03	6	5	03	28.5	22	
P50011-06-04	6	6	04	29	22	
P50011-10-05	10	8	05	31	23	
P50011-10-06	10	10	06	32	23	
P50011-12-06	12	10	06	33.5	23	
P50011-12-08	12	12	08	33	23	
P50011-15-06	15	10	06	35.5	25	
P50011-15-08	15	12	08	35.5	25	
P50011-18-08	18	12	08	36.5	26	
P50011-18-10	18	16	10	41	26	
P50011-22-10	22	16	10	44	28	
P50011-22-12	22	20	12	44	28	
P50011-22-16	22	25	16	46	28	
P50011-28-16	28	25	16	47	30	
P50011-35-20	35	32	20	56	36	
P50011-42-24	42	40	24	62	40	
P50011-08-04	8	6	04	31	24	
P50011-08-05	8	8	05	33	24	
P50011-08-06	8	10	06	33	24	
P50011-10-04	10	6	04	35	26	
P50011-12-04	12	6	04	34.5	26	
P50011-12-05	12	8	05	35.5	26	
P50011-14-06	14	10	06	39.5	29	
P50011-14-08	14	12	08	40	29	
P50011-14-12	14	20	12	45.5	29	
P50011-16-08	16	12	08	41	30	
P50011-16-10	16	16	10	45.5	30	
P50011-20-10	20	16	10	52.5	36	
P50011-20-12	20	20	12	52.5	36	
P50011-25-12	25	20	12	56	40	
P50011-25-16	25	25	16	57	40	
P50011-30-16	30	25	16	63	44	
P50011-30-20	30	32	20	64	44	
P50011-38-16	38	25	16	69	50	
P50011-38-20	38	32	20	70	50	

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P50012-xx-xx.

45° METRIC STANDPIPE STRAIGHT DIN 2353

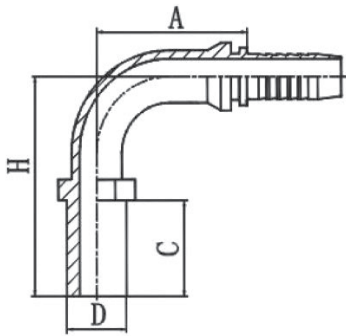


P50041

PART NO.	TUBE O.D.	HOSE BORE	DIMENSIONS			NOTE
		DN	A	C	H	
P50041-06-03	6	5	47.8	22	27.5	
P50041-06-04	6	6	52.2	22	30.1	
P50041-08-05	8	8	55.7	24	32.4	
P50041-08-06	8	10	57.9	24	33.1	
P50041-10-05	10	8	54	23	30.6	
P50041-10-06	10	10	56.1	23	31.3	
P50041-12-06	12	10	58.5	23	34.5	
P50041-12-08	12	12	72.4	23	37.4	
P50041-15-06	15	10	59.3	25	34.5	
P50041-15-08	15	12	70.6	25	35.7	
P50041-18-08	18	12	73.4	26	38.5	
P50041-18-10	18	16	84.6	26	39.8	
P50041-22-10	22	16	87.1	28	42.3	
P50041-22-12	22	20	93.3	28	45.9	
P50041-22-16	22	25	100.9	28	46.7	
P50041-28-16	28	25	103.7	30	49.5	
P50041-35-20	35	32	118.5	36	57.8	
P50041-08-04	8	6	53.6	24	31.5	
P50041-10-04	10	6	54	26	31.9	
P50041-12-04	12	6	57.1	26	35.1	
P50041-12-05	12	8	59.2	26	35.9	
P50041-14-06	14	10	61.6	29	37.3	
P50041-14-08	14	12	73.8	29	38.8	
P50041-14-12	14	20	91.9	29	43.8	
P50041-16-08	16	12	76.6	30	41.7	
P50041-16-10	16	16	87.8	30	43	
P50041-20-10	20	16	92.8	36	48	
P50041-20-12	20	20	100.7	36	52.6	
P50041-25-12	25	20	101.8	40	54.4	
P50041-25-16	25	25	109.4	40	55.2	
P50041-30-16	30	25	113.6	44	59.4	
P50041-30-20	30	32	124.2	44	63.5	
P50041-38-16	38	25	117.9	50	63.6	
P50041-38-20	38	32	128.4	50	67.7	

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P50042-xx-xx.

90° METRIC STANDPIPE STRAIGHT DIN 2353

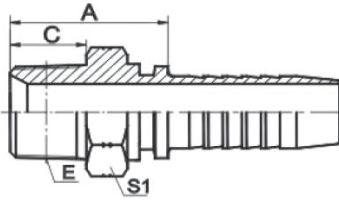


P50091

PART NO.	TUBE O.D.	HOSE BORE		DIMENSIONS			NOTE
		DN	DASH	A	C	H	
P50091-06-03	6	5	03	26.5	22	45	
P50091-06-04	6	6	04	30	22	48	
P50091-08-05	8	8	05	34	24	55.5	
P50091-08-06	8	10	06	35.8	24	57.8	
P50091-10-05	10	8	05	34	23	53	
P50091-10-06	10	10	06	35.3	23	55.3	
P50091-12-06	12	10	06	35.3	23	59.8	
P50091-12-08	12	12	08	41	23	67	
P50091-15-06	15	10	06	35.8	25	59.8	
P50091-15-08	15	12	08	41	25	65	
P50091-18-08	18	12	08	41	26	68.5	
P50091-18-10	18	16	10	56.5	26	73	
P50091-22-10	22	16	10	56.5	28	76.5	
P50091-22-12	22	20	12	65.5	28	86	
P50091-22-16	22	25	16	76.7	28	91.5	
P50091-28-16	28	25	16	76.7	30	95.5	
P50091-35-20	35	32	20	91.5	36	112.5	
P50091-08-04	8	6	04	30	24	52.5	
P50091-10-04	10	6	04	30	26	53	
P50091-12-04	12	6	04	30	26	57.5	
P50091-12-05	12	8	05	33	26	60.5	
P50091-14-06	14	10	06	35.3	29	63.8	
P50091-14-08	14	12	08	41	29	69	
P50091-14-12	14	20	12	66.2	29	83	
P50091-16-08	16	12	08	42	30	73	
P50091-16-10	16	16	10	56.5	30	77.5	
P50091-20-10	20	16	10	56.5	36	84.5	
P50091-20-12	20	20	12	65.5	36	95.5	
P50091-25-12	25	20	12	65.5	40	98	
P50091-25-16	25	25	16	76.7	40	103.5	
P50091-30-16	30	25	16	78	44	109.5	
P50091-30-20	30	32	20	91.5	44	120.5	
P50091-38-16	38	25	16	76.7	50	115.5	
P50091-38-20	38	32	20	91.5	50	126.5	

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P50092-xx-xx.

BSPT MALE

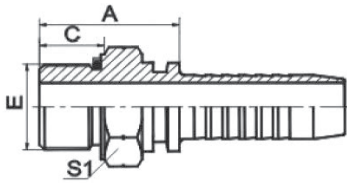


P13011-SP

PART NO.	THREADE	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P13011-02-03SP	R1/8"X28	5	03	22	10	12
P13011-02-04SP	R1/8"X28	6	04	22.5	10	12
P13011-04-04SP	R1/4"X19	6	04	27	14.5	14
P13011-04-05SP	R1/4"X19	8	05	25	15.4	14
P13011-04-06SP	R1/4"X19	10	06	27	14.5	17
P13011-06-04SP	R3/8"X19	6	04	27.5	15	17
P13011-06-05SP	R3/8"X19	8	05	26.5	15	17
P13011-06-06SP	R3/8"X19	10	06	27.5	15	17
P13011-06-08SP	R3/8"X19	12	08	30	15	19
P13011-08-06SP	R1/2"X14	10	06	34.5	20	22
P13011-08-08SP	R1/2"X14	12	08	35	20	22
P13011-08-10SP	R1/2"X14	16	10	38	20	22
P13011-08-12SP	R1/2"X14	20	12	38	20	27
P13011-12-08SP	R3/4"X14	12	08	37	20	27
P13011-12-10SP	R3/4"X14	16	10	38	20	27
P13011-12-12SP	R3/4"X14	20	12	38.5	20	27
P13011-12-16SP	R3/4"X14	25	16	39.5	20	32
P13011-16-12SP	R1"X11	20	12	44	25.5	36
P13011-16-16SP	R1"X11	25	16	45	25.5	36
P13011-20-20SP	R1.1/4"X11	32	20	49.5	26.5	46
P13011-24-24SP	R1.1/2"X11	40	24	51.5	26.5	50
P13011-32-24SP	R2"X11	40	24	57	30	65
P13011-32-32SP	R2"X11	50	32	57	30	65

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P13012-xx-xx.

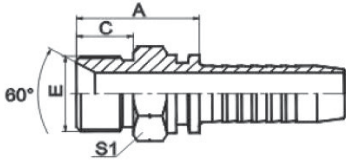
BSP MALE O-RING SEAL



P12211

PART NO.	THREADE	HOSE BORE		O RING	DIMENSIONS		
		DN	DASH		A	C	S1
P12211-04-04	G1/4"X19	6	04	O111	23.5	11	19
P12211-04-06	G1/4"X19	10	06	O111	23.5	11	19
P12211-06-06	G3/8"X19	10	06	O113	26.5	12	22
P12211-08-04	G1/2"X14	6	04	O115	33.5	14	27
P12211-08-06	G1/2"X14	10	06	O115	33.5	14	27
P12211-08-08	G1/2"X14	12	08	O115	34	14	27
P12211-10-10	G5/8"X14	16	10	O910	36	15.5	30
P12211-12-10	G3/4"X14	16	10	O119	33.5	15.5	32
P12211-12-12	G3/4"X14	20	12	O119	38	15.5	32
P12211-12-16	G3/4"X14	25	16	O119	36	15.5	32
P12211-16-16	G1"X11	25	16	O217	44.5	18.5	41
P12211-20-20	G1.1/4"X11	32	20	O222	46	20	50

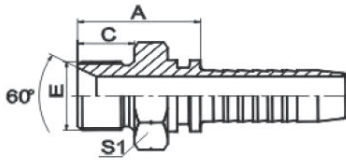
BSP MALE 60° CONE SEAT



P12611

PART NO.	THREADE	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P12611-02-03	G1/8"X28	5	03	22	10	12
P12611-04-04	G1/4"X19	6	04	24.5	12	14
P12611-06-05	G3/8"X19	8	05	26	13.5	17
P12611-06-06	G3/8"X19	10	06	27.5	13.5	17
P12611-06-08	G3/8"X19	12	08	26.5	13.5	19
P12611-08-06	G1/2"X14	10	06	30.5	16	22
P12611-08-08	G1/2"X14	12	08	31	16	22
P12611-10-08	G5/8"X14	12	08	32.5	17.5	24
P12611-10-10	G5/8"X14	16	10	33.5	17.5	24
P12611-12-08	G3/4"X14	12	08	35.5	18.5	27
P12611-12-10	G3/4"X14	16	10	37	18.5	27
P12611-12-12	G3/4"X14	20	12	36.5	18.5	27
P12611-16-12	G1"X11	20	12	40.5	20.5	36
P12611-16-16	G1"X11	25	16	41.5	20.5	36
P12611-20-16	G1.1/4"X11	25	16	43.5	20.5	46
P12611-20-20	G1.1/4"X11	32	20	44.5	20.5	46
P12611-24-20	G1-1/2"X11	32	20	49	23	50
P12611-24-24	G1-1/2"X11	40	24	46	23	50
P12611-32-32	G2"X11	50	32	53.5	25.5	65

BSP MALE DOUBLE USE FOR 60° CONE SEAT OR BONDED SEAL

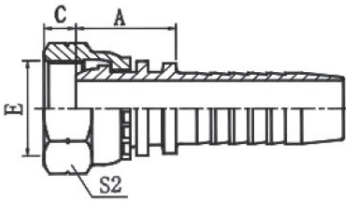


P12611A

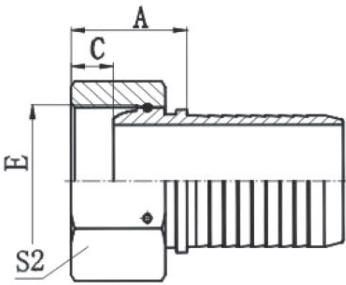
PART NO.	THREAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P12611A-02-03	G 1/8"X28	5	03	22	10	14
P12611A-04-04	G 1/4"X19	6	04	24.5	12	19
P12611A-04-05	G 1/4"X19	8	05	24.5	12	19
P12611A-06-05	G 3/8"X19	8	05	26	13.5	22
P12611A-06-06	G 3/8"X19	10	06	28	13.5	22
P12611A-06-08	G 3/8"X19	12	08	28.5	13.5	22
P12611A-08-06	G 1/2"X14	10	06	33	16	27
P12611A-08-08	G 1/2"X14	12	08	33.5	16	27
P12611A-08-10	G 1/2"X14	16	10	32	16	27
P12611A-10-08	G 5/8"X14	12	08	35	17.5	30
P12611A-10-10	G 5/8"X14	16	10	36	17.5	30
P12611A-12-08	G 3/4"X14	12	08	36.5	18.5	32
P12611A-12-10	G 3/4"X14	16	10	37.5	18.5	32
P12611A-12-12	G 3/4"X14	20	12	37.5	18.5	32
P12611A-16-12	G 1"X11	20	12	42.5	20.5	41
P12611A-16-16	G 1"X11	25	16	43.5	20.5	41
P12611A-20-16	G 1.1/4"X11	25	16	45.5	20.5	50
P12611A-20-20	G 1.1/4"X11	32	20	46.5	20.5	50
P12611A-24-24	G 1/2"X11	40	24	49	23	55
P12611A-32-32	G 2"X11	50	32	54.5	25.5	70

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P12612A-xx-xx.

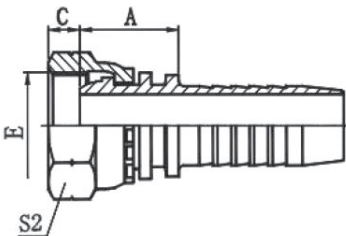
BSP FEMALE MULTISEAL



P22111



P22111-W

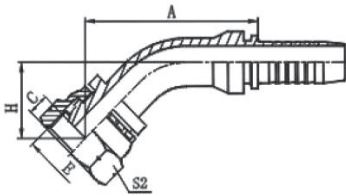


P22111-T

PART NO.	THREAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S2
P22111-02-04	G 1/8"X28	6	04	19	2	14
P22111-04-03	G 1/4"X19	5	03	19	4	19
P22111-04-04	G 1/4"X19	6	04	19.5	4	19
P22111-06-05	G 3/8"X19	8	05	20	5	22
P22111-06-06	G 3/8"X19	10	06	20.5	5	22
P22111-06-08	G 3/8"X19	12	08	21	5	22
P22111-08-06T	G 1/2"X14	10	06	22.5	6	27
P22111-08-08	G 1/2"X14	12	08	23	6	27
P22111-08-10	G 1/2"X14	16	10	24	6	27
P22111-10-10	G 5/8"X14	16	10	25	8	30
P22111-10-12	G 5/8"X14	20	12	25	8	30
P22111-12-08T	G 3/4"X14	12	08	25	9.5	32
P22111-12-10	G 3/4"X14	16	10	26	9.5	32
P22111-12-12	G 3/4"X14	20	12	26	9.5	32
P22111-16-12T	G 1"X11	20	12	26.5	11	41
P22111-16-14	G 1"X11	22	14	26.5	11	41
P22111-16-16	G 1"X11	25	16	28	11	41
P22111-20-16T	G 1.1/4"X11	25	16	27.5	11	50
P22111-20-20W	G 1.1/4"X11	32	20	31.5	10	50
P22111-24-24W	G 1/2"X11	40	24	37	11.5	55
P22111-02-32W	G 2"X11	50	32	34	15	75

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P22112-xx-xx.

45° BSP FEMALE MULTISEAL

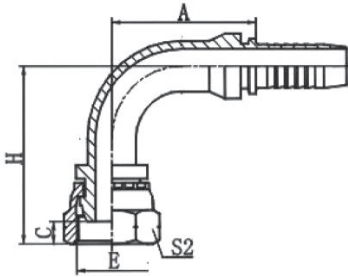


P22141

PART NO.	THREADE	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P22141-02-04	G1/8"X28	6	04	43.7	2	21.6	14
P22141-04-03	G1/4"X19	5	03	41.3	4	20.4	19
P22141-04-04	G1/4"X19	6	04	43.7	4	21.6	19
P22141-06-05	G3/8"X19	8	05	46.2	5	22.9	22
P22141-06-06	G3/8"X19	10	06	48.1	5	23.9	22
P22141-06-08	G3/8"X19	12	08	60.4	5	25.4	22
P22141-08-04T	G1/2"X14	6	04	43.9	6	23.8	27
P22141-08-06T	G1/2"X14	10	06	42.5	6	18.2	27
P22141-08-08	G1/2"X14	12	08	61.8	6	26.8	27
P22141-08-10	G1/2"X14	16	10	73	6	29	27
P22141-10-10	G5/8"X14	16	10	73.7	8	28.9	30
P22141-10-12	G5/8"X14	20	12	79.8	8	32.5	30
P22141-12-08T	G3/4"X14	12	08	63.2	9.5	28.3	32
P22141-12-10	G3/4"X14	16	10	70.4	9.5	29.6	32
P22141-12-12	G3/4"X14	20	12	80.6	9.5	33.2	32
P22141-16-12	G1"X11	20	12	81.6	11	33.5	41
P22141-16-14	G1"X11	22	14	83.3	11	33	41
P22141-16-16	G1"X11	25	16	89.2	11	35	41
P22141-20-16T	G1.1/4"X11	25	16	91.4	9.1	37.1	50
P22141-20-20W	G1.1/4"X11	32	20	102.9	10	41.2	50
P22141-24-24W	G1/2"X11	40	24	119.8	11.5	49	55
P22141-32-32W	G2"X11	50	32	137.4	15	53	70

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P22142-xx-xx.

90° BSP FEMALE MULTISEAL

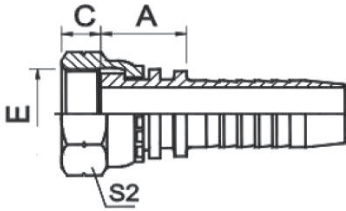


P22191

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P22191-02-04	G 1/8"X28	6	04	30	2	38.5	14
P22191-04-03	G 1/4"X19	5	03	27	4	35	19
P22191-04-04	G 1/4"X19	6	04	30	4	38.5	19
P22191-04-05	G 1/4"X19	8	05	33	4	41.5	19
P22191-06-05	G 3/8"X19	8	05	33	5	42	22
P22191-06-06	G 3/8"X19	10	06	35.3	5	44.8	22
P22191-06-08	G 3/8"X19	12	08	41	5	50	22
P22191-08-06T	G 1/2"X14	10	06	35.3	6	46.8	27
P22191-08-08	G 1/2"X14	12	08	41	6	52	27
P22191-08-10	G 1/2"X14	16	10	56.5	6	58	27
P22191-10-10	G 5/8"X14	16	10	56.5	8	57.5	30
P22191-10-12	G 5/8"X14	20	12	65.4	8	67	30
P22191-12-08T	G 3/4"X14	12	08	41	9.5	52	32
P22191-12-10	G 3/4"X14	16	10	56.5	9.5	58.5	32
P22191-12-12	G 3/4"X14	20	12	65.5	9.5	68	32
P22191-16-12T	G 1"X11	20	12	66.2	11	68.5	41
P22191-16-14	G 1"X11	22	14	71.2	11	69.5	41
P22191-16-16	G 1"X11	25	16	76.7	11	75	41
P22191-20-16T	G 1.1/4"X11	25	16	76.7	10	78	50
P22191-20-20W	G 1.1/4"X11	32	20	92.3	10	85.3	50
P22191-24-24W	G 1.1/2"X11	40	24	109.4	11.5	108	55
P22191-32-32 W	G 2"X11	50	32	133.1	15	123.8	70

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P22192-xx-xx.

BSP FEMALE FLAT SEAT

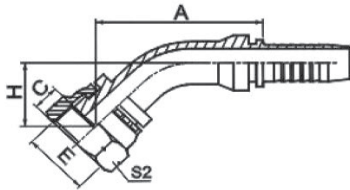


P22211

PART NO.	THREAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S2
P22211-04-04	G 1/4"X19	6	04	15.5	8	19
P22211-04-06	G 1/4"X19	10	06	15.5	8	19
P22211-06-04	G 3/8"X19	6	04	17	9	22
P22211-06-05	G 3/8"X19	8	05	17	9	22
P22211-06-06	G 3/8"X19	10	06	16.5	9	22
P22211-06-08	G 3/8"X19	12	08	17.5	9	22
P22211-08-06T	G 1/2"X14	10	06	18	10.5	27
P22211-08-08	G 1/2"X14	12	08	18.5	10.5	27
P22211-10-08	G 5/8"X14	12	08	20	12	30
P22211-10-10	G 5/8"X14	16	10	21	12	30
P22211-12-08T	G 3/4"X14	12	08	20.5	13.5	32
P22211-12-10	G 3/4"X14	16	10	21.5	13.5	32
P22211-12-12	G 3/4"X14	20	12	21.5	13.5	32
P22211-16-12T	G 1"X11	20	12	21.5	15.5	41
P22211-16-16	G 1"X11	25	16	23	15.5	41
P22211-20-20W	G 1.1/4"X11	32	20	26	15.5	50
P22211-24-24W	G 1.1/2"X11	40	24	27.5	17.5	55
P22211-32-32W	G 2"X11	50	32	30.5	23	70

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P22212-xx-xx.

45° BSP FEMALE FLAT SEAT

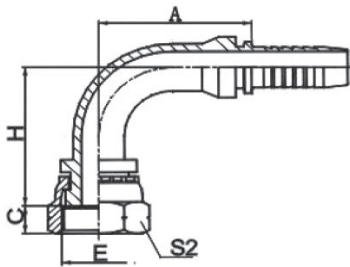


P22241

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P22241-04-04	G1/4"X19	6	04	40.9	8	18.8	19
P22241-06-06	G3/8"X19	10	06	45.3	9	21	22
P22241-08-08	G1/2"X14	12	08	58.9	10.5	24	27
P22241-12-12	G3/4"X14	20	12	77.4	13.5	30	32
P22241-16-16	G1"X11	25	16	82.7	15.5	31.5	41
P22241-20-20W	G1.1/4"X11	32	20	97.3	15.5	36.6	50

Note:1.For use with braided hoses. 2.If use with spiral hoses,hose fitting series number is P22242-xx-xx.

90° BSP FEMALE FLAT SEAT

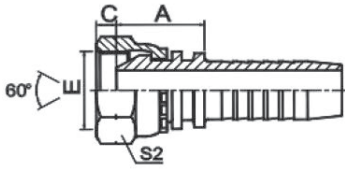


P22291

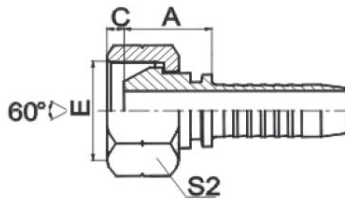
PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P22291-04-04	G1/4"X19	6	04	30	8	34.5	19
P22291-06-06	G3/8"X19	10	06	35.3	9	41.3	22
P22291-08-08	G1/2"X14	12	08	41	10.5	48	27
P22291-12-12	G3/4"X14	20	12	65.5	13.5	63.5	32
P22291-16-16	G1"X11	25	16	76.7	15.5	70	41
P22291-20-20W	G1.1/4"X11	32	20	91.5	15.5	82.5	50
P22291-24-24W	G1.1/2"X11	40	24	109.4	17.5	98.5	55

Note:1.For use with braided hoses. 2.If use with spiral hoses,hose fitting series number is P22292-xx-xx.

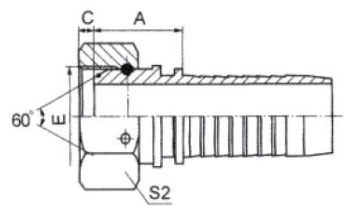
BSP FEMALE 60° CONE



P22611



P22611-T

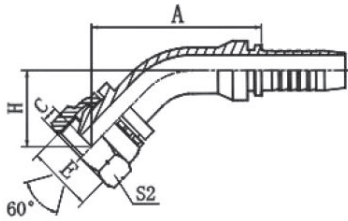


P22611-W

PART NO.	THREAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S2
P22611-02-03	G 1/8"X28	5	03	15	5.5	14
P22611-02-04	G 1/8"X28	6	04	15	5.5	14
P22611-04-03	G 1/4"X19	5	03	17	5.5	19
P22611-04-04	G 1/4"X19	6	04	18	5.5	19
P22611-04-05	G 1/4"X19	8	05	18	5.5	19
P22611-04-06	G 1/4"X19	10	06	18	5.5	19
P22611-06-04	G 3/8"X19	6	04	19	6.3	22
P22611-06-05	G 3/8"X19	8	05	19	6.3	22
P22611-06-06	G 3/8"X19	10	06	19.5	6.3	22
P22611-06-08	G 3/8"X19	12	08	19.5	6.3	22
P22611-08-06T	G 1/2"X14	10	06	21	7.5	27
P22611-08-08	G 1/2"X14	12	08	21.5	7.5	27
P22611-10-08	G 5/8"X14	12	08	22	9.5	30
P22611-10-10	G 5/8"X14	16	10	23.5	9.5	30
P22611-12-08T	G 3/4"X14	12	08	22	10.9	32
P22611-12-10	G 3/4"X14	16	10	24	10.9	32
P22611-12-12	G 3/4"X14	20	12	24	10.9	32
P22611-16-12T	G 1"X11	20	12	24	11.7	41
P22611-16-14	G 1"X11	22	14	26	11.7	41
P22611-16-16	G 1"X11	25	16	27	11.7	41
P22611-20-16T	G 1.1/4"X11	25	16	27.5	11	50
P22611-20-20W	G 1.1/4"X11	32	20	30.5	11	50
P22611-24-20T	G 1.1/2"X11	32	20	32	13	55
P22611-24-24W	G 1.1/2"X11	40	24	32	13	55
P22611-32-24T	G 2"X11	40	24	30	16	70
P22611-32-32W	G 2"X11	50	32	31.9	16	70

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P22612-xx-xx.

45° BSP FEMALE 60° CONE

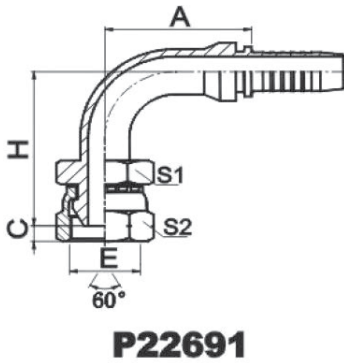


P22641

PART NO.	E THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P22641-04-04	G1/4"X19	6	04	42.3	5.5	20.2	19
P22641-06-04	G3/8"X19	6	04	43.2	6.3	21	22
P22641-06-05	G3/8"X19	8	05	45.3	6.3	22	22
P22641-06-06	G3/8"X19	10	06	46.9	6.3	22.6	22
P22641-08-06T	G1/2"X14	10	06	48.1	7.5	23.9	27
P22641-08-08	G1/2"X14	12	08	61.1	7.5	26.1	27
P22641-10-08	G5/8"X14	12	08	61.4	9.5	26.5	30
P22641-10-10	G5/8"X14	16	10	72.6	9.5	27.8	30
P22641-12-08T	G3/4"X14	12	08	61.8	10.9	26.9	32
P22641-12-10	G3/4"X14	16	10	73	10.9	28.2	32
P22641-12-12	G3/4"X14	20	12	79.2	10.9	31.8	32
P22641-16-12T	G1"X11	20	12	80.8	11.7	33.4	41
P22641-16-16	G1"X11	25	16	88.4	11.7	34.2	41
P22641-20-16T	G1.1/4"X11	25	16	85.3	11	31.1	50
P22641-20-20W	G1.1/4"X11	32	20	98.8	11	38	50
P22641-24-24W	G1.1/2"X11	40	24	116.8	13	45.5	55
P22641-32-32W	G2"X11	50	32	135.7	16	52.7	70

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P22642-xx-xx.

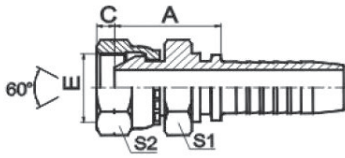
90° BSP FEMALE 60° CONE



PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P22691-02-03	G 1/8"X28	5	03	26.5	5.5	31.5	14
P22691-02-04	G 1/8"X28	6	04	30	5.5	34.5	14
P22691-04-03	G 1/4"X19	5	03	26.5	5.5	33.5	19
P22691-04-04	G 1/4"X19	6	04	30	5.5	36.5	19
P22691-04-05	G 1/4"X19	8	05	33	5.5	39.5	19
P22691-04-06	G 1/4"X19	10	06	30	5.5	36.5	19
P22691-06-04	G 3/8"X19	6	04	30	6.3	37.7	22
P22691-06-05	G 3/8"X19	8	05	33	6.3	40.7	22
P22691-06-06	G 3/8"X19	10	06	35.3	6.3	43	22
P22691-08-06T	G 1/2"X14	10	06	35.3	7	43.3	27
P22691-08-08	G 1/2"X14	12	08	41	7.5	51	27
P22691-08-10	G 1/2"X14	16	10	56.5	7.5	55.5	27
P22691-10-08	G 5/8"X14	12	08	41	9.5	51.5	30
P22691-10-10	G 5/8"X14	16	10	56.5	9.5	56	30
P22691-12-08T	G 3/4"X14	12	08	41	10.9	52.1	32
P22691-12-10	G 3/4"X14	16	10	56.5	10.9	56.6	32
P22691-12-12	G 3/4"X14	20	12	65.5	10.9	66	32
P22691-16-12T	G 1"X11	20	12	65.5	11.7	68.3	41
P22691-16-14	G 1"X11	22	14	71.2	11.7	69.3	41
P22691-16-16	G 1"X11	25	16	76.7	11.7	73.8	41
P22691-20-16T	G 1.1/4"X11	25	16	78	11	69.5	50
P22691-20-20W	G 1.1/4"X11	32	20	91.5	11	84.3	50
P22691-24-24W	G 1.1/2"X11	40	24	109.4	13	103	55
P22691-32-32W	G 2"X11	50	32	131.8	16	123.3	70

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P22692-xx-xx.

BSP FEMALE 60° CONE DOUBLE HEXAGON

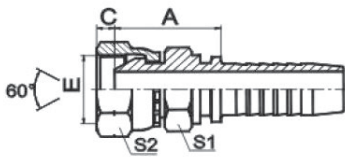


P22611D

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	S1	S2
P22611D-04-04	G 1/4"X19	6	04	23.5	5.5	19	19
P22611D-06-06	G 3/8"X19	10	06	26.5	6.3	22	22
P22611D-08-08	G 1/2"X14	12	08	31	7.5	27	27
P22611D-10-08	G 5/8"X14	12	08	32	9.5	30	30
P22611D-12-08	G 3/4"X14	12	08	33	10.9	32	32
P22611D-12-12	G 3/4"X14	20	12	34	10.9	32	32
P22611D-16-16	G 1"X11	25	16	35.5	11.7	41	41
P22611D-20-20	G 1.1/4"X11	32	20	43.5	11	50	50

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P22612D-xx-xx_o.

BSP FEMALE 60° CONE DOUBLE HEXAGON

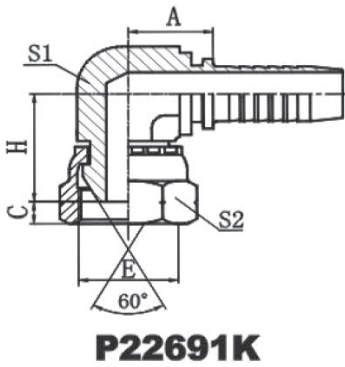


P22611D-SM

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	S1	S2
P22611D-04-04SM	G 1/4"X19	6	04	23	5.5	14	19
P22611D-06-06SM	G 3/8"X19	10	06	25	6.3	17	22
P22611D-08-08SM	G 1/2"X14	12	08	28.5	7.5	22	27
P22611D-10-08SM	G 5/8"X14	12	08	30	9.5	22	30
P22611D-12-08SM	G 3/4"X14	12	08	32.1	10.9	27	32
P22611D-12-12SM	G 3/4"X14	20	12	32.5	10.9	27	32
P22611D-16-16SM	G 1"X11	25	16	36.3	11.7	32	41
P22611D-20-20SM	G 1.1/4"X11	32	20	41.5	11	41	50

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P22612D-xx-xxSM_o.

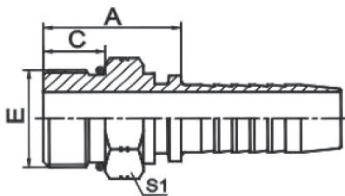
BSP FEMALE 60° CONE COMPACT ELBOW



PART NO.	THREAD E	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	H	S1	S2
P22691K-04-04	G 1/4"X19	6	04	17.5	5.5	18.5	11	19
P22691K-06-04	G 3/8"X19	6	04	20	6.3	23	16	22
P22691K-06-05	G 3/8"X19	8	05	20	6.3	23	16	22
P22691K-06-06	G 3/8"X19	10	06	20	6.3	24	16	22
P22691K-08-06	G 1/2"X14	10	06	23	7.5	26.5	19	27
P22691K-08-08	G 1/2"X14	12	08	23.5	7.5	28.5	19	27
P22691K-10-10	G 5/8"X14	16	10	25	9.5	29.2	22	30
P22691K-12-12	G 3/4"X14	20	12	27.5	10.9	33	27	32
P22691K-12-16	G 1"X11	25	16	32.5	11.7	38.1	33	41

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P22692K-xx-xx.

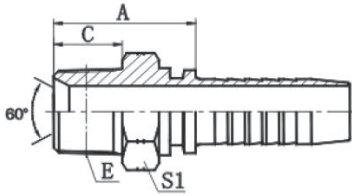
SAE O-RING MALE ISO 11926 - SAE J2926



PART NO.	THREAD E	HOSE BORE		O RING	DIMENSIONS		
		DN	DASH		A	C	S1
P16011-04-04	7/16"X20	6	04	O904	21.5	9.1	14
P16011-05-04	1/2"X20	6	04	O905	21.5	9.1	17
P16011-06-05	9/16"X18	8	05	O906	22.5	9.9	17
P16011-06-06	9/16"X18	10	06	O906	22.5	9.9	17
P16011-08-06	3/4"X16	10	06	O908	24.5	11.1	22
P16011-08-08	3/4"X16	12	08	O908	25	11.1	22
P16011-10-08	7/8"X14	12	08	O910	29.5	12.7	27
P16011-10-10	7/8"X14	16	10	O910	30.5	12.7	27
P16011-12-10	1.1/16"X12	16	10	O912	34	15.1	32
P16011-12-12	1.1/16"X12	20	12	O912	34	15.1	32
P16011-16-16	1.5/16"X12	25	16	O916	36	15.1	38

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P16012-xx-xx.

NPT MALE

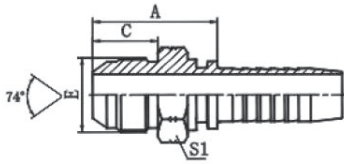


P15611

PART NO.	THREADE	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P15611-02-03	Z1/8"X27	5	03	22.5	10.5	12
P15611-02-04	Z1/8"X27	6	04	22.5	10.5	12
P15611-04-03	Z1/4"X18	5	03	27.5	15	17
P15611-04-04	Z1/4"X18	6	04	28	15	17
P15611-04-05	Z1/4"X18	8	05	28	15	17
P15611-04-06	Z1/4"X18	10	06	27	15	17
P15611-06-04	Z3/8"X18	6	04	28	16	19
P15611-06-05	Z3/8"X18	8	05	28	16	19
P15611-06-06	Z3/8"X18	10	06	30	16	19
P15611-06-08	Z3/8"X18	12	08	30.5	16	19
P15611-08-06	Z1/2"X14	10	06	34.5	19.5	22
P15611-08-08	Z1/2"X14	12	08	34.5	19.5	22
P15611-08-10	Z1/2"X14	16	10	36	19.5	22
P15611-12-08	Z3/4"X14	12	08	37.5	19.5	27
P15611-12-10	Z3/4"X14	16	10	38	19.5	27
P15611-12-12	Z3/4"X14	20	12	38.5	19.5	27
P15611-12-16	Z3/4"X14	25	16	39.5	19.5	32
P15611-16-10	Z1"X11.5	16	10	45	25.5	36
P15611-16-12	Z1"X11.5	20	12	45	25.5	36
P15611-16-16	Z1"X11.5	25	16	44.5	25.5	36
P15611-20-16	Z1.1/4"X11.5	25	16	49.5	26.5	46
P15611-20-20	Z1.1/4"X11.5	32	20	49	26.5	46
P15611-24-24	Z1.1/2"X11.5	40	24	51	27.5	50
P15611-32-32	Z2"X11.5	50	32	55	27.5	65

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P15612-xx-xx.

JIC MALE 74° CONE ISO 8434-2 - SAE J514

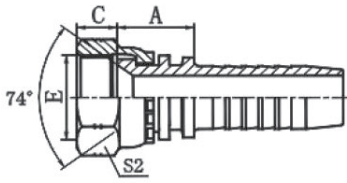


P16711

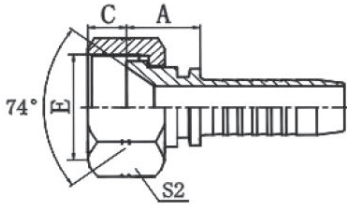
PART NO.	THREAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P16711-04-03	7/16"X20	5	03	26	14	12
P16711-04-04	7/16"X20	6	04	26.5	14	12
P16711-05-04	1/2"X20	6	04	26.5	14	14
P16711-05-05	1/2"X20	8	05	26.5	14	14
P16711-05-06	1/2"X20	10	06	26.5	14	17
P16711-06-04	9/16"X18	6	04	26.5	14.1	17
P16711-06-05	9/16"X18	8	05	26.5	14.1	17
P16711-06-06	9/16"X18	10	06	26.5	14.1	17
P16711-08-06	3/4"X16	10	06	31.5	16.7	22
P16711-08-08	3/4"X16	12	08	32	16.7	22
P16711-10-06	7/8"X14	10	06	32	19.3	24
P16711-10-08	7/8"X14	12	08	34.3	19.3	24
P16711-10-10	7/8"X14	16	10	35.5	19.3	24
P16711-12-08	1.1/16"X12	12	08	39	21.9	27
P16711-12-10	1.1/16"X12	16	10	40	21.9	27
P16711-12-12	1.1/16"X12	20	12	40	21.9	27
P16711-12-16	1.1/16"X12	25	16	41	21.9	30
P16711-14-10	1.3/16"X12	16	10	41.5	22.6	32
P16711-14-12	1.3/16"X12	20	12	40.6	22.6	32
P16711-16-12	1.5/16"X12	20	12	42.5	23.1	36
P16711-16-16	1.5/16"X12	25	16	43.5	23.1	36
P16711-20-16	1.5/8"X12	25	16	46.5	24.3	46
P16711-20-20	1.5/8"X12	32	20	47.5	24.3	46
P16711-24-20	1.7/8"X12	32	20	53	27.5	50
P16711-24-24	1.7/8"X12	40	24	53	27.5	50
P16711-32-32	2.1/2"X12	50	32	62	33.9	65

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P16712-xx-xx.

JIC FEMALE 74° CONE SEAT SAE J514



P26711

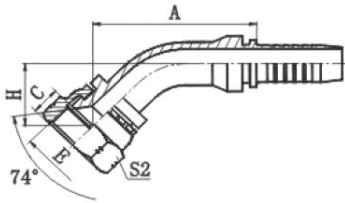


P26711-T

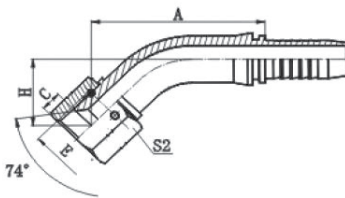
PART NO.	THREAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S2
P26711-04-03	7/16"X20	5	03	14.5	9	15
P26711-04-04	7/16"X20	6	04	15	9	15
P26711-05-04	1/2"X20	6	04	15.5	9.5	17
P26711-05-05	1/2"X20	8	05	15.5	9.5	17
P26711-05-06	1/2"X20	10	06	15.5	9.5	17
P26711-06-04	9/16"X18	6	04	15.5	10.5	19
P26711-06-05	9/16"X18	8	05	15.5	10.5	19
P26711-06-06	9/16"X18	10	06	15.5	10.5	19
P26711-06-08	9/16"X18	12	08	16	10.5	19
P26711-08-06	3/4"X16	10	06	17.5	11	24
P26711-08-08	3/4"X16	12	08	18	11	24
P26711-08-10	3/4"X16	16	10	19.5	11	24
P26711-10-08	7/8"X14	12	08	18.5	13	27
P26711-10-10	7/8"X14	16	10	20	13	27
P26711-10-12	7/8"X14	20	12	20	13	27
P26711-12-08T	1.1/16"X12	12	08	19	15	32
P26711-12-10	1.1/16"X12	16	10	21.5	15	32
P26711-12-12	1.1/16"X12	20	12	21.5	15	32
P26711-12-16	1.1/16"X12	25	16	23	15	32
P26711-14-12	1.3/16"X12	20	12	21.5	15	36
P26711-16-12T	1.5/16"X12	20	12	18.5	16	41
P26711-16-16	1.5/16"X12	25	16	23	16	41
P26711-16-20	1.5/16"X12	32	20	24	16	41
P26711-20-16T	1.5/8"X12	25	16	23	17	50
P26711-20-20W	1.5/8"X12	32	20	26	17	50
P26711-24-20W	1.7/8"X12	32	20	26.5	20	55
P26711-24-24W	1.7/8"X12	40	24	26.5	20	55
P26711-32-24T	2.1/2"X12	40	24	27	23.5	75
P26711-32-32T	2.1/2"X12	50	32	27	23.5	75

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P26712-xx-xx.

45° JIC FEMALE 74° CONE SEAT SAE J514



P26741

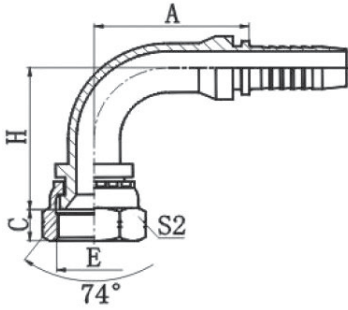


P26741-W

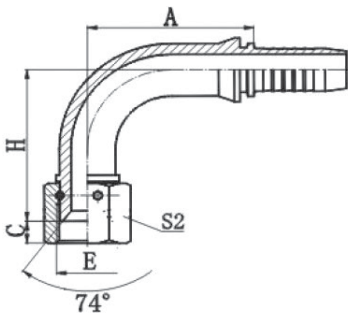
PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P26741-04-03	7/16"X20	5	03	37.6	9	17.2	15
P26741-04-04	7/16"X20	6	04	40.2	9	18.1	15
P26741-05-04	1/2"X20	6	04	40.5	9.5	18.5	17
P26741-05-05	1/2"X20	8	05	42.7	9.5	19.3	17
P26741-05-06	1/2"X20	10	06	44.6	9.5	20.3	17
P26741-06-04	9/16"X18	6	04	40.5	10.5	18.5	19
P26741-06-05	9/16"X18	8	05	42.7	10.5	19.3	19
P26741-06-06	9/16"X18	10	06	44.3	10.5	20	19
P26741-06-08	9/16"X18	12	08	56.8	10.5	21.9	19
P26741-08-06	3/4"X16	10	06	45.7	11	21.4	24
P26741-08-08	3/4"X16	12	08	58.6	11	23.5	24
P26741-10-08	7/8"X14	12	08	58.9	13	24	27
P26741-10-10	7/8"X14	16	10	70.1	13	25.3	27
P26741-10-12	7/8"X14	20	12	77	13	28.9	27
P26741-12-08	1.1/16"X12	12	08	60	15	25	32
P26741-12-10	1.1/16"X12	16	10	71.2	15	26.4	32
P26741-12-12	1.1/16"X12	20	12	77.4	15	30	32
P26741-12-16	1.1/16"X12	25	16	85.3	15	31	32
P26741-14-12	1.3/16"X12	20	12	77.4	15	30	36
P26741-16-12	1.5/16"X12	20	12	77.4	16	30	41
P26741-16-16	1.5/16"X12	25	16	85.7	16	31.5	41
P26741-16-20	1.5/16"X12	32	20	96.3	16	35.5	41
P26741-20-20W	1.5/8"X12	32	20	96.6	17	35.9	50
P26741-24-20W	1.7/8"X12	32	20	100.8	20	40.1	55
P26741-24-24W	1.7/8"X12	40	24	114.8	20	44.1	55
P26741-32-32W	2.1/2"X12	50	32	135.9	23.5	51.6	75

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P26742-xx-xx.

90° JIC FEMALE 74° CONE SEAT



P26791

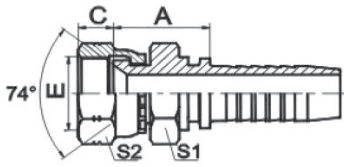


P26791-W

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P26791-04-03	7/16"X20	5	03	26.5	9	30.5	15
P26791-04-04	7/16"X20	6	04	30	9	33.5	15
P26791-05-04	1/2"X20	6	04	30	9.5	34	17
P26791-05-05	1/2"X20	8	05	33	9.5	37	17
P26791-05-06	1/2"X20	10	06	35.3	9.5	39.3	17
P26791-06-04	9/16"X18	6	04	30	10.5	34	19
P26791-06-05	9/16"X18	8	05	33	10.5	37	19
P26791-06-06	9/16"X18	10	06	35.3	10.5	39.3	19
P26791-06-08	9/16"X18	12	08	41	10.5	45.5	19
P26791-08-06	3/4"X16	10	06	35.3	11	41.3	24
P26791-08-08	3/4"X16	12	08	41	11	47	24
P26791-08-10	3/4"X16	16	10	56.5	11	51.5	24
P26791-10-08	7/8"X14	12	08	41	13	48	27
P26791-10-10	7/8"X14	16	10	56.5	13	52.5	27
P26791-10-12	7/8"X14	20	12	67	13	64	27
P26791-12-08	1.1/16"X12	12	08	41	15	49.5	32
P26791-12-10	1.1/16"X12	16	10	56.5	15	54	32
P26791-12-12	1.1/16"X12	20	12	56.5	15	63.5	32
P26791-12-16	1.1/16"X12	25	16	76.7	15	70	32
P26791-14-12	1.3/16"X12	20	12	65.5	15	63.5	36
P26791-16-12	1.5/16"X12	20	12	65.5	16	63.5	41
P26791-16-16	1.5/16"X12	25	16	76.7	16	70	41
P26791-16-20	1.5/16"X12	32	20	91.5	16	81	41
P26791-20-20W	1.5/8"X12	32	20	91.5	17	80.5	50
P26791-24-20W	1.7/8"X12	32	20	91.5	20	79.5	55
P26791-24-24W	1.7/8"X12	40	24	109.4	20	94	55
P26791-32-24W	2.1/2"X12	50	32	133.1	23.5	121.8	75

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P26792-xx-xx.

JIC FEMALE 74° CONE SEAT DOUBLE HEXAGON SAE J 514

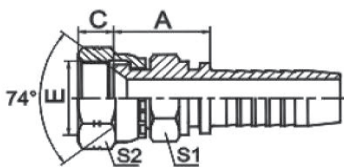


P26711D

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	S1	S2
26711D-04-04	7/16"X20	6	04	20	9	15	15
26711D-05-04	1/2"X20	6	04	20.5	9.5	17	17
26711D-06-04	9/16"X18	6	04	21	10.5	19	19
26711D-06-06	9/16"X18	10	06	21	10.5	19	19
26711D-08-06	3/4"X16	10	06	25	11	24	24
26711D-08-08	3/4"X16	12	08	24.5	11	24	24
26711D-08-10	3/4"X16	16	10	25.5	11	24	24
26711D-10-08	7/8"X14	12	08	28	13	27	27
26711D-10-10	7/8"X14	16	10	29	13	27	27
26711D-12-12	1.1/16"X12	20	12	31.5	15	32	32
26711D-16-12	1.5/16"X12	20	12	33.5	16	41	41
26711D-16-16	1.5/16"X12	25	16	34.5	16	41	41
26711D-16-20	1.5/16"X12	32	20	36.5	16	41	41
26711D-20-20	1.7/16"X12	32	20	39	17	50	50

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is 26712D-xx-xx.

JIC FEMALE 74° CONE SEAT DOUBLE HEXAGON SAE J 514

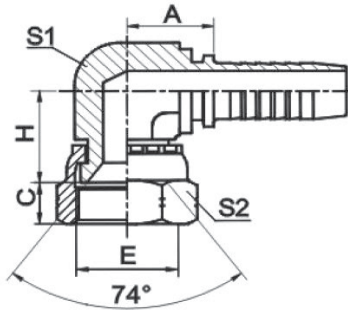


P26711D-SM

PART NO.	THREADE	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	S1	S2
P26711D-04-04SM	7/16"X20	6	04	20	9	12	15
P26711D-05-04SM	1/2"X20	6	04	20.5	9.5	12	17
P26711D-06-04SM	9/16"X18	6	04	21	10.5	14	19
P26711D-06-06SM	9/16"X18	10	06	21	10.5	17	19
P26711D-08-06SM	3/4"X16	10	06	23	11	19	24
P26711D-08-08SM	3/4"X16	12	08	24.5	11	22	24
P26711D-08-10SM	3/4"X16	16	10	25.5	11	22	24
P26711D-10-08SM	7/8"X14	12	08	24	13	22	27
P26711D-10-10SM	7/8"X14	16	10	27	13	22	27
P26711D-12-12SM	1.1/16"X12	20	12	31.5	15	27	32
P26711D-16-12SM	1.5/16"X12	20	12	31.5	16	32	41
P26711D-16-16SM	1.5/16"X12	25	16	32.5	16	32	41
P26711D-20-20SM	1.7/16"X12	32	20	37	17	41	50

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P26712D-xx-xxSM.

90° JIC COMPACT FEMALE 74° CONE SEAT SAE J514

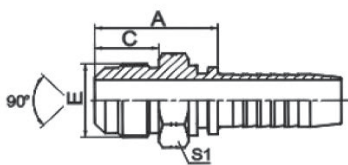


P26791K

PART NO.	THREAD E	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	H	S1	S2
P26791K-04-04	7/16"X20	6	04	17.5	9	18	11	15
P26791K-06-04	9/16"X18	6	04	19	10.5	21	14	19
P26791K-06-06	9/16"X18	10	06	20	10.5	21	16	19
P26791K-08-06	3/4"X16	10	06	23	11	25	19	24
P26791K-08-08	3/4"X16	12	08	23.5	11	25	22	24
P26791K-10-08	7/8"X14	12	08	23.5	13	27.5	22	27
P26791K-10-10	7/8"X14	16	10	25	13	27.5	22	27
P26791K-12-12	1.1/16"X12	20	12	27.5	15	30	27	32
P26791K-16-16	1.5/16"X12	25	16	43	16	34.3	33	41

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P26792K-xx-xx.

SAE MALE 90° CONE SAE J513

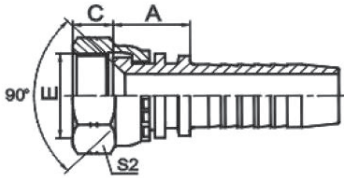


P17811

PART NO.	THREAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P17811-04-04	7/16"X20	6	04	25.5	12.7	12
P17811-05-05	1/2"X20	8	05	27	14.2	14
P17811-06-06	5/8"X18	10	06	28.5	15.7	17
P17811-08-08	3/4"X16	12	08	34	19	22
P17811-10-10	7/8"X14	16	10	38.5	22.4	24
P17811-12-12	1.1/16"X14	20	12	43.5	25.4	30

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P17812-xx-xx.

SAE FEMALE 90° CONE SEAT SAE J513

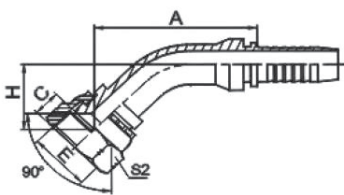


P27811

PART NO.	THREAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S2
P27811-04-04	7/16"X20	5	03	14	9	15
P27811-04-05	7/16"X20	6	04	15	9	15
P27811-05-05	1/2"X20	8	05	15.5	9.5	17
P27811-06-04	5/8"X18	6	04	17	11.3	22
P27811-06-05	5/8"X18	8	05	17	11.3	22
P27811-06-06	5/8"X18	10	06	17	11.3	22
P27811-08-08	3/4"X16	12	08	18	11	24
P27811-10-08	7/8"X14	12	08	18.5	13	27
P27811-10-10	7/8"X14	16	10	20	13	27
P27811-12-12	1.1/16"X14	20	12	21.5	14.3	32

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P27812-xx-xx.

45° SAE FEMALE 90° CONE SEAT SAE J513

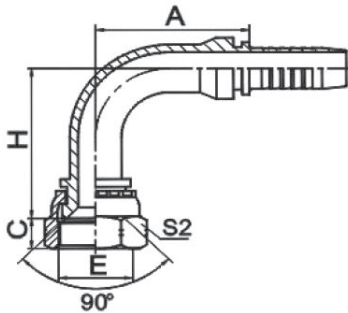


P27841

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P27841-04-03	7/16"X20	5	03	37.6	9	17.2	15
P27841-06-04	5/8"X18	6	04	42	11.3	19.9	22
P27841-06-05	5/8"X18	8	05	44.1	11.3	20.7	22
P27841-06-06	5/8"X18	10	06	45.7	11.3	21.4	22
P27841-08-08	3/4"X16	12	08	58.2	11	23.3	24
P27841-10-08	7/8"X14	12	08	58.2	13	23.3	27
P27841-10-10	7/8"X14	16	10	69.4	13	24.6	27
P27841-12-12	1.1/16"X14	20	12	77.4	14.3	30	32

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P27842-xx-xx.

90° SAE FEMALE 90° CONE SEAT SAE J513

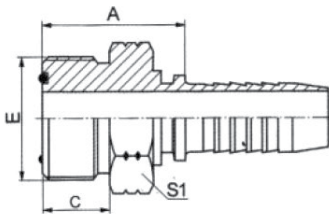


P27891

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P27891-04-03	7/16"X20	5	03	26.5	9	30.5	15
P27891-06-04	5/8"X18	6	04	30	11.3	36	22
P27891-06-05	5/8"X18	8	05	33	11.3	39	22
P27891-06-06	5/8"X18	10	06	35.3	11.3	41.3	22
P27891-10-08	7/8"X14	12	08	41	13	47	27
P27891-10-10	7/8"X14	16	10	56.5	13	51.5	27
P27891-12-12	1.1/16"X14	20	12	65.5	14.3	63.5	32

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P27892-xx-xx.

ORFS MALE O-RING SEAL ISO 8434-3 - SAE J1453

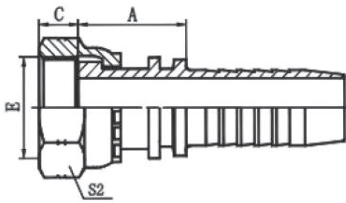


P14211

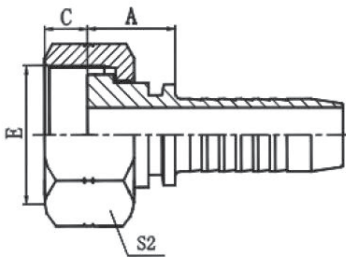
PART NO.	THREAD E	HOSE BORE		O RING	DIMENSIONS		
		DN	DASH		A	C	S1
P14211-04-04	9/16"X18	6	04	O011	22.3	9.8	17
P14211-06-04	11/16"X16	6	04	O012	24	11.2	19
P14211-06-06	11/16"X16	10	06	O012	24	11.2	19
P14211-08-06	13/16"X16	10	06	O014	27.5	12.8	22
P14211-08-08	13/16"X16	12	08	O014	28.5	12.8	22
P14211-08-10	13/16"X16	16	10	O014	28.5	12.8	22
P14211-10-08	1"X14	12	08	O016	32.5	15.5	27
P14211-10-10	1"X14	16	10	O016	34	15.5	27
P14211-12-08	1.3/16"X12	12	08	O018	35.5	17	32
P14211-12-10	1.3/16"X12	16	10	O018	36.5	17	32
P14211-12-12	1.3/16"X12	20	12	O018	36.5	17	32
P14211-16-12	1.7/16"X12	20	12	O021	37	17.5	38
P14211-16-16	1.7/16"X12	25	16	O021	38.5	17.5	38
P14211-20-20	1.11/16"X12	32	20	O025	41.5	17.5	46
P14211-24-24	2"X12	40	24	O029	43.5	17.5	55

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P14212-xx-xx.

ORFS FEMALE FLAT SEAT ISO 12151-1 - SAE J516



P24211

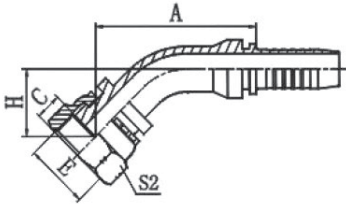


P24211-T

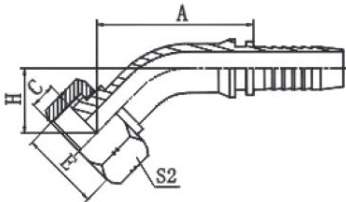
PART NO.	THREAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S2
P24211-04-04	9/16"X18	6	04	22.5	8.5	19
P24211-04-05	9/16"X18	8	05	22.5	8.5	19
P24211-04-06	9/16"X18	10	06	22.5	8.5	19
P24211-06-04T	11/16"X16	6	04	23.5	10	22
P24211-06-05T	11/16"X16	8	05	23.5	10	22
P24211-06-06	11/16"X16	10	06	25.5	10	22
P24211-06-08	11/16"X16	12	08	26	10	22
P24211-08-05T	13/16"X16	8	05	25	11	27
P24211-08-06T	13/16"X16	10	06	25	11	27
P24211-08-08	13/16"X16	12	08	28	11	27
P24211-08-10	13/16"X16	16	10	29	11	27
P24211-10-08T	1"X14	12	08	29.5	13.5	30
P24211-10-10	1"X14	16	10	33.5	13.5	30
P24211-10-12	1"X14	20	12	33.5	13.5	30
P24211-12-08T	1.3/16"X12	12	08	30.5	15	36
P24211-12-10T	1.3/16"X12	16	10	31.5	15	36
P24211-12-12	1.3/16"X12	20	12	35	15	36
P24211-12-16	1.3/16"X12	25	16	36	15	36
P24211-16-12T	1.7/16"X12	20	12	35	14.8	41
P24211-16-14T	1.7/16"X12	22	14	34	14.8	41
P24211-16-16T	1.7/16"X12	25	16	35	14.8	41
P24211-16-20	1.7/16"X12	32	20	39.5	14.8	41
P24211-20-16T	1.11/16"X12	25	16	35	15	50
P24211-20-20W	1.11/16"X12	32	20	39.5	15	50
P24211-20-24W	1.11/16"X12	40	24	39.5	15	50
P24211-24-20W	2"X12	32	20	36	14.8	60
P24211-24-24T	2"X12	40	24	36	14.8	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P24212-xx-xx.

45°ORFS FEMALE FLAT SEAT ISO 12151-1 - SAE J516



P24241

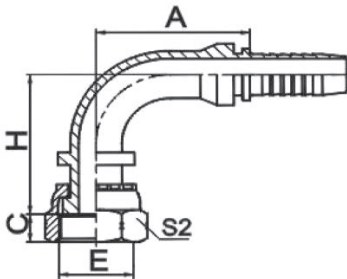


P24241-T

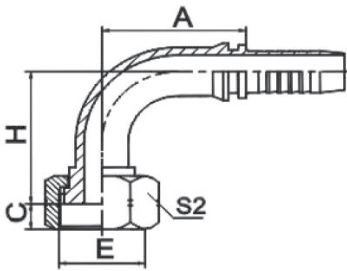
PART NO.	THREADE	HOSE BORE		DIMENSIONS			
		DN	DASH	A	H	C	S2
P24241-04-04	9/16"X18	6	04	45.5	23.4	8.5	19
P24241-04-05	9/16"X18	8	05	47.6	23.4	8.5	19
P24241-04-06	9/16"X18	10	06	49.2	24.9	8.5	19
P24241-06-04T	11/16"X16	6	04	39.5	17.4	10	22
P24241-06-05T	11/16"X16	8	05	42.3	19	10	22
P24241-06-06	11/16"X16	10	06	51.7	27.4	10	22
P24241-06-08	11/16"X16	12	08	63.9	29	10	22
P24241-08-06T	13/16"X16	10	06	44.6	20.3	11	27
P24241-08-08	13/16"X16	12	08	65.3	30.4	11	27
P24241-08-10	13/16"X16	16	10	76.5	31.7	11	27
P24241-10-08T	1"X14	12	08	58.2	23.3	13.5	30
P24241-10-10	1"X14	16	10	79.7	34.9	13.5	30
P24241-10-12	1"X14	20	12	86.5	38.4	13.5	30
P24241-12-08T	1.3/16"X12	12	08	58.2	23.3	15	36
P24241-12-10	1.3/16"X12	16	10	69.4	24.6	15	36
P24241-12-12	1.3/16"X12	20	12	87.6	39.5	15	36
P24241-12-16	1.3/16"X12	25	16	95.3	41	15	36
P24241-16-12T	1.7/16"X12	20	12	74	29.6	14.8	41
P24241-16-14T	1.7/16"X12	22	14	78.7	28.5	14.8	41
P24241-16-16T	1.7/16"X12	25	16	84.1	29.7	14.8	41
P24241-16-20	1.7/16"X12	32	20	103.8	46.1	14.8	41
P24241-20-16T	1.11/16"X12	25	16	80.9	32.7	15	50
P24241-20-20W	1.11/16"X12	32	20	111.2	49	15	50
P24241-20-24W	1.11/16"X12	40	24	123.6	52.9	15	50
P24241-24-20T	2"X12	32	20	94.5	33.8	14.8	60
P24241-24-24T	2"X12	40	24	108.5	37.7	14.8	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P24242-xx-xx.

90°ORFS FEMALE FLAT SEAT ISO 12151-1 - SAE J516



P24291

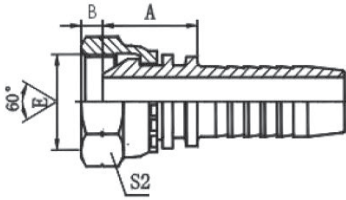


P24291-T

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	H	C	S2
P24291-04-04	9/16"X18	6	04	30	41	8.5	19
P24291-04-05	9/16"X18	8	05	33	44	8.5	19
P24291-04-06	9/16"X18	10	06	35.3	46.3	8.5	19
P24291-06-05T	11/16"X16	8	05	33	37.5	10	22
P24291-06-06	11/16"X16	10	06	35.3	49.8	10	22
P24291-06-08	11/16"X16	12	08	41	55	10	22
P24291-08-06T	13/16"X16	10	06	35.3	39.8	11	27
P24291-08-08	13/16"X16	12	08	41	57	11	27
P24291-08-10	13/16"X16	16	10	56.5	61.5	11	27
P24291-10-08T	1"X14	12	08	41	46	13.5	30
P24291-10-10	1"X14	16	10	56.5	66	13.5	30
P24291-10-12	1"X14	20	12	65.5	75.5	13.5	30
P24291-12-10T	1.3/16"X12	16	10	56.5	51.5	15	36
P24291-12-12	1.3/16"X12	20	12	65.5	77	15	36
P24291-12-16	1.3/16"X12	25	16	76.7	83.5	15	36
P24291-16-12T	1.7/16"X12	20	12	65.5	63	14.8	41
P24291-16-14T	1.7/16"X12	22	14	71.2	63	14.8	41
P24291-16-16T	1.7/16"X12	25	16	76.9	67.5	14.8	41
P24291-16-20	1.7/16"X12	32	20	91.5	96	14.8	41
P24291-20-16T	1.11/16"X12	25	16	76.7	67.5	15	50
P24291-20-20W	1.11/16"X12	32	20	93	100	15	50
P24291-20-24W	1.11/16"X12	40	24	109.4	113.5	15	50
P24291-24-20T	2"X12	32	20	91.5	78.5	14.8	60
P24291-24-24T	2"X12	40	24	109.4	92	14.8	60

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P24292-xx-xx.

NPSM FEMALE 60° CONE SAE J514

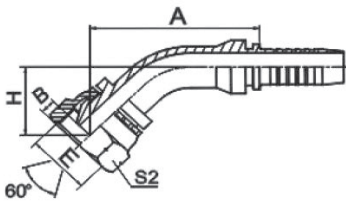


P21611

PART NO.	THREAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	B	S2
P21611-04-04	1/4"X18	6	04	22	4.6	19
P21611-04-06	1/4"X18	10	06	22	4.6	19
P21611-06-04	3/8"X18	6	04	23	6	22
P21611-06-05	3/8"X18	8	05	23	6	22
P21611-06-06	3/8"X18	10	06	23	6	22
P21611-08-08	1/2"X14	12	08	23.5	7.5	27
P21611-12-10	3/4"X14	16	10	27	8.9	32
P21611-12-12	3/4"X14	20	12	27	8.9	32
P21611-16-12T	1"X11.5	20	12	25	10.5	41
P21611-16-16	1"X11.5	25	16	28.5	10.5	41
P21611-20-20W	1.1/4"X11.5	32	20	29.5	11.2	50
P21611-24-20T	1.1/2"X11.5	32	20	29.5	11.2	55
P21611-24-24W	1.1/2"X11.5	40	24	31.5	11.2	55
P21611-32-32W	2"X11.5	50	32	31	11.2	70

Note:1.For use with braided hoses. 2.If use with spiral hoses,hose fitting series number is P21612-xx-xx。

45°NPSM FEMALE 60° CONE SAE J514

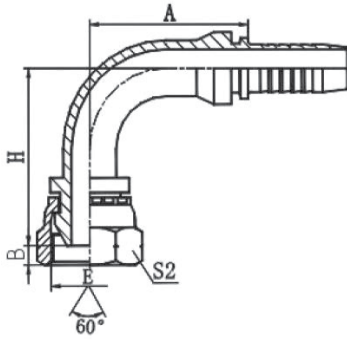


P21641

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	B	H	S2
P21641-04-04	1/4"X18	6	04	45.1	4.6	23	19
P21641-06-06	3/8"X18	10	06	47.2	6	24.9	22
P21641-08-08	1/2"X14	12	08	62.7	7.5	27.7	27
P21641-12-12	3/4"X14	20	12	81.4	8.9	34	32
P21641-16-16	1"X11.5	25	16	89.2	10.5	35	41
P21641-20-20W	1.1/4"X11.5	32	20	99.8	11.2	39.3	50
P21641-24-24W	1.1/2"X11.5	40	24	115.1	11.2	44.4	55
P21641-32-32W	2"X11.5	50	32	136.4	11.2	63.4	70

Note:1.For use with braided hoses. 2.If use with spiral hoses,hose fitting series number is P21642-xx-xx。

90°NPSM FEMALE 60° CONE SAE J514

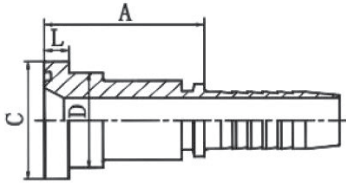


P21691

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	B	H	S2
P21691-04-04	1/4"X18	6	04	30	4.6	40.5	19
P21691-06-04	3/8"X18	6	04	30	6	37.7	22
P21691-06-05	3/8"X18	8	05	34	6	40.7	22
P21691-06-06	3/8"X18	10	06	35.5	6	45.3	22
P21691-08-08	1/2"X14	12	08	41	7.5	53.2	27
P21691-12-10	3/4"X14	16	10	56.5	8.9	53.5	32
P21691-12-12	3/4"X14	20	12	65.5	8.9	69.1	32
P21691-16-12T	1"X11.5	20	12	65.5	10.5	64.5	41
P21691-16-16	1"X11.5	25	16	76.7	10.5	75	41
P21691-20-20W	1.1/4"X11.5	32	20	91.5	11.2	86	50
P21691-24-20T	1.1/2"X11.5	32	20	91.5	11.2	83.5	55
P21691-24-24W	1.1/2"X11.5	40	24	109.4	11.2	101.5	55
P21691-32-32W	2"X11.5	50	32	131.8	11.2	124.5	70

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P21692-xx-xx.

SAE FLANGE 3000PSI ISO 12151-3 - SAE J516

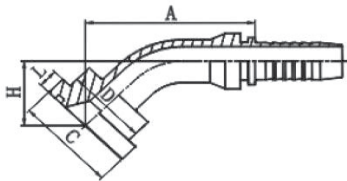


P87311

PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	D	L
P87311-08-08	1/2"	12	08	46	30.2	24	6.73
P87311-12-08	3/4"	12	08	47	38.1	31.7	6.73
P87311-12-10	3/4"	16	10	48	38.1	31.7	6.73
P87311-12-12	3/4"	20	12	48	38.1	31.7	6.73
P87311-12-16	3/4"	25	16	49	38.1	31.7	6.73
P87311-16-12	1"	20	12	51	44.4	38	8
P87311-16-16	1"	25	16	52	44.4	38	8
P87311-16-20	1"	32	20	53	44.4	38	8
P87311-20-16	1.1/4"	25	16	57	50.8	43	8
P87311-20-20	1.1/4"	32	20	58	50.8	43	8
P87311-24-20	1.1/2"	32	20	68	60.3	50	8
P87311-24-24	1.1/2"	40	24	68	60.3	50	8
P87311-32-24	2"	40	24	70	71.4	62	9.53
P87311-32-32	2"	50	32	70	71.4	62	9.53
P87311-40-40	2.1/2"	64	40	76	84.1	74	9.53

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P87312-xx-xx.

45°SAE FLANGE 3000PSI ISO 12151-3 - SAE J516

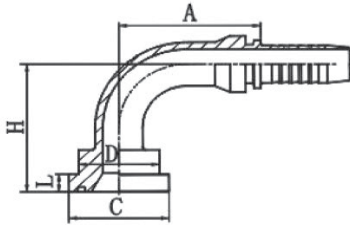


P87341

PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	D	H	L
P87341-08-08	1/2"	12	08	58.2	30.2	24	23.3	6.73
P87341-12-08	3/4"	12	08	58.9	38.1	31.7	24	6.73
P87341-12-10	3/4"	16	10	70.1	38.1	31.7	25.3	6.73
P87341-12-12	3/4"	20	12	77	38.1	31.7	28.9	6.73
P87341-16-12	1"	20	12	77	44.4	38	28.9	8
P87341-16-16	1"	25	16	85.2	44.4	38	29.7	8
P87341-16-20	1"	32	20	94.5	44.4	38	33.8	8
P87341-20-16	1.1/4"	25	16	85.2	50.8	43	29.7	8
P87341-20-20	1.1/4"	32	20	94.5	50.8	43	33.8	8
P87341-24-20	1.1/2"	32	20	95.9	60.3	50	35.2	8
P87341-24-24	1.1/2"	40	24	109.9	60.3	50	39.1	8
P87341-32-24	2"	40	24	109.9	71.4	62	39.1	9.53
P87341-32-32	2"	50	32	129.3	71.4	62	46.3	9.53

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P87342-xx-xx.

90° SAE FLANGE 3000PSI ISO 12151-3 - SAE J516

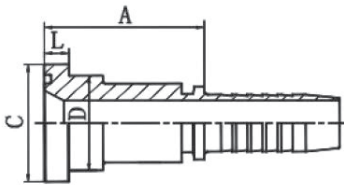


P87391

PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	D	H	L
P87391-08-08	1/2"	12	08	41	30.2	24	47	6.73
P87391-12-08	3/4"	12	08	41	38.1	31.7	48	6.73
P87391-12-10	3/4"	16	10	56.5	38.1	31.7	52.5	6.73
P87391-12-12	3/4"	20	12	66.2	38.1	31.7	62	6.73
P87391-12-12(H100)	3/4"	20	12	65.5	38.1	31.7	100	6.73
P87391-12-12(H127)	3/4"	20	12	65.5	38.1	31.7	127	6.73
P87391-12-12(H150)	3/4"	20	12	65.5	38.1	31.7	150	6.73
P87391-12-16	3/4"	25	16	76.7	38.1	31.7	67.5	6.73
P87391-16-12	1"	20	12	66.2	44.4	38	62	8
P87391-16-16	1"	25	16	78	44.4	38	67.5	8
P87391-16-16(H100)	1"	25	16	76.7	44.4	38	100	8
P87391-16-16(H127)	1"	25	16	76.7	44.4	38	127	8
P87391-16-16(H150)	1"	25	16	76.7	44.4	38	150	8
P87391-16-20	1"	32	20	91.5	44.4	38	78.5	8
P87391-20-16	1.1/4"	25	16	78	50.8	43	67.5	8
P87391-20-20	1.1/4"	32	20	91.5	50.8	43	78.5	8
P87391-20-20(H100)	1.1/4"	32	20	91.5	50.8	43	100	8
P87391-20-20(H127)	1.1/4"	32	20	91.5	50.8	43	127	8
P87391-20-20(H150)	1.1/4"	32	20	91.5	50.8	43	150	8
P87391-20-24	1.1/4"	40	24	108.5	50.8	43	78.5	8
P87391-24-20	1.1/2"	32	20	91.5	60.3	50	80.5	8
P87391-24-24	1.1/2"	40	24	109.4	60.3	50	94	8
P87391-24-24(H127)	1.1/2"	40	24	109.4	60.3	50	127	8
P87391-32-24	2"	40	24	109.4	71.4	62	94	9.53
P87391-32-32	2"	50	32	131.8	71.4	62	114.3	9.53
P87391-40-32	2.1/2"	50	32	131.8	84.1	74.4	114.3	9.53

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P87392-xx-xx.

SAE FLANGE 6000PSI ISO 12151-3 - SAE J516

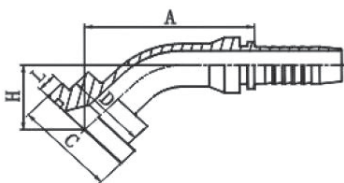


P87611

PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	D	L
P87611-08-08	1/2"	12	08	47	31.7	24	7.75
P87611-12-10	3/4"	16	10	51	41.3	32	8.76
P87611-12-12	3/4"	20	12	51	41.3	32	8.76
P87611-16-12	1"	20	12	56	47.6	38	9.53
P87611-16-16	1"	25	16	57	47.6	38	9.53
P87611-16-20	1"	32	20	61	47.6	38	9.53
P87611-20-16	1.1/4"	25	16	65	54	44	10.29
P87611-20-20	1.1/4"	32	20	66	54	44	10.29
P87611-24-20	1.1/2"	32	20	75	63.5	51	12.57
P87611-24-24	1.1/2"	40	24	75	63.5	51	12.57
P87611-32-24	2"	40	24	85	79.4	67	12.57
P87611-32-32	2"	50	32	85	79.4	67	12.57

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P87612-xx-xx.

45° SAE FLANGE 6000PSI ISO 12151-3 - SAE J516

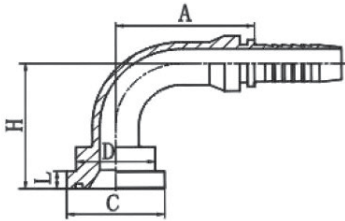


P87641

PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	D	H	L
P87641-08-08	1/2"	12	08	58.9	31.7	24	24	7.75
P87641-08-12	3/4"	20	12	74.9	31.7	24	27.5	7.75
P87641-12-10	3/4"	16	10	72.5	41.3	32	28.2	8.76
P87641-12-12	3/4"	20	12	79.2	41.3	32	31.8	8.76
P87641-16-16	1"	25	16	90.2	47.6	38	34.7	9.53
P87641-20-20	1.1/4"	32	20	103.8	54	44	41.5	10.29
P87641-24-20	1.1/2"	32	20	105.8	63.5	51	45.1	12.57
P87641-24-24	1.1/2"	40	24	116.2	63.5	51	45.5	12.57
P87641-32-24	2"	40	24	125.4	79.4	67	54.7	12.57
P87641-32-32	2"	50	32	135.7	79.4	67	52.7	12.57

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P87642-xx-xx.

90° SAE FLANGE 6000PSI ISO 12151-3 - SAE J516

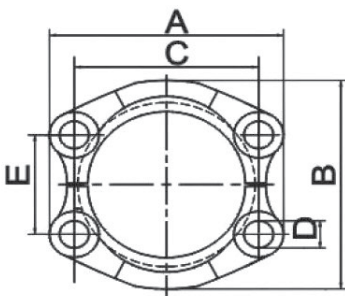


P87691

PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS				
		DN	DASH	A	B	D	H	L
P87691-08-08	1/2"	12	08	41	31.7	24	48	7.75
P87691-12-10	3/4"	16	10	56.5	41.3	32	56.5	8.76
P87691-12-12	3/4"	20	12	66.2	41.3	32	66	8.76
P87691-16-12	1"	20	12	66.2	47.6	38	69	9.53
P87691-16-16	1"	25	16	78	47.6	38	74.5	9.53
P87691-16-20	1"	32	20	91.5	47.6	38	85.5	9.53
P87691-20-16	1.1/4"	25	16	78	54	44	78.5	10.29
P87691-20-20	1.1/4"	32	20	91.5	54	44	89.5	10.29
P87691-24-20	1.1/2"	32	20	91.5	63.5	51	94.5	12.57
P87691-24-24	1.1/2"	40	24	109.4	63.5	51	108	12.57
P87691-32-24	2"	40	24	109.4	79.4	67	116	12.57
P87691-32-32	2"	50	32	131.8	79.4	67	136.3	12.57

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P87692-xx-xx.

SAE SPLIT FLANGE CLAMP 3000 PSI ISO 6162 - SAE J518

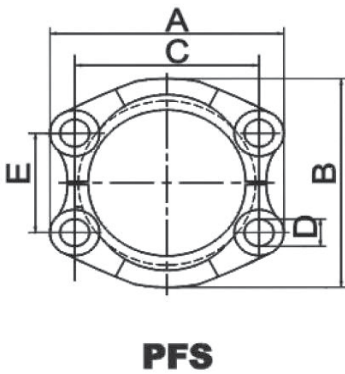


PFL

PART NO.	FLANGE SIZE	DIMENSIONS					BOLT	MPa
		A	B	C	D	E		
PFL-08	1/2"	53.8	46.1	38.1	9	17.5	M8X25	34.5
PFL-12	3/4"	65	52.4	47.6	11	22.2	M10X30	
PFL-16	1"	69.9	58.7	52.4	11	26.2	M10X30	
PFL-20	1.1/4"	79.2	73	58.7	11	30.2	M10X30	27.6
PFL-24	1.1/2"	93.7	82.6	69.9	13.5	35.7	M12X35	20.7
PFL-32	2"	101.6	96.8	77.8	13.5	42.9	M12X35	
PFL-40	2.1/2"	114	109	88.9	13.5	50.8	M12X40	10

Note: Bolts should be ordered separately.

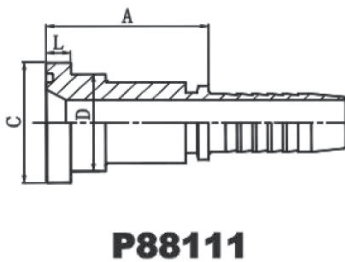
SAE SPLIT FLANGE CLAMPS 6000PSI ISO 6162 - SAE J518



PART NO.	FLANGE SIZE	DIMENSIONS					BOLT	MPa
		A	B	C	D	E		
PFL-08	1/2"	56.3	49.2	40.5	9	18.2	M8X30	42
PFL-12	3/4"	71.4	61.8	50.8	11	23.8	M10X35	
PFL-16	1"	81	71.4	57.2	13	27.8	M12X45	
PFL-20	1.1/4"	95.3	79.2	66.7	15	31.8	M14X50	
PFL-24	1.1/2"	112.8	96.8	79.4	17	36.6	M16X55	
PFL-32	2"	133.4	115.6	96.8	21	44.4	M20X70	

Note: Bolts should be ordered separately.

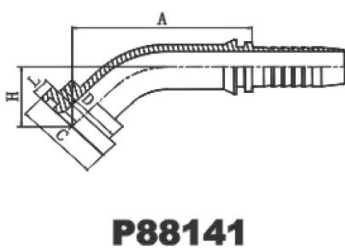
JIS FLANGE



PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	D	L
P88111-10-08	5/8"	12	08	45	34.2	27.8	6.7
P88111-10-10	5/8"	16	10	46	34.2	27.8	6.7
P88111-10-12	5/8"	20	12	46	34.2	27.8	6.7

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P88112-xx-xx.

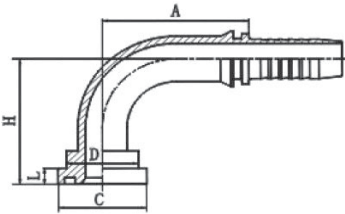
45° JIS FLANGE



PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	D	H	L
P88141-10-08	5/8"	12	08	58.9	34.2	27.8	24	6.7
P88141-10-10	5/8"	16	10	70.1	34.2	27.8	25.3	6.7
P88141-10-12	5/8"	20	12	76.2	34.2	27.8	28.8	6.7

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P88142-xx-xx.

90° JIS FLANGE

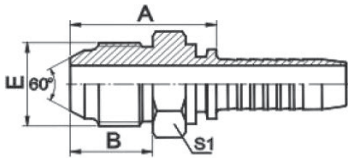


P88191

PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS				
		DN	DASH	A	B	D	H	L
P88191-10-08	5/8"	12	08	41	34.2	27.8	48	6.7
P88191-10-10	5/8"	16	10	56.5	34.2	27.8	52.5	6.7
P88181-10-12	5/8"	20	12	65.5	34.2	27.8	62	6.7

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P88192-xx-xx.

JIS METRIC MALE 60° CONE SEAT

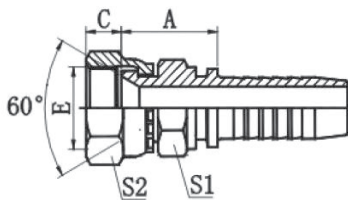


P18611

PART NO.	THREAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	B	S1
P18611-14-04	M14X1.5	6	04	29.5	17	17
P18611-14-06	M14X1.5	10	06	29.5	17	17
P18611-16-04	M16X1.5	6	04	30.5	18	17
P18611-16-06	M16X1.5	10	06	30.5	18	17
P18611-18-06	M18X1.5	10	06	30.5	18	19
P18611-20-08	M20X1.5	12	08	35	20	22
P18611-22-08	M22X1.5	12	08	35	20	24
P18611-24-10	M24X1.5	16	10	39.5	21.5	27
P18611-30-12	M30X1.5	20	12	45	26	32
P18611-33-16	M33X1.5	25	16	50.5	30	36
P18611-36-20	M36X1.5	32	20	55	33	38
P18611-42-24	M42X1.5	40	24	60	36	46

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P18612-xx-xx.

JIS METRIC FEMALE 60° CONE SEAT

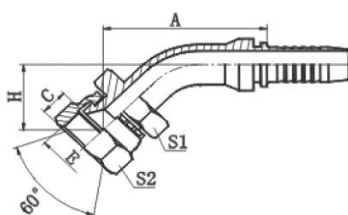


P28611

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	S1	S2
P28611-12-04	M12X1.5	6	04	20	9	17	17
P28611-14-04	M14X1.5	6	04	21	10.5	19	19
P28611-14-06	M14X1.5	10	06	21	10.5	19	19
P28611-16-04	M16X1.5	6	04	24	10	22	22
P28611-16-05	M16X1.5	8	05	24	10	22	22
P28611-16-06	M16X1.5	10	06	24	10	22	22
P28611-18-06	M18X1.5	10	06	25	11.5	24	24
P28611-18-08	M18X1.5	12	08	24.5	11.5	24	24
P28611-20-08	M20X1.5	12	08	28.5	12	27	27
P28611-22-08	M22X1.5	12	08	25.5	14	27	27
P28611-24-08	M24X1.5	12	08	27.5	15	32	32
P28611-24-10	M24X1.5	16	10	28.5	15	32	32
P28611-27-10	M27X1.5	16	10	28.5	10	32	32
P28611-30-12	M30X1.5	20	12	28.5	18.3	36	36
P28611-33-12	M33X1.5	20	12	31	21.3	41	41
P28611-33-16	M33X1.5	25	16	32	21.3	41	41
P28611-36-20	M36X1.5	32	20	35.5	20	46	46
P28611-42-24W	M42X1.5	40	24	36	18.8	55	55

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P28612-xx-xx.

45° METRIC FEMALE 60° CONE SEAT

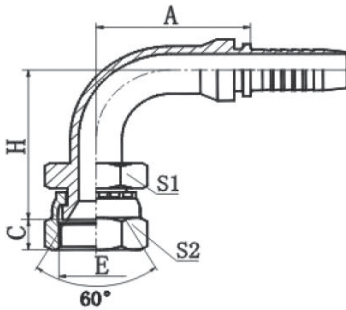


P28641

PART NO.	THREAD E	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	H	S1	S2
P28641-14-04	M14X1.5	6	04	43.4	10.5	21.3	19	19
P28641-16-05	M16X1.5	8	05	47.6	10	24.3	22	22
P28641-18-06	M18X1.5	10	06	49.2	11.5	24.9	24	24
P28641-22-08	M22X1.5	12	08	62.1	14	27.2	27	27
P28641-24-10	M24X1.5	16	10	74.7	15	29.9	32	32
P28641-30-12	M30X1.5	20	12	80.9	18.3	33.5	36	36
P28641-33-16	M33X1.5	25	16	89.9	21.3	35.7	41	41
P28641-36-20	M36X1.5	32	20	104.1	20	41.9	46	46
P28641-42-24W	M42X1.5	40	24	116.2	18.8	45.5	50	55

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P28642-xx-xx.

90° JIS METRIC FEMALE 60° CONE SEAT

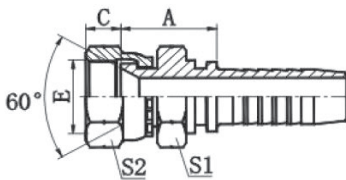


P28691

PART NO.	THREAD E	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	H	S1	S2
P28691-14-04	M14X1.5	6	04	30	10.5	38	19	19
P28691-14-06	M14X1.5	10	06	35.5	10.5	43.3	19	19
P28691-16-05	M16X1.5	8	05	33	10	44	22	22
P28691-18-06	M18X1.5	10	06	35.3	11.5	46.3	24	24
P28691-22-08	M22X1.5	12	08	41	14	52.5	27	27
P28691-24-10	M24X1.5	16	10	56.5	15	59	32	32
P28691-30-12	M30X1.5	20	12	65.5	18.3	68.5	36	36
P28691-33-16	M33X1.5	25	16	76.7	21.3	76	41	41
P28691-36-20	M36X1.5	32	20	93	20	90	46	46
P28691-42-24W	M42X1.5	40	24	109.4	18.8	103	55	55

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P28692-xx-xx_o.

JIS GAS FEMALE 60° CONE SEAT JIS B8363

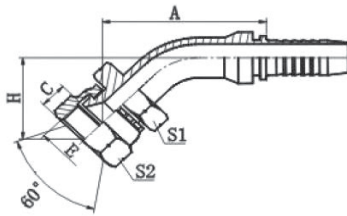


P29611

PART NO.	THREAD E	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	S1	S2
P29611-02-03	G 1/8"X28	5	03	20	7	14	14
P29611-04-04	G 1/4"X19	6	04	21	8	19	19
P29611-04-05	G 1/4"X19	8	05	21	8	19	19
P29611-06-04	G 3/8"X19	6	04	24	9	22	22
P29611-06-06	G 3/8"X19	10	06	23	9	22	22
P29611-08-06	G 1/2"X14	10	06	28	12	27	27
P29611-08-08	G 1/2"X14	12	08	26.5	12	27	27
P29611-10-10	G 5/8"X14	16	10	31	11.5	30	30
P29611-12-10	G 3/4"X14	16	10	28.5	13.5	32	32
P29611-12-12	G 3/4"X14	20	12	28.5	13.5	32	32
P29611-16-16	G 1"X11	25	16	32	16	41	41
P29611-20-20W	G 1.1/4"X11	32	20	43	18.5	50	50
P29611-24-24W	G 1.1/2"X11	40	24	43.5	19	55	55
P29611-32-32W	G 2"X11	50	32	46.5	23	70	70

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P29612-xx-xx_o.

45° JIS GAS FEMALE 60° CONE SEAT JIS B8363

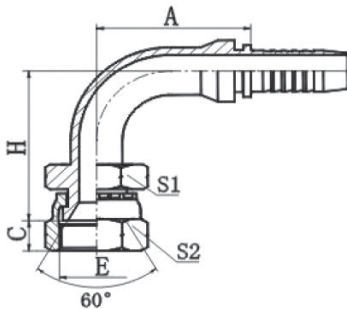


P29641

PART NO.	THREAD E	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	H	S1	S2
P29641-04-04	G 1/4"X19	6	04	43.4	8	21.3	19	19
P29641-06-06	G 3/8"X19	10	06	48.9	9	24.6	22	22
P29641-08-08	G 1/2"X14	12	08	62.5	12	27.5	27	27
P29641-12-12	G 3/4"X14	20	12	81.3	13.5	33.9	32	32
P29641-16-16	G 1"X11	25	16	87.3	16	36	41	41
P29641-20-20W	G 1.1/4"X11	32	20	107.3	18.5	46.5	50	50
P29641-24-24W	G 1.1/2"X11	40	24	122.8	19	50.8	55	55
P29641-32-32W	G 2"X11	50	32	143	23	60	70	70

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P29642-xx-xx.

90° JIS GAS FEMALE 60° CONE SEAT JIS B8363

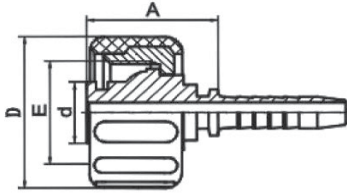


P29691

PART NO.	THREAD E	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	H	S1	S2
P29691-04-04	G 1/4"X19	6	04	30	8	38	19	19
P29691-04-05	G 1/4"X19	8	05	33	8	41	19	19
P29691-06-06	G 3/8"X19	10	06	35.3	9	45.8	22	22
P29691-08-08	G 1/2"X14	12	08	41	12	53	27	27
P29691-10-10	G 5/8"X14	16	10	56.5	11.5	61	30	30
P29691-12-12	G 3/4"X14	20	12	65.5	13.5	69	32	32
P29691-16-16	G 1"X11	25	16	76.7	16	76.5	41	41
P29691-20-20W	G 1.1/4"X11	32	20	91.5	18.5	92.5	50	50
P29691-24-24W	G 1.1/2"X11	40	24	109.4	19	110.5	55	55
P29691-32-32W	G 2"X11	50	32	131.8	23	133.8	70	70

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P29692-xx-xx.

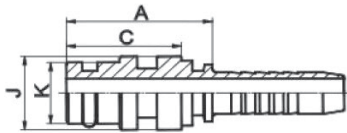
METRIC FEMALE WATERWASH INSERTS



P20011-T

PART NO.	THREAD E	HOSE BORE		O RING	DIMENSIONS		
		DN	DASH		A	d	D
P20011-22-04T	M22X1.5	6	04	O 10.0X2.0	25	14	34.5
P20011-22-05T	M22X1.5	8	05	O 10.0X2.0	32.7	14	34.5
P20011-22-06T	M22X1.5	10	06	O 10.0X2.0	28	14	34.5

MT STAPLELOCK MALE

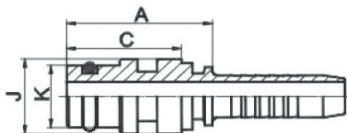


P60011

PART NO.	HOSE BORE		DIMENSIONS			
	DN	DASH	A	C	J	K
P60011-04-04	6	04	31	25	15	11
P60011-05-05	8	05	33.5	26	18	13
P60011-06-06	10	06	33	26	18	15
P60011-08-06	10	06	33.5	26	22	18
P60011-08-08	12	08	34	26	22	18
P60011-10-10	16	10	39	30	25	20
P60011-12-12	20	12	40.5	31	28	24
P60011-16-14	22	14	41	31	35	30
P60011-16-16	25	16	42	31	35	30

Note:1.For use with braided hoses. 2.If use with spiral hoses,hose fitting series number is P60012-xx-xx.

SAE STAPLELOCK MALE SAE J 1467

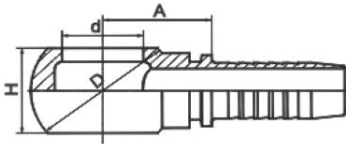


P67011

PART NO.	HOSE BORE		O RING	DIMENSIONS			
	DN	DASH		A	C	J	K
P67011-04-04	6	04	O 0.60X2.0	34	28	14.9	9.9
P67011-06-06	10	06	O 10.0X2.0	35	28	19.9	13.9
P67011-08-08	12	08	O 13.0X2.5	36	28	23.9	17.9
P67011-12-12	20	12	O 19.0X2.5	37.5	28	28.9	23.9
P67011-16-16	25	16	O 25.0X2.5	44	33	38.8	30.9
P67011-20-20	32	20	O 33.0X2.5	44	33	45.9	37.9
P67011-24-24	40	24	O 40.0X3.0	47.5	36.3	54.9	46.9
P67011-32-32	50	32	O 50.0X3.0	47.5	36.3	63.9	55.9

Note:1.For use with braided hoses. 2.If use with spiral hoses,hose fitting series number is P67012-xx-xx.

METRIC BANJO BOLT DIN 7642

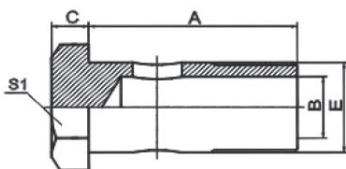


P70011

PART NO.	BOLT	HOSE BORE		DIMENSIONS			
		DN	DASH	A	d	D	H
P70011-10-03	M10X1	5	03	14.5	10.1	17	10
P70011-10-04	M10X1	6	04	17	10.1	17	10
P70011-12-04	M12X1.5	6	04	20.5	12.1	20	12
P70011-12-05	M12X1.5	8	05	20.5	12.1	20	12
P70011-12-06	M12X1.5	10	06	20.5	12.1	20	12
P70011-14-04	M14X1.5	6	04	21	14.1	24	14
P70011-14-05	M14X1.5	8	05	21	14.1	24	14
P70011-14-06	M14X1.5	10	06	21	14.1	24	14
P70011-16-04	M16X1.5	6	04	20.5	16.1	28	16
P70011-16-05	M16X1.5	8	05	20.5	16.1	28	16
P70011-16-06	M16X1.5	10	06	20.5	16.1	28	16
P70011-18-04	M18X1.5	6	04	23	18.1	32	20
P70011-18-05	M18X1.5	8	05	24	18.1	32	20
P70011-18-06	M18X1.5	10	06	24	18.1	32	20
P70011-18-08	M18X1.5	12	08	24.5	18.1	32	20
P70011-22-06	M22X1.5	10	06	28.1	22.1	39	25
P70011-22-08	M22X1.5	12	08	28.5	22.1	39	25
P70011-22-10	M22X1.5	16	10	28	22.1	39	25
P70011-26-12	M26X1.5	20	12	32.5	26.1	46	30
P70011-30-16	M30X1.5	25	16	37	30.1	54	36
P70011-30-20	M30X1.5	32	20	40	30.1	54	36

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P70012-xx-xx.

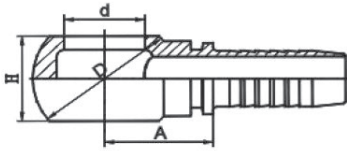
METRIC BOLT DIN 7643



P700M

PART NO.	THREADE	DIMENSIONS			
		A	B	C	S1
P700M-10	M10X1	19	5.5	6	14
P700M-12	M12X1.5	24	7	6	17
P700M-14	M14X1.5	26	9	6	19
P700M-16	M16X1.5	28	11	6	22
P700M-18	M18X1.5	32	13	6	24
P700M-22	M22X1.5	39	16	7	27
P700M-26	M26X1.5	45	20	7	32
P700M-30	M30X1.5	51	24	7	36

BSP BANJO

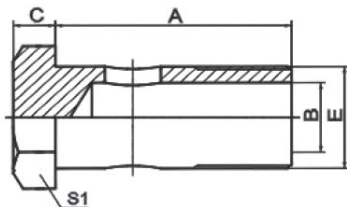


P72011

PART NO.	BOLT	HOSE BORE		DIMENSIONS			
		DN	DASH	A	d	D	H
P72011-02-03	G 1/8"X28	5	03	18	9.9	22	16
P72011-02-04	G 1/8"X28	6	04	18.5	9.9	22	16
P72011-04-03	G 1/4"X19	5	03	19	13.3	24	15
P72011-04-04	G 1/4"X19	6	04	19.5	13.3	24	15
P72011-04-05	G 1/4"X19	8	05	19.5	13.3	24	15
P72011-04-06	G 1/4"X19	10	06	19.5	13.3	24	15
P72011-06-04	G 3/8"X19	6	04	22	16.7	29	20
P72011-06-05	G 3/8"X19	8	05	22	16.7	29	20
P72011-06-06	G 3/8"X19	10	06	22	16.7	29	20
P72011-06-08	G 3/8"X19	12	08	23	16.7	29	20
P72011-08-05	G 1/2"X14	8	05	27.5	21	38	25
P72011-08-06	G 1/2"X14	10	06	27.5	21	38	25
P72011-08-08	G 1/2"X14	12	08	28	21	38	25
P72011-08-10	G 1/2"X14	16	10	29	21	38	25
P72011-10-10	G 5/8"X14	16	10	28	23	40	27
P72011-12-10	G 3/4"X14	16	10	32	26.5	48	31
P72011-12-12	G 3/4"X14	20	12	32	26.5	48	31
P72011-16-08	G 1"X11	12	08	40	33.3	60	42
P72011-16-12	G 1"X11	20	12	40	33.3	60	42
P72011-16-16	G 1"X11	25	16	41	33.3	60	42

Note: 1. For use with braided hoses. 2. If use with spiral hoses, hose fitting series number is P72012-xx-xx.

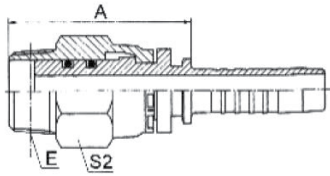
BSP BANJO BOLT



P720B

PART NO.	THREAD E	DIMENSIONS			
		A	B	C	S1
P720B-02	G 1/8"X28	29.5	4.8	4.8	14
P720B-04	G 1/4"X19	28.5	6	6	19
P720B-06	G 3/8"X19	38.5	9	7	22
P720B-08	G 1/2"X14	44	13	8.5	27
P720B-10	G 5/8"X14	48.5	15	10	30
P720B-12	G 3/4"X14	56	18	10	32
P720B-16	G 1"X11	68.5	22	13	41

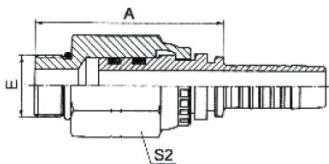
NPT SWIVEL MALE



P15611SW

PART NO.	THREAD E	HOSE BORE		DIMENSIONS	
		DN	DASH	A	S2
P15611SW-04-04	Z1/4"X18	6	04	56	19
P15611SW-06-06	Z3/8"X18	10	06	60	22
P15611SW-08-08	Z1/2"X14	12	08	66	27
P15611SW-12-12	Z3/4"X14	20	12	68.4	32

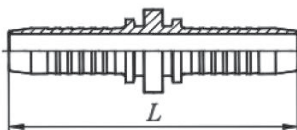
SAE O-RING BOSS SWIVEL MALE



P16011SW

PART NO.	THERAD E	HOSE BORE		O RING	DIMENSIONS	
		DN	DASH		A	S2
P16011SW-08-06	3/4"X16	10	06	O908	57.5	27
P16011SW-08-08	3/4"X16	12	08	O908	58	27
P16011SW-10-08	7/8"X14	12	08	O910	59.5	27
P16011SW-10-10	7/8"X14	16	10	O910	60.1	27
P16011SW-12-12	1.1/16"X12	20	12	O912	64.9	32

DOUBLE CONNECTOR

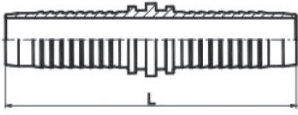


P90011

PART NO.	HOSE BORE		DIMENSIONS
	DN	DASH	L
P90011-04	6	04	69
P90011-05	8	05	69
P90011-06	10	06	73
P90011-08	12	08	77
P90011-10	16	10	83
P90011-12	20	12	93
P90011-16	25	16	114
P90011-20	32	20	132
P90011-24	40	24	162
P90011-32	50	32	170

Note: For wire braid hose.

DOUBLE CONNECTOR

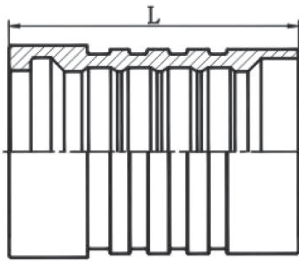


P90012

PART NO.	HOSE BORE		DIMENSIONS
	DN	DASH	L
P90012-04	6	04	83
P90012-05	8	05	87
P90012-06	10	06	87
P90012-08	12	08	91
P90012-10	16	10	97
P90012-12	20	12	110
P90012-16	25	16	134
P90012-20	32	20	153
P90012-24	40	24	172
P90012-32	50	32	178

Note: For wire braid hose.

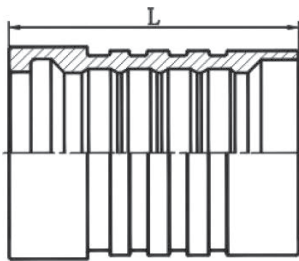
INTERLOCK FERRULE FOR R13 HOSE



P00621

PART NO.	HOSE BORE		DIMENSIONS
	DN	DASH	L
P00621-12	20	12	53
P00621-16	25	16	66
P00621-20	32	20	88.5
P00621-24	40	24	102
P00621-32	50	32	108

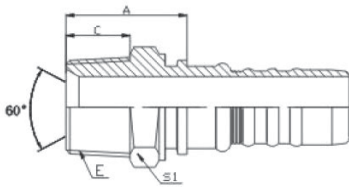
INTERLOCK FERRULE FOR R15 HOSE



P00621-R15

PART NO.	HOSE BORE		DIMENSIONS
	DN	DASH	L
P00621-06(R15)	10	06	40
P00621-08(R15)	12	08	42
P00621-12(R15)	20	12	53
P00621-16(R15)	25	16	66
P00621-20(R15)	32	20	88.5
P00621-24(R15)	40	24	102

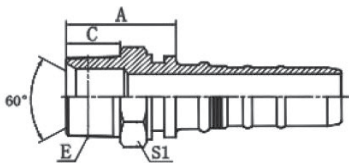
BSPT MALE



P13013-SP

PART NO.	THERADE	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P13013-12-12SP	R3/4"X14	20	12	38	20	30
P13013-16-16SP	R1"X11	25	16	45.9	25.5	38
P13013-20-20SP	R1.1/4"X11	32	20	51.3	26.5	46
P13013-24-24SP	R1.1/2"X11	40	24	53.2	26.5	50
P13013-32-32SP	R2"X11	50	32	58.5	30	65

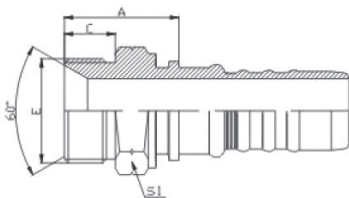
NPT MALE



P15613

PART NO.	THERADE	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P15613-12-12	Z3/4"X14	20	12	37.5	19.5	30
P15613-16-16	Z1"X11.5	25	16	45.9	25.5	38
P15613-20-20	Z1.1/4"X11.5	32	20	51.3	26.5	46
P15613-24-24	Z1.1/2"X11.5	40	24	54.2	27.5	50
P15613-32-32	Z2"X11.5	50	32	56.5	27.5	65

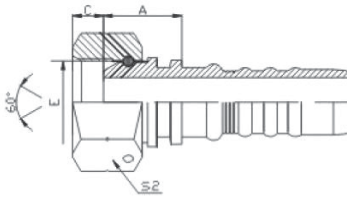
BSP MALE 60° CONE SEAT



P12613

PART NO.	THERADE	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P12613-12-12	G3/4"X14	20	12	37.5	18.5	30
P12613-16-16	G1"X11	25	16	41	20.5	36
P12613-20-20	G1.1/4"X11	32	20	45.3	20.5	46
P12613-24-24	G1.1/2"X11	40	24	49.7	23	50
P12613-32-32	G2"X11	50	32	52	25.5	60

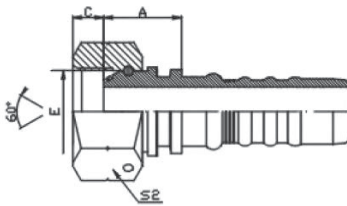
BSP FEMALE 60° CONE



P22613-W

PART NO.	THERAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P22613-12-12W	G3/4"X14	20	12	26.5	10.9	32
P22613-16-16W	G1"X11	25	16	30.4	11.7	41
P22613-20-20W	G1.1/4"X11	32	20	35.8	11	50
P22613-24-24W	G1.1/2"X11	40	24	36.7	14	55
P22613-32-32W	G2"X11	50	32	36.5	16	70

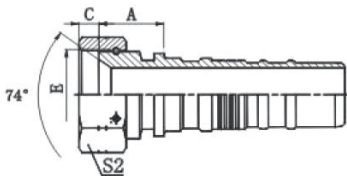
BSP FEMALE 60° CONE O-RING REF. BS 5200



P22613-ORW

PART NO.	THERAD E	HOSE BORE		O RING	DIMENSIONS		
		DN	DASH		A	C	S2
P22613-12-12ORW	G3/4"X14	20	12	O171	26.5	10.9	32
P22613-16-16ORW	G1"X11	25	16	O221	30.4	11.7	41
P22613-20-20ORW	G1.1/4"X11	32	20	O291	35.8	11	50
P22613-24-24ORW	G1.1/2"X11	40	24	O351	36.7	14	55

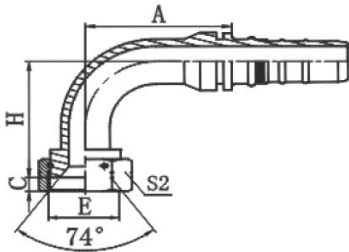
JIC FEMALE 74° CONE SEAT SAE J514



P26713-W

PART NO.	THERAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P26713-12-12W	1.1/16"X12	20	12	26.5	15	32
P26713-16-16W	1.5/16"X12	25	16	29.4	16	41
P26713-20-20W	1.5/8"X12	32	20	32.3	17	50
P26713-24-24W	1.7/8"X12	40	24	35.2	20	60
P26713-32-32W	2.1/2"X12	50	32	34.5	23.5	75

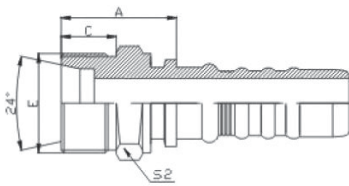
90° JIC FEMALE 74° CONE SEAT SAE J514



P26793-W

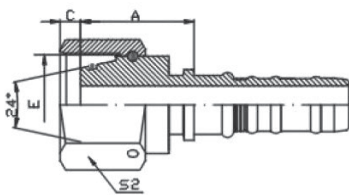
PART NO.	THERADE	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	H	S2
P26793-12-12W	1.1/16"X12	20	12	73.8	15	64.5	32
P26793-16-16W	1.5/16"X12	25	16	88.9	16	72.5	41
P26793-20-20W	1.5/8"X12	32	20	105.8	17	81.5	50
P26793-24-24W	1.7/8"X12	40	24	124.2	20	101	55
P26793-32-32W	2.1/2"X12	50	32	150.3	23.5	121.3	75

METRIC MALE 24° CONE SEAT H.T. ISO 8434-1 - DIN 3861



P10513

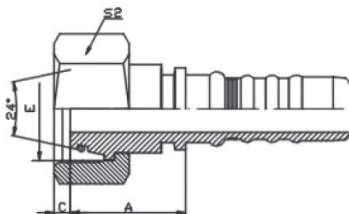
PART NO.	THERADE	HOSE BORE		TUBE O.D.	DIMENSIONS		
		DN	DASH		A	C	S2
P10513-36-12	M36X2	20	12	25	43.5	20	38
P10513-42-16	M42X2	25	16	30	46.4	20	46
P10513-52-20	M52X2	32	20	38	52.8	22	55



P20513-W

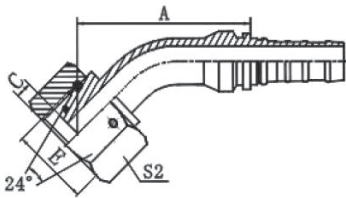
METRIC MALE 24° CONE SEAT H.T. ISO 12151-1 - DIN 3865

PART NO.	THERADE	HOSE BORE		TUBE O.D.	O RING	DIMENSIONS		
		DN	DASH			A	C	S2
P20513-30-12W	M30X2	20	12	20	O16.3X2.4	30	3	36
P20513-36-12T	M36X2	20	12	25	O20.3X2.4	38.5	3	41
P20513-36-16W	M36X2	25	16	25	O20.3X2.4	31.9	3	41
P20513-42-12T	M42X2	20	12	30	O25.3X2.4	42	5	50
P20513-42-16W	M42X2	25	16	30	O25.3X2.4	33.4	5	50
P20513-42-20W	M42X2	32	20	30	O25.3X2.4	38.8	5	50
P20513-52-20T	M52X2	32	20	38	O33.3X2.4	45.3	6.5	60
P20513-52-24W	M52X2	40	24	38	O33.3X2.4	38.2	6.5	60

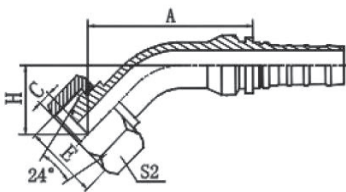


P20513-T

45° METRIC MALE 24° CONE SEAT H.T. ISO 12151-2 - DIN 3865



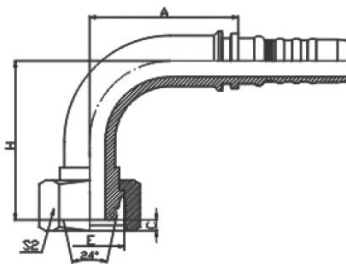
P20543-W



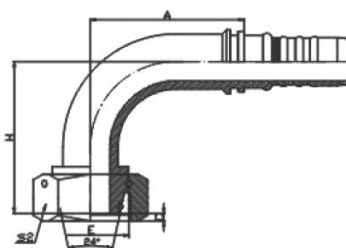
P20543-T

PART NO.	THE RADE	HOSE BORE		TUBE O.D.	O RING	尺寸 DIMENSIONS			
		DN	DASH			A	C	H	S2
P20543-36-12T	M36X2	20	12	25	O20.3X2.4	89.4	3	33	41
P20543-42-12W	M42X2	25	16	30	O25.3X2.4	102.3	5	35.9	50
P20543-52-16T	M52X2	32	20	38	O33.3X2.4	114.5	6.5	39.4	60

90° METRIC MALE 24° CONE SEAT H.T. ISO 12151-2 - DIN 3865



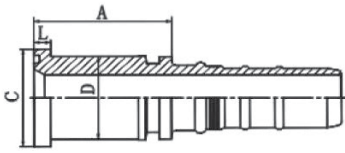
P20593-T



P20593-W

PART NO.	THE RADE	HOSE BORE		TUBE O.D.	O RING	DIMENSIONS			
		DN	DASH			A	C	H	S2
P20593-36-12T	M36X2	20	12	25	O20.3X2.4	74.5	3.2	67.8	46
P20593-36-16W	M36X2	25	16	25	O20.3X2.4	88.9	3.2	79.5	46
P20593-42-16W	M42X2	25	16	30	O25.3X2.4	88.9	5	80.5	50
P20593-42-20W	M42X2	32	20	30	O25.3X2.4	105.8	5	91.5	50
P20593-52-20T	M52X2	32	20	38	O33.3X2.4	105.8	6.5	86.5	60
P20593-52-24W	M52X2	40	24	38	O33.3X2.4	124.2	6.5	104.5	60

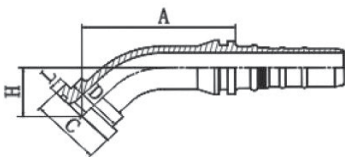
SAE FLANGE 3000 PSI ISO 1211-3 - SAE J516



P87313

PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	D	L
P87313-12-12	3/4"	20	12	50	38.1	31.7	6.73
P87313-16-12	1"	20	12	54	44.4	38	8
P87313-16-16	1"	25	16	54.4	44.4	38	8
P87313-20-16	1.1/4"	25	16	59.4	50.8	43	8
P87313-20-20	1.1/4"	32	20	65.8	50.8	43	8
P87313-24-20	1.1/2"	32	20	71.8	60.3	50	8
P87313-24-24	1.1/2"	40	24	72.2	60.3	50	8
P87313-32-24	2"	40	24	74.2	71.4	62	9.53
P87313-32-32	2"	50	32	78.5	71.4	62	9.53

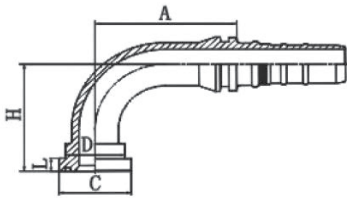
45°SAE FLANGE 3000PSI ISO 12151-3 - SAE J516



P87343

PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	D	H	L
P87343-12-12	3/4"	20	12	85.8	38.1	31.7	28.9	6.73
P87343-16-12	1"	20	12	85.8	44.4	38	28.9	8
P87343-16-16	1"	25	16	96.1	44.4	38	29.7	8
P87343-20-16	1.1/4"	25	16	96.1	50.8	43	29.7	8
P87343-20-20	1.1/4"	32	20	108.8	50.8	43	33.8	8
P87343-24-20	1.1/2"	32	20	110.2	60.3	50	35.2	8
P87343-24-24	1.1/2"	40	24	123.7	60.3	50	39.1	8
P87343-32-24	2"	40	24	123.7	71.4	62	39.1	9.53
P87343-32-32	2"	50	32	148.3	71.4	62	46.3	9.53

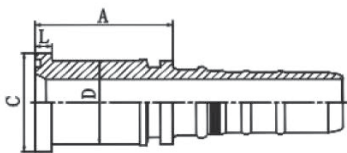
90°SAE FLANGE 3000 PSI ISO 12151-3 - SAE J516



P87393

PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	D	H	L
P87393-12-12	3/4"	20	12	75	38.1	31.7	62	6.73
P87393-16-12	1"	20	12	75	44.4	38	62	8
P87393-16-16	1"	25	16	88.9	44.4	38	67.5	8
P87393-20-16	1.1/4"	25	16	88.9	50.8	43	67.5	8
P87393-20-20	1.1/4"	32	20	105.8	50.8	43	78.5	8
P87393-24-20	1.1/2"	32	20	105.8	60.3	50	80.5	8
P87393-24-24	1.1/2"	40	24	123.2	60.3	50	94	8
P87393-32-24	2"	40	24	123.2	71.4	62	94	9.53
P87393-32-32	2"	50	32	150.3	71.4	62	114.3	9.53

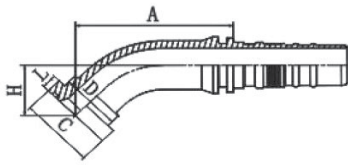
SAE FLANGE 6000 PSI ISO 12151-3 - SAE J516



P87613

PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	D	L
P87613-12-12	3/4"	20	12	53	41.3	32	8.76
P87613-16-12	1"	20	12	58	47.6	38	9.53
P87613-16-16	1"	25	16	59.4	47.6	38	9.53
P87613-20-16	1.1/4"	25	16	67.4	54	44	10.29
P87613-20-20	1.1/4"	32	20	69.8	54	44	10.29
P87613-20-24	1.1/4"	40	24	74.7	54	44	10.29
P87613-24-20	1.1/2"	32	20	78.8	63.5	51	12.57
P87613-24-24	1.1/2"	40	24	78.7	63.5	51	12.57
P87613-32-24	2"	40	24	91.2	79.4	67	12.57
P87613-32-32	2"	50	32	91	79.4	67	12.57

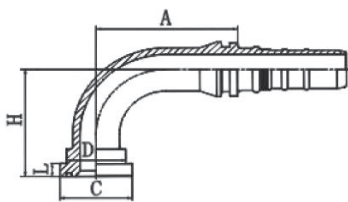
45°SAE FLANGE 6000 PSI ISO 12151-3 - SAE J516



P87643

PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	D	H	L
P87643-12-12	3/4"	20	12	88.7	41.3	32	31.8	8.76
P87643-16-12	1"	20	12	90.8	47.6	38	33.2	9.53
P87643-16-16	1"	25	16	101.1	47.6	38	34.7	9.53
P87643-20-16	1.1/4"	25	16	103.9	54	44	37.5	10.29
P87643-20-20	1.1/4"	32	20	116.6	54	44	41.5	10.29
P87643-24-20	1.1/2"	32	20	120.1	63.5	51	45.1	12.57
P87643-24-24	1.1/2"	40	24	134.6	63.5	51	49	12.57
P87643-32-24	2"	40	24	140.2	79.4	67	54.7	12.57
P87643-32-32	2"	50	32	163.3	79.4	67	61.9	12.57

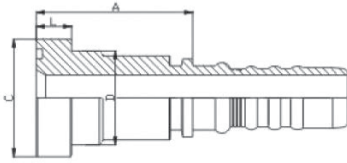
60°SAE FLANGE 6000 PSI ISO 12151-3 - SAE J516



P87693

PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	D	H	L
P87693-12-12	3/4"	20	12	75	41.3	32	66	8.76
P87693-16-12	1"	20	12	75	47.6	38	68	9.53
P87693-16-16	1"	25	16	88.9	47.6	38	73.5	9.53
P87693-20-16	1.1/4"	25	16	88.9	54	44	78.5	10.29
P87693-20-20	1.1/4"	32	20	105.8	54	44	86.5	10.29
P87693-24-20	1.1/2"	32	20	105.8	63.5	51	89.5	12.57
P87693-24-24	1.1/2"	40	24	124.2	63.5	51	103	12.57
P87693-32-24	2"	40	24	124.2	79.4	67	103	12.57
P87693-32-32	2"	50	32	150.3	79.4	67	123.3	12.57

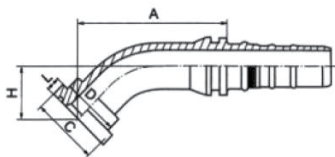
SAE FLANGE 9000 PSI



P87913

PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS			
		DN	DASH	A	C	D	L
P87913-12-12	3/4"	20	12	58.5	41.3	31.7	14.3
P87913-16-12	1"	20	12	63	47.6	38	14.3
P87913-16-16	1"	25	16	64.4	47.6	38	14.3
P87913-20-16	1.1/4"	25	16	66.8	54	43	14.3
P87913-20-20	1.1/4"	32	20	73.8	54	43	14.3
P87913-24-24	1.1/2"	32	20	80.6	63.5	50.8	14.3
P87913-24-20	1.1/2"	40	24	80.7	63.5	50.8	14.3

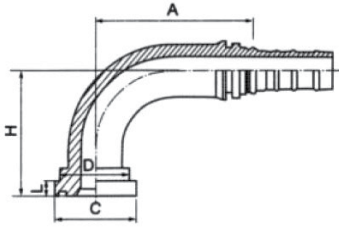
45°SAE FLANGE 9000 PSI



P87943

PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	D	H	L
P87943-12-12	3/4"	20	12	92.6	41.3	31.7	35.6	14.3
P87943-16-12	1"	20	12	93.7	47.6	38	36.7	14.3
P87943-16-16	1"	25	16	103.9	47.6	38	37.5	14.3
P87943-20-16	1.1/4"	25	16	104.6	54	43	38.2	14.3
P87943-20-20	1.1/4"	32	20	117.3	54	43	42.3	14.3
P87943-24-20	1.1/2"	32	20	118	63.5	50.8	43	14.3
P87943-24-24	1.1/2"	40	24	132.5	63.5	50.8	46.9	14.3

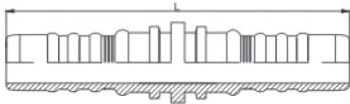
90°SAE FLANGE 9000 PSI



P87993

PART NO.	FLANGE SIZE	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	D	H	L
P87993-12-12	3/4"	20	12	75	41.3	31.7	71.5	14.3
P87993-16-12	1"	20	12	75	47.6	38	73	14.3
P87993-16-16	1"	25	16	88.9	47.6	38	78.5	14.3
P87993-20-16	1.1/4"	25	16	88.9	54	43	79.5	14.3
P87993-20-20	1.1/4"	32	20	105.8	54	43	90.5	14.3
P87993-24-20	1.1/2"	32	20	105.8	63.5	50.8	91.5	14.3
P87993-24-24	1.1/2"	40	24	124.2	63.5	50.8	105	14.3

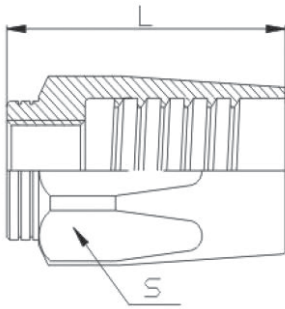
DOUBLE CONNECTOR



P90013

PART NO.	HOSE BORE		DIMENSIONS
	DN	DASH	L
P90013-12	20	12	119
P90013-16	25	16	150
P90013-20	32	20	194
P90013-24	40	24	223
P90013-32	50	32	235

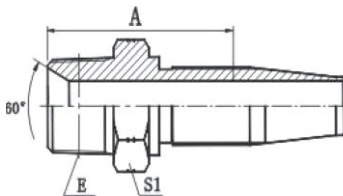
FERRULE FOR SAE 100 R5 HOSE



P00518

PART NO.	HOSE BORE	DIMENSIONS	
	DASH	L	S
P00518-04	04	28	17
P00518-05	05	30.5	19
P00518-06	06	33	22
P00518-08	08	42	24
P00518-10	10	45.5	30
P00518-12	12	53.5	32
P00518-16	16	42	36
P00518-20	20	44.5	46
P00518-24	24	47	50
P00518-32	32	57	65

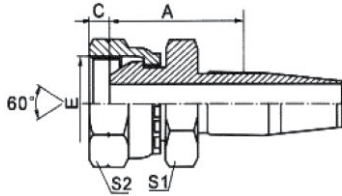
NPT MALE



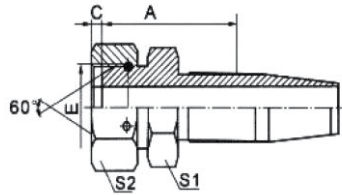
P15618-R5

PART NO.	THERADE	HOSE BORE DASH	DIMENSIONS	
			A	S1
P15618-02-04(R5)	Z1/8"X27	04	25.5	12
P15618-04-04(R5)	Z1/4"X18	04	30	17
P15618-04-06(R5)	Z1/4"X18	06	31	17
P15618-06-05(R5)	Z3/8"X18	05	32.9	19
P15618-06-06(R5)	Z3/8"X18	06	32	19
P15618-08-08(R5)	Z1/2"X14	08	40.5	22
P15618-12-10(R5)	Z3/4"X14	10	42.5	30
P15618-12-12(R5)	Z3/4"X14	12	43	30
P15618-16-16(R5)	Z1"X11.5	16	46.5	36
P15618-20-20(R5)	Z1.1/4"X11.5	20	51.5	46
P15618-24-24(R5)	Z1.1/2"X11.5	24	52.5	50
P15618-32-32(R5)	Z2"X11.5	32	55	65

BSP FEMALE 60° CONE



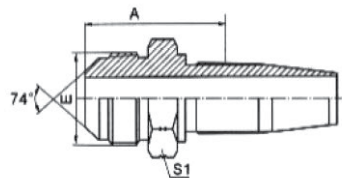
P22618D-R5



P22618D-R5W

PART NO.	THERADE	HOSE BORE DASH	DIMENSIONS			
			A	C	S1	S2
P22618D-04-04(R5)	G 1/4"X19	04	26	5.5	14	19
P22618D-06-05(R5)	G 3/8"X19	05	29.1	6.3	17	22
P22618D-06-06(R5)	G 3/8"X19	06	30	6.3	17	22
P22618D-08-08(R5)	G 1/2"X14	08	35	7.5	19	27
P22618D-10-10(R5)	G 5/8"X14	10	35.5	9.5	22	30
P22618D-12-12(R5)	G 3/4"X14	12	38.5	10.9	27	32
P22618D-16-16(R5)	G 1"X11	16	37	11.7	32	41
P22618D-20-20(R5)W	G 1.1/4"X11	20	41.5	11	41	50

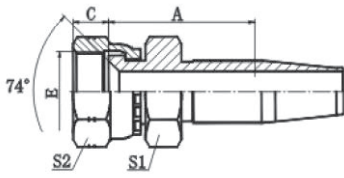
JIC MALE 74° CONE SAE J514



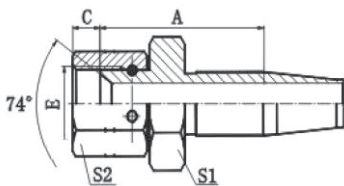
P16718-R5

PART NO.	THERADE	HOSE BORE DASH	DIMENSIONS	
			A	S1
P16718-04-04(R5)	7/16"X20	04	29	12
P16718-06-05(R5)	9/16"X18	05	31	17
P16718-06-06(R5)	9/16"X18	06	32	17
P16718-08-06(R5)	3/4"X16	06	34.7	22
P16718-08-08(R5)	3/4"X16	08	38	22
P16718-10-10(R5)	7/8"X14	10	40.5	24
P16718-12-12(R5)	1.1/16"X12	12	45.5	30
P16718-16-16(R5)	1.5/16"X12	16	44	36
P16718-20-20(R5)	1.5/8"X12	20	49.5	46
P16718-24-24(R5)	1.7/8"X12	24	52.5	50

JIC FEMALE 74° CONE SEAT SAE J514



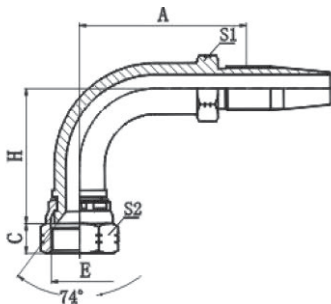
P26718D-R5



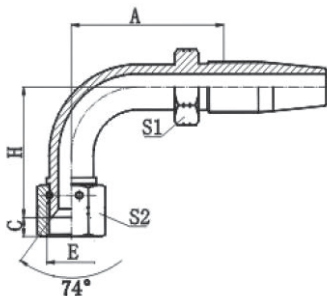
P26718D-R5W

PART NO.	THERAD E	HOSE BORE DASH	DIMENSIONS			
			A	C	S1	S2
P26718D-04-04(R5)	7/16"X20	04	22	9	14	17
P26718D-05-05(R5)	1/2"X20	05	25.4	9.5	14	17
P26718D-06-06(R5)	9/16"X18	06	24.5	10.5	17	19
P26718D-08-08(R5)	3/4"X16	08	31.5	11	22	24
P26718D-10-10(R5)	7/8"X14	10	34	13	27	27
P26718D-12-12(R5)	1.1/16"X12	12	37	15	32	32
P26718D-16-16(R5)	1.5/16"X12	16	33.5	16	38	41
P26718D-20-20(R5)	1.5/8"X12	20	41.5	17	41	50
P26718D-24-24(R5)	1.7/8"X12	24	43	20	46	55
P26718D-32-32(R5)	2.1/2"X12	32	45.5	23.5	65	75

90° JIC FEMALE 74° CONE SEAT SAE J514



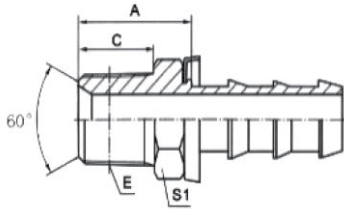
P26798D-R5



P26798D-R5W

PART NO.	THERAD E	HOSE BORE DASH	DIMENSIONS				
			A	C	H	S1	S2
P26798D-04-04(R5)	7/16"X20	04	38.5	9	33.5	14	15
P26798D-05-05(R5)	1/2"X20	05	43.4	9.5	37	14	17
P26798D-06-06(R5)	9/16"X18	06	44.8	10.5	39.3	17	19
P26798D-08-08(R5)	3/4"X16	08	53	11	47.5	19	24
P26798D-10-10(R5)	7/8"X14	10	66.5	13	52.5	24	27
P26798D-12-12(R5)	1.1/16"X12	12	79.5	15	63.5	27	32
P26798D-16-16(R5)	1.5/16"X12	16	86.5	16	70	32	41
P26798D-20-20(R5)	1.5/8"X12	20	100.5	17	85	38	50
P26798D-24-24(R5)	1.7/8"X12	24	121	20	97.5	46	55
P26798D-32-32(R5)	2.1/2"X12	32	143.3	23.5	118.8	60	75

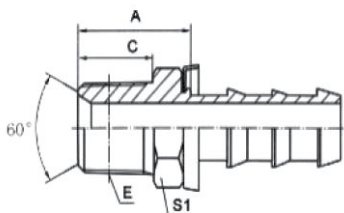
BSPT MALE



P13011-SP(PO)

PART NO.	THERAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P13011-02-04SP(PO)	R1/8"X28	6	04	17.7	10	12
P13011-04-04SP(PO)	R1/4"X19	6	04	20.5	14.5	14
P13011-04-06SP(PO)	R1/4"X19	10	06	22	14.5	17
P13011-06-06SP(PO)	R3/8"X19	10	06	23.5	15	19
P13011-08-08SP(PO)	R1/2"X14	12	08	30.5	20	22
P13011-12-12SP(PO)	R3/4"X14	20	12	29.4	20	27

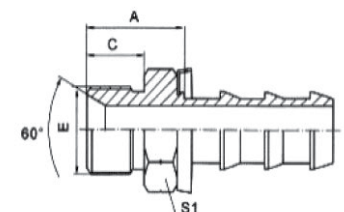
NPT MALE



P15611-PO

PART NO.	THERAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P13011-02-04PO	Z1/8"X27	6	04	18.2	10.5	12
P13011-04-04PO	Z1/4"X18	6	04	22.7	15	14
P13011-04-06PO	Z1/4"X18	10	06	22.5	15	14
P13011-06-06PO	Z3/8"X18	10	06	23.5	16	19
P13011-06-08PO	Z3/8"X18	12	08	23.7	16	19
P13011-08-08PO	Z1/2"X14	12	08	29.2	19.5	22
P13011-08-10PO	Z1/2"X14	16	10	29	19.5	22
P13011-12-12PO	Z3/4"X14	20	12	31.5	19.5	27

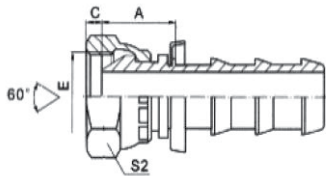
BSP MALE 60° CONE SEAT



P12611-PO

PART NO.	THERAD E	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P12611-04-04PO	G1/4"X19	6	04	20	12	14
P12611-06-06PO	G3/8"X19	10	06	22	13.5	17
P12611-08-08PO	G1/2"X14	12	08	26.5	16	22
P12611-10-10PO	G5/8"X14	16	10	27.5	17.5	24
P12611-12-12PO	G3/4"X14	20	12	29.9	18.5	27

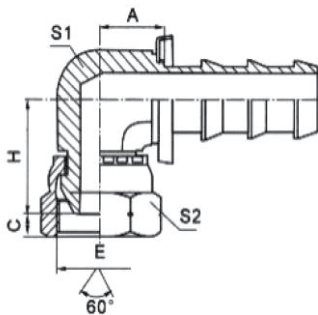
BSP MALE 60° CONE SEAT



P22611-PO

PART NO.	THERADE	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S2
P22611-04-04PO	G1/4"X19	6	04	19.5	5.5	19
P22611-06-06PO	G3/8"X19	10	06	21.5	6.3	22
P22611-08-08PO	G1/2"X14	12	08	24.5	7.5	27
P22611-12-12PO	G3/4"X14	20	12	29	10.9	32

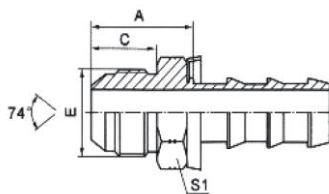
90°BSP COMPACT FEMALE 60° CONE



P22691K-PO

PART NO.	THERADE	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	H	S1	S2
P22691-04-04PO	G1/4"X19	6	04	12	5.5	18.5	11	19
P22691-06-06PO	G3/8"X19	10	06	14	6.3	24	14	22
P22691-08-08PO	G1/2"X14	12	08	17	7.5	26.5	19	27
P22691-12-12PO	G3/4"X14	20	12	21.5	10.9	33	27	32

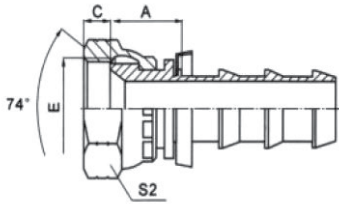
JIC MALE 74° CONE SAE J514



P16711-PO

PART NO.	THERADE	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S1
P16711-04-04PO	7/16"X20	6	04	22	14	12
P16711-06-04PO	9/16"X18	6	04	22	14.1	17
P16711-06-06PO	9/16"X18	10	06	22	14.1	17
P16711-08-06PO	3/4"X16	10	06	27.2	16.7	22
P16711-08-08PO	3/4"X16	12	08	27.2	16.7	22
P16711-10-10PO	7/8"X14	16	10	30	19.3	24
P16711-10-12PO	7/8"X14	20	12	29.4	19.3	24
P16711-12-08PO	1.1/16"X12	12	08	34.5	21.9	27
P16711-12-10PO	1.1/16"X12	16	10	34	21.9	27
P16711-12-12PO	1.1/16"X12	20	12	33.4	21.9	27

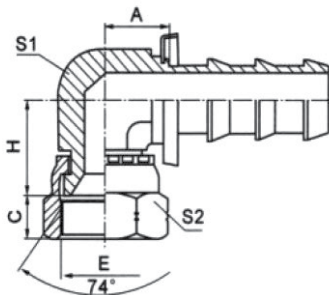
JIC FEMALE 74° CONE SEAT SAE J514



P26711-PO

PART NO.	THERADE	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S2
P26711-04-04PO	7/16"X20	6	04	12.2	9	15
P26711-05-04PO	1/2"X20	6	04	12.2	9.5	17
P26711-06-06PO	9/16"X18	10	06	12.5	10.5	19
P26711-08-06PO	3/4"X16	10	06	12.5	11	24
P26711-08-08PO	3/4"X16	12	08	14.7	11	24
P26711-10-08PO	7/8"X14	12	08	15.2	13	27
P26711-10-10PO	7/8"X14	16	10	15.7	13	27
P26711-12-12PO	1.1/16"X12	20	12	17.4	15	32
P26711-16-16PO	1.5/16"X12	25	16	18.6	16	41

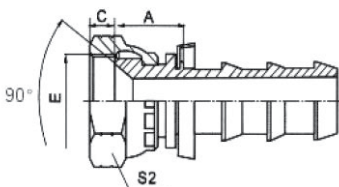
90°JIC FEMALE 74° CONE SEAT SAE J514



P26791K-PO

PART NO.	THERADE	HOSE BORE		DIMENSIONS				
		DN	DASH	A	C	H	S1	S2
P22791-04-04PO	7/16"X20	6	04	11.7	9	18	11	17
P22791-06-04PO	9/16"X18	6	04	14	10.5	20.5	14	19
P22791-06-06PO	9/16"X18	10	06	15.5	10.5	21	16	19
P22791-08-06PO	3/4"X16	10	06	16	11	22.5	16	24
P22791-08-08PO	3/4"X16	12	08	15.7	11	22.5	19	24
P22791-10-10PO	7/8"X14	16	10	18.5	12	27.5	22	27
P22791-12-12PO	1.1/16"X12	20	12	21.5	15	30	27	32

JIC FEMALE 90° CONE SEAT SAE J513

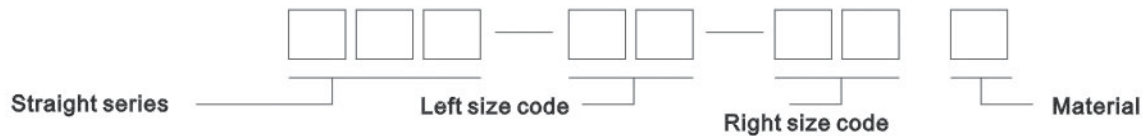


P27811-PO

PART NO.	THERADE	HOSE BORE		DIMENSIONS		
		DN	DASH	A	C	S2
P27811-04-04PO	7/16"X20	6	04	12.2	9	15
P27811-05-04PO	1/2"X20	6	04	13.7	9.5	17
P27811-06-04PO	5/8"X18	6	04	13.7	11.3	22
P27811-06-06PO	5/8"X18	10	06	13.7	11.3	22
P27811-08-06PO	3/4"X16	10	06	14.7	11	24
P27811-08-08PO	3/4"X16	12	08	14.7	11	24
P27811-10-08PO	7/8"X14	12	08	15.2	13	27
P27811-12-12PO	1.1/16"X14	20	12	16.9	14.3	32

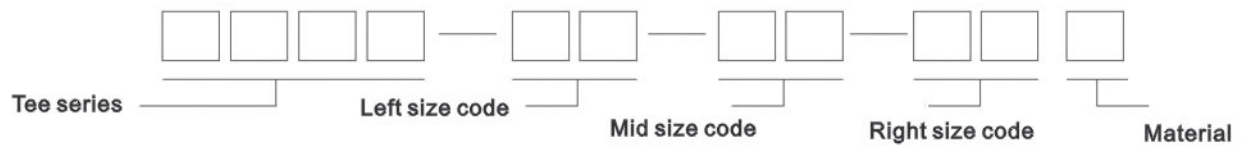
HOW TO ORDER ADAPTER ?

1 Straight part NO.

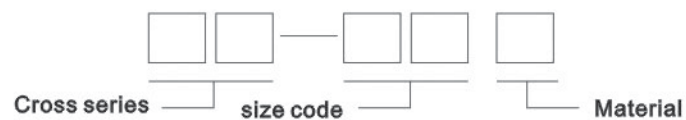


2 Elbow part NO.:suffix"9" for 90° elbow to the straight part number, P1DN9-12-02.

3 Tee part NO.



4 Cross part NO.



In general for cross fitting, the four ends thread is the same. If different, the first group means left, the second group means up, the third group means means right and the fourth group means down.

5 Code

Meaterial	Carbon steel	Brass	Stainless steel
Code	-	BR	SS

SIZE CODE TABLE:

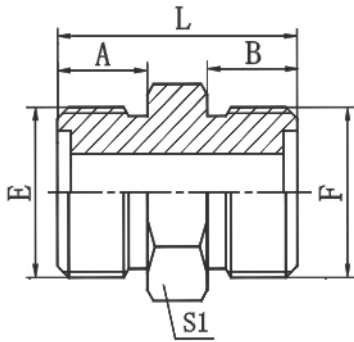
BSP Thread	G1/8" X28	G1/4" X19	—	G3/8" X19	G1/2" X14	G5/8" X14	G3/4" X14	G1"X11	G1.1/4" X11	G1.1/2" X11	G2"X11
BSPT Thread	R1/8" X28	R1/4" X19	—	R3/8" X19	R3/8" X14	—	R3/4" X14	R1"X11	R1.1/4" X11	R1.1/2" X11	R2"X11
NPT Thread	Z1/8" X27	Z1/4" X18	—	Z3/8" X18	Z1/2" X14	—	Z3/4" X14	Z1"X11.5	Z1.1/4" X11.5	Z1.1/2" X11.5	Z2"X11.5
JIC Thread	—	7/16" X20	1/2" X20	9/16" X18	3/4" X16	7/8" X14	1.1/16" X12	1.5/16" X12	1.5/8" X12	1.7/8" X12	2.1/2"X12
ORFS Thread	—	9/16" X18	—	11/16" X16	13/16" X16	1" X14	1.3/16" X12	1.7/16" X12	1.11/16" X12	2" X12	—
SAE Thread	—	—	—	5/8" X18	—	—	1.1/16" X14	—	—	—	—
Flange size	—	—	—	—	1/2	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"
Size code	02	04	05	06	08	10	12	16	20	24	32

Example of order:

If P1BG' left end thread is G1/2"X14 and right end thread is G3/4" X14, the fitting number is P1BG-08-12. If made of stainless steel, the fitting number is P1BG-08-12SS.

if PAJJN' left end thread is G9/16"X18, mid end thread is 9/16"X18 and right end thread is Z1/2"x14, the fitting number is PAJJN-06-06-08.

METRIC MALE O-RING

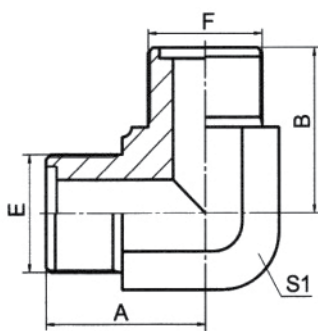


P1E

PART NO.	THREAD		O-RING		DIMENSIONS				
	E, F		E, F		A	B	L	S1	
1E-12	M12X1.25		8X1.9		11	11	28	14	
1E-14	M14X1.5		10X1.9		11	11	28	17	
1E-16	M16X1.5		11X1.9		11	11	28	17	
1E-18	M18X1.5		13X1.9		11	11	28	19	
1E-22	M22X1.5		16X2.4		12	12	32	24	
1E-27	M27X1.5		20X2.4		13	13	36	30	
1E-30	M30X1.5		24X2.4		14	14	39	32	
1E-36	M36X2		30X3.1		16	16	43	38	
1E-39	M39X2		32X3.1		18	18	49	41	
1E-42	M42X2		35X3.1		20	20	53	46	
1E-45	M45X2		38X3.1		21	21	55	46	
1E-52	M52X2		40X3.1		22	22	59	55	
1E-60	M60X2		45X3.1		24	24	65	65	
1E-64	M64X2		50X3.1		27	27	71	70	

Note: The parameter of E end O-ring is ring outside diameter and ring width.

90° ELBOW METRIC MALE O-RING

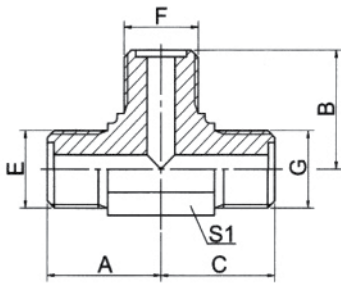


P1E9

PART NO.	THREAD		O-RING		DIMENSIONS				
	E, F		E, F		A	B	S1		
1E9-12	M12X1.25		8X1.9		20.5	20.5	12		
1E9-14	M14X1.5		10X1.9		22.5	22.5	14		
1E9-16	M16X1.5		11X1.9		24	24	17		
1E9-18	M18X1.5		13X1.9		26	26	19		
1E9-22	M22X1.5		16X2.4		29	29	22		
1E9-27	M27X1.5		20X2.4		32.5	32.5	27		
1E9-30	M30X1.5		24X2.4		35.5	35.5	30		
1E9-36	M36X2		30X3.1		42	42	36		
1E9-39	M39X2		32X3.1		47.5	47.5	41		
1E9-42	M42X2		35X3.1		49.5	49.5	41		
1E9-45	M45X2		38X3.1		52.5	52.5	46		
1E9-52	M52X2		40X3.1		57	57	50		

Note: The parameter of E end O-ring is ring outside diameter and ring width.

METRIC MALE O-RING TEE

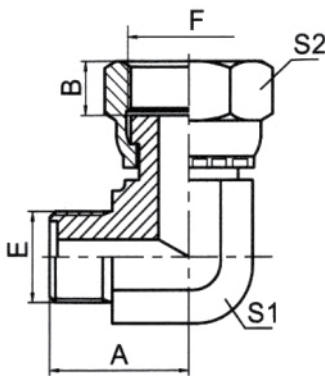


PAE

PART NO.	THREAD		O-RING		DIMENSIONS				
	E, F, G		E, F, G		A	B	C	S1	
AE-14	M14X1.5		10X1.9		22.5	22.5	22.5	14	
AE-16	M16X1.5		11X1.9		24	24	24	17	
AE-18	M18X1.5		13X1.9		26	26	26	19	
AE-22	M22X1.5		16X2.4		29	29	29	22	
AE-27	M27X1.5		20X2.4		32.5	32.5	32.5	27	
AE-30	M30X1.5		24X2.4		35.5	35.5	35.5	30	
AE-36	M36X2		30X3.1		42	42	42	36	
AE-39	M39X2		32X3.1		47.5	47.5	47.5	41	
AE-42	M42X2		35X3.1		49.5	49.5	49.5	41	
AE-45	M45X2		38X3.1		52.5	52.5	52.5	46	
AE-52	M52X2		40X3.1		57	57	57	50	

Note: The parameter of E end O-ring is ring outside diameter and ring width.

90° ELBOW METRIC MALE O-RING

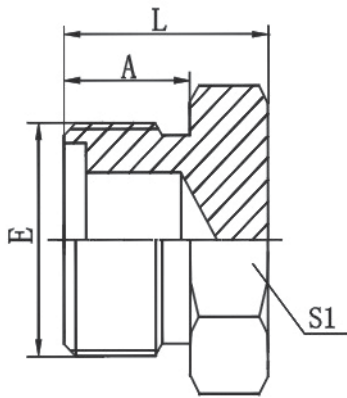


P2E9

PART NO.	THREAD		O-RING		DIMENSIONS				
	E, F		E		A	B	S1	S2	
2E9-12	M12X1.25		8X1.9		20.5	8	12	17	
2E9-14	M14X1.5		10X1.9		22.5	8.5	14	19	
2E9-16	M16X1.5		11X1.9		24	8.5	17	22	
2E9-18	M18X1.5		13X1.9		26	8.5	19	24	
2E9-22	M22X1.5		16X2.4		29	10	22	27	
2E9-27	M27X1.5		20X2.4		32.5	10	27	32	
2E9-30	M30X1.5		24X2.4		35.5	11	30	36	
2E9-36	M36X2		30X3.1		42	13	36	41	
2E9-39	M39X2		32X3.1		47.5	13	41	46	
2E9-42	M42X2		35X3.1		49.5	15	41	50	
2E9-45	M45X2		38X3.1		52.5	15	46	55	
2E9-52	M52X2		40X3.1		56	17	50	60	

Note: The parameter of E end O-ring is ring outside diameter and ring width.

METRIC MALE O-RING PLUG

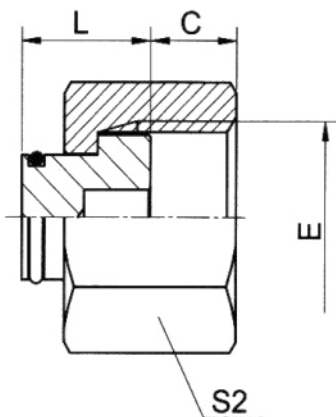


P4E

PART NO.	THREAD		O-RING		DIMENSIONS				
	E		E		A	L	S1		
4E-14	M14X1.5		10X1.9		11	17	17		
4E-16	M16X1.5		11X1.9		11	17	17		
4E-18	M18X1.5		13X1.9		11	17	19		
4E-22	M22X1.5		16X2.4		12	20	24		
4E-24	M24X1.5		18X2.4		12	21	27		
4E-27	M27X1.5		20X2.4		13	23	30		
4E-30	M30X1.5		24X2.4		14	25	32		
4E-36	M36X2		30X3.1		16	29	38		
4E-42	M42X2		35X3.1		20	33	46		
4E-45	M45X2		38X3.1		21	34	46		
4E-52	M52X2		40X3.1		22	37	55		
4E-60	M60X2		45X3.1		24	41	65		

Note: The parameter of E end O-ring is ring outside diameter and ring width.

METRIC FEMALE FACE PLUG

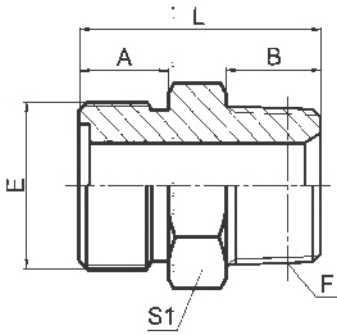


P9E

PART NO.	THREAD		DIMENSIONS				
	E		C	L	S2		
9E-12	M12X1.25		8	10	14		
9E-14	M14X1.5		8.5	10.5	17		
9E-16	M16X1.5		8.5	11.5	19		
9E-18	M18X1.5		8.5	13	22		
9E-22	M22X1.5		10	13	27		
9E-27	M27X1.5		10	15	32		
9E-30	M30X1.5		11	15	36		
9E-36	M36X2		13	15.5	41		
9E-39	M39X2		13	17.5	46		
9E-42	M42X2		15	18.5	50		
9E-45	M45X2		15	18.5	55		
9E-52	M52X2		17	18.5	60		

Note: The parameter of E end O-ring is ring outside diameter and ring width.

METRIC MALE O-RING MALE

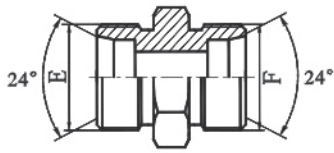


P1EN

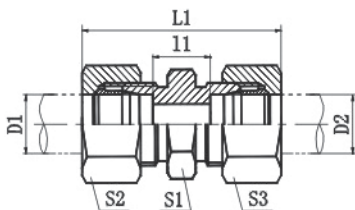
PART NO.	THREAD		O-RING		DIMENSIONS				
	E	F	E		A	B	L	S1	
P1EN-14-04	M14X1.5	Z1/4"X18	10X1.9		11	15	31	17	
P1EN-14-06	M14X1.5	Z3/8"X18	10X1.9		11	16	33	19	
P1EN-16-04	M16X1.5	Z1/4"X18	11X1.9		11	15	32	17	
P1EN-16-06	M16X1.5	Z3/8"X18	11X1.9		11	16	33	19	
P1EN-16-08	M16X1.5	Z1/2"X14	11X1.9		11	19.5	38.5	24	
P1EN-18-04	M18X1.5	Z1/4"X18	13X1.9		11	15	31	19	
P1EN-18-06	M18X1.5	Z3/8"X18	13X1.9		11	16	33	19	
P1EN-18-08	M18X1.5	Z1/2"X14	13X1.9		11	19.5	38.5	24	
P1EN-22-08	M22X1.5	Z1/2"X14	16X2.4		12	19.5	39.5	24	
P1EN-22-12	M22X1.5	Z3/4"X14	16X2.4		12	19.5	41.5	27	
P1EN-24-06	M24X1.5	Z3/8"X18	18X2.4		12	15	37	27	
P1EN-24-08	M24X1.5	Z1/2"X14	18X2.4		12	19.5	41.5	27	
P1EN-27-08	M27X1.5	Z1/2"X14	20X2.4		13	19.5	42.5	30	
P1EN-27-12	M27X1.5	Z3/4"X14	20X2.4		13	19.5	42.5	30	
P1EN-30-12	M30X1.5	Z3/4"X14	24X2.4		14	19.5	44.5	32	
P1EN-36-12	M36X2	Z3/4"X14	30X3.1		16	19.5	46.5	38	
P1EN-36-16	M36X2	Z1"X11.5	30X3.1		16	25.5	52.5	38	
P1EN-39-16	M39X2	Z1"X11.5	32X3.1		18	25.5	56.5	41	
P1EN-39-20	M39X2	Z1.1/4"X11.5	32X3.1		18	26.5	57.5	46	
P1EN-42-16	M42X2	Z1"X11.5	35X3.1		20	25.5	58.5	46	
P1EN-42-20	M42X2	Z1.1/4"X11.5	35X3.1		20	26.5	59.5	46	
P1EN-45-20	M45X2	Z1.1/4"X11.5	38X3.1		21	26.5	60.5	46	
P1EN-52-20	M52X2	Z1.1/4"X11.5	40X3.1		22	26.5	63.5	55	
P1EN-60-24	M60X2	Z1.1/2"X11.5	45X3.1		24	27.5	68.5	65	

Note: The parameter of E end O-ring is ring outside diameter and ring width.

STRAIGHT FITTINGS



P1C P1D

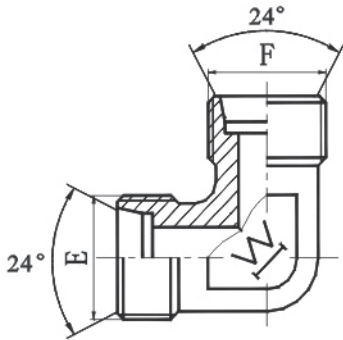


P1C-RN P1D-RN

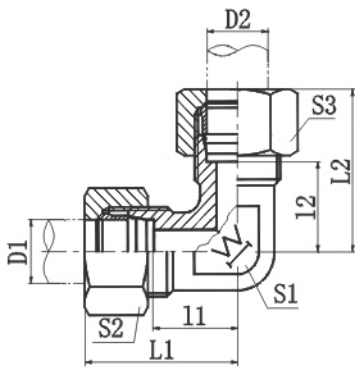
PART NO.	THREAD		TUBE O. D.		DIMENSIONS						MPa
	E	F	D1	D2	l1	L1	S1	S2	S3		
1C-12	M12X1.5	M12X1.5	6	6	10	39	12	14	14		31.5 L
1C-14	M14X1.5	M14X1.5	8	8	11	40	14	17	17		
1C-16	M16X1.5	M16X1.5	10	10	13	42	17	19	19		
1C-18	M18X1.5	M18X1.5	12	12	14	43	19	22	22		
1C-22	M22X1.5	M22X1.5	15	15	16	46	24	27	27		
1C-26	M26X1.5	M26X1.5	18	18	16	48	27	32	32		
1C-30	M30X2	M30X2	22	22	20	52	32	36	36		16 L
1C-36	M36X2	M36X2	28	28	21	54	41	41	41		
1C-45	M45X2	M45X2	35	35	20	63	46	50	50		
1C-52	M52X2	M52X2	42	42	21	66	55	60	60		63 S
1D-14	M14X1.5	M14X1.5	6	6	16	45	14	17	17		
1D-16	M16X1.5	M16X1.5	8	8	18	47	17	19	19		
1D-18	M18X1.5	M18X1.5	10	10	17	49	19	22	22		
1D-20	M20X1.5	M20X1.5	12	12	19	51	22	24	24		
1D-22	M22X1.5	M22X1.5	14	14	22	57	24	27	27		
1D-24	M24X1.5	M24X1.5	16	16	21	57	27	30	30		40 S
1D-30	M30X2	M30X2	20	20	23	66	32	36	36		
1D-36	M36X2	M36X2	25	25	26	74	41	46	46		
1D-42	M42X2	M42X2	30	30	27	80	46	50	50		
1D-52	M52X2	M52X2	38	38	29	90	55	60	60		31.5 S

Note: In case if you are interested to order the adapter in complete set with cutting ring and nut, it is necessary to insert suffix "RN" after our part no., for example 1C-30RN.

90° ELBOW FITTINGS



P1C9 P1D9

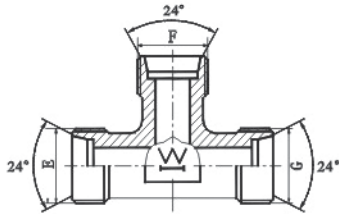


P1C9-RN P1D9-RN

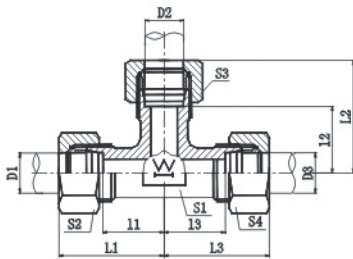
PART NO.	THREAD		TUBE O.D.		DIMENSIONS						MPa
	E	F	D1	D2	I1,I2	L1,L2	S1	S2,S3			
1C9-12	M12X1.5	M12X1.5	6	6	12	27	12	14			31.5 L
1C9-14	M14X1.5	M14X1.5	8	8	14	29	12	17			
1C9-16	M16X1.5	M16X1.5	10	10	15	30	14	19			
1C9-18	M18X1.5	M18X1.5	12	12	17	32	17	22			
1C9-22	M22X1.5	M22X1.5	15	15	21	36	19	27			
1C9-26	M26X1.5	M26X1.5	18	18	23.5	40	24	32			16 L
1C9-30	M30X2	M30X2	22	22	27.5	44	27	36			
1C9-36	M36X2	M36X2	28	28	30.5	47	36	41			
1C9-45	M45X2	M45X2	35	35	34.5	56	41	50			
1C9-52	M52X2	M52X2	42	42	40	63	50	60			
1D9-14	M14X1.5	M14X1.5	6	6	16	31	12	17			63 S
1D9-16	M16X1.5	M16X1.5	8	8	17	32	14	19			
1D9-18	M18X1.5	M18X1.5	10	10	17.5	34	17	22			
1D9-20	M20X1.5	M20X1.5	12	12	21.5	38	17	24			
1D9-22	M22X1.5	M22X1.5	14	14	22	40	19	27			40 S
1D9-24	M24X1.5	M24X1.5	16	16	24.5	43	24	30			
1D9-30	M30X2	M30X2	20	20	26.5	48	27	36			
1D9-36	M36X2	M36X2	25	25	30	54	36	46			
1D9-42	M42X2	M42X2	30	30	35.5	62	41	50			
1D9-52	M52X2	M52X2	38	38	41	72	50	60			31.5 S

Note: In case if you are interested to order the adapter in complete set with cutting ring and nut, it is necessary to insert suffix "RN" after our part no., for example 1C9-30RN.

EQUAL TEES



PAC PAD

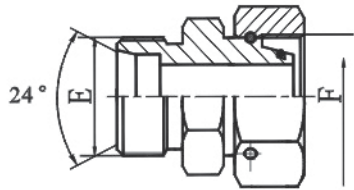


PAC-RN PAD-RN

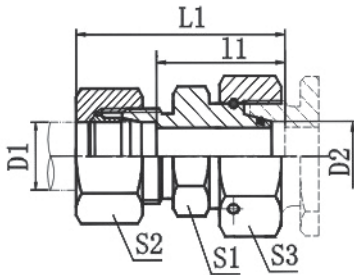
PART NO.	THREAD	TUBE O.D.	DIMENSIONS				MPa
	E,F,G	D1,D2,D3	I1,I2,I3	L1,L2,L3	S1	S2,S3,S4	
AC-08	M8X1	4	11	21	9	10	10
AC-10	M10X1	5	9.5	21	9	12	
AC-10A	M10X1	6	9.5	21	9	12	
AC-12A	M12X1	8	11.5	23	12	14	L
AC-12	M12X1.5	6	12	27	12	14	
AC-14	M14X1.5	8	14	29	12	17	
AC-16	M16X1.5	10	15	30	14	19	25
AC-18	M18X1.5	12	17	32	17	22	
AC-22	M22X1.5	15	21	36	19	27	
AC-26	M26X1.5	18	23.5	40	24	32	L
AC-30	M30X2	22	27.5	44	27	36	
AC-36	M36X2	28	30.5	47	36	41	
AC-45	M45X2	35	34.5	56	41	50	16
AC-52	M52X2	42	40	63	50	60	
AD-14	M14X1.5	6	16	31	12	17	
AD-16	M16X1.5	8	17	32	14	19	63
AD-18	M18X1.5	10	17.5	34	17	22	
AD-20	M20X1.5	12	21.5	38	17	24	
AD-22	M22X1.5	14	22	40	19	27	S
AD-24	M24X1.5	16	24.5	43	24	30	
AD-30	M30X2	20	26.5	48	27	36	
AD-36	M36X2	25	30	54	36	46	40
AD-42	M42X2	30	35.5	62	41	50	
AD-52	M52X2	38	41	72	50	60	
							31.5

Note: In case if you are interested to order the adpter in complete set with cutting ring and nut, it is necessary to insert suffix "RN" after our part no., for example AC-22RN.

REDUCER TUBE ADAPTOR WITH SWIVEL NUT



P2C



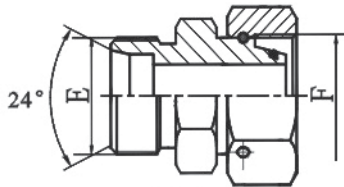
P2C-RN

PART NO.	THREAD		TUBE OD.		DIMENSIONS						MPa
	E	F	D1	D2	l1	L1	S1	S2	S3		
P2C-12-14	M12X1.5	M14X1.5	6	8	23.5	38	12	14	17	31.5 L	
P2C-12-16	M12X1.5	M16X1.5	6	10	25	40	14	14	19		
P2C-14-16	M14X1.5	M16X1.5	8	10	25	40	14	17	19		
P2C-12-18	M12X1.5	M18X1.5	6	12	25	40	17	14	22		
P2C-14-18	M14X1.5	M18X1.5	8	12	25	40	17	17	22		
P2C-16-18	M16X1.5	M18X1.5	10	12	26	41	17	19	22		
P2C-12-22	M12X1.5	M22X1.5	6	15	28.5	43	19	14	27		
P2C-14-22	M14X1.5	M22X1.5	8	15	28.5	43	19	17	27		
P2C-16-22	M16X1.5	M22X1.5	10	15	29.5	44	19	19	27		
P2C-18-22	M18X1.5	M22X1.5	12	15	29.5	44	19	22	27		
P2C-12-26	M12X1.5	M26X1.5	6	18	28	43	24	14	32		
P2C-14-26	M14X1.5	M26X1.5	8	18	28	43	24	17	32		
P2C-16-26	M16X1.5	M26X1.5	10	18	29	44	24	19	32		
P2C-18-26	M18X1.5	M26X1.5	12	18	29	44	24	22	32		
P2C-22-26	M22X1.5	M26X1.5	15	18	30	45	24	27	32		
P2C-12-30	M12X1.5	M30X2	6	22	32	47	27	14	36		
P2C-14-30	M14X1.5	M30X2	8	22	32	47	27	17	36		
P2C-16-30	M16X1.5	M30X2	10	22	33	48	27	19	36		
P2C-18-30	M18X1.5	M30X2	12	22	33	48	27	22	36		
P2C-22-30	M22X1.5	M30X2	15	22	34	49	27	27	36		
P2C-26-30	M26X1.5	M30X2	18	22	33.5	50	27	32	36		
P2C-12-36	M12X1.5	M36X2	6	28	34	49	36	14	41		
P2C-14-36	M14X1.5	M36X2	8	28	34	49	36	17	41		
P2C-16-36	M16X1.5	M36X2	10	28	35	50	36	19	41		
P2C-18-36	M18X1.5	M36X2	12	28	35	50	36	22	41		
P2C-22-36	M22X1.5	M36X2	15	28	36	51	36	27	41		
P2C-26-36	M26X1.5	M36X2	18	28	35.5	52	36	32	41		
P2C-30-36	M30X2	M36X2	22	28	37.5	54	36	36	41		
P2C-12-45	M12X1.5	M45X2	6	35	37	52	41	14	50		
P2C-14-45	M14X1.5	M45X2	8	35	37	52	41	17	50		
P2C-16-45	M16X1.5	M45X2	10	35	38	53	41	19	50		
P2C-18-45	M18X1.5	M45X2	12	35	38	53	41	22	50		
P2C-22-45	M22X1.5	M45X2	15	35	39	54	41	27	50		
P2C-26-45	M26X1.5	M45X2	18	35	38.5	55	41	32	50		

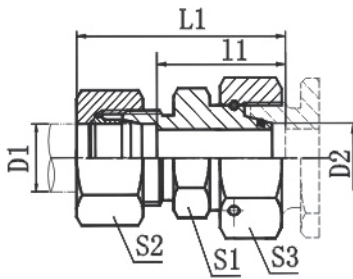
PART NO.	THREAD		HOSE BORE		DIMENSIONS						MPa
	E	F	D1	D2	I1	L1	S1	S2	S3		
P2C-30-45	M30X2	M45X2	22	35	40.5	57	41	36	50		16 L
P2C-36-45	M36X2	M45X2	28	35	40.5	57	41	41	50		
P2C-12-52	M12X1.5	M52X2	6	42	40.5	55	50	14	60		
P2C-14-52	M14X1.5	M52X2	8	42	40.5	55	50	17	60		
P2C-16-52	M16X1.5	M52X2	10	42	41.5	56	50	19	60		
P2C-18-52	M18X1.5	M52X2	12	42	41.5	56	50	22	60		
P2C-22-52	M22X1.5	M52X2	15	42	42.5	58	50	27	60		
P2C-26-52	M26X1.5	M52X2	18	42	42	58	50	32	60		
P2C-30-52	M30X2	M52X2	22	42	44	60	50	36	60		
P2C-36-52	M36X2	M52X2	28	42	44	61	50	41	60		
P2C-45-52	M45X2	M52X2	35	42	43	65	50	50	60		

Note: In case if you are interested to order the adapter in complete set with cutting ring and nut, it is necessary to inset suffix "RN" after our part NO, for example "P2C-30-52RN"

REDUCER TUBE ADAPTOR WITH SWIVEL NUT



P2D



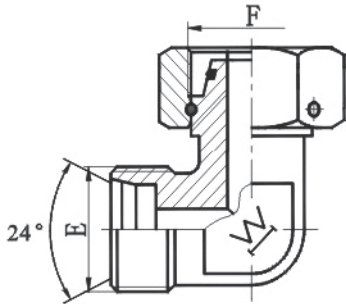
P2D-RN

PART NO.	THREAD		TUBE O.D.		DIMENSIONS						MPa
	E	F	D1	D2	l1	L1	S1	S2	S3		
2D-14-16	M14X1.5	M16X1.5	6	8	27	42	14	17	19		63
2D-14-18	M14X1.5	M18X1.5	6	10	27.5	42	17	17	22		
2D-14-20	M14X1.5	M20X1.5	6	12	29	44	17	17	24		
2D-14-22	M14X1.5	M22X1.5	6	14	31.5	46	19	17	27		
2D-16-18	M16X1.5	M18X1.5	8	10	27.5	42	17	19	22		
2D-16-20	M16X1.5	M20X1.5	8	12	29	44	17	19	24		
2D-16-22	M16X1.5	M22X1.5	8	14	31.5	46	19	19	27		
2D-18-20	M18X1.5	M20X1.5	10	12	31	46	19	22	24		
2D-18-22	M18X1.5	M22X1.5	10	14	31	47	19	22	27		
2D-20-22	M20X1.5	M22X1.5	12	14	31	47	22	24	27		
2D-14-24	M14X1.5	M24X1.5	6	16	32	47	22	17	30		40
2D-14-30	M14X1.5	M30X2	6	20	36	51	27	17	36		
2D-14-36	M14X1.5	M36X2	6	25	38.5	53	36	17	46		
2D-14-42	M14X1.5	M42X2	6	30	44	59	41	17	50		
2D-16-24	M16X1.5	M24X1.5	8	16	32	47	22	19	30		
2D-16-30	M16X1.5	M30X2	8	20	36	51	27	19	36		
2D-16-36	M16X1.5	M36X2	8	25	38.5	53	36	19	46		
2D-16-42	M16X1.5	M42X2	8	30	44	59	41	19	50		
2D-18-24	M18X1.5	M24X1.5	10	16	31.5	48	22	22	30		
2D-18-30	M18X1.5	M30X2	10	20	35.5	52	27	22	36		
2D-18-36	M18X1.5	M36X2	10	25	38	54	36	22	46		
2D-18-42	M18X1.5	M42X2	10	30	43.5	60	41	22	50		
2D-20-24	M20X1.5	M24X1.5	12	16	33.5	50	22	24	30		
2D-20-30	M20X1.5	M30X2	12	20	35.5	52	27	24	36		
2D-20-36	M20X1.5	M36X2	12	25	38	54	36	24	46		
2D-20-42	M20X1.5	M42X2	12	30	43.5	60	41	24	50		
2D-22-24	M22X1.5	M24X1.5	14	16	33	51	24	27	30		
2D-22-30	M22X1.5	M30X2	14	20	37	55	27	27	36		
2D-22-36	M22X1.5	M36X2	14	25	39.5	57	36	27	46		
2D-22-42	M22X1.5	M42X2	14	30	45	63	41	27	50		
2D-24-30	M24X1.5	M30X2	16	20	37.5	55	30	30	36		
2D-24-36	M24X1.5	M36X2	16	25	39	57	36	30	46		
2D-24-42	M24X1.5	M42X2	16	30	44.5	63	41	30	50		
2D-30-36	M30X2	M36X2	20	25	39	61	36	36	46		
2D-30-42	M30X2	M42X2	20	30	44.5	66	41	36	50		
2D-36-42	M36X2	M42X2	25	30	44	69	41	46	50		

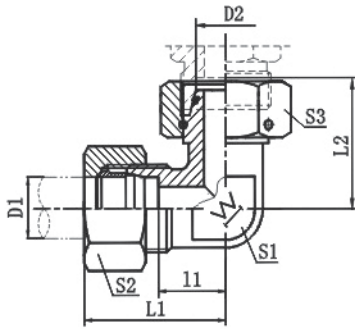
PART NO.	THREAD		TUBE O.D.		DIMENSIONS						MPa
	E	F	D1	D2	I1	L1	S1	S2	S3		
2D-14-52	M14X1.5	M52X2	6	38	47.5	62	50	17	60		31.5 S
2D-16-52	M16X1.5	M52X2	8	38	47.5	62	50	19	60		
2D-18-52	M18X1.5	M52X2	10	38	47	63	50	22	60		
2D-20-52	M20X1.5	M52X2	12	38	47	63	50	24	60		
2D-22-52	M22X1.5	M52X2	14	38	48.5	66	50	27	60		
2D-24-52	M24X1.5	M52X2	16	38	48	66	50	30	60		
2D-30-52	M30X2	M52X2	20	38	48	70	50	36	60		
2D-36-52	M36X2	M52X2	25	38	48.5	73	50	46	60		
2D-42-52	M42X2	M52X2	30	38	49	76	50	50	60		

Note: In case if you are interested to order the adapter in complete set with cutting ring and nut, it is necessary to insert suffix "RN" after our part number

90° ELBOW REDUCER TUBE ADAPTOR WITH SWIVEL NUT



P2C9 P2D9

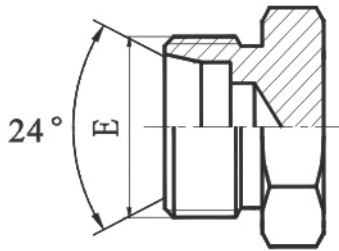


P2C9-RN P2D9-RN

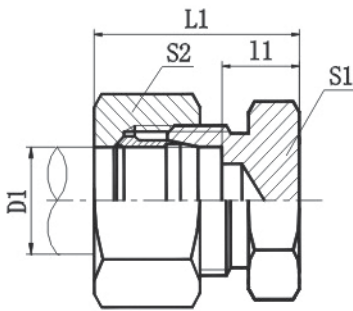
PART NO.	THREAD		TUBE O.D.		DIMENSIONS						MPa
	E	F	D1	D2	I1	L1	L2	S1	S2	S3	
2C9-12	M12X1.5	M12X1.5	6	6	12	27	26	12	14	14	25
2C9-14	M14X1.5	M14X1.5	8	8	14	29	27.5	12	17	17	
2C9-16	M16X1.5	M16X1.5	10	10	15	30	29	14	19	19	
2C9-18	M18X1.5	M18X1.5	12	12	17	32	29.5	17	22	22	
2C9-22	M22X1.5	M22X1.5	15	15	21	36	32.5	19	27	27	
2C9-26	M26X1.5	M26X1.5	18	18	23.5	40	35.5	24	32	32	
2C9-30	M30X2	M30X2	22	22	27.5	44	38.5	27	36	36	16
2C9-36	M36X2	M36X2	28	28	30.5	47	41.5	36	41	41	
2C9-45	M45X2	M45X2	35	35	34.5	56	51	41	50	50	
2C9-52	M52X2	M52X2	42	42	40	63	56	50	60	60	
2D9-14	M14X1.5	M14X1.5	6	6	16	31	27	12	17	17	63
2D9-16	M16X1.5	M16X1.5	8	8	17	32	27.5	14	19	19	
2D9-18	M18X1.5	M18X1.5	10	10	17.5	34	30	17	22	22	
2D9-20	M20X1.5	M20X1.5	12	12	21.5	38	31	17	24	24	
2D9-22	M22X1.5	M22X1.5	14	14	22	40	35	19	27	27	40
2D9-24	M24X1.5	M24X1.5	16	16	24.5	43	36.5	24	30	30	
2D9-30	M30X2	M30X2	20	20	26.5	48	44.5	27	36	36	
2D9-36	M36X2	M36X2	25	25	30	54	50	36	46	46	
2D9-42	M42X2	M42X2	30	30	35.5	62	55	41	50	50	S
2D9-52	M52X2	M52X2	38	38	41	72	63	50	60	60	
											31.5 S

Note: In case if you are interested to order the adapter in complete set with cutting ring and nut, it is necessary to insert suffix "RN" after our part no., for example 2C9-30RN.

METRIC PLUG



P4C P4D

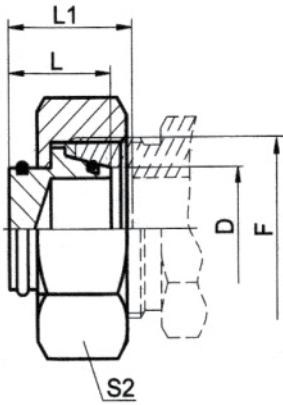


P4C-RN P4D-RN

PART NO.	THREAD	TUBE O.D.	DIMENSIONS						MPa
	E	D1	I1	L1	S1	S2			
4C-12	M12X1.5	6	7	22	12	14			31.5 L
4C-14	M14X1.5	8	8	23	14	17			
4C-16	M16X1.5	10	9	24	17	19			
4C-18	M18X1.5	12	10	25	19	22			
4C-22	M22X1.5	15	11	26	24	27			
4C-26	M26X1.5	18	11.5	28	27	32			
4C-30	M30X2	22	13.5	30	32	36			16 L
4C-36	M36X2	28	14.5	31	41	41			
4C-45	M45X2	35	14.5	36	46	50			
4C-52	M52X2	42	16	39	55	60			
4D-14	M14X1.5	6	11	26	14	17			63 S
4D-16	M16X1.5	8	13	28	17	19			
4D-18	M18X1.5	10	12.5	29	19	22			
4D-20	M20X1.5	12	14.5	31	22	24			
4D-22	M22X1.5	14	16	34	24	27			40 S
4D-24	M24X1.5	16	15.5	34	27	30			
4D-30	M30X2	20	17.5	39	32	36			
4D-36	M36X2	25	20	44	38	46			
4D-42	M42X2	30	20.5	47	46	50			31.5 S
4D-52	M52X2	38	23	54	55	60			

Note: In case if you are interested to order the adapter in complete set with cutting ring and nut, it is necessary to insert suffix "RN" after our part no., for example 4C-30RN.

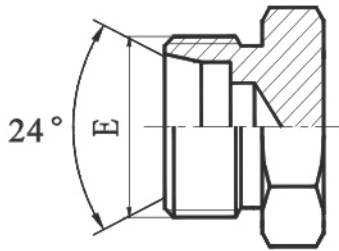
METRIC CAP



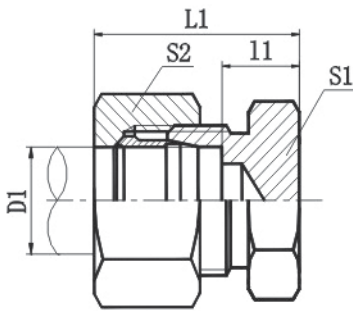
P9C P9D

PART NO.	THREAD		TUBE O.D.	DIMENSIONS				MPa
	F	D		L	L1	S2		
9C-12	M12X1.5	6		15.5	17.5	14	31.5 L	
9C-14	M14X1.5	8		15.5	18	17		
9C-16	M16X1.5	10		16.5	18	19		
9C-18	M18X1.5	12		18	19.5	22		
9C-22	M22X1.5	15		19.5	20	27		
9C-26	M26X1.5	18		20	22	32	16 L	
9C-30	M30X2	22		21.5	22.5	36		
9C-36	M36X2	28		22.5	24.5	41		
9C-45	M45X2	35		25	29	55		
9C-52	M52X2	42		27	31.5	60		
9D-14	M14X1.5	6		16	18	17	63 S	
9D-16	M16X1.5	8		16.5	18.5	19		
9D-18	M18X1.5	10		18	20	22		
9D-20	M20X1.5	12		18.5	20.5	24		
9D-22	M22X1.5	14		19	21.5	27		
9D-24	M24X1.5	16		18.5	21.5	30	40 S	
9D-30	M30X2	20		22.5	25	36		
9D-36	M36X2	25		23.5	28.5	46		
9D-42	M42X2	30		25.5	32	50		
9D-52	M52X2	38		26.5	36	60		31.5 S

METRIC PLUG



P4C P4D

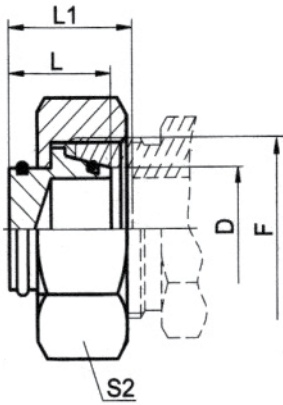


P4C-RN P4D-RN

PART NO.	THREAD	TUBE O.D.	DIMENSIONS						MPa
	E	D1	I1	L1	S1	S2			
4C-12	M12X1.5	6	7	22	12	14			31.5 L
4C-14	M14X1.5	8	8	23	14	17			
4C-16	M16X1.5	10	9	24	17	19			
4C-18	M18X1.5	12	10	25	19	22			
4C-22	M22X1.5	15	11	26	24	27			
4C-26	M26X1.5	18	11.5	28	27	32			
4C-30	M30X2	22	13.5	30	32	36			16 L
4C-36	M36X2	28	14.5	31	41	41			
4C-45	M45X2	35	14.5	36	46	50			
4C-52	M52X2	42	16	39	55	60			
4D-14	M14X1.5	6	11	26	14	17			63 S
4D-16	M16X1.5	8	13	28	17	19			
4D-18	M18X1.5	10	12.5	29	19	22			
4D-20	M20X1.5	12	14.5	31	22	24			
4D-22	M22X1.5	14	16	34	24	27			40 S
4D-24	M24X1.5	16	15.5	34	27	30			
4D-30	M30X2	20	17.5	39	32	36			
4D-36	M36X2	25	20	44	38	46			
4D-42	M42X2	30	20.5	47	46	50			31.5 S
4D-52	M52X2	38	23	54	55	60			

Note: In case if you are interested to order the adapter in complete set with cutting ring and nut, it is necessary to insert suffix "RN" after our part no., for example 4C-30RN.

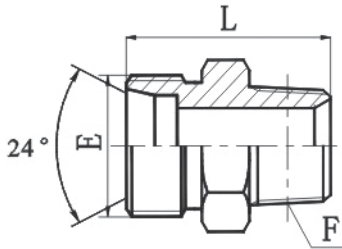
METRIC CAP



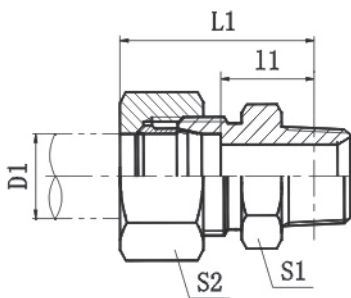
P9C P9D

PART NO.	THREAD		TUBE O.D.	DIMENSIONS				MPa
	F	D		L	L1	S2		
9C-12	M12X1.5	6		15.5	17.5	14	31.5 L	
9C-14	M14X1.5	8		15.5	18	17		
9C-16	M16X1.5	10		16.5	18	19		
9C-18	M18X1.5	12		18	19.5	22		
9C-22	M22X1.5	15		19.5	20	27		
9C-26	M26X1.5	18		20	22	32	16 L	
9C-30	M30X2	22		21.5	22.5	36		
9C-36	M36X2	28		22.5	24.5	41		
9C-45	M45X2	35		25	29	55		
9C-52	M52X2	42		27	31.5	60		
9D-14	M14X1.5	6		16	18	17	63 S	
9D-16	M16X1.5	8		16.5	18.5	19		
9D-18	M18X1.5	10		18	20	22		
9D-20	M20X1.5	12		18.5	20.5	24		
9D-22	M22X1.5	14		19	21.5	27		
9D-24	M24X1.5	16		18.5	21.5	30	40 S	
9D-30	M30X2	20		22.5	25	36		
9D-36	M36X2	25		23.5	28.5	46		
9D-42	M42X2	30		25.5	32	50		
9D-52	M52X2	38		26.5	36	60		31.5 S

BSPT MALE



P1CT-SP
P1DT-SP

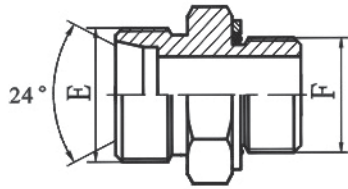


P1CT-SP/RN
P1DT-SP/RN

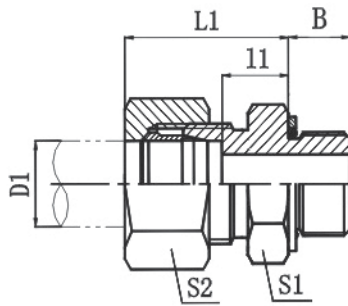
PART NO.	THREAD		TUBE O.D.	DIMENSIONS						MPa
	E	F	D	l1	L1	S1	S2			
1CT-12-02SP	M12X1.5	R1/8"X28	6	13	28	12	14			25
1CT-12-04SP	M12X1.5	R1/4"X19	8	8		14	14			
1CT-14-04SP	M14X1.5	R1/4"X19	8	16.5	31.5	14	17			
1CT-14-06SP	M14X1.5	R3/8"X19	8	17.6	32.6	19	17			
1CT-16-04SP	M16X1.5	R1/4"X19	10	17.5	32.5	17	19			
1CT-16-06SP	M16X1.5	R3/8"X19	10	18.6	33.6	19	19			
1CT-16-08SP	M16X1.5	R1/2"X14	10	21.8	36.8	22	19			
1CT-16-12SP	M16X1.5	R3/4"X14	10	21.5	36.5	30	19			
1CT-18-04SP	M18X1.5	R1/4"X19	12	18.5	33.5	19	22			
1CT-18-06SP	M18X1.5	R3/8"X19	12	18.6	33.6	19	22			
1CT-18-08SP	M18X1.5	R1/2"X14	12	21.8	36.8	22	22			
1CT-22-08SP	M22X1.5	R1/2"X14	15	22.8	37.8	24	27			
1CT-26-08SP	M26X1.5	R1/2"X14	18	23.3	39.8	27	32			
1CT-26-12SP	M26X1.5	R3/4"X14	18	22	38.5	30	32			
1CT-30-12SP	M30X2	R3/4"X14	22	24	40.5	32	36			
1CT-36-16SP	M36X2	R1"X11	28	29.6	46.1	38	41			
1CT-36-20SP	M36X2	R1.1/4"X11	28	29.3	45.8	46	41			
1CT-45-16SP	M45X2	R1"X11	35	29.6	51.1	46	50			
1CT-45-20SP	M45X2	R1.1/4"X11	35	28.3	49.8	46	50			
1CT-52-20SP	M52X2	R1.1/4"X11	42	29.8	52.8	55	60			
1CT-52-24SP	M52X2	R1.1/2"X11	42	29.8	52.8	55	60			
1DT-14-04SP	M14X1.5	R1/4"X19	6	13	36.5	17	17			
1DT-16-04SP	M16X1.5	R1/4"X19	8	21.5	36.5	17	19			
1DT-18-04SP	M18X1.5	R1/4"X19	10	21	37.5	19	22			
1DT-20-04SP	M20X1.5	R1/4"X19	12	23	39.5	22	24			
1DT-20-06SP	M20X1.5	R3/8"X19	12	23.1	39.6	22	24			
1DT-22-06SP	M22X1.5	R3/8"X19	14	24.6	42.6	24	27			
1DT-22-08SP	M22X1.5	R1/2"X14	14	27.8	45.8	24	27			
1DT-24-06SP	M24X1.5	R3/8"X19	16	24.1	42.6	27	30			
1DT-24-08SP	M24X1.5	R1/2"X14	16	27.3	45.8	27	30			
1DT-30-12SP	M30X2	R3/4"X14	20	28	49.5	32	36			
1DT-36-12SP	M36X2	R3/4"X14	25	29.5	53.5	38	46			
1DT-36-16SP	M36X2	R1"X11	25	34.1	58.1	38	46			
1DT-42-16SP	M42X2	R1"X11	30	35.6	62.1	46	50			
1DT-42-20SP	M42X2	R1.1/4"X11	30	34.3	60.8	46	50			
1DT-52-20SP	M52X2	R1.1/4"X11	38	36.8	67.8	55	60			
1DT-52-24SP	M52X2	R1.1/2"X11	38	36.8	67.8	55	60			

Note: In case if you are interested to order the adapter in complete set with cutting ring and nut, it is necessary to insert suffix "RN" after our part no., for example 1DT-22-08SP/RN.

METRIC THREAD STUD ENDS ISO 6149



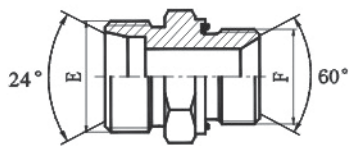
P1CH P1DH



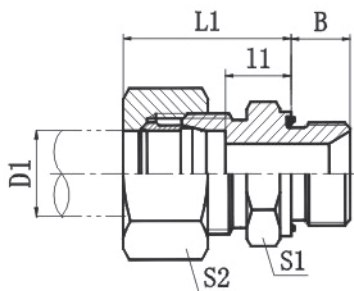
**P1CH-RN
P1DH-RN**

PART NO.	THREAD		D1 TUBE OD.	O RING	DIMENSIONS					MPa
	E	F			B	l1	L1	S1	S2	
1CH-12-10	M12X1.5	M10X1	6	O08.1X1.6	8.5	9.5	23	14	14	31.5 L
1CH-14	M14X1.5	M14X1.5	8	O11.3X2.4	11	10	25	19	17	
1CH-14-12	M14X1.5	M12X1.5	8	O09.3X2.4	11	10	25	17	17	
1CH-16-14	M16X1.5	M14X1.5	10	O11.3X2.4	11	13	26	19	19	
1CH-18-14	M18X1.5	M14X1.5	12	O11.3X2.4	11	11	25.5	19	22	
1CH-14-18	M14X1.5	M18X1.5	8	O15.3X2.4	12.5	11.5	26.5	24	17	
1CH-16	M16X1.5	M16X1.5	10	O13.3X2.4	11.5	13	28	22	19	
1CH-16-18	M16X1.5	M18X1.5	10	O15.3X2.4	12.5	12.5	28	24	19	
1CH-18-16	M18X1.5	M16X1.5	12	O13.3X2.4	11.5	12	27	22	22	
1CH-22-16	M22X1.5	M16X1.5	12	O13.3X2.4	11.5	13.5	29.5	24	27	
1CH-22-18	M22X1.5	M18X1.5	15	O15.3X2.4	12.5	13.5	29	24	27	
1CH-16-22	M16X1.5	M22X1.5	10	O19.3X2.4	13	14	29.5	27	19	
1CH-22-20	M22X1.5	M20X1.5	15	O17.3X2.4	12	15	30.5	27	27	
1CH-22	M22X1.5	M22X1.5	12	O19.3X2.4	13	15	31	27	27	
1CH-26-22	M26X1.5	M22X1.5	18	O19.3X2.4	13	14.5	31	27	32	
1CH-26	M26X1.5	M26X1.5	18	O23.5X3.0	13.5	13.5	31	32	32	
1CH-26-27	M26X1.5	M27X2	18	O23.5X3.0	16	14.5	32	32	32	
1CH-26-33	M26X1.5	M33X2	18	O29.5X3.0	16	15.5	33	41	32	
1CH-30-22	M30X2	M22X1.5	22	O19.3X2.4	13	17.5	33	32	41	
1CH-30-27	M30X2	M27X2	22	O23.5X3.0	16	16.5	33	32	36	
1CH-30	M30X2	M30X2	22	O26.5X3.0	16	17.5	33	36	36	
1CH-36-27	M36X2	M27X2	28	O23.5X3.0	16	17.5	34	41	41	
1CH-36-33	M36X2	M33X2	28	O29.5X3.0	16	17.5	34	41	41	
1CH-36-42	M36X2	M42X2	28	O38.5X3.0	16	18.5	35	50	41	
1CH-45-33	M45X2	M33X2	35	O29.5X3.0	16	17.5	37	46	50	
1CH-45-42	M45X2	M42X2	35	O38.5X3.0	16	17.5	37	50	50	
1CH-52-48	M52X2	M48X2	42	O44.5X3.0	17.5	19		55	60	
1DH-14	M14X1.5	M14X1.5	6	O11.3X2.4	11	15	28	19	17	63 S
1DH-14-12	M14X1.5	M12X1.5	6	O09.3X2.4	11	13	28	17	17	
1DH-16-14	M16X1.5	M14X1.5	8	O11.3X2.4	11	15	30	19	19	
1DH-18-16	M18X1.5	M16X1.5	10	O13.3X2.4	11.5	15	31	22	22	
1DH-20-14	M20X1.5	M14X1.5	12	O11.3X2.4	11	15	31	22	24	
1DH-20-16	M20X1.5	M16X1.5	12	O13.3X2.4	11.5	15	31	22	24	
1DH-20-18	M20X1.5	M18X1.5	12	O15.3X2.4	12.5	17	33	24	24	
1DH-20-22	M20X1.5	M22X1.5	12	O19.3X2.4	13	17.5	35	27	30	

BSP THREAD WITH CAPTIVE SEAL



**P1CB-WD
P1DB-WD**

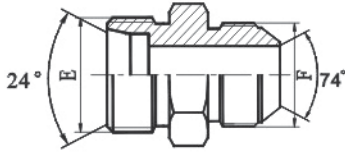


**P1CB-WD/RN
P1DB-WD/RN**

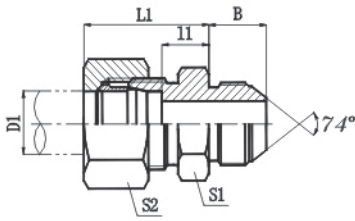
PART NO.	THREAD		D1 TUBE O.D.	SEAL	DIMENSIONS						MPa	
	E	F			B	l1	L1	S1	S2			
P1CB-12-02VD	M12X1.5	G1/8"X28	6	WD-B02	8	8.5	23.5	14	14		31.5	
P1CB-12-04VD	M12X1.5	G1/4"X19	6	WD-B04	12	10	25	19	14			
P1CB-12-06VD	M12X1.5	G3/8"X19	6	WD-B06	12	11.5	26.5	22	14			
P1CB-14-02VD	M14X1.5	G1/8"X18	8	WD-B02	8	9	24	14	17			
P1CB-14-04VD	M14X1.5	G1/4"X19	8	WD-B04	12	10	24	19	17			
P1CB-14-06VD	M14X1.5	G3/8"X19	8	WD-B06	12	11	26	22	17			
P1CB-16-04VD	M16X1.5	G1/4"X19	10	WD-B04	12	11	24.5	19	19			
P1CB-16-06VD	M16X1.5	G3/8"X14	10	WD-B06	12	12.5	26	22	19			
P1CB-16-08VD	M16X1.5	G1/2"X14	10	WD-B08	14	13	28	27	19			
P1CB-18-04VD	M18X1.5	G1/4"X19	12	WD-B04	12	12	27	19	22	L		
P1CB-18-06VD	M18X1.5	G3/8"X19	12	WD-B06	12	12.5	26	22	22			
P1CB-18-08VD	M18X1.5	G1/2"X14	12	WD-B08	14	14	28	27	22			
P1CB-22-04VD	M22X1.5	G1/4"X19	15	WD-B04	12	13	28	24	27			
P1CB-22-06VD	M22X1.5	G3/8"X19	15	WD-B06	12	13.5	28	24	27			
P1CB-22-08VD	M22X1.5	G1/2"X14	15	WD-B08	14	14	29	27	27			
P1CB-22-12VD	M22X1.5	G3/4"X14	15	WD-B12	16	15	29	32	27			
P1CB-26-08VD	M26X1.5	G1/2"X14	18	WD-B08	14	14.5	31	27	32			
P1CB-26-12VD	M26X1.5	G3/4"X14	18	WD-B12	16	14.5	31	32	32			
P1CB-30-12VD	M30X2	G3/4"X14	22	WD-B12	16	16.5	33	32	36	16		
P1CB-36-16VD	M36X2	G1"X11	28	WD-B16	18	17.5	34	41	41			
P1CB-45-20VD	M45X2	G1.1/4"X11	35	WD-B20	20	17.5	39	50	50	L		
P1CB-52-24VD	M52X2	G1.1/2"X11	42	WD-B24	22	19	42	55	60			
P1DB-14-04VD	M14X1.5	G1/4"X19	6	WD-B04	12	15		19	17	63		
P1DB-16-04VD	M16X1.5	G1/4"X19	8	WD-B04	12	15	30	19	19			
P1DB-16-06VD	M16X1.5	G3/8"X19	8	WD-B06	12	15.5	30	22	19			
P1DB-18-04VD	M18X1.5	G1/4"X19	10	WD-B04	12	14.5	31	19	22			
P1DB-18-06VD	M18X1.5	G3/8"X19	10	WD-B06	12	14.5	31	22	22			
P1DB-18-08VD	M18X1.5	G1/2"X14	10	WD-B08	14	17.5	34	27	22			
P1DB-20-04VD	M20X1.5	G1/4"X19	12	WD-B04	12	16.5	33	22	24		S	
P1DB-20-06VD	M20X1.5	G3/8"X19	12	WD-B06	12	15	33	22	24			
P1DB-20-08VD	M20X1.5	G1/2"X14	12	WD-B08	14	17.5	34	27	24			
P1DB-22-08VD	M22X1.5	G1/2"X14	14	WD-B08	14	19	37	27	27			
P1DB-24-06VD	M24X1.5	G3/8"X19	16	WD-B06	12	18	36.5	27	30		40	
P1DB-24-08VD	M24X1.5	G1/2"X14	16	WD-B08	14	18.5	37	27	30			
P1DB-24-12VD	M24X1.5	G3/4"X14	16	WD-B12	16	20.5	39	32	30			
P1DB-30-12VD	M30X2	G3/4"X14	20	WD-B12	16	20.5	42	32	36			
P1DB-36-08VD	M36X2	G1/2"X14	25	WD-B08	14	23	47	41	46	S		
P1DB-36-12VD	M36X2	G3/4"X14	25	WD-B12	16	23	47	41	46			
P1DB-36-16VD	M36X2	G1"X11	25	WD-B16	16	23	47	41	46			
P1DB-42-20VD	M42X2	G1.1/4"X11	30	WD-B20	20	23.5	50	50	50			
P1DB-52-24VD	M52X2	G1.1/2"X11	38	WD-B24	22	26	57	55	60			31.5 S

Note: In case if you are interested to order the adapter in complete set with cutting ring and nut, it is necessary to insert suffix "RN" after our part NO., for example P1DB-20-08VD/RN.

JIC 74° CONE SEALING



**P1CJ
P1DJ**

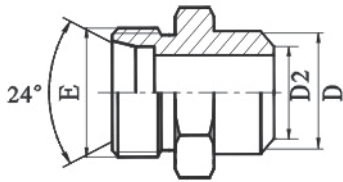


**P1CJ-RN
P1DJ-RN**

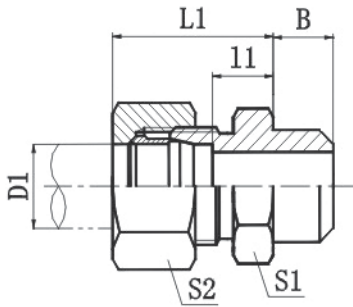
PART NO.	THREAD		TUBE OD.	DIMENSIONS						MPa
	E	F	D1	B	I1	L1	S1	S2		
P1CJ-12-04	M12X1.5	7/16"X20	6	14	9	24	14	14	31.5	
P1CJ-14-04	M14X1.5	7/16"X20	8	14	8	23	15	17		
P1CJ-14-06	M14X1.5	9/16"X18	8	14.1	8	23	15	17		
P1CJ-16-06	M16X1.5	9/16"X18	10	14.1	9	24	17	19		
P1CJ-18-06	M18X1.5	9/16"X18	12	14.1	10	25	19	22		
P1CJ-18-08	M18X1.5	3/4"X16	12	16.7	10	25	22	22		
P1CJ-22-08	M22X1.5	3/4"X16	15	16.7	10.8	26	24	27		
P1CJ-22-10	M22X1.5	7/8"X14	15	19.3	11	26	24	27		
P1CJ-26-10	M26X1.5	7/8"X14	18	19.3	11.5	28	27	32	16	
P1CJ-26-12	M26X1.5	1.1/16"X12	18	21.9	11.6	28	30	32		
P1CJ-30-12	M30X2	1.1/16"X12	22	21.9	13.5	30	32	36		
P1CJ-36-16	M36X2	1.5/16"X12	28	23.1	14.5	31	41	41		
P1CJ-45-20	M45X2	1.5/8"X12	35	24.3	14.5	36	46	50		
P1CJ-52-20	M52X2	1.5/8"X12	42	24.3	16	39	55	60		
P1CJ-52-24	M52X2	1.7/8"X12	42	27.5	16	39	55	60		
P1DJ-14-04	M14X1.5	7/16"X20	6	14	11	26	14	14		63
P1DJ-16-04	M16X1.5	7/16"X20	8	14	13	28	17	19		
P1DJ-16-06	M16X1.5	9/16"X18	8	14.1	12.9	28	17	34		
P1DJ-18-04	M18X1.5	7/16"X20	10	14	12.5	29	19	22		
P1DJ-18-06	M18X1.5	9/16"X18	10	14.1	12.5	29	19	22		
P1DJ-20-06	M20X1.5	9/16"X18	12	14.1	14.5	31	22	24		
P1DJ-20-08	M20X1.5	3/4"X16	12	16.7	14.3	31	22	24		
P1DJ-22-08	M22X1.5	3/4"X16	14	16.7	16	34	24	27		
P1DJ-24-08	M24X1.5	3/4"X16	16	16.7	15.5	34	27	30	40	
P1DJ-24-10	M24X1.5	7/8"X16	16	19.3	15.5	34	27	30		
P1DJ-30-12	M30X2	1.1/16"X12	20	21.9	17.5	39	32	36		
P1DJ-36-12	M36X2	1.1/16"X12	25	21.9	19	43	38	46		
P1DJ-36-16	M36X2	1.5/16"X12	25	23.1	19	43	38	46		
P1DJ-42-20	M42X2	1.5/8"X12	30	24.3	20.5	47	46	50		
P1DJ-52-24	M52X2	1.7/8"X12	38	27.5	23	54	55	60		
										31.5 S

Note: In case if you are interested to order the adapter in complete set with cutting ring and nut, it is necessary to add suffix "RN" after our part NO., for example P1DJ-20-08RN.

WELD FITTINGS



P1CW
P1DW

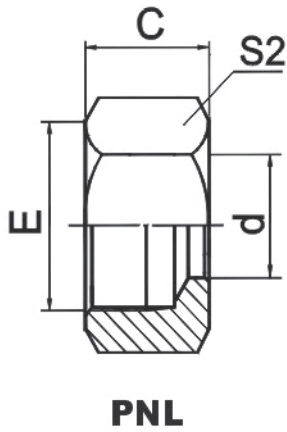


P1CW-RN
P1DW-RN

PART NO.	THREAD		TUBE O.D.		DIMENSIONS						MPa
	E		D1	D2	B	D	l1	L1	S1	S2	
P1CW-12-06	M12X1.5		6	6	7	10	7	22	12	14	31.5 L
P1CW-14-08	M14X1.5		8	8	8	12	8	23	14	17	
P1CW-16-10	M16X1.5		10	10	8	14	9	24	17	19	
P1CW-18-12	M18X1.5		12	12	8	16	10	25	19	22	
P1CW-22-15	M22X1.5		15	15	10	19	11	26	22	27	
P1CW-26-18	M26X1.5		18	18	10	22	11.5	28	27	32	
P1CW-26-22	M26X1.5		18	22	10	27	13.5	28	27	32	16 L
P1CW-30-22	M30X2		22	22	12	27	13.5	30	32	36	
P1CW-30-25	M30X2		22	25	12	31	13.5	30	32	36	
P1CW-36-28	M36X2		28	28	12	32	16.5	33	38	41	40 S
P1CW-45-35	M45X2		35	35	14	40	14.5	36	46	50	
P1CW-52-42	M52X2		42	42	16	46	16	39	55	60	31.5 S
P1DW-14-06	M14X1.5		6	6	7	11	11	26	14	17	
P1DW-16-08	M16X1.5		8	8	8	13	13	28	17	19	
P1DW-18-10	M18X1.5		10	10	8	15	12.5	29	19	22	
P1DW-20-12	M20X1.5		12	12	10	17	14.5	31	22	24	
P1DW-22-14	M22X1.5		14	14	10	19	16	34	24	27	
P1DW-24-16	M24X1.5		16	16	10	21	15.5	34	27	30	
P1DW-30-20	M30X2		20	20	12	26	17.5	39	32	36	
P1DW-36-25	M36X2		25	25	12	31	20	44	41	46	
P1DW-42-30	M42X2		30	30	14	36	20.5	47	46	50	
P1DW-52-38	M52X2		38	38	16	44	23	54	55	60	

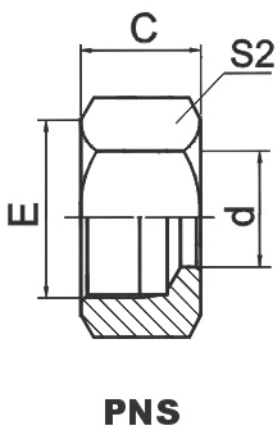
Note: In case if you are interested to order the adapter in complete set with cutting ring and nut, it is necessary to insert suffix "RN" after our part NO., for example P1DW-20-12RN.

RETAINING NUT



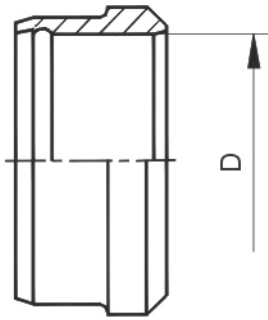
PART NO.	THREAD		TUBE O.D.	DIMENSIONS						MPa
	E			C	d	S2				
NL-12	M12X1.5		6	14.5	6	14				
NL-14	M14X1.5		8	14.5	8	17				
NL-16	M16X1.5		10	15.5	10	19				
NL-18	M18X1.5		12	15.5	12	22				
NL-22	M22X1.5		15	17	15	27				
NL-26	M26X1.5		18	18	18	32				
NL-30	M30X2		22	20	22	36				
NL-36	M36X2		28	21	28	41				
NL-45	M45X2		35	24	35	50				
NL-52	M52X2		42	24	42	60				

RETAINING NUT



PART NO.	THREAD		TUBE O.D.	DIMENSIONS						MPa
	E			C	d	S2				
NS-14	M14X1.5		6	16.5	6	17				
NS-16	M16X1.5		8	16.5	8	19				
NS-18	M18X1.5		10	17.5	10	22				
NS-20	M20X1.5		12	17.5	12	24				
NS-22	M22X1.5		14	20.5	14	27				
NS-24	M24X1.5		16	20.5	16	30				
NS-30	M30X2		20	24	20	36				
NS-36	M36X2		25	27	25	46				
NS-42	M42X2		30	29	30	50				
NS-52	M52X2		38	32.5	38	60				

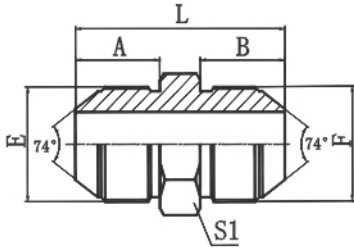
PROFILE RING



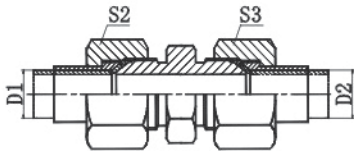
PRL PRS

PART NO.			TUBE O.D.		DIMENSIONS				MPa
RL-06			6						
RL-08			8						
RL-10			10						
RL-12			12						
RL-15			15						
RL-18			18						
RL-22			22						
RL-28			28						
RL-35			35						
RL-42			42						
RS-06			6						
RS-08			8						
RS-10			10						
RS-12			12						
RS-14			14						
RS-16			16						
RS-20			20						
RS-25			25						
RS-30			30						
RS-38			38						

METRIC MALE 74° CONE



P1Q

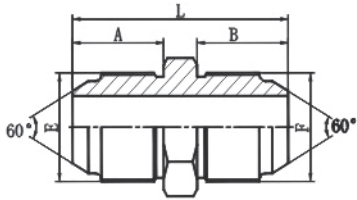


P1Q-RN

PART NO.	THREAD		HOSE BORE		DIMENSIONS				
	E	F	D1,D2		A	B	L	S1	S2,S3
P1Q-10	M10X1	M10X1	5		12	12	30	12	14
P1Q-12	M12X1.5	M12X1.5	6		15.7	15.7	37.5	14	14
P1Q-14	M14X1.5	M14X1.5	8		17	17	40	17	17
P1Q-16	M16X1.5	M16X1.5	10		18	18	42	17	19
P1Q-18	M18X1.5	M18X1.5	12		18	18	42	19	22
P1Q-22	M22X1.5	M22X1.5	14		19.5	19.5	47	24	27
P1Q-24	M24X1.5	M24X1.5	16		20	20	50	27	30
P1Q-27	M27X1.5	M27X1.5	18		20	20	50	30	32
P1Q-30	M30X1.5	M30X1.5	20		23	23	57	32	36
P1Q-30E	M30X2	M30X2	20		26	26	63	32	36
P1Q-33	M33X2	M33X2	22		26	26	63	36	38
P1Q-36	M36X2	M36X2	25		26	26	63	38	41
P1Q-39	M39X2	M39X2	28		26	26	65	41	46
P1Q-42	M42X2	M42X2	32		28.5	28.5	70	46	50
P1Q-45	M45X2	M45X2	34		28.5	28.5	70	46	55

Note: In case is you are interested to order the adapter in complete set with sleeve and nut, it is necessary to insert suffix "RN" after our part NO., for example P1Q-18NR, The sleeve NO., is NB500-Q and the unt NO., is NB200-Q.

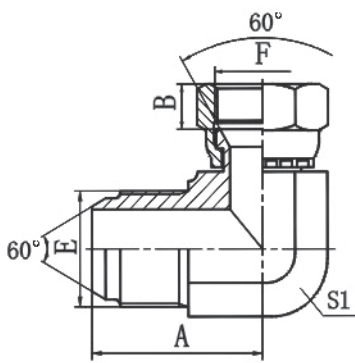
JIC METRIC MALE 60° CONE



P1K

PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	L	S1	
1K-14	M14X1.5	M14X1.5	17	17	40	17	
1K-16	M16X1.5	M16X1.5	18	18	42	17	
1K-18	M18X1.5	M18X1.5	18	18	42	19	
1K-20	M20X1.5	M20X1.5	20	20	48	22	
1K-22	M22X1.5	M22X1.5	20	20	48	24	
1K-24	M24X1.5	M24X1.5	21.5	21.5	53	27	
1K-30	M30X1.5	M30X1.5	26	26	63	32	
1K-33	M33X1.5	M33X1.5	30	30	71	36	
1K-36	M36X1.5	M36X1.5	33	33	79	41	
1K-42	M42X1.5	M42X1.5	36	36	85	46	

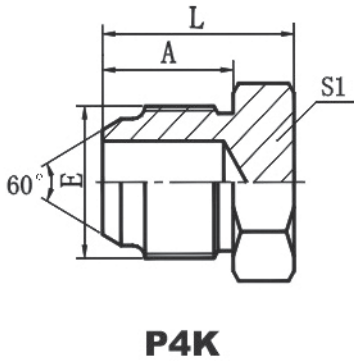
90° ELBOW JIS METRIC 60° CONE



P2K9

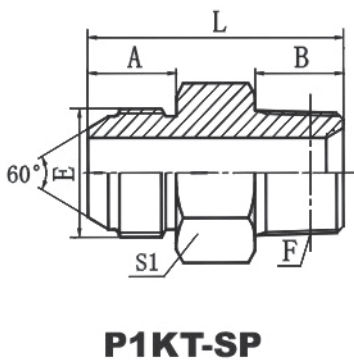
PART NO.	THREAD		DIMENSIONS			
	E	F	A	B	S1	S2
2K9-14	M14X1.5	M14X1.5	29	10.5	14	19
2K9-16	M16X1.5	M16X1.5	31.5	10	16	22
2K9-18	M18X1.5	M18X1.5	33.8	11.5	19	24
2K9-22	M22X1.5	M22X1.5	38	14	22	27
2K9-24	M24X1.5	M24X1.5	41.2	15	24	30
2K9-30-24	M30X1.5	M24X1.5	48	15	30	30
2K9-30	M30X1.5	M30X1.5	48	18.3	30	36
2K9-33	M33X1.5	M33X1.5	55	21.3	33	41

JIS METRIC 60° CONE PLUG



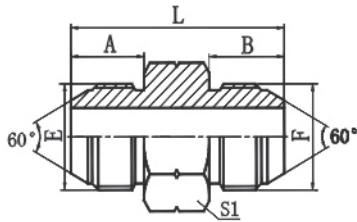
PART NO.	THREAD			DIMENSIONS				
	E			A	L	S1		
4K-14	M14X1.5			17	23	17		
4K-16	M16X1.5			18	24	17		
4K-18	M18X1.5			18	25	19		
4K-20	M20X1.5			20	28	22		
4K-22	M22X1.5			20	28	24		
4K-24	M24X1.5			21.5	31.5	27		
4K-30	M30X1.5			26	37	32		
4K-33	M33X1.5			30	41	36		

METRIC MALE 60° CONE / BSPT MALE



PART NO.	THREAD			DIMENSIONS				
	E	F		A	B	L	S1	
1KT-14-04SP	M14X1.5	R1/4"X19		17	14.5	37.5	17	
1KT-14-06SP	M14X1.5	R3/8"X19		17	15	38	19	
1KT-16-06SP	M16X1.5	R3/8"X19		18	15	39	19	
1KT-18-06SP	M18X1.5	R3/8"X19		18	15	39	19	
1KT-20-06SP	M20X1.5	R3/8"X19		20	15	43	22	
1KT-22-06SP	M22X1.5	R3/8"X19		20	15	43	24	
1KT-22-08SP	M22X1.5	R1/2"X14		20	20	48	24	
1KT-24-08SP	M24X1.5	R1/2"X14		21.5	20	51.5	27	
1KT-24-12SP	M24X1.5	R3/4"X14		21.5	20	51.5	30	
1KT-30-12SP	M30X1.5	R3/4"X14		26	20	57	32	
1KT-33-16SP	M33X1.5	R1"X11		30	25.5	66.5	36	
1KT-36-20SP	M36X1.5	R1.1/4"X11		33	26.5	72.5	46	
1KT-42-24SP	M42X1.5	R1.1/2"X11		36	26.5	77.5	50	

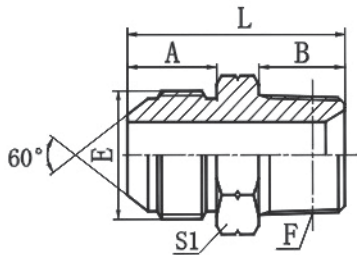
JIC GAS MALE 60° CONE



P1S

PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	L	S1	
1S-02	G 1/8"X28	G 1/8"X28	12	12	30	14	
1S-04	G 1/4"X19	G 1/4"X19	16	16	38	17	
1S-06	G 3/8"X19	G 3/8"X19	18	18	42	19	
1S-08	G 1/2"X14	G 1/2"X14	20	20	48	22	
1S-12	G 3/4"X14	G 3/4"X14	22	22	54	30	
1S-16	G 1"X11	G 1"X11	24	24	59	36	
1S-20	G 1.1/4"X11	G 1.1/4"X11	27	27	67	46	
1S-24	G 1.1/2"X11	G 1.1/2"X11	27	27	69	50	
1S-32	G 2"X11	G 2"X11	30	30	77	65	

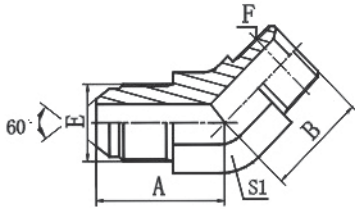
JIC GAS MALE 60° CONE / BSPT MALE



P1ST-SP

PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	L	S1	
1ST-02SP	G 1/8"X28	R 1/8"X28	12	10	28	14	
1ST-02-04SP	G 1/8"X28	R 1/4"X19	12	14.5	32.5	17	
1ST-04SP	G 1/4"X19	R 1/4"X19	16	14.5	36.5	17	
1ST-04-02SP	G 1/4"X19	R 1/8"X28	16	10	32	17	
1ST-04-06SP	G 1/4"X19	R 3/8"X19	16	15	37	19	
1ST-04-08SP	G 1/4"X19	R 1/2"X14	16	20	44	22	
1ST-06SP	G 3/8"X19	R 3/8"X19	18	15	39	19	
1ST-06-04SP	G 3/8"X19	R 1/4"X19	18	14.5	40.5	22	
1ST-06-08SP	G 3/8"X19	R 1/2"X14	18	20	46	22	
1ST-08SP	G 1/2"X14	R 1/2"X14	20	20	48	22	
1ST-08-04SP	G 1/2"X14	R 1/4"X19	20	14.5	42.5	22	
1ST-08-06SP	G 1/2"X14	R 3/8"X19	20	15	45	27	
1ST-08-12SP	G 1/2"X14	R 3/4"X14	20	20	50	27	
1ST-12SP	G 3/4"X14	R 3/4"X14	22	20	53	30	
1ST-12-08SP	G 3/4"X14	R 1/2"X14	22	20	52	30	
1ST-12-16SP	G 3/4"X14	R 1"X11	22	25.5	58.5	36	
1ST-16SP	G 1"X11	R 1"X11	24	25.5	62.5	41	
1ST-16-12SP	G 1"X11	R 3/4"X14	24	20	57	41	
1ST-20SP	G 1.1/4"X11	R 1.1/4"X11	27	26.5	66	46	
1ST-24SP	G 1.1/2"X11	R 1.1/2"X11	27	26.5	67.5	50	
1ST-32SP	G 2"X11	R 2"X11	30	30	77	65	

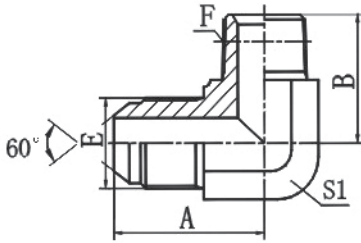
45° ELBOW JIS GAS MALE 60° CONE / BSPT MALE



P1ST4-SP

PART NO.	THREAD		DIMENSIONS						
	E	F			A	B	S1		
1ST4-02SP	G 1/8"X28	R 1/8"X28			19	17	11		
1ST4-02-04SP	G 1/8"X28	R 1/4"X19			19.8	21	14		
1ST4-04SP	G 1/4"X19	R 1/4"X19			24	21	14		
1ST4-04-02SP	G 1/4"X19	R 1/8"X28			24.5	17.5	14		
1ST4-04-06SP	G 1/4"X19	R 3/8"X19			24.5	23	16		
1ST4-04-08SP	G 1/4"X19	R 1/2"X14			26.5	29.5	22		
1ST4-06SP	G 3/8"X19	R 3/8"X19			26	23	16		
1ST4-06-04SP	G 3/8"X19	R 1/4"X19			26	21	16		
1ST4-06-08SP	G 3/8"X19	R 1/2"X14			28.5	29.5	22		
1ST4-08SP	G 1/2"X14	R 1/2"X14			31	29.5	22		
1ST4-08-06SP	G 1/2"X14	R 3/8"X19			30.5	25	22		
1ST4-12SP	G 3/4"X14	R 3/4"X14			34.5	30.5	27		
1ST4-12-08SP	G 3/4"X14	R 1/2"X14			34	30	27		
1ST4-16SP	G 1"X11	R 1"X11			37.5	38	33		
1ST4-16-12SP	G 1"X11	R 3/4"X14			37.5	32	33		
1ST4-20SP	G 1.1/4"X11	R 1.1/4"X11			44.5	43	41		
1ST4-24SP	G 1.1/2"X11	R 1.1/2"X11			47.5	47	48		
1ST4-32SP	G 2"X11	R 2"X11			54	53	63		

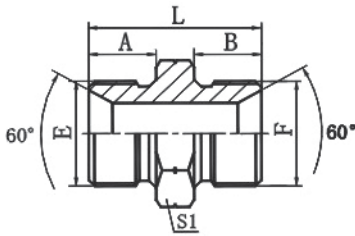
90° ELBOW JIC GAS MALE 60° CONE / BSPT MALE



P1ST9-SP

PART NO.	THREAD		DIMENSIONS					
	E	F	A	B	S1			
1ST9-02SP	G 1/8"X28	R 1/8"X28	21.8	21	11			
1ST9-02-04SP	G 1/8"X28	R 1/4"X19	24.3	25.5	14			
1ST9-04SP	G 1/4"X19	R 1/4"X19	29	25.5	14			
1ST9-04-02SP	G 1/4"X19	R 1/8"X28	29	23.5	14			
1ST9-04-06SP	G 1/4"X19	R 3/8"X19	30	28.5	16			
1ST9-06SP	G 3/8"X19	R 3/8"X19	31.5	28.5	16			
1ST9-06-04SP	G 3/8"X19	R 1/4"X19	31.5	26.5	16			
1ST9-06-08SP	G 3/8"X19	R 1/2"X14	36	36	22			
1ST9-08SP	G 1/2"X14	R 1/2"X14	38	36	22			
1ST9-08-06SP	G 1/2"X14	R 3/8"X19	38	32.5	22			
1ST9-08-12SP	G 1/2"X14	R 3/4"X14	41	43.5	27			
1ST9-12SP	G 3/4"X14	R 3/4"X14	43	43.5	27			
1ST9-12-08SP	G 3/4"X14	R 1/2"X14	43	39.5	27			
1ST9-12-16SP	G 3/4"X14	R 1"X11	47	50	33			
1ST9-16SP	G 1"X11	R 1"X11	48.5	50	33			
1ST9-20SP	G 1.1/4"X11	R 1.1/4"X11	57	56.5	41			
1ST9-24SP	G 1.1/2"X11	R 1.1/2"X11	61	62.5	48			
1ST9-32SP	G 2"X11	R 2"X11	73.2	74.2	63			

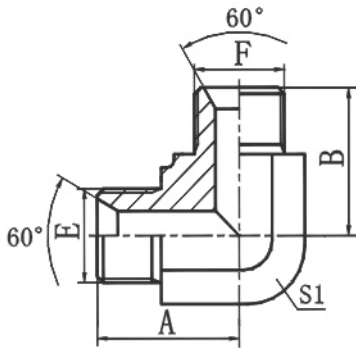
BSP MALE DOUBLE USE FOR 60° SEAT OR BONDED SEAL



P1B

PART NO.	THREAD		DIMENSIONS			
	E	F	A	B	L	S1
P1B-02	G 1/8"X28	G 1/8"X28	10	10	26	14
P1B-02-04	G 1/8"X28	G 1/4"X19	10	12	28	19
P1B-02-06	G 1/8"X28	G 3/8"X19	10	13.5	31.5	22
P1B-02-08	G 1/8"X28	G 1/2"X14	10	16	36	27
P1B-04	G 1/4"X19	G 1/4"X19	12	12	30	19
P1B-04-06	G 1/4"X19	G 3/8"X19	12	13.5	33.5	22
P1B-04-08	G 1/4"X19	G 1/2"X14	12	16	38	27
P1B-04-10	G 1/4"X19	G 5/8"X14	12	17.5	39.5	30
P1B-06	G 3/8"X19	G 3/8"X19	13.5	13.5	33	22
P1B-06-08	G 3/8"X19	G 1/2"X14	13.5	16	39.5	27
P1B-06-10	G 3/8"X19	G 5/8"X14	13.5	17.5	42	30
P1B-06-12	G 3/8"X19	G 3/4"X14	13.5	18.5	43	32
P1B-08	G 1/2"X14	G 1/2"X14	16	16	42	27
P1B-08-10	G 1/2"X14	G 5/8"X14	16	17.5	43.5	30
P1B-08-12	G 1/2"X14	G 3/4"X14	16	18.5	45.5	32
P1B-10	G 5/8"X14	G 5/8"X14	17.5	17.5	45	30
P1B-10-12	G 5/8"X14	G 3/4"X14	17.5	18.5	47	32
P1B-10-16	G 5/8"X14	G 1"X11	17.5	20.5	51.5	41
P1B-12	G 3/4"X14	G 3/4"X14	18.5	18.5	48	32
P1B-12-16	G 3/4"X14	G 1"X11	18.5	20.5	52.5	41
P1B-12-20	G 3/4"X14	G 1.1/4"X11	18.5	20.5	56	50
P1B-16	G 1"X11	G 1"X11	20.5	20.5	54	41
P1B-16-20	G 1"X11	G 1.1/4"X11	20.5	20.5	58	50
P1B-16-24	G 1"X11	G 1.1/2"X11	20.5	23	60.5	55
P1B-20	G 1.1/4"X11	G 1.1/4"X11	20.5	20.5	58	50
P1B-20-24	G 1.1/4"X11	G 1.1/2"X11	20.5	23	60.5	55
P1B-24	G 1.1/2"X11	G 1.1/2"X11	23	23	63	55
P1B-24-32	G 1.1/2"X11	G 2"X11	23	25.5	66.5	70
P1B-32	G 2"X11	G 2"X11	25.5	25.5	68	70
P1B-40	G 2.1/2"X11	G 2.1/2"X11	32	32	81	90
P1B-48	G 3"X11	G 3"X11	36	36	92	100

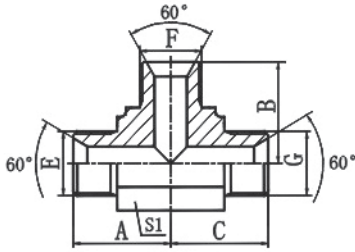
90° ELBOW BSP MALE 60° SEAT



P1B9

PART NO.	THREAD		DIMENSIONS						
	E	F			A	B	S1		
P1B9-02	G1/8"X28	G1/8"X28			19.8	19.8	11		
P1B9-02-04	G1/8"X28	G1/4"X19			23	25	14		
P1B9-04	G1/4"X19	G1/4"X19			24.5	24.5	14		
P1B9-04-06	G1/4"X19	G3/8"X19			26.5	27.5	16		
P1B9-06	G3/8"X19	G3/8"X19			27.5	27.5	16		
P1B9-06-08	G3/8"X19	G1/2"X14			31	34.5	22		
P1B9-08	G1/2"X14	G1/2"X14			34.5	34.5	22		
P1B9-08-12	G1/2"X14	G3/4"X14			37.5	40	27		
P1B9-10	G5/8"X14	G5/8"X14			35	35	22		
P1B9-10-12	G5/8"X14	G3/4"X14			37.5	39	30		
P1B9-12	G3/4"X14	G3/4"X14			40	40	27		
P1B9-12-16	G3/4"X14	G1"X11			43.5	46	33		
P1B9-16	G1"X11	G1"X11			46	46	33		
P1B9-16-20	G1"X11	G1.1/4"X11			50.5	50.5	41		
P1B9-20	G1.1/4"X11	G1.1/4"X11			50.5	50.5	41		
P1B9-20-24	G1.1/4"X11	G1.1/2"X11			54.5	57.5	48		
P1B9-24	G1.1/2"X11	G1.1/2"X11			57.5	57.5	48		
P1B9-32	G2"X11	G2"X11			68	68	63		

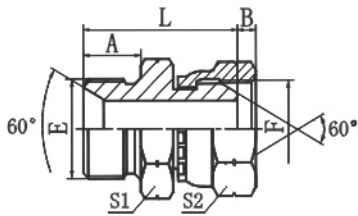
BSP MALE 60° SEAT TEE



PAB

PART NO.	THREAD			DIMENSIONS					
	E	F	G	A	B	C	S1		
AB-02	G1/8"X28	G1/8"X28	G1/8"X28	19.8	19.8	19.8	11		
AB-04	G1/4"X19	G1/4"X19	G1/4"X19	24.5	24.5	24.5	14		
AB-04-06-04	G1/4"X19	G3/8"X19	G1/4"X19	26.5	27.5	26.5	16		
AB-06-08-06	G3/8"X19	G1/4"X19	G3/8"X19	27.5	26.5	27.5	16		
AB-06	G3/8"X19	G3/8"X19	G3/8"X19	27.5	27.5	27.5	16		
AB-06-08-06	G3/8"X19	G1/2"X14	G3/8"X19	31	34.5	31	22		
AB-08-06-08	G1/2"X14	G3/8"X19	G1/2"X14	34.5	31	34.5	22		
AB-08	G1/2"X14	G1/2"X14	G1/2"X14	34.5	34.5	34.5	22		
AB-10	G5/8"X14	G5/8"X14	G5/8"X14	35	35	35	22		
AB-12	G3/4"X14	G3/4"X14	G3/4"X14	40	40	40	27		
AB-12-16-12	G3/4"X14	G1"X11	G3/4"X14	43.5	46	43.5	33		
AB-16-12-16	G1"X11	G3/4"X14	G1"X11	46	43.5	46	33		
AB-16	G1"X11	G1"X11	G1"X11	46	46	46	33		
AB-20	G1.1/4"X11	G1.1/4"X11	G1.1/4"X11	50.5	50.5	50.5	41		
AB-24	G1.1/2"X11	G1.1/2"X11	G1.1/2"X11	57.5	57.5	57.5	48		
AB-32	G2"X11	G2"X11	G2"X11	72.5	72.5	72.5	63		

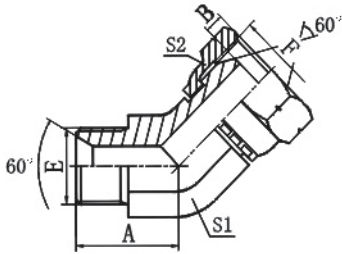
BSP MALE DOUBLE USE FOR 60° SEAT OR BONDED SEAL / BSP FEMALE 60° CONE



P2B

PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	L	S1	S2
P2B-02	G 1/8"X28	G 1/8"X28	10	5.5	25	14	14
P2B-02-04	G 1/8"X28	G 1/4"X19	10	5.5	27	14	19
P2B-04	G 1/4"X19	G 1/4"X19	12	5.5	29	19	19
P2B-04-06	G 1/4"X19	G 3/8"X19	12	6.3	30.5	19	22
P2B-04-08	G 1/4"X19	G 1/2"X14	12	7.5	32	19	27
P2B-06	G 3/8"X19	G 3/8"X19	13.5	6.3	34	22	22
P2B-06-08	G 3/8"X19	G 1/2"X14	13.5	7.5	35.5	22	27
P2B-06-10	G 3/8"X19	G 5/8"X14	13.5	9.5	36	22	30
P2B-08	G 1/2"X14	G 1/2"X14	16	7.5	40	27	27
P2B-08-06	G 1/2"X14	G 3/8"X19	16	6.3	38.5	27	22
P2B-8-12	G 1/2"X14	G 3/4"X14	16	10.9	41	27	32
P2B-10	G 5/8"X14	G 5/8"X14	17.5	9.5	42	30	30
P2B-10-08	G 5/8"X14	G 1/2"X14	17.5	7.5	41.5	30	27
P2B-10-12	G 5/8"X14	G 3/4"X14	17.5	10.9	42.5	30	32
P2B-12	G 3/4"X14	G 3/4"X14	18.5	10.9	44.5	32	32
P2B-12-10	G 3/4"X14	G 5/8"X14	18.5	9.5	44	32	30
P2B-12-16	G 3/4"X14	G 1"X11	18.5	11.7	46	32	41
P2B-16	G 1"X11	G 1"X11	20.5	11.7	50	41	41
P2B-16-12	G 1"X11	G 3/4"X14	20.5	10.9	49	41	32
P2B-16-20	G 1"X11	G 1.1/4"X11	20.5	11	53	41	50
P2B-20	G 1.1/4"X11	G 1.1/4"X11	20.5	11	55	50	50
P2B-20-16	G 1.1/4"X11	G 1"X11	20.5	11.7	52	50	41
P2B-20-24	G 1.1/4"X11	G 1.1/2"X11	20.5	13	55.5	50	55
P2B-24	G 1.1/2"X11	G 1.1/2"X11	23	13	58	55	55
P2B-32	G 2"X11	G 2"X11	25.5	16	63.5	70	70

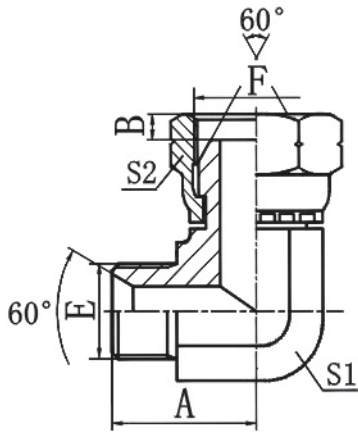
45° ELBOW BSP MALE 60° SEAT / BSP FEMALE 60° CONE



P2B4

PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	S1	S2	
2B4-04	G 1/4"X19	G 1/4"X19	20.3	5.5	14	19	
2B4-04-06	G 1/4"X19	G 3/8"X19	20.3	6.3	14	22	
2B4-06	G 3/8"X19	G 3/8"X19	22	6.3	16	22	
2B4-06-04	G 3/8"X19	G 1/4"X19	22	5.5	16	19	
2B4-08	G 1/2"X14	G 1/2"X14	27	7.5	22	27	
2B4-08-06	G 1/2"X14	G 3/8"X19	27	6.3	22	22	
2B4-10	G 5/8"X14	G 5/8"X14	28.5	9.5	22	30	
2B4-10-08	G 5/8"X14	G 1/2"X14	28.5	7.5	22	27	
2B4-12	G 3/4"X14	G 3/4"X14	31	10.9	27	32	
2B4-16	G 1"X11	G 1"X11	35	11.7	33	41	
2B4-20	G 1.1/4"X11	G 1.1/4"X11	38.5	11	41	50	
2B4-24	G 1.1/2"X11	G 1.1/2"X11	44	13	48	55	
2B4-32	G 2"X11	G 2"X11	51	16	63	70	

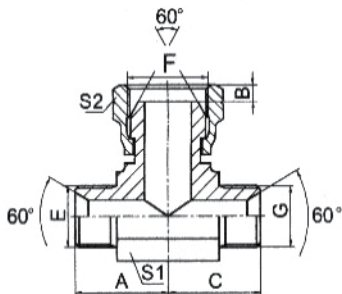
90° ELBOW BSP MALE 60° SEAT / BSP FEMALE 60° CONE



P2B9

PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	S1	S2	
P2B9-02	G 1/8"X28	G 1/8"X28	19.8	5.5	11	14	
P2B9-04	G 1/4"X19	G 1/4"X19	24.5	5.5	14	19	
P2B9-04-06	G 1/4"X19	G 3/8"X19	25	6.3	14	22	
P2B9-06	G 3/8"X19	G 3/8"X19	27.5	6.3	16	22	
P2B9-06-04	G 3/8"X19	G 1/4"X19	27.5	5.5	16	19	
P2B9-08	G 1/2"X14	G 1/2"X14	34.5	7.5	22	27	
P2B9-08-06	G 1/2"X14	G 3/8"X19	34.5	6.3	22	22	
P2B9-10	G 5/8"X14	G 5/8"X14	35	9.5	22	30	
P2B9-10-08	G 5/8"X14	G 1/2"X14	35	7.5	22	27	
P2B9-12	G 3/4"X14	G 3/4"X14	40	10.9	27	32	
P2B9-16	G 1"X11	G 1"X11	46	11.7	33	41	
P2B9-20	G 1.1/4"X11	G 1.1/4"X11	50.5	11	41	50	
P2B9-24	G 1.1/2"X11	G 1.1/2"X11	57.5	13	48	55	
P2B9-32	G 2"X11	G 2"X11	72.5	16	63	70	

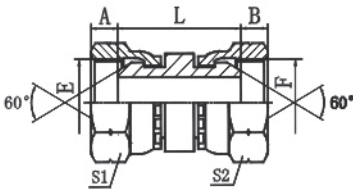
BSP MALE 60° SEAT / BSP FEMALE 60° CONE BRANCH TEE



PBB

PART NO.	THREAD			DIMENSIONS				
	E	F	G	A	B	C	S1	S2
BB-02	G1/8"X28	G1/8"X28	G1/8"X28	19.8	5.5	19.8	11	14
BB-04	G1/4"X19	G1/4"X19	G1/4"X19	24.5	5.5	24.5	14	19
BB-06	G3/8"X19	G3/8"X19	G3/8"X19	27.5	6.3	27.5	16	22
BB-08	G1/2"X14	G1/2"X14	G1/2"X14	34.5	7.5	34.5	22	27
BB-12	G3/4"X14	G3/4"X14	G3/4"X14	40	10.9	40	27	32
BB-16	G1"X11	G1"X11	G1"X11	46	11.7	46	33	41
BB-20	G1.1/4"X11	G1.1/4"X11	G1.1/4"X11	50.5	11	50.5	41	50
BB-24	G1.1/2"X11	G1.1/2"X11	G1.1/2"X11	57.5	13	57.5	48	55
BB-32	G2"X11	G2"X11	G2"X11	72.5	16	72.5	63	70

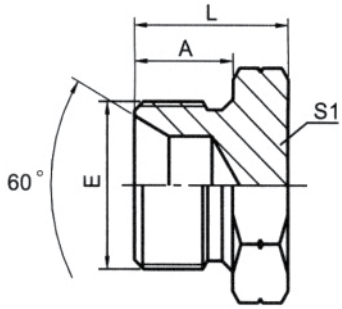
BSP FEMALE 60° CONE



P3B

PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	L	S1	S2
P3B-02	G1/8"X28	G1/8"X28	5.5	5.5	21	14	14
P3B-02-04	G1/8"X28	G1/4"X19	5.5	5.5	23	14	19
P3B-04	G1/4"X19	G1/4"X19	5.5	5.5	25	19	19
P3B-04-06	G1/4"X19	G3/8"X19	5.5	6.3	26.5	19	22
P3B-04-08	G1/4"X19	G1/2"X14	5.5	7.5	28.5	19	27
P3B-06	G3/8"X19	G3/8"X19	6.3	6.3	27	22	22
P3B-06-08	G3/8"X19	G1/2"X14	6.3	7.5	29.5	22	27
P3B-08	G1/2"X14	G1/2"X14	7.5	7.5	31	27	27
P3B-08-10	G1/2"X14	G5/8"X14	7.5	9.5	31.5	27	30
P3B-08-12	G1/2"X14	G3/4"X14	7.5	10.9	32.5	27	32
P3B-10	G5/8"X14	G5/8"X14	9.5	9.5	31.5	30	30
P3B-10-12	G5/8"X14	G3/4"X14	9.5	10.9	33	30	32
P3B-12	G3/4"X14	G3/4"X14	10.9	10.9	33.5	32	32
P3B-12-16	G3/4"X14	G1"X11	10.9	11.7	35	32	41
P3B-16	G1"X11	G1"X11	11.7	11.7	36.5	41	41
P3B-16-20	G1"X11	G1.1/4"X11	11.7	11	37.5	41	50
P3B-20	G1.1/4"X11	G1.1/4"X11	11	11	40	50	50
P3B-24	G1.1/2"X11	G1.1/2"X11	13	13	42	55	55
P3B-32	G2"X11	G2"X11	16	16	47	70	70

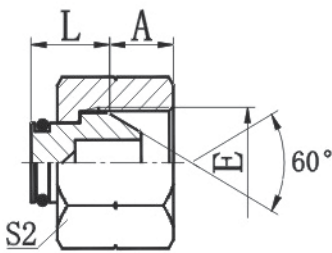
BSP MALE 60° SEAT PLUG



P4B

PART NO.	THREAD			DIMENSIONS				
	E			A	B	S1		
4B-02	G 1/8"X28			10	16	14		
4B-04	G 1/4"X19			12	18	19		
4B-06	G 3/8"X19			13.5	21.5	22		
4B-08	G 1/2"X14			16	26	27		
4B-10	G 5/8"X14			17.5	27.5	30		
4B-12	G 3/4"X14			18.5	29.5	32		
4B-16	G 1"X11			20.5	34	41		
4B-20	G 1.1/4"X11			20.5	37.5	50		
4B-24	G 1.1/2"X11			23	40	55		
4B-32	G 2"X11			25.5	43.5	70		

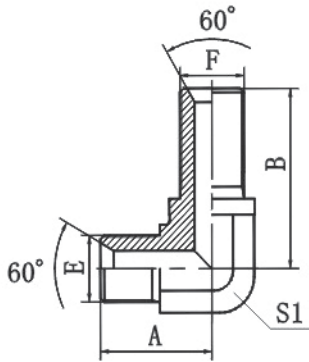
BSP FEMALE 60° CONE PLUG



P9B

PART NO.	THREAD			DIMENSIONS				
	E			A	L	S2		
9B-02	G 1/8"X28			5.5	11.5	14		
9B-04	G 1/4"X19			5.5	13.5	19		
9B-06	G 3/8"X19			6.3	14.5	22		
9B-08	G 1/2"X14			7.5	16	27		
9B-10	G 5/8"X14			9.5	16.5	30		
9B-12	G 3/4"X14			10.9	17.5	32		
9B-16	G 1"X11			11.7	19	41		
9B-20	G 1.1/4"X11			11	21.5	50		
9B-24	G 1.1/2"X11			13	22	55		
9B-32	G 2"X11			16	26.5	70		

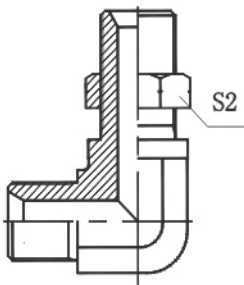
90° ELBOW BSP MALE 60° SEAT BULKHEAD



P6B9

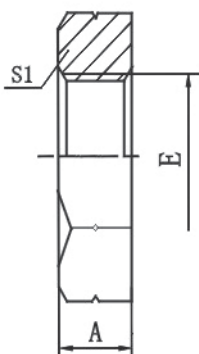
PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	S1	S2	
6B9-04	G 1/4"X19	G 1/4"X19	25	51	16	19	
6B9-06	G 3/8"X19	G 3/8"X19	29	53.5	19	22	
6B9-08	G 1/2"X14	G 1/2"X14	34.5	58.5	22	22	
6B9-12	G 3/4"X14	G 3/4"X14	41	64	30	32	
6B9-16	G 1"X11	G 1"X11	47.5	71	33	41	

Note: In case if you are interested to order the adapter in complete set with lock nut, it is necessary to insert suffix "LN" after our part no., for example 6B9-16LN. The lock nut NO. is 8B.



P6B9-LN

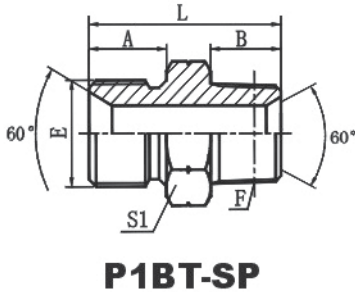
BSP LOCK NUT



P8B

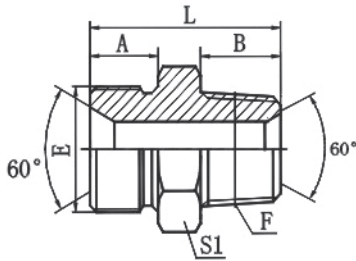
PART NO.	THREAD		DIMENSIONS				
	E		A	S1			
8B-02	G 1/8"X28		5.5	14			
8B-04	G 1/4"X19		6.5	19			
8B-06	G 3/8"X19		7	22			
8B-08	G 1/2"X14		9	27			
8B-10	G 5/8"X14		9	30			
8B-12	G 3/4"X14		10.5	32			
8B-16	G 1"X11		10.5	41			
8B-20	G 1.1/4"X11		10.5	50			
8B-24	G 1.1/2"X11		10.5	55			
8B-32	G 2"X11		10.5	70			

BSP MALE DOUBLE USE FOR 60° SEAT OR BONDED SEAL / BSPT MALE



PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	L	S1	
1BT-02SP	G 1/8"X28	R 1/8"X28	10	10	26	14	
1BT-02-04SP	G 1/8"X28	R 1/4"X19	10	14.5	30.5	14	
1BT-04SP	G 1/4"X19	R 1/4"X19	12	14.5	32	19	
1BT-04-02SP	G 1/4"X19	R 1/8"X28	12	10	28	19	
1BT-04-06SP	G 1/4"X19	R 3/8"X19	12	15	32	19	
1BT-04-08SP	G 1/4"X19	R 1/2"X14	12	20	40	24	
1BT-06SP	G 3/8"X19	R 3/8"X19	13.5	15	35.5	22	
1BT-06-04SP	G 3/8"X19	R 1/4"X19	13.5	14.5	35.5	22	
1BT-06-08SP	G 3/8"X19	R 1/2"X14	13.5	20	40.5	24	
1BT-08SP	G 1/2"X14	R 1/2"X14	16	20	45	27	
1BT-08-04SP	G 1/2"X14	R 1/4"X19	16	14.5	40.5	27	
1BT-08-06SP	G 1/2"X14	R 3/8"X19	16	15	40	27	
1BT-08-12SP	G 1/2"X14	R 3/4"X14	16	20	45	30	
1BT-10-06SP	G 5/8"X14	R 3/8"X19	17.5	15	41.5	30	
1BT-10-08SP	G 5/8"X14	R 1/2"X14	17.5	20	46.5	30	
1BT-10-12SP	G 5/8"X14	R 3/4"X14	17.5	20	46.5	30	
1BT-10-16SP	G 5/8"X14	R 1"X11	17.5	25.5	54	36	
1BT-12SP	G 3/4"X14	R 3/4"X14	18.5	20	48.5	32	
1BT-12-08SP	G 3/4"X14	R 1/2"X14	18.5	20	49.5	32	
1BT-12-16SP	G 3/4"X14	R 1"X11	18.5	25.5	53.5	36	
1BT-12-20SP	G 3/4"X14	R 1.1/4"X11	18.5	26.5	58	46	
1BT-16SP	G 1"X11	R 1"X11	20.5	25.5	58	41	
1BT-16-12SP	G 1"X11	R 3/4"X14	20.5	20	53	41	
1BT-16-20SP	G 1"X11	R 1.1/4"X11	20.5	26.5	60	46	
1BT-20SP	G 1.1/4"X11	R 1.1/4"X11	20.5	26.5	62	50	
1BT-20-12SP	G 1.1/4"X11	R 3/4"X14	20.5	20.5	56	50	
1BT-20-16SP	G 1.1/4"X11	R 1"X11	20.5	25.5	61	50	
1BT-20-24SP	G 1.1/4"X11	R 1.1/2"X11	20.5	26.5	62	50	
1BT-24SP	G 1.1/2"X11	R 1.1/2"X11	23	26.5	64.5	55	
1BT-24-16SP	G 1.1/2"X11	R 1"X11	23	25.5	63.5	55	
1BT-24-20SP	G 1.1/2"X11	R 1.1/4"X11	23	26.5	64.5	55	
1BT-24-32SP	G 1.1/2"X11	R 2"X11	23	30	70	65	
1BT-32SP	G 2"X11	R 2"X11	25.5	30	72.5	70	
1BT-32-20SP	G 2"X11	R 1.1/4"X11	25.5	27	68.5	70	
1BT-32-24SP	G 2"X11	R 1.1/2"X11	25.5	26.5	68.5	70	
1BT-40SP	G 2.1/2"X11	R 2.1/2"X11	32	34	83	90	
1BT-48SP	G 3"X11	G 3"X11	36	38	94	100	

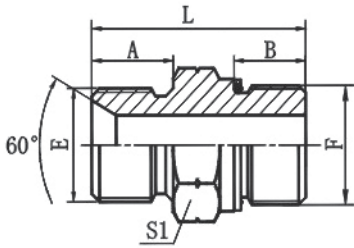
BSP MALE DOUBLE USE FOR 60° SEAT OR BONDED SEAL / NPT MALE



P1BN

PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	L	S1	
1BN-02	G 1/8"X28	Z 1/8"X27	10	10.5	26	14	
1BN-02-04	G 1/8"X28	Z 1/4"X18	10	15	31	17	
1BN-04	G 1/4"X19	Z 1/4"X18	12	15	33	19	
1BN-04-02	G 1/4"X19	Z 1/8"X27	12	10.5	28	19	
1BN-04-06	G 1/4"X19	Z 3/8"X18	12	16	34	19	
1BN-04-08	G 1/4"X19	Z 1/2"X14	12	19.5	39.5	22	
1BN-06	G 3/8"X19	Z 3/8"X18	13.5	16	37.5	22	
1BN-06-04	G 3/8"X19	Z 1/4"X19	13.5	15	36	22	
1BN-06-08	G 3/8"X19	Z 1/2"X14	13.5	19.5	41	22	
1BN-06-12	G 3/8"X19	Z 3/4"X14	13.5	19.5	43	30	
1BN-08	G 1/2"X14	Z 1/2"X14	16	19.5	45.5	27	
1BN-08-06	G 1/2"X14	Z 3/8"X18	16	16	42	27	
1BN-08-12	G 1/2"X14	Z 3/4"X14	16	19.5	45.5	30	
1BN-08-16	G 1/2"X14	Z 1"X11.5	16	25.5	52.5	36	
1BN-10-08	G 5/8"X14	Z 1/2"X14	17.5	19.5	47	30	
1BN-10-12	G 5/8"X14	Z 3/4"X14	17.5	19.5	47	30	
1BN-12	G 3/4"X14	Z 3/4"X14	18.5	19.5	49	32	
1BN-12-06	G 3/4"X14	Z 3/8"X18	18.5	16	45.5	32	
1BN-12-08	G 3/4"X14	Z 1/2"X14	18.5	19.5	49	32	
1BN-12-16	G 3/4"X14	Z 1"X11.5	18.5	25.5	55	36	
1BN-16	G 1"X11	Z 1"X11.5	20.5	25.5	59	41	
1BN-16-12	G 1"X11	Z 3/4"X14	20.5	19.5	53	41	
1BN-16-20	G 1"X11	Z 1.1/4"X11.5	20.5	26.5	60	46	
1BN-20	G 1.1/4"X11	Z 1.1/4"X11.5	20.5	26.5	62	50	
1BN-20-16	G 1.1/4"X11	Z 1"X11.5	20.5	25.5	61	50	
1BN-20-24	G 1.1/4"X11	Z 1.1/2"X11.5	20.5	27.5	63	50	
1BN-24	G 1.1/2"X11	Z 1.1/2"X11.5	23	27.5	65.5	55	
1BN-24-20	G 1.1/2"X11	Z 1.1/4"X11.5	23	26.5	64.5	55	
1BN-24-32	G 1.1/2"X11	Z 2"X11.5	23	27.5	67.5	65	
1BN-32	G 2"X11	Z 2"X11.5	25.5	27.5	70	70	
1BN-32-20	G 2"X11	Z 1.1/4"X1.51	25.5	26.5	69	70	
1BN-32-24	G 2"X11	Z 1.1/2"X1.51	25.5	27.5	70	70	

BSP MALE DOUBLE USE FOR 60° SEAT OR BONDED SEAL / BSP MALE O-RING

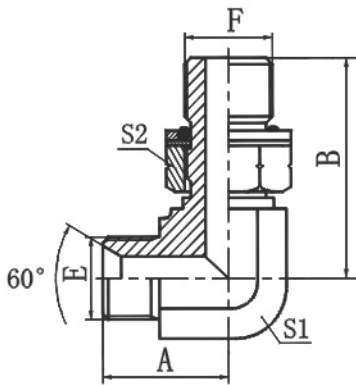


P1BG

PART NO.	THREAD		O-RING	DIMENSIONS					
	E	F		A	B	L	S1		
P1BG-02	G1/8"X28	G1/8"X28	O011	10	9.5	27	14		
P1BG-04	G1/4"X19	G1/4"X19	O111	12	11	31	19		
P1BG-04-06	G1/4"X19	G3/8"X19	O113	12	11.5	32	22		
P1BG-06	G3/8"X19	G3/8"X19	O113	13.5	11.5	33	22		
P1BG-06-04	G3/8"X19	G1/4"X19	O111	13.5	11	32.5	22		
P1BG-06-08	G3/8"X19	G1/2"X14	O115	13.5	14	38.5	27		
P1BG-08	G1/2"X14	G1/2"X14	O115	16	14	41	27		
P1BG-08-06	G1/2"X14	G3/8"X19	O113	16	11.5	36	27		
P1BG-08-12	G1/2"X14	G3/4"X14	O119	16	15.5	45.5	32		
P1BG-10-08	G5/8"X14	G1/2"X14	O115	17.5	14	44.5	30		
P1BG-12	G3/4"X14	G3/4"X14	O119	18.5	15.5	46	32		
P1BG-12-08	G3/4"X14	G1/2"X14	O115	18.5	14	45.5	32		
P1BG-16-08	G1"X11	G1/2"X14	O115	20.5	14	50.5	41		
P1BG-16	G1"X11	G1"X11	O217	20.5	18	53	41		
P1BG-16-12	G1"X11	G3/4"X14	O119	20.5	15.5	52	41		
P1BG-20	G1.1/4"X11	G1.1/4"X11	O222	20.5	20	58.5	50		
P1BG-24	G1.1/2"X11	G1.1/2"X11	O224	23	21.5	62.5	55		

F end is connected with DIN3852 port.

90° ELBOW BSP MALE 60° SEAT / BSP MALE O-RING ADJUSTABLE STUD END

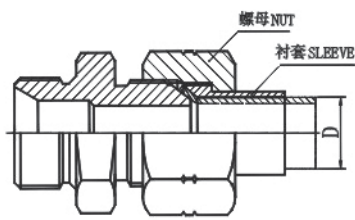
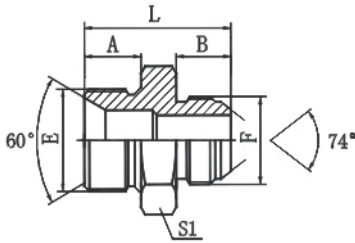


P1BG9-OG

PART NO.	THREAD		TUBE O.D.		DIMENSIONS				
	E	F		F	A	B	S1	S2	
P1BG9-040G	G1/4"X19	G1/4"X19		O111	25	31.5	14	19	
P1BG9-04-060G	G1/4"X19	G3/8"X19		O113	26.5	36.8	16	22	
P1BG9-060G	G3/8"X19	G3/8"X19		O113	28	36.8	16	22	
P1BG9-06-080G	G3/8"X19	G1/2"X14		O115	31	43.2	22	27	
P1BG9-080G	G1/2"X14	G1/2"X14		O115	34.5	43.2	22	27	
P1BG9-08-120G	G1/2"X14	G3/4"X14		O119	40	49.3	27	32	
P1BG9-120G	G3/4"X14	G3/4"X14		O119	40	49.3	27	32	
P1BG9-12-160G	G3/4"X14	G1"X11		O217	45	53	33	41	
P1BG9-160G	G1"X11	G1"X11		O217	46	53	33	41	
P1BG9-20-160G	G1.1/4"X11	G1"X11		O217	50.5	58	41	41	
P1BG9-200G	G1.1/4"X11	G1.1/4"X11		O222	51.5	58	41	50	
P1BG9-240G	G1.1/2"X11	G1.1/2"X11		O224	58.5	63	48	55	

F end is connected with DIN3852 port.

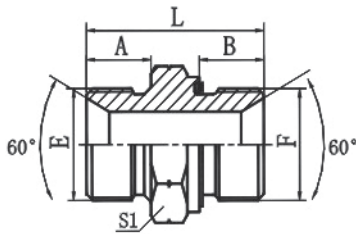
BSPT MALE 60° SEAT / JC MALE 74° CONE



P1BJ

PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	L	S1	
1BJ-02-04	G1/8"X28	7/16"X20	10	14	30	14	
1BJ-02-05	G1/8"X28	1/2"X20	10	14	30	14	
1BJ-04	G1/4"X19	7/16"X20	12	14	32	19	
1BJ-04-05	G1/4"X19	1/2"X20	12	14	32	19	
1BJ-06	G3/8"X19	9/16"X18	13.5	14.1	35.5	22	
1BJ-06-05	G3/8"X19	1/2"X20	13.5	14	35.5	22	
1BJ-06-08	G3/8"X19	3/4"X16	13.5	16.7	38.5	22	
1BJ-08	G1/2"X14	3/4"X16	16	16.7	43	27	
1BJ-08-06	G1/2"X14	9/16"X18	16	14.1	40	27	
1BJ-08-10	G1/2"X14	7/8"X14	16	19.3	45.5	27	
1BJ-10	G5/8"X14	7/8"X14	17.5	19.3	47	30	
1BJ-10-08	G5/8"X14	3/4"X16	17.5	16.7	44	30	
1BJ-10-12	G5/8"X14	1.1/16"X12	17.5	21.9	49.5	30	
1BJ-12	G3/4"X14	1.1/16"X12	18.5	21.9	51.5	32	
1BJ-12-10	G3/4"X14	7/8"X14	18.5	19.3	49	32	
1BJ-12-14	G3/4"X14	1.3/16"X12	18.5	22.6	52	32	
1BJ-16	G1"X11	1.5/16"X12	20.5	23.1	57	41	
1BJ-16-14	G1"X11	1.3/16"X12	20.5	22.6	56	41	
1BJ-16-20	G1"X11	1.5/8"X12	20.5	24.3	58	46	
1BJ-20	G1.1/4"X11	1.5/8"X12	20.5	24.3	62	50	
1BJ-20-16	G1.1/4"X11	1.5/16"X12	20.5	23.1	60.5	50	
1BJ-20-24	G1.1/4"X11	1.7/8"X12	20.5	27.5	63	50	
1BJ-24-20	G1.1/2"X11	1.5/8"X12	23	24.3	62.5	55	
1BJ-24	G1.1/2"X11	1.7/8"X12	23	27.5	67.5	55	
1BJ-24-32	G1.1/2"X11	2.1/2"X12	23	33.9	74	65	
1BJ-32	G2"X11	2.1/2"X12	25.5	33.9	77.5	70	
1BJ-32-24	G2"X11	1.7/8"X12	25.5	27.5	70	70	

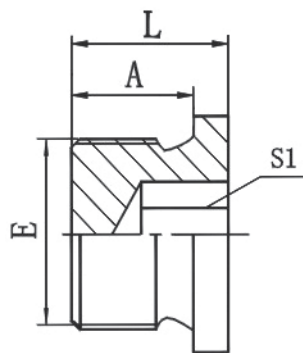
BSP MALE DOUBLE USE FOR 60° SEAT OR BONDED SEAL / BSP MALE CAPTIVE SEAL



P1B-WD

PART NO.	THREAD		TUBE O.D.	DIMENSIONS			
	E	F	F	A	B	L	S1
P1B-04WD	G1/4"X19	G1/4"X19	WD-B04	12	12	32	19
P1B-04-06WD	G1/4"X19	G3/8"X19	WD-B06	12	12	34.5	22
P1B-04-08WD	G1/4"X19	G1/2"X14	WD-B08	12	14	39	27
P1B-06WD	G3/8"X19	G3/8"X19	WD-B06	13.5	12	34	22
P1B-06-08WD	G3/8"X19	G1/2"X14	WD-B08	13.5	14	40.5	27
P1B-08WD	G1/2"X14	G1/2"X14	WD-B08	16	14	43	27
P1B-08-12WD	G1/2"X14	G3/4"X14	WD-B12	16	16	46	32
P1B-12WD	G3/4"X14	G3/4"X14	WD-B12	18.5	16	46.5	32
P1B-12-16WD	G3/4"X14	G1"X11	WD-B16	18.5	18	52.5	41
P1B-16WD	G1"X11	G1"X11	WD-B16	20.5	18	54.5	41
P1B-16-20WD	G1"X11	G1.1/4"X11	WD-B20	20.5	20	58.5	50
P1B-20WD	G1.1/4"X11	G1.1/4"X11	WD-B20	20.5	20	58.5	50

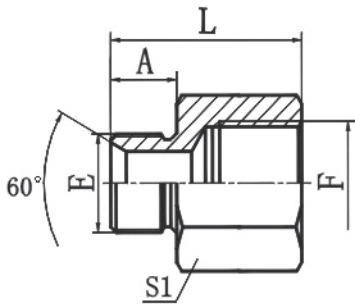
BSPT MALE HOLLOW HEX PLUG



P4BN

PART NO.	THREAD			DIMENSIONS			
	E			A	L	S1	
4BN-02	G1/8"X28			8	11	5	
4BN-04	G1/4"X19			12	15	6	
4BN-06	G3/8"X19			12	15	8	
4BN-08	G1/2"X14			14	18	10	
4BN-12	G3/4"X14			16	20	12	
4BN-16	G1"X11			16	21	17	

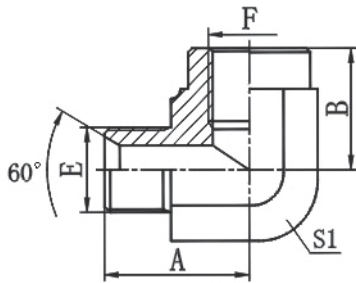
BSP MALE DOUBLE USE FOR 60° SEAT OR BONDED SEAL/BSP FEMALE ISO 1179



P5B

PART NO.	THREAD		DIMENSIONS				
	E	F	A	L	S1		
5B-02-04	G1/8"X28	G1/4"X19	11	29	19		
5B-04-02	G1/4"X19	G1/8"X28	12	28	19		
5B-04	G1/4"X19	G1/4"X19	12	33	19		
5B-04-06	G1/4"X19	G3/8"X19	12	36	22		
5B-06-04	G3/8"X19	G1/4"X19	13.5	33.5	22		
5B-06	G3/8"X19	G3/8"X19	13.5	37.5	22		
5B-06-08	G3/8"X19	G1/2"X14	13.5	42.5	27		
5B-08-06	G1/2"X14	G5/8"X19	16	38	27		
5B-08	G1/2"X14	G3/4"X14	16	45	27		
5B-08-10	G1/2"X14	G1/2"X14	16	46	30		
5B-08-12	G1/2"X14	G1/2"X14	16	44.5	36		
5B-10-08	G5/8"X14	G3/4"X14	16	41.5	30		
5B-12-08	G3/4"X14	G1"X11	18.5	44.5	32		
5B-12	G3/4"X14	G3/4"X14	18.5	48	36		
5B-12-16	G3/4"X14	G1"X11	18.5	53.5	41		
5B-16-12	G1"X11	G3/4"X14	20.5	47.5	41		
5B-16	G1"X11	G1"X11	20.5	55.5	41		
5B-16-20	G1"X11	G1.1/4"X11	20.5	56.5	50		
5B-20-16	G1.1/4"X11	G1"X11	20.5	49	50		
5B-20	G1.1/4"X11	G1.1/4"X11	20.5	52.5	50		
5B-20-24	G1.1/4"X11	G1.1/2"X11	20.5	57.5	55		
5B-24	G1.1/2"X11	G1.1/2"X11	23	58	55		
5B-32-24	G2"X11	G1.1/2"X11	26	59.5	70		
5B-32	G2"X11	G2"X11	26	63	70		

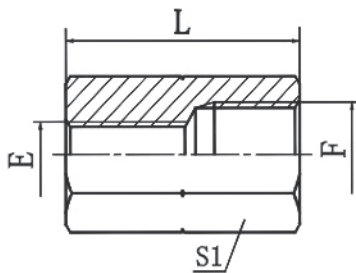
90° BSPT MALE 60° SEAT / BSP FEMALE



P5B9

PART NO.	THREAD		DIMENSIONS					
	E	F	A	B	S1			
5B9-02	G 1/8"X28	G 1/8"X28	22.5	20	16			
5B9-04	G 1/4"X19	G 1/4"X19	25.5	22	19			
5B9-06	G 3/8"X19	G 3/8"X19	30.5	26	24			
5B9-08	G 1/2"X14	G 1/2"X14	39	31	30			
5B9-12	G 3/4"X14	G 3/4"X14	43.5	37	33			
5B9-16	G 1"X11	G 1"X11	50.5	43	41			
5B9-20	G 1.1/4"X11	G 1.1/4"X11	55	46	50			

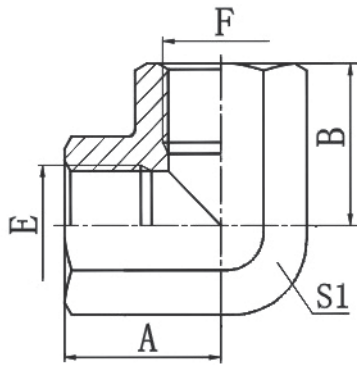
BSP FEMALE



P7B

PART NO.	THREAD		DIMENSIONS					
	E	F	L	S1				
7B-02	G 1/8"X28	G 1/8"X28	22	14				
7B-02-04	G 1/8"X28	G 1/4"X19	24	19				
7B-04	G 1/4"X19	G 1/4"X19	24	19				
7B-04-06	G 1/4"X19	G 3/8"X19	29	22				
7B-06	G 3/8"X19	G 3/8"X19	26	22				
7B-06-08	G 3/8"X19	G 1/2"X14	33	27				
7B-08	G 1/2"X14	G 1/2"X14	32	27				
7B-08-10	G 1/2"X14	G 5/8"X14	36	30				
7B-10	G 5/8"X14	G 5/8"X14	36	30				
7B-12	G 3/4"X14	G 3/4"X14	36	32				
7B-12-16	G 3/4"X14	G 1"X11	43	41				
7B-16	G 1"X11	G 1"X11	40	41				
7B-16-20	G 1"X11	G 1.1/4"X11	46	50				
7B-20	G 1.1/4"X11	G 1.1/4"X11	44	50				
7B-20-24	G 1.1/4"X11	G 1.1/2"X11	48	55				
7B-24	G 1.1/2"X11	G 1.1/2"X11	45	55				
7B-24-32	G 1.1/2"X11	G 2"X11	56	70				
7B-32	G 2"X11	G 2"X11	54	70				

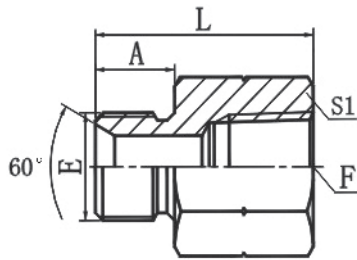
90° BSP FEMALE



P7B9-PK

PART NO.	THREAD		DIMENSIONS					
	E	F	A	B	S1			
7B9-02PK	G1/8"X28	G1/8"X28	20	20	16			
7B9-04PK	G1/4"X19	G1/4"X19	22.5	22.5	19			
7B9-06PK	G3/8"X19	G3/8"X19	26	26	24			
7B9-08PK	G1/2"X14	G1/2"X14	31	31	27			
7B9-12PK	G3/4"X14	G3/4"X14	34	34	33			
7B9-16PK	G1"X11	G1"X11	42	42	41			
7B9-20PK	G1.1/4"X11	G1.1/4"X11	48	48	50			
7B9-24PK	G1.1/2"X11	G1.1/2"X11	53	53	60			
7B9-32PK	G2"X11	G2"X11	62	62	70			

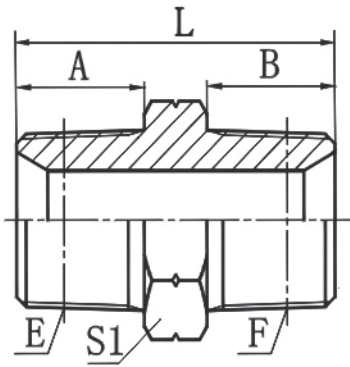
BSP MALE DOUBLE FOR 60° SEAT OR BONDED SEAL / BSPT FEMALE



P5BT

PART NO.	THREAD		DIMENSIONS					
	E	F	A	L	S1			
P5BT-04-02	G1/4"X19	Rc1/8"X28	12	28	19			
P5BT-04	G1/4"X19	Rc1/4"X19	12	33.5	19			
P5BT-04-06	G1/4"X19	Rc3/8"X19	12	34	22			
P5BT-04-08	G1/4"X19	Rc1/2"X14	12	41	27			
P5BT-06-04	G3/8"X19	Rc1/4"X19	13.5	35	22			
P5BT-06	G3/8"X19	Rc3/8"X19	13.5	34	22			
P5BT-08-06	G1/2"X14	Rc3/8"X19	16	39.5	27			
P5BT-08	G1/2"X14	Rc1/2"X14	16	45	27			
P5BT-10-08	G5/8"X14	Rc1/2"X14	17.5	43.5	30			
P5BT-12-08	G3/4"X14	Rc1/2"X14	18.5	47.5	32			
P5BT-12	G3/4"X14	Rc3/4"X14	18.5	49	36			
P5BT-16-12	G1"X11	Rc3/4"X14	20.5	47.5	41			
P5BT-16	G1"X11	Rc1"X11	20.5	57	41			
P5BT-20	G1.1"X11	Rc1.1/4"X11	20.5	58.5	50			
P5BT-24	G1.1/2"X11	Rc1.1/2"X11	23	61	55			

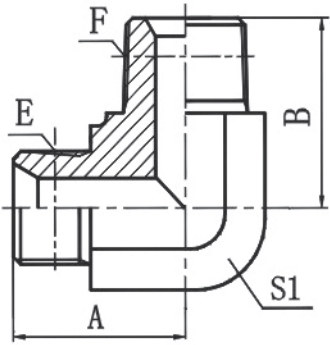
BSPT MALE



P1T-SP

PART NO.	THREAD		DIMENSIONS						
	E	F	A	B	L	S1			
P1T-02SP	R1/8"X28	R1/8"X28	10	10	26	12			
P1T-02-04SP	R1/8"X28	R1/4"X19	10	14.5	30.5	14			
P1T-02-06SP	R1/8"X28	R3/8"X19	10	15	31	17			
P1T-04SP	R1/4"X19	R1/4"X19	14.5	14.5	34	14			
P1T-04-06SP	R1/4"X19	R3/8"X19	14.5	15	35	17			
P1T-04-08SP	R1/4"X19	R1/2"X14	15	20	43	22			
P1T-06SP	R3/8"X19	R3/8"X19	15	15	36	17			
P1T-06-08SP	R3/8"X19	R1/2"X14	15	20	43	22			
P1T-08SP	R1/2"X14	R1/2"X14	20	20	46	22			
P1T-08-12SP	R1/2"X14	R3/4"X14	20	20	48	27			
P1T-12SP	R3/4"X14	R3/4"X14	20	20	48	27			
P1T-12-16SP	R3/4"X14	R1"X11	20	25.5	55.5	36			
P1T-16SP	R1"X11	R1"X11	25.5	25.5	61	36			
P1T-16-20SP	R1"X11	R1.1/4"X11	25.5	26.5	64.5	46			
P1T-20SP	R1.1/4"X11	R1.1/4"X11	26.5	26.5	65.5	46			
P1T-20-24SP	R1.1/4"X11	R1.1/2"X11	26.5	26.5	67	50			
P1T-24SP	R1.1/2"X11	R1.1/2"X11	26.5	26.5	67	50			
P1T-24-32SP	R1.1/2"X11	R2"X11	26.5	30	71.5	65			
P1T-32SP	R2"X11	R2"X11	30	30	75	65			

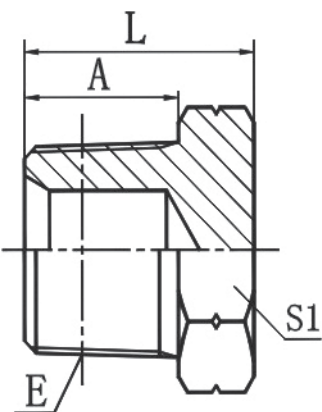
90° ELBOW BSPT MALE



P1T9-SP

PART NO.	THREAD		DIMENSIONS					
	E	F	A	B	S1			
P1T9-02SP	R1/8"X28	R1/8"X28	21	21	11			
P1T9-02-04SP	R1/8"X28	R1/4"X19	23.5	25.5	14			
P1T9-04SP	R1/4"X19	R1/4"X19	25.5	25.5	14			
P1T9-04-06SP	R1/4"X19	R3/8"X19	26.5	28.5	16			
P1T9-04-08SP	R1/4"X19	R1/2"X14	30.5	36	22			
P1T9-06SP	R3/8"X19	R3/8"X19	28.5	28.5	16			
P1T9-06-08SP	R3/8"X19	R1/2"X14	32.5	36	22			
P1T9-08SP	R1/2"X14	R1/2"X14	36	36	22			
P1T9-08-12SP	R1/2"X14	R3/4"X14	39.5	43.5	27			
P1T9-12SP	R3/4"X14	R3/4"X14	43.5	43.5	27			
P1T9-12-16SP	R3/4"X14	R1"X11	48	50	33			
P1T9-16SP	R1"X11	R1"X11	50	50	33			
P1T9-16-20SP	R1"X11	R1.1/4"X11	56.5	57.5	41			
P1T9-20SP	R1.1/4"X11	R1.1/4"X11	57.5	57.5	41			
P1T9-24SP	R1.1/2"X11	R1.1/2"X11	62.5	62.5	48			
P1T9-32SP	R2"X11	R2"X11	68	75	63			

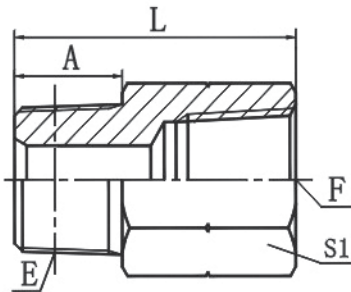
BSPT MALE PLUG



P4T-SP

PART NO.	THREAD		DIMENSIONS					
	E		A	L	S1			
P4T-02SP	R1/8"X28		10	16	12			
P4T-04SP	R1/4"X19		14.5	20	14			
P4T-06SP	R3/8"X19		15	21	17			
P4T-08SP	R1/2"X14		20	27	22			
P4T-12SP	R3/4"X14		20	29	27			
P4T-16SP	R1"X11		25.5	36.5	36			
P4T-20SP	R1.1/4"X11		26.5	38.5	46			
P4T-24SP	R1.1/2"X11		26.5	42	50			
P4T-32SP	R2"X11		30	47	65			

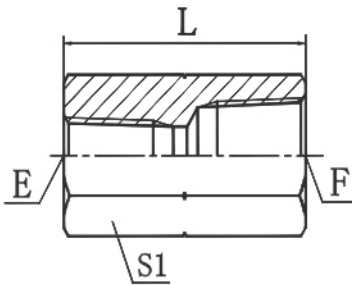
BSPT MALE / BSPT FEMALE



P5T-SP

PART NO.	THREAD		DIMENSIONS					
	E	F	A	L	S1			
5T-02-04SP	R1/8"X28	Rc1/4"X19	11	32.5	19			
5T-04-02SP	R1/4"X19	Rc1/8"X28	14.5	20.5	14			
5T-04SP	R1/4"X19	Rc1/4"X19	14.5	36	19			
5T-04-06SP	R1/4"X19	Rc3/8"X19	14.5	38	22			
5T-06-02SP	R3/8"X19	Rc1/8"X28	15	23	19			
5T-06-04SP	R3/8"X19	Rc1/4"X19	15	23	19			
5T-06SP	R3/8"X19	Rc3/8"X19	15	38.5	22			
5T-06-08SP	R3/8"X19	Rc1/2"X14	15	44	27			
5T-08-04SP	R1/2"X14	Rc1/4"X19	20	30	24			
5T-08-06SP	R1/2"X14	Rc3/8"X19	20	30	24			
5T-08SP	R1/2"X14	Rc1/2"X14	20	49	27			
5T-08-12SP	R1/2"X14	Rc3/4"X14	20	51	36			
5T-12-04SP	R3/4"X14	Rc1/4"X19	20	31	30			
5T-12-06SP	R3/4"X14	Rc3/8"X19	20	31	30			
5T-12-08SP	R3/4"X14	Rc1/2"X14	20	31	30			
5T-12SP	R3/4"X14	Rc3/4"X14	20	51	36			
5T-12-16SP	R3/4"X14	Rc1"X11	20	56.5	41			
5T-16-04SP	R1"X11	Rc1/4"X19	25.5	37	36			
5T-16-06SP	R1"X11	Rc3/8"X19	25.5	37	36			
5T-16-08SP	R1"X11	Rc1/2"X14	25.5	37	36			
5T-16-12SP	R1"X11	Rc3/4"X14	25.5	37	36			
5T-16SP	R1"X11	Rc1"X11	25.5	60	41			
5T-16-20SP	R1"X11	Rc1.1/4"X11	25.5	64	50			
5T-20-04SP	R1.1/4"X11	Rc1/4"X19	26.5	38	46			
5T-20-08SP	R1.1/4"X11	Rc1/2"X14	26.5	36	46			
5T-20-12SP	R1.1/4"X11	Rc3/4"X14	26.5	38	46			
5T-20-16SP	R1.1/4"X11	Rc1"X11	26.5	38	46			
5T-20SP	R1.1/4"X11	Rc1.1/4"X11	26.5	64.5	50			
5T-24-12SP	R1.1/2"X11	Rc3/4"X14	26.5	41	50			
5T-24-16SP	R1.1/2"X11	Rc1"X11	26.5	41	50			
5T-24-20SP	R1.1/2"X11	Rc1.1/4"X11	26.5	41	50			
5T-32-16SP	R2"X11	Rc1"X11	30	45	65			
5T-32-20SP	R2"X11	Rc1.1/4"X11	30	45	65			
5T-32-24SP	R2"X11	Rc1.1/2"X11	30	45	65			

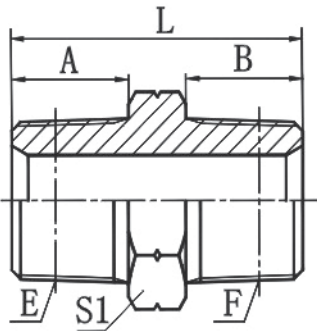
BSPT FEMALE



P7T

PART NO.	THREAD		DIMENSIONS					
	E	F		L	S1			
7T-02	R1/8"X28	R1/8"X28		20	14			
7T-02-04	R1/8"X28	R1/4"X19		30	19			
7T-04	R1/4"X19	R1/4"X19		30	19			
7T-04-06	R1/4"X19	R3/8"X19		30	22			
7T-04-08	R1/4"X19	R1/2"X14		40	27			
7T-06	R3/8"X19	R3/8"X19		30	22			
7T-06-08	R3/8"X19	R1/2"X14		40	27			
7T-06-12	R3/8"X19	R3/4"X14		37	36			
7T-08	R1/2"X14	R1/2"X14		40	27			
7T-08-12	R1/2"X14	R3/4"X14		42	36			
7T-12	R3/4"X14	R3/4"X14		42	36			
7T-12-16	R3/4"X14	R1"X11		50	41			
7T-16	R1"X11	R1"X11		50	41			
7T-16-20	R1"X11	R1.1/4"X11		52	50			
7T-20	R1.1/4"X11	R1.1/4"X11		55	50			
7T-24	R1.1/2"X11	R1.1/2"X11		55	55			
7T-32	R2"X11	R2"X11		65	70			

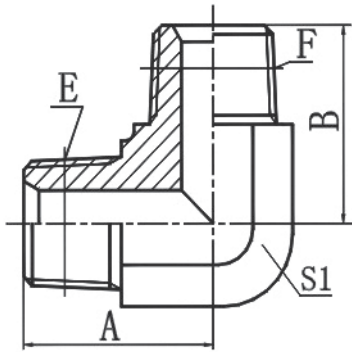
NPT MALE



P1N

PART NO.	THREAD		DIMENSIONS					
	E	F	A	B	L	S1		
1N-02	Z1/8"X27	Z1/8"X27	10.5	10.5	27	12		
1N-02-04	Z1/8"X27	Z1/4"X18	10.5	15	31	17		
1N-02-06	Z1/8"X27	Z3/8"X18	10.5	16	32	19		
1N-04	Z1/4"X18	Z1/4"X18	15	15	35	17		
1N-04-06	Z1/4"X18	Z3/8"X18	15	16	37	19		
1N-04-08	Z1/4"X18	Z1/2"X14	15	19.5	41.5	22		
1N-06	Z3/8"X18	Z3/8"X18	16	16	38	19		
1N-06-08	Z3/8"X18	Z1/2"X14	16	19.5	43.5	22		
1N-06-12	Z3/8"X18	Z3/4"X14	16	19.5	45.5	27		
1N-08	Z1/2"X14	Z1/2"X14	19.5	19.5	47	22		
1N-08-12	Z1/2"X14	Z3/4"X14	19.5	19.5	49	27		
1N-08-16	Z1/2"X14	Z1"X11.5	19.5	25.5	56	36		
1N-12	Z3/4"X14	Z3/4"X14	19.5	19.5	49	27		
1N-12-16	Z3/4"X14	Z1"X11.5	19.5	25.5	55	36		
1N-12-20	Z3/4"X14	Z1.1/4"X11.5	19.5	26.5	59	46		
1N-16	Z1"X11.5	Z1"X11.5	25.5	25.5	61	36		
1N-16-20	Z1"X11.5	Z1.1/4"X11.5	25.5	26.5	64	46		
1N-16-24	Z1"X11.5	Z1.1/2"X11.5	25.5	27.5	68	50		
1N-20	Z1.1/4"X11.5	Z1.1/4"X11.5	26.5	26.5	65	46		
1N-20-24	Z1.1/4"X11.5	Z1.1/2"X11.5	26.5	27.5	69	50		
1N-24	Z1.1/2"X11.5	Z1.1/2"X11.5	27.5	27.5	69	50		
1N-24-32	Z1.1/2"X11.5	Z2"X11.5	27.5	27.5	72	65		
1N-32	Z2"X11.5	Z2"X11.5	27.5	27.5	71	65		

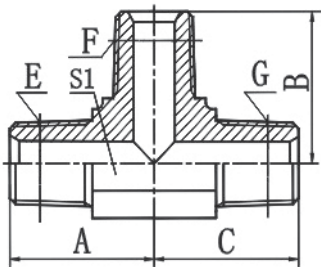
90° ELBOW NPT MALE



P1N9

PART NO.	THREAD			DIMENSIONS			
	E	F		A	B	S1	
1N9-02	Z1/8"X27	Z1/8"X27		21	21	11	
1N9-02-04	Z1/8"X27	Z1/4"X18		23.5	25.5	14	
1N9-04	Z1/4"X18	Z1/4"X18		25.5	25.5	14	
1N9-04-06	Z1/4"X18	Z3/8"X18		28	31	19	
1N9-04-08	Z1/4"X18	Z1/2"X14		30.5	36.5	22	
1N9-06	Z3/8"X18	Z3/8"X18		31	31	19	
1N9-06-08	Z3/8"X18	Z1/2"X14		33.8	37.3	22	
1N9-08	Z1/2"X14	Z1/2"X14		37.3	37.3	22	
1N9-08-12	Z1/2"X14	Z3/4"X14		40	44	27	
1N9-19	Z3/4"X14	Z3/4"X14		44	44	27	
1N9-12-16	Z3/4"X14	Z1"X11.5		46.5	50	33	
1N9-16	Z1"X11.5	Z1"X11.5		50	50	33	
1N9-20	Z1.1/4"X11.5	Z1.1/4"X11.5		54	54	41	
1N9-24	Z1.1/2"X11.5	Z1.1/2"X11.5		63	63	48	
1N9-32	Z2"X11.5	Z2"X11.5		68	68	63	

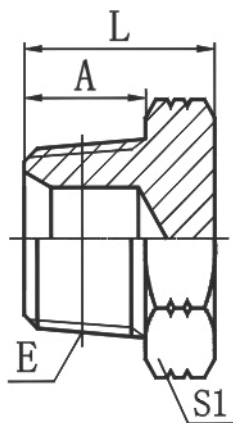
NPT MALE



PAN

PART NO.	THREAD			DIMENSIONS			
	E	F	G	A	B	C	S1
AN-02	Z1/8"X27	Z1/8"X27	Z1/8"X27	21	21	21	11
AN-04	Z1/4"X18	Z1/4"X18	Z1/4"X18	25.5	25.5	25.5	14
AN-06	Z3/8"X18	Z3/8"X18	Z3/8"X18	31	31	31	19
AN-08	Z1/2"X14	Z1/2"X14	Z1/2"X14	36.7	36.7	36.7	22
AN-12	Z3/4"X14	Z3/4"X14	Z3/4"X14	44	44	44	27
AN-16	Z1"X11.5	Z1"X11.5	Z1"X11.5	50	50	50	33
AN-20	Z1.1/4"X11.5	Z1.1/4"X11.5	Z1.1/4"X11.5	54.5	54.5	54.5	41
AN-24	Z1.1/2"X11.5	Z1.1/2"X11.5	Z1.1/2"X11.5	59.5	59.5	59.5	48

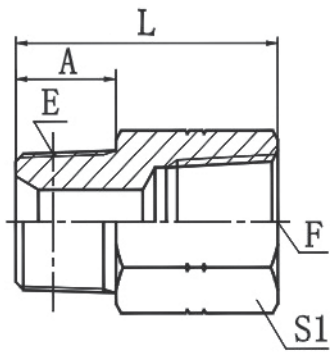
NPT MALE PLUG



P4N

PART NO.	THREAD			DIMENSIONS		
	E			A	L	S1
4N-02	Z1/8"X27			10.5	16	12
4N-04	Z1/4"X18			15	20	17
4N-06	Z3/8"X18			16	21	19
4N-08	Z1/2"X14			19.5	27	22
4N-12	Z3/4"X14			19.5	29.5	27
4N-16	Z1"X11.5			25.5	36.5	36
4N-20	Z1.1/4"X11.5			26.5	38.5	46
4N-24	Z1.1/2"X11.5			27.5	43	50
4N-32	Z2"X11.5			27.5	43.5	65

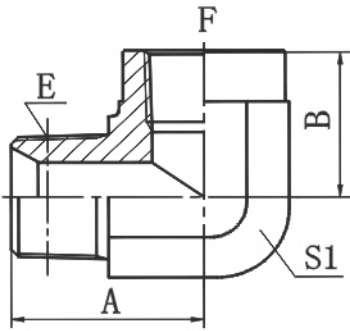
NPT MALE / NPT FEMALE



P5N

PART NO.	THREAD		DIMENSIONS					
	E	F	A	L	S1			
P5N-02	Z1/8"X27	Z1/8"X27	10.5	25.5	17			
P5N-02-04	Z1/8"X27	Z1/4"X18	10.5	31	19			
P5N-02-06	Z1/8"X27	Z3/8"X18	11	31	24			
P5N-04-02	Z1/4"X18	Z1/8"X27	15	22	17			
P5N-04	Z1/4"X18	Z1/4"X18	15	35.3	19			
P5N-04-06	Z1/4"X18	Z3/8"X18	15	36.6	24			
P5N-04-08	Z1/4"X18	Z1/2"X14	15	43	30			
P5N-06-02	Z3/8"X18	Z1/8"X27	16	22	19			
P5N-06-04	Z3/8"X18	Z1/4"X18	16	22	19			
P5N-06	Z3/8"X18	Z3/8"X18	16	37.6	24			
P5N-06-08	Z3/8"X18	Z1/2"X14	17	43.7	30			
P5N-06-12	Z3/8"X18	Z3/4"X14	17	47	36			
P5N-08-04	Z1/2"X14	Z1/4"X18	19.5	28	24			
P5N-08-06	Z1/2"X14	Z3/8"X18	19.5	28.5	24			
P5N-08	Z1/2"X14	Z1/2"X14	19.5	47.5	30			
P5N-08-12	Z1/2"X14	Z3/4"X14	19.5	49	36			
P5N-12-06	Z3/4"X14	Z3/8"X18	19.5	30.5	27			
P5N-12-08	Z3/4"X14	Z1/2"X14	19.5	30.5	27			
P5N-12	Z3/4"X14	Z3/4"X14	19.5	49	36			
P5N-12-16	Z3/4"X14	Z1"X11.5	19.5	55.4	41			
P5N-16-08	Z1"X11.5	Z1/2"X14	25.5	35.5	36			
P5N-16-12	Z1"X11.5	Z3/4"X14	25.5	36.5	36			
P5N-16	Z1"X11.5	Z1"X11.5	25.5	60.7	41			
P5N-16-20	Z1"X11.5	Z1.1/4"X11.5	25.5	63.5	50			
P5N-20-12	Z1.1/4"X11.5	Z3/4"X14	26.5	38.5	46			
P5N-20-16	Z1.1/4"X11.5	Z1"X11.5	26.5	41	46			
P5N-20	Z1.1/4"X11.5	Z1.1/4"X11.5	26.5	61.5	50			
P5N-20-24	Z1.1/4"X11.5	Z1.1/2"X11.5	26.5	62.5	60			
P5N-24-16	Z1.1/2"X11.5	Z1"X11.5	27.5	41.5	50			
P5N-24-20	Z1.1/2"X11.5	Z1.1/4"X11.5	27.5	41	50			
P5N-24	Z1.1/2"X11.5	Z1.1/2"X11.5	27.5	62.5	65			
P5N-24-32	Z1.1/2"X11.5	Z2"X11.5	27.5	66.5	70			
P5N-32-20	Z2"X11.5	Z1.1/4"X11.5	27.5	44.5	65			
P5N-32-24	Z2"X11.5	Z1.1/2"X11.5	27.5	45	65			
P5N-32	Z2"X11.5	Z2"X11.5	27.5	62.5	70			

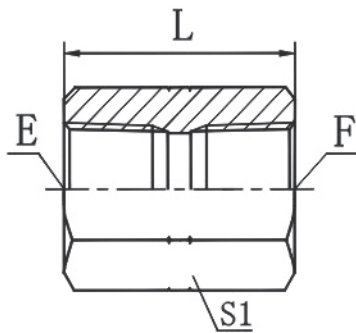
90° ELBOW MALE / NPT FEMALE



P5N9

PART NO.	THREAD		DIMENSIONS						
	E	F			A	B	S1		
P5N9-02	Z1/8"X27	Z1/8"X27			24.5	17.8	16		
P5N9-04-02	Z1/4"X18	Z1/8"X27			26.5	16.8	16		
P5N9-04	Z1/4"X18	Z1/4"X18			28	22.4	19		
P5N9-04-06	Z1/4"X18	Z3/8"X18			31	25	24		
P5N9-06-04	Z3/8"X18	Z1/4"X18			31	22.4	19		
P5N9-06	Z3/8"X18	Z3/8"X18			33.5	25	24		
P5N9-08	Z1/2"X14	Z1/2"X14			41.2	31.2	30		
P5N9-12-08	Z3/4"X14	Z1/2"X14			45	31.2	30		
P5N9-12	Z3/4"X14	Z3/4"X14			45.2	34.5	33		
P5N9-16	Z1"X11.5	Z1"X11.5			54.5	41.1	41		
P5N9-20	Z1.1/4"X11.5	Z1.1/4"X11.5			63	43.2	48		
P5N9-24	Z1.1/2"X11.5	Z1.1/2"X11.5			71.5	52.8	63		
P5N9-32	Z2"X11.5	Z2"X11.5			73.5	62	65		

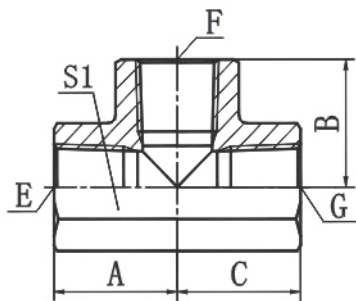
NPT FEMALE SOCKET



P7N

PART NO.	THREAD		DIMENSIONS			
	E	F	L	S1		
7N-02	Z1/8"X27	Z1/8"X27	24	17		
7N-02-04	Z1/8"X27	Z1/4"X18	27	19		
7N-02-06	Z1/8"X27	Z3/8"X18	30	22		
7N-04	Z1/4"X18	Z1/4"X18	29	19		
7N-04-06	Z1/4"X18	Z3/8"X18	31	22		
7N-04-08	Z1/4"X18	Z1/2"X14	35	30		
7N-06	Z3/8"X18	Z3/8"X18	29	22		
7N-06-08	Z3/8"X18	Z1/2"X14	38	30		
7N-06-12	Z3/8"X18	Z3/4"X14	40	36		
7N-08	Z1/2"X14	Z1/2"X14	38	30		
7N-08-12	Z1/2"X14	Z3/4"X14	43	36		
7N-12	Z3/4"X14	Z3/4"X14	39	36		
7N-12-16	Z3/4"X14	Z1"X11.5	45.5	41		
7N-16	Z1"X11.5	Z1"X11.5	48	41		
7N-20	Z1.1/4"X11.5	Z1.1/4"X11.5	49	50		
7N-24	Z1.1/2"X11.5	Z1.1/2"X11.5	49	60		
7N-32	Z2"X11.5	Z2"X11.5	50	70		

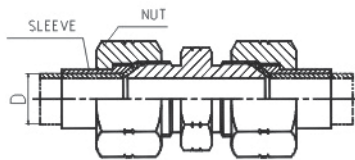
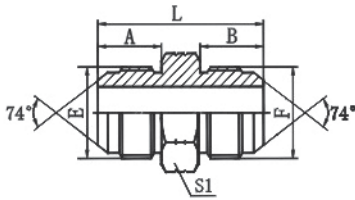
NPT FEMALE TEE



PGN-PK

PART NO.	THREAD	DIMENSIONS			
	E, F, G	A	B	C	S1
GN-02PK	Z1/8"X27	20	20	20	16
GN-04PK	Z1/4"X18	22.5	22.5	22.5	19
GN-06PK	Z3/8"X18	26	26	26	24
GN-08PK	Z1/2"X14	31	31	31	27
GN-12PK	Z3/4"X14	34	34	34	33
GN-16PK	Z1"X11.5	42	42	42	41
GN-20PK	Z1.1/4"X11.5	48	48	48	50
GN-24PK	Z1.1/2"X11.5	53	53	53	60
GN-32PK	Z2"X11.5	62	62	62	70

JIC MALE 74° CONE

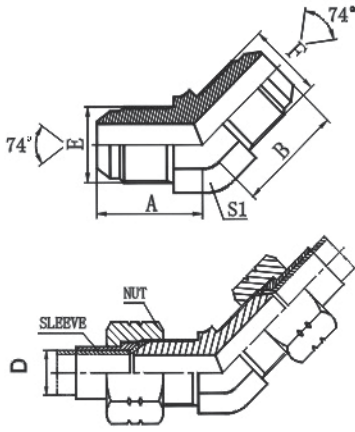


P1J

PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	L	S1	
P1J-02	5/16"X24	5/16"X24	11.4	11.4	29	12	
P1J-02-03	5/16"X24	3/8"X24	11.4	12.2	29.5	12	
P1J-03	3/8"X24	3/8"X24	12.2	12.2	30.5	12	
P1J-04	7/16"X20	7/16"X20	14	14	34	12	
P1J-04-05	7/16"X20	1/2"X20	14	14	34	14	
P1J-04-06	7/16"X20	9/16"X18	14	14.1	34.1	17	
P1J-04-08	7/16"X20	3/4"X16	14	16.7	38.5	22	
P1J-05	1/2"X20	1/2"X20	14	14	34	14	
P1J-05-06	1/2"X20	9/16"X18	14	14.1	34	17	
P1J-05-08	1/2"X20	3/4"X16	14	16.7	38.5	22	
P1J-05-10	1/2"X20	7/8"X14	14	19.3	41	24	
P1J-06	9/16"X18	9/16"X18	14.4	14.1	34.2	17	
P1J-06-08	9/16"X18	3/4"X16	14.1	16.7	38.5	22	
P1J-06-10	9/16"X18	7/8"X14	14.1	19.3	41.5	24	
P1J-06-12	9/16"X18	1.1/16"X12	14.1	21.9	46	30	
P1J-08	3/4"X16	3/4"X16	16.7	16.7	42	22	
P1J-08-10	3/4"X16	7/8"X14	16.7	19.3	44	24	
P1J-08-12	3/4"X16	1.1/16"X12	16.7	21.9	48.5	30	
P1J-08-16	3/4"X16	1.5/16"X12	16.7	23.1	51	36	
P1J-10	7/8"X14	7/8"X14	19.3	19.3	46.5	24	
P1J-10-12	7/8"X14	1.1/16"X12	19.3	21.9	51	30	
P1J-10-16	7/8"X14	1.5/16"X12	19.3	23.1	53.5	36	
P1J-12	1.1/16"X12	1.1/16"X12	21.9	21.9	54	30	
P1J-12-14	1.1/16"X12	1.3/16"X12	21.9	22.6	55.5	32	
P1J-12-16	1.1/16"X12	1.5/16"X12	21.9	23.1	56	36	
P1J-14	1.3/16"X12	1.3/16"X12	22.6	22.6	56	32	
P1J-14-16	1.3/16"X12	1.5/16"X12	22.6	23.1	56.5	36	
P1J-16	1.5/16"X12	1.5/16"X12	23.1	23.1	57	36	
P1J-16-20	1.5/16"X12	1.5/8"X12	23.1	24.3	60.5	46	
P1J-16-24	1.5/16"X12	1.7/8"X12	23.1	27.5	65.5	50	
P1J-20	1.5/8"X12	1.5/8"X12	24.3	24.3	62	46	
P1J-20-24	1.5/8"X12	1.7/8"X12	24.3	27.5	67	50	
P1J-20-32	1.5/8"X12	2.1/2"X12	24.3	33.9	75	65	
P1J-24	1.7/8"X12	1.7/8"X12	27.5	27.5	70	50	
P1J-24-32	1.7/8"X12	2.1/2"X12	27.5	33.9	78.5	65	
P1J-32	2.1/2"X12	2.1/2"X12	33.9	33.9	85	65	

Note: Nut and sleeve should be ordered separately. The nut Nb200 and sleeve Nb500 is suitable for metric tube, the nut Nb200 and sleeve Nb300 is suitable inch tube.

45° ELBOW JIC MALE 74° CONE

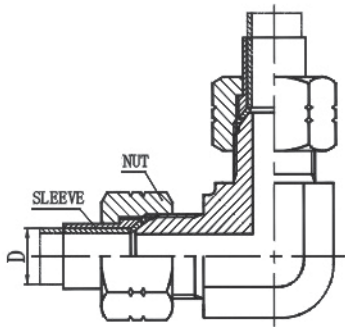
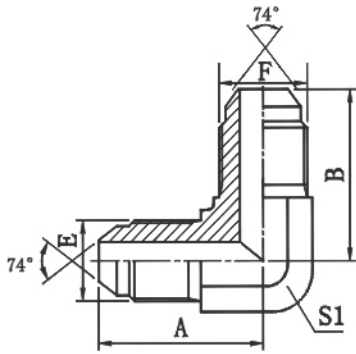


PART NO.	THREAD		DIMENSIONS					
	E	F		A	B	S1		
1J4-04	7/16"X20	7/16"X20		21.5	21.5	11		
1J4-05	1/2"X20	1/2"X20		23	23	14		
1J4-06	9/16"X18	9/16"X18		22.8	22.8	14		
1J4-08	3/4"X16	3/4"X16		26.8	26.8	19		
1J4-10	7/8"X14	7/8"X14		31	31	22		
1J4-12	1.1/16"X12	1.1/16"X12		35.5	35.5	27		
1J4-16	1.5/16"X12	1.5/16"X12		38.5	38.5	33		

Note: Nut and sleeve should be ordered separately. The nut Nb200 and sleeve Nb500 is suitable for metric tube, the nut Nb200 and sleeve Nb300 is suitable for inch tube.

P1J4

90° ELBOW JIC MALE 74° CONE

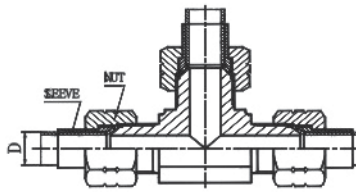
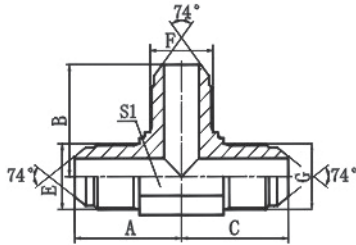


P1J9

PART NO.	THREAD		DIMENSIONS					
	E	F	A	B	S1			
P1J9-02	5/16"X24	5/16"X24	20.5	20.5	11			
P1J9-03	3/8"X24	3/8"X24	22	22	11			
P1J9-04	7/16"X20	7/16"X20	24.5	24.5	11			
P1J9-05	1/2"X20	1/2"X20	26.6	26.6	14			
P1J9-05-06	1/2"X20	9/16"X18	26.6	26.9	14			
P1J9-06	9/16"X18	9/16"X18	26.9	26.9	14			
P1J9-06-08	9/16"X18	3/4"X16	30	32	19			
P1J9-06-10	9/16"X18	7/8"X14	32	37.8	22			
P1J9-08	3/4"X16	3/4"X16	32	32	19			
P1J9-08-10	3/4"X16	7/8"X14	34.8	37.8	22			
P1J9-10	7/8"X14	7/8"X14	37.8	37.8	22			
P1J9-10-12	7/8"X14	1.1/16"X12	41	44.2	27			
P1J9-12	1.1/16"X12	1.1/16"X12	44.2	44.2	27			
P1J9-14	1.3/16"X12	1.3/16"X12	47.5	47.5	30			
P1J9-16	1.5/16"X12	1.5/16"X12	49	49	33			
P1J9-20	1.5/8"X12	1.5/8"X12	55.5	55.5	41			
P1J9-24	1.7/8"X12	1.7/8"X12	62.5	62.5	48			
P1J9-32	2.1/2"X12	2.1/2"X12	78	78	63			

Note: Nut and sleeve should be ordered separately. The nut Nb200 and sleeve Nb500 is suitable for metric tube, the nut Nb200 and sleeve Nb300 is suitable inch tube.

JIC MALE 74° CONE TEE

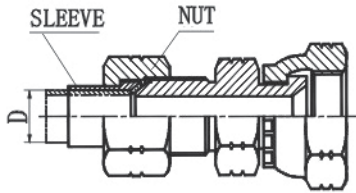
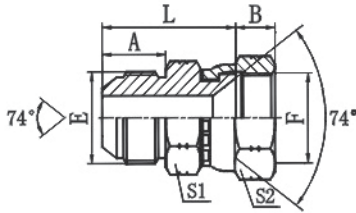


PAJ

PART NO.	THREAD			DIMENSIONS				
	E	F	G	A	B	C	S1	
AJ-04	7/16"X20	7/16"X20	7/16"X20	24.5	24.5	24.5	11	
AJ-04-06-04	7/16"X20	9/16"X18	7/16"X20	26.6	26.6	26.6	14	
AJ-05	1/2"X20	1/2"X20	1/2"X20	26	26	26	14	
AJ-06-04-06	9/16"X18	7/16"X20	9/16"X18	26.9	26.9	26.9	14	
AJ-06	9/16"X18	9/16"X18	9/16"X18	26.9	26.9	26.9	14	
AJ-08	3/4"X16	3/4"X16	3/4"X16	32	32	32	19	
AJ-08-06-08	3/4"X16	9/16"X18	3/4"X16	32	32	32	19	
AJ-10	7/8"X14	7/8"X14	7/8"X14	37.8	37.8	37.8	22	
AJ-12	1.1/16"X12	1.1/16"X12	1.1/16"X12	44.2	44.2	44.2	27	
AJ-16	1.5/16"X12	1.5/16"X12	1.5/16"X12	49	49	49	33	
AJ-16-12-16	1.5/16"X12	1.1/16"X12	1.5/16"X12	49	49	49	33	
AJ-20	1.5/8"X12	1.5/8"X12	1.5/8"X12	56.5	56.5	56.5	41	
AJ-24	1.7/8"X12	1.7/8"X12	1.7/8"X12	63	63	63	48	
AJ-32	2.1/2"X11	2.1/2"X11	2.1/2"X11	78	78	78	63	

Note: Nut and sleeve should be ordered separately. The nut Nb200 and sleeve Nb500 is suitable for metric tube, the nut Nb200 and sleeve Nb300 is suitable for inch tube.

JIC MALE 74° CONE / JIC FEMALE 74° SEAT

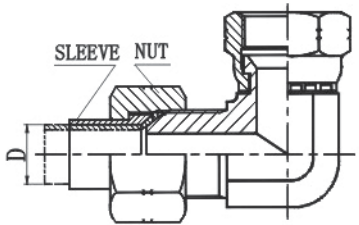
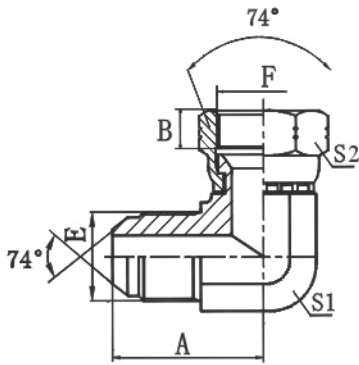


P2J

PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	L	S1	S2
P2J-04	7/16"X20	7/16"X20	14	9	28	12	15
P2J-04-05	7/16"X20	1/2"X20	14	9.5	28.5	12	17
P2J-04-06	7/16"X20	9/16"X18	14	10.5	28.5	14	19
P2J-04-08	7/16"X20	3/4"X16	14	11	30.5	19	24
P2J-05	1/2"X20	1/2"X20	14	9.5	29	14	17
P2J-05-06	1/2"X20	9/16"X18	14	10.5	28.5	14	19
P2J-05-08	1/2"X20	3/4"X16	14	11	30.5	19	24
P2J-06	9/16"X18	9/16"X18	14.1	10.5	29	17	19
P2J-06-08	9/16"X18	3/4"X16	14.1	11	31	19	24
P2J-06-10	9/16"X18	7/8"X14	14.1	13	33.5	22	27
P2J-08	3/4"X16	3/4"X16	16.7	11	36	22	24
P2J-08-06	3/4"X16	9/16"X18	16.7	10.5	34	22	19
P2J-08-10	3/4"X16	7/8"X14	16.7	13	36.5	22	27
P2J-08-12	3/4"X16	1.1/16"X12	16.7	15	39.5	27	32
P2J-10	7/8"X14	7/8"X14	19.3	13	39	24	27
P2J-10-08	7/8"X14	3/4"X16	19.3	11	38	24	24
P2J-10-12	7/8"X14	1.1/16"X12	19.3	15	42	27	32
P2J-12	1.1/16"X12	1.1/16"X12	21.9	15	44.5	30	32
P2J-12-10	1.1/16"X12	7/8"X14	21.9	13	43.5	30	27
P2J-12-16	1.1/16"X12	1.5/16"X12	21.9	16	45.5	36	41
P2J-16	1.5/16"X12	1.5/16"X12	23.1	16	46.5	36	41
P2J-16-20	1.5/16"X12	1.5/8"X12	23.1	17	53	41	50
P2J-20	1.5/8"X12	1.5/8"X12	24.3	17	54.5	46	50
P2J-20-24	1.5/8"X12	1.7/8"X12	24.3	20	55.5	46	55
P2J-24	1.7/8"X12	1.7/8"X12	27.5	20	61	50	55
P2J-24-32	1.7/8"X12	2.1/2"X12	27.5	24.5	63	65	75
P2J-32	2.1/2"X12	2.1/2"X12	33.9	24.5	69.5	65	75

Note: Nut and sleeve should be ordered separately. The nut Nb200 and sleeve Nb500 is suitable for metric tube, the nut Nb200 and sleeve Nb300 is suitable inch tube.

90° ELBOW JIC MALE 74° CONE / JIC FEMALE 74° SEAT

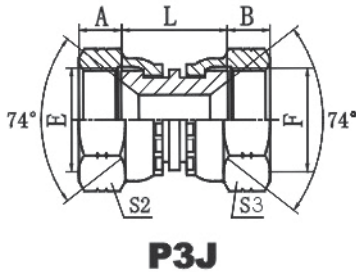


P2J9

PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	S1	S2	
P2J9-02	5/16"X24	5/16"X24	21	5.6	11	12	
P2J9-03	3/8"X24	3/8"X24	22	5	11	14	
P2J9-04	7/16"X20	7/16"X20	24.5	9	11	15	
P2J9-05	1/2"X20	1/2"X20	26.5	9.5	14	17	
P2J9-06	9/16"X18	9/16"X18	26.9	10.5	14	19	
P2J9-06-08	9/16"X18	3/4"X16	28.5	11	16	24	
P2J9-08-06	3/4"X16	9/16"X18	32	10.5	19	19	
P2J9-08	3/4"X16	3/4"X16	32	11	19	24	
P2J9-08-10	3/4"X16	7/8"X14	32	13	19	27	
P2J9-10	7/8"X14	7/8"X14	37.8	13	22	27	
P2J9-10-08	7/8"X14	3/4"X16	37.8	11	22	24	
P2J9-10-12	7/8"X14	1.1/16"X12	39.5	15	24	32	
P2J9-12	1.1/16"X12	1.1/16"X12	44.2	15	27	32	
P2J9-12-10	1.1/16"X12	7/8"X14	44.2	13	27	27	
P2J9-12-16	1.1/16"X12	1.5/16"X12	46	16	30	41	
P2J9-14	1.3/16"X12	1.3/16"X12	47.5	15	30	36	
P2J9-16	1.5/16"X12	1.5/16"X12	48.8	16	33	41	
P2J9-16-20	1.5/16"X12	1.5/8"X12	54	17	41	50	
P2J9-20-16	1.5/8"X12	1.5/16"X12	55.5	16	41	41	
P2J9-20	1.5/8"X12	1.5/8"X12	55.5	17	41	50	
P2J9-20-24	1.5/8"X12	1.7/8"X12	59.5	20	48	55	
P2J9-24-20	1.7/8"X12	1.5/8"X12	62.5	17	48	50	
P2J9-24	1.7/8"X12	1.7/8"X12	62.5	20	48	55	
P2J9-32	2.1/2"X12	2.1/2"X12	75.5	24.5	63	75	

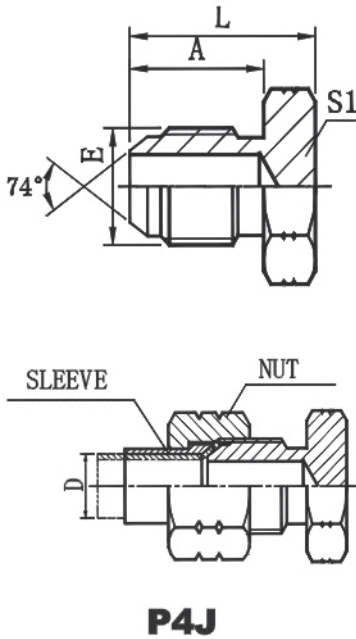
Note: Nut and sleeve should be ordered separately. The nut Nb200 and sleeve Nb500 is suitable for metric tube, the nut Nb200 and sleeve Nb300 is suitable inch tube.

JIC FEMALE 74° SEAT



PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	L	S2	S3
P3J-04	7/16"X20	7/16"X20	9	9	19	15	15
P3J-05	1/2"X20	1/2"X20	9.5	9.5	21	17	17
P3J-06	9/16"X18	9/16"X18	10.5	10.5	21	19	19
P3J-06-08	9/16"X18	3/4"X16	10.5	11	23	19	24
P3J-08	3/4"X16	3/4"X16	11	11	26	24	24
P3J-10	7/8"X14	7/8"X14	13	13	27	27	27
P3J-12	1.1/16"X12	1.1/16"X12	15	15	29	32	32
P3J-16	1.5/16"X12	1.5/16"X12	16	16	29	41	41
P3J-20	1.5/8"X12	1.5/8"X12	17	17	35	50	50
P3J-24	1.7/8"X12	1.7/8"X12	20	20	37	55	55

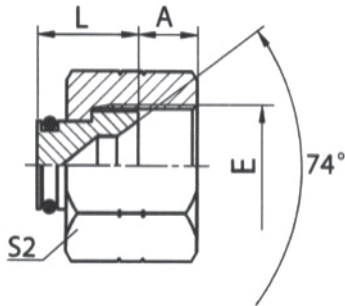
JIC MALE 74° CONE PLUG



PART NO.	THREAD		DIMENSIONS			
	E		A	L	S1	
P4J-04	7/16"X20		14	20	12	
P4J-05	1/2"X20		14	20	14	
P4J-06	9/16"X18		14.1	20	17	
P4J-08	3/4"X16		16.7	25	22	
P4J-10	7/8"X14		19.3	27.5	24	
P4J-12	1.1/16"X12		21.9	32	30	
P4J-14	1.3/16"X12		22.6	33.5	32	
P4J-16	1.5/16"X12		23.1	34	36	
P4J-20	1.5/8"X12		24.3	38	46	
P4J-24	1.7/8"X12		27.5	44.5	50	
P4J-32	2.1/2"X12		33.9	51	65	

Note: Nut and sleeve should be ordered separately. The nut Nb200 and sleeve Nb500 is suitable for metric tube, the nut Nb200 and sleeve Nb300 is suitable inch tube.

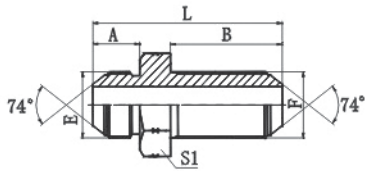
JIC FEMALE 74° SEAT PLUG



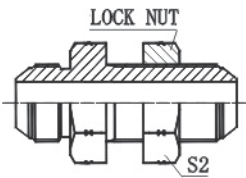
P9J

PART NO.	THREAD			DIMENSIONS				
	E			A	L	S2		
P9J-04	7/16"X20			9	10.5	15		
P9J-05	1/2"X20			9.5	11	17		
P9J-06	9/16"X18			10.5	11	19		
P9J-08	3/4"X16			11	13	24		
P9J-10	7/8"X14			13	13.5	27		
P9J-12	1.1/16"X12			15	15	32		
P9J-14	1.3/16"X12			15	15	36		
P9J-16	1.5/16"X12			16	15.5	41		
P9J-20	1.5/8"X12			17	18.5	50		
P9J-24	1.7/8"X12			20	19	55		
P9J-32	2.1/2"X12			23.5	20.5	75		

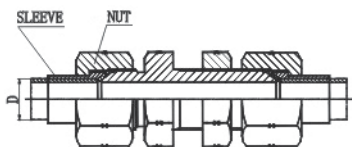
JIC MALE 74° CONE BULKHEAD



P6J



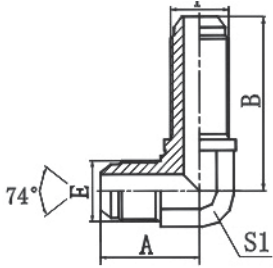
P6J-LN



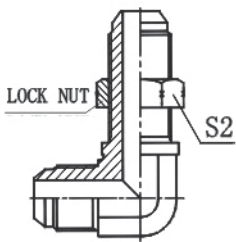
PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	L	S1	S2
6J-04	7/16"X20	7/16"X20	14	32.5	52.5	17	17
6J-05	1/2"X20	1/2"X20	14	32.5	52.5	19	19
6J-06	9/16"X18	9/16"X18	14.1	32.5	54.5	22	22
6J-08	3/4"X16	3/4"X16	16.7	36.5	61.5	24	24
6J-10	7/8"X14	7/8"X14	19.3	40	69.5	30	30
6J-12	1.1/16"X12	1.1/16"X12	21.9	44.5	78.5	36	36
6J-14	1.3/16"X12	1.3/16"X12	22.6	44.5	79.2	38	38
6J-16	1.5/16"X12	1.5/16"X12	23.1	44.5	79.8	41	41
6J-20	1.5/8"X12	1.5/8"X12	24.3	45.7	84	50	50
6J-24	1.7/8"X12	1.7/8"X12	27.5	46	89.5	55	55
6J-32	2.1/2"X12	2.1/2"X12	33.9	53.1	106.7	70	70

Note: In case if you are interested to order the adapter with lock nut, please insert suffix "LN" after our part NO., for example 6J-12LN. Nut and sleeve should be ordered separately. The nut Nb200 and sleeve Nb500 is suitable for metric tube, the nut NB200 and sleeve NB300 is suitable for inch tube.

90° ELBOW JIC MALE 74° CONE BULKHEAD



P6J9



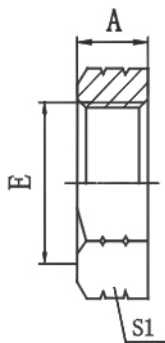
P6J9-LN



PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	S1	S2	
6J9-04	7/16"X20	7/16"X20	24.5	40.4	11	17	
6J9-05	1/2"X20	1/2"X20	26.6	43.7	14	19	
6J9-06	9/16"X18	9/16"X18	27.7	46	14	22	
6J9-08	3/4"X16	3/4"X16	34.5	53.5	19	24	
6J9-10	7/8"X14	7/8"X14	39.6	60.7	22	30	
6J9-12	1.1/16"X12	1.1/16"X12	45.2	67.8	27	36	
6J9-14	1.3/16"X12	1.3/16"X12	48.2	69.5	30	38	
6J9-16	1.5/16"X12	1.5/16"X12	50	71	33	41	
6J9-20	1.5/8"X12	1.5/8"X12	57.5	79.2	41	50	

Note: In case if you are interested to order the adapter with lock nut, please insert suffix "LN" after our part NO., for example 6J9-12LN. Nut and sleeve should be ordered separately. The nut Nb200 and sleeve Nb500 is suitable for metric tube, the nut NB200 and sleeve NB300 is suitable for inch tube.

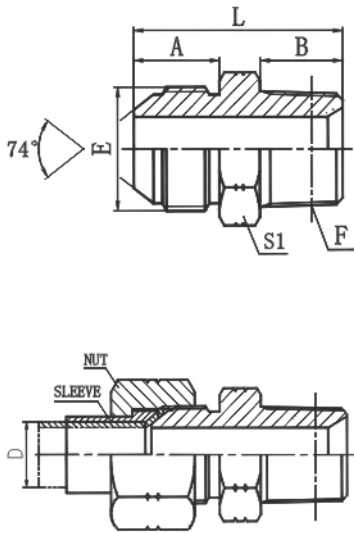
JIC LOCKNUT



P8J

PART NO.	THREAD		DIMENSIONS				
	E		A	S1			
8J-04	7/16"X20		7	17			
8J-05	1/2"X20		7	19			
8J-06	9/16"X18		7	22			
8J-08	3/4"X16		8	24			
8J-10	7/8"X14		9	30			
8J-12	1.1/16"X12		10.5	36			
8J-14	1.3/16"X12		10.5	38			
8J-16	1.5/16"X12		10.5	41			
8J-20	1.5/8"X12		10.5	50			
8J-24	1.7/8"X12		10.5	55			
8J-32	2.1/2"X12		10.5	70			

JIC MALE 74° CONE / NPT MALE

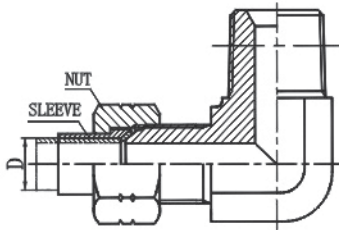
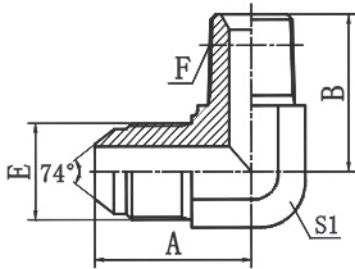


P1JN

PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	L	S1	
P1JN-02	5/16"X24	Z1/8"X27	11.4	10.5	28	12	
P1JN-04-02	7/16"X20	Z1/8"X27	14	10.5	30.5	12	
P1JN-04	7/16"X20	Z1/4"X18	14	15	35	17	
P1JN-04-06	7/16"X20	Z3/8"X18	14	16	36	19	
P1JN-04-08	7/16"X20	Z1/2"X14	14	19.5	41.5	24	
P1JN-05-04	1/2"X20	Z1/4"X18	14	15	35	17	
P1JN-05-06	1/2"X20	Z3/8"X18	14	16	36	19	
P1JN-05-08	1/2"X20	Z1/2"X14	14	19.5	41.5	24	
P1JN-06-04	9/16"X18	Z1/4"X18	14.1	15	34.5	17	
P1JN-06	9/16"X18	Z3/8"X18	14.1	16	36	19	
P1JN-06-08	9/16"X18	Z1/2"X14	14.1	19.5	41.5	24	
P1JN-08-04	3/4"X16	Z1/4"X18	16.7	15	39	22	
P1JN-08-06	3/4"X16	Z3/8"X18	16.7	16	40	22	
P1JN-08	3/4"X16	Z1/2"X14	16.7	19.5	44	24	
P1JN-08-12	3/4"X16	Z3/4"X18	16.7	19.5	46.5	30	
P1JN-10-06	7/8"X14	Z3/8"X18	19.3	16	43.5	24	
P1JN-10-08	7/8"X14	Z1/2"X14	19.3	19.5	47	24	
P1JN-10-12	7/8"X14	Z3/4"X14	19.3	19.5	49	30	
P1JN-12-08	1.1/16"X12	Z1/2"X14	21.9	19.5	51	30	
P1JN-12	1.1/16"X12	Z3/4"X14	21.9	19.5	51.5	30	
P1JN-12-16	1.1/16"X12	Z1"X11.5	21.9	25.5	58.5	36	
P1JN-12-20	1.1/16"X12	Z1.1/4"X11.5	21.9	26.5	61.5	46	
P1JN-14-12	1.3/16"X12	Z3/4"X14	22.6	19.5	53	32	
P1JN-16-12	1.5/16"X12	Z3/4"X14	23.1	19.5	53.5	36	
P1JN-16	1.5/16"X12	Z1"X11.5	23.1	25.5	58.5	36	
P1JN-16-20	1.5/16"X12	Z1.1/4"X11.5	23.1	26.5	62.5	46	
P1JN-16-24	1.5/16"X12	Z1.1/2"X11.5	23.1	27.5	65.5	50	
P1JN-20-16	1.5/8"X12	Z1"X11.5	24.3	25.5	63	46	
P1JN-20	1.5/8"X12	Z1.1/4"X11.5	24.3	26.5	63.5	46	
P1JN-20-24	1.5/8"X12	Z1.1/2"X11.5	24.3	27.5	67	50	
P1JN-24-20	1.7/8"X12	Z1.1/4"X11.5	27.5	26.5	69	50	
P1JN-24	1.7/8"X12	Z1.1/2"X11.5	27.5	27.5	70	50	
P1JN-24-32	1.7/8"X12	Z2"X11.5	27.5	27.5	72	65	
P1JN-32	2.1/2"X12	Z2"X11.5	33.9	27.5	78.5	65	
P1JN-32-24	2.1/2"X12	Z1.1/2"X11.5	33.9	27.5	78.5	65	

Note: Nut and sleeve should be ordered separately. The nut Nb200 and sleeve Nb500 is suitable for metric tube, the nut Nb200 and sleeve Nb300 is suitable inch tube.

90° ELBOW JIC MALE 74° CONE / NPT MALE

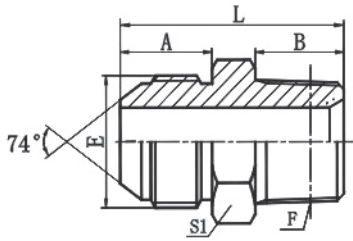


P1JN9

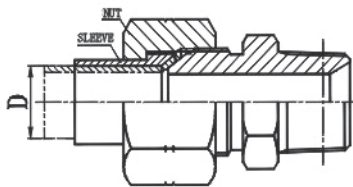
PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	S1		
P1JN9-02	5/16"X24	Z1/8"X27	21	21	11		
P1JN9-03-02	3/8"X24	Z1/8"X27	22	21	11		
P1JN9-04	7/16"X20	Z1/4"X18	26.6	25.5	14		
P1JN9-04-02	7/16"X20	Z1/8"X27	24.5	21	11		
P1JN9-04-06	7/16"X20	Z3/8"X18	29.5	31	19		
P1JN9-05-02	1/2"X20	Z1/8"X27	26.6	23.5	14		
P1JN9-05-04	1/2"X20	Z1/4"X18	26.6	25.5	14		
P1JN9-05-06	1/2"X20	Z3/8"X18	29.5	31	19		
P1JN9-06	9/16"X18	Z3/8"X18	30	31	19		
P1JN9-06-04	9/16"X18	Z1/4"X18	26.9	25.5	14		
P1JN9-06-08	9/16"X18	Z1/2"X14	32	36.7	22		
P1JN9-08	3/4"X16	Z1/2"X14	34.8	37.3	22		
P1JN9-08-04	3/4"X16	Z1/4"X18	32	28.5	19		
P1JN9-08-12	3/4"X16	Z3/8"X18	32	31	19		
P1JN9-08-08	3/4"X16	Z3/4"X14	37.9	44	27		
P1JN9-10-06	7/8"X14	Z3/8"X18	37.8	32.5	22		
P1JN9-10-08	7/8"X14	Z1/2"X14	37.8	37.3	22		
P1JN9-10-12	7/8"X14	Z3/4"X14	41	44	27		
P1JN9-10-16	7/8"X14	Z1"X11.5	44.5	50	33		
P1JN9-12	1.1/16"X12	Z3/4"X14	44.2	44	27		
P1JN9-12-08	1.1/16"X12	Z1/2"X14	44.2	40	27		
P1JN9-12-16	1.1/16"X12	Z1"X11.5	49	50	33		
P1JN9-12-20	1.1/16"X12	Z1.1/4"X11.5	52.5	54.5	41		
P1JN9-14-12	1.3/16"X12	Z3/4"X14	47.5	45	30		
P1JN9-14-16	1.3/16"X12	Z1"X11.5	48.7	50	33		
P1JN9-16	1.5/16"X12	Z1"X11.5	49	50	33		
P1JN9-16-12	1.5/16"X12	Z3/4"X14	49	45.2	33		
P1JN9-16-20	1.5/16"X12	Z1.1/4"X11.5	54	60.5	41		
P1JN9-16-24	1.5/16"X12	Z1.1/2"X11.5	59.4	59.5	48		
P1JN9-20	1.5/8"X12	Z1.1/4"X11.5	55.5	54.5	41		
P1JN9-20-16	1.5/8"X12	Z1"X11.5	55.5	54.5	41		
P1JN9-20-24	1.5/8"X12	Z1.1/2"X11.5	59.4	63	48		
P1JN9-24	1.7/8"X12	Z1.1/2"X11.5	62.5	63	48		
P1JN9-24-20	1.7/8"X12	Z1.1/4"X11.5	62.5	63	48		
P1JN9-32-24	2.1/2"X12	Z1.1/2"X11.5	75.4	70	63		
P1JN9-32	2.1/2"X12	Z2"X11.5	75.4	67.5	63		

Note: Nut and sleeve should be ordered separately. The nut Nb200 and sleeve Nb500 is suitable for metric tube, the nut Nb200 and sleeve Nb300 is suitable inch tube.

JIC MALE 74° CONE / BSPT MALE



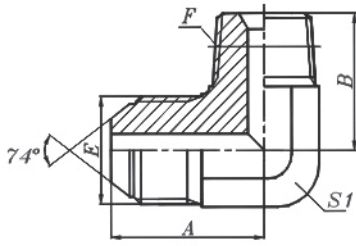
P1JT-SP



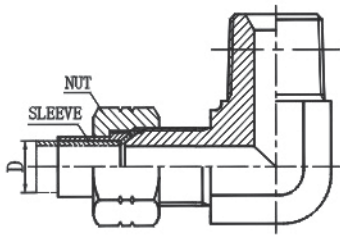
PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	L	S1	
1JT-04-02SP	7/16"X20	R1/8"X28	14	10	30	12	
1JT-04SP	7/16"X20	R1/4"X19	14	14.5	34.5	14	
1JT-04-06SP	7/16"X20	R3/8"X19	14	15	35	17	
1JT-05-02SP	1/2"X20	R1/8"X28	14	10.5	30.5	14	
1JT-05-04SP	1/2"X20	R1/4"X19	14	14.5	34	14	
1JT-05-06SP	1/2"X20	R3/8"X19	14	15	35	19	
1JT-06-02SP	9/16"X18	R1/8"X28	14.1	10.5	30.5	17	
1JT-06-04SP	9/16"X18	R1/4"X19	14.1	14.5	34	17	
1JT-06SP	9/16"X18	R3/8"X19	14.1	15	34	17	
1JT-06-08SP	9/16"X18	R1/2"X14	14.1	20	41	22	
1JT-08-06SP	3/4"X16	R3/8"X19	16.7	15	39	22	
1JT-08SP	3/4"X16	R1/2"X14	16.7	20	44.5	22	
1JT-08-12SP	3/4"X16	R3/4"X14	16.7	20	46	30	
1JT-10-06SP	7/8"X14	R3/8"X19	19.3	15	42.5	24	
1JT-10-08SP	7/8"X14	R1/2"X14	19.3	20	46.5	24	
1JT-10-12SP	7/8"X14	R3/4"X14	19.3	20	48.5	30	
1JT-12-08SP	1.1/16"X12	R1/2"X14	21.9	20	51	30	
1JT-12SP	1.1/16"X12	R3/4"X14	21.9	20	51	30	
1JT-12-16SP	1.1/16"X12	R1"X11	21.9	25.5	57.5	36	
1JT-14-12SP	1.3/16"X12	R3/4"X14	22.6	20	52.5	32	
1JT-14-16SP	1.3/16"X12	R1"X11	22.6	25.5	57.5	36	
1JT-16-12SP	1.5/16"X12	R3/4"X14	23.1	20	53	36	
1JT-16SP	1.5/16"X12	R1"X11	23.1	25.5	59	36	
1JT-16-20SP	1.5/16"X12	R1.1/4"X11	23.1	26.5	61.5	46	
1JT-20-16SP	1.5/8"X12	R1"X11	24.3	25.5	62.5	46	
1JT-20-SP	1.5/8"X12	R1.1/4"X11	24.3	26.5	63	46	
1JT-20-24SP	1.5/8"X12	R1.1/2"X14	24.3	26.5	66.5	50	
1JT-24-20SP	1.7/8"X12	R1.1/4"X11	27.5	26.5	67.5	50	
1JT-24-SP	1.7/8"X12	R1.1/2"X11	27.5	26.5	69.5	50	
1JT-24-32SP	1.7/8"X12	R2"X11	27.5	30	74.5	65	
1JT-32-24SP	2.1/2"X12	R1.1/2"X11	33.9	26.5	77.5	65	
1JT-32SP	2.1/2"X12	R2"X11	33.9	30	80	65	

Note: Nut and sleeve should be ordered separately. The nut NB200 and sleeve NB500 is suitable for metric tube, the nut NB200 and sleeve NB300 is suitable for inch tube.

90° ELBOW JIC MALE 74° CONE / BSPT MALE



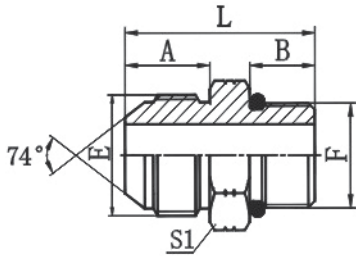
P1JT9-SP



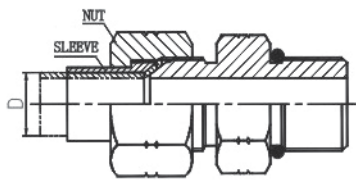
PART NO.	THREAD		DIMENSIONS			
	E	F	A	B	S1	
1JT9-02SP	5/16"X24	R1/8"X28	20.5	21	11	
1JT9-04-02SP	7/16"X20	R1/8"X28	24.5	21	11	
1JT9-04SP	7/16"X20	R1/4"X19	26.6	25.5	14	
1JT9-04-06SP	7/16"X20	R3/8"X19	27.5	28	16	
1JT9-05-02SP	1/2"X20	R1/8"X28	26.6	23.5	14	
1JT9-05-04SP	1/2"X20	R1/4"X19	26.6	25.5	14	
1JT9-05-06SP	1/2"X20	R3/8"X19	27.5	28	16	
1JT9-06-02SP	9/16"X18	R1/8"X28	26.9	23.5	14	
1JT9-06-04SP	9/16"X18	R1/4"X19	26.9	25.5	14	
1JT9-06SP	9/16"X18	R3/8"X19	28.5	28.5	16	
1JT9-06-08SP	9/16"X18	R1/2"X14	32	36	22	
1JT9-08-04SP	3/4"X16	R1/4"X19	32	28	19	
1JT9-08-06SP	3/4"X16	R3/8"X19	32	30.5	19	
1JT9-08SP	3/4"X16	R1/2"X14	34.8	36	22	
1JT9-08-12SP	3/4"X16	R3/4"X14	37.9	43.5	27	
1JT9-10-06SP	7/8"X14	R3/8"X19	38	32	22	
1JT9-10-08SP	7/8"X14	R1/2"X14	37.8	36	22	
1JT9-10-12SP	7/8"X14	R3/4"X14	41	43.5	27	
1JT9-12-08SP	1.1/16"X12	R1/2"X14	44.2	40	27	
1JT9-12SP	1.1/16"X12	R3/4"X14	44.2	43.5	27	
1JT9-12-16SP	1.1/16"X12	R1"X11	47.8	50	33	
1JT9-16-12SP	1.5/16"X12	R3/4"X14	49	47.5	33	
1JT9-16SP	1.5/16"X12	R1"X11	49	50	33	
1JT9-16-20SP	1.5/16"X12	R1.1/4"X11	54	56.5	41	
1JT9-20-16SP	1.5/8"X12	R1"X11	55.5	56.5	41	
1JT9-20SP	1.5/8"X12	R1.1/4"X11	55.5	56.5	41	
1JT9-24-20SP	1.7/8"X12	R1.1/4"X11	62.5	61	48	
1JT9-24SP	1.7/8"X12	R1.1/2"X11	62.5	62.5	48	
1JT9-24-32SP	1.7/8"X12	R2"X11	74.5	67	63	
1JT9-32SP	2.1/2"X12	R2"X11	75.4	67	63	

Note: Nut and sleeve should be ordered separately. The nut NB200 and sleeve NB500 is suitable for metric tube, the nut NB200 and sleeve NB300 is suitable for inch tube.

JIC MALE 74° CONE / SAE O-RING L-SERIES ISO 11926-3



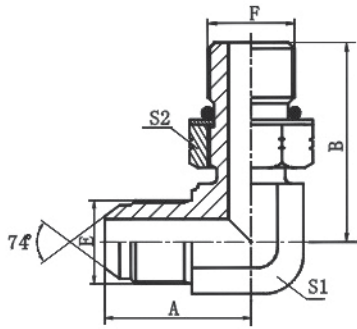
P1JO



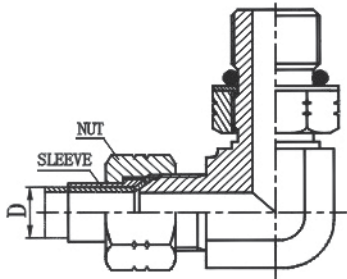
PART NO.	THREAD		O-RING	DIMENSIONS			
	E	F		F	A	B	L
1JO-04-02	7/16"X20	5/16"X24	O902	14	7.54	27.5	14
1JO-04-03	7/16"X20	3/8"X24	O903	14	7.54	27.5	14
1JO-04	7/16"X20	7/16"X20	O904	14	9.14	29	14
1JO-04-05	7/16"X20	1/2"X20	O905	14	9.14	29	17
1JO-04-06	7/16"X20	9/16"X18	O906	14	9.93	30	17
1JO-04-08	7/16"X20	3/4"X16	O908	14	11.13	33	22
1JO-05	1/2"X20	1/2"X20	O905	14	9.14	29	17
1JO-05-04	1/2"X20	7/16"X20	O904	14	9.14	29	14
1JO-05-06	1/2"X20	9/16"X18	O906	14	9.93	30	17
1JO-05-08	1/2"X20	3/4"X16	O908	14	11.13	33	22
1JO-06	9/16"X18	9/16"X18	O906	14.1	9.93	30	17
1JO-06-04	9/16"X18	7/16"X20	O904	14.1	9.14	29	17
1JO-06-05	9/16"X18	1/2"X20	O905	14.1	9.14	29.5	17
1JO-06-08	9/16"X18	3/4"X16	O908	14.1	11.13	33	22
1JO-06-10	9/16"X18	7/8"X14	O910	14.1	12.7	37	27
1JO-06-12	9/16"X18	1.1/16"X12	O912	14.1	15.09	40	32
1JO-08	3/4"X16	3/4"X16	O908	16.7	11.13	36	22
1JO-08-04	3/4"X16	7/16"X20	O904	16.7	9.14	34	22
1JO-08-06	3/4"X16	9/16"X18	O906	16.7	9.93	35	22
1JO-08-10	3/4"X16	7/8"X14	O910	16.7	12.7	40	27
1JO-08-12	3/4"X16	1.1/16"X12	O912	16.7	15.09	43	32
1JO-08-14	3/4"X16	1.3/16"X12	O914	16.7	15.09	43	36
1JO10	7/8"X14	7/8"X14	O910	19.3	12.7	42.5	27
1JO-10-08	7/8"X14	3/4"X16	O908	19.3	11.13	39	24
1JO-10-12	7/8"X14	1.1/16"X12	O912	19.3	15.09	45.5	32
1JO-10-14	7/8"X14	1.3/16"X12	O914	19.3	15.09	45.5	36
1JO-12	1.1/16"X12	1.1/16"X12	O912	21.9	15.09	48	32
1JO-12-08	1.1/16"X12	3/4"X16	O908	21.9	11.13	43	30
1JO-12-10	1.1/16"X12	7/8"X14	O910	21.9	12.7	45	30
1JO-12-14	1.1/16"X12	1.3/16"X12	O914	21.9	15.09	48	36
1JO-12-16	1.1/16"X12	1.5/16"X12	O916	21.9	15.09	48	38
1JO-14	1.3/16"X12	1.3/16"X12	O914	22.6	15.09	48.5	36
1JO-14-12	1.3/16"X12	1.1/16"X12	O912	22.6	15.09	48.5	32
1JO-14-16	1.3/16"X12	1.5/16"X12	O916	22.6	15.09	50.5	38
1JO-16	1.5/16"X12	1.5/16"X12	O916	23.1	15.09	49	38
1JO-16-12	1.5/16"X12	1.1/16"X12	O912	23.1	15.09	49	36
1JO-16-14	1.5/16"X12	1.3/16"X12	O914	23.1	15.09	49	36
1JO-16-20	1.5/16"X12	1.5/8"X12	O920	23.1	15.09	53	50
1JO-20	1.5/8"X12	1.5/8"X12	O920	24.3	15.09	54.5	50
1JO-20-16	1.5/8"X12	1.5/16"X12	O916	24.3	15.09	52.5	46
1JO-20-24	1.5/8"X12	1.7/8"X12	O924	24.3	15.09	54.5	55
1JO-24	1.7/8"X12	1.7/8"X12	O924	27.5	15.09	57.5	55
1JO-24-20	1.7/8"X12	1.5/8"X12	O920	27.5	15.09	57.5	50
1JO-24-32	1.7/8"X12	2.1/2"X11	O932	27.5	15.09	59.5	70
1JO-32	2.1/2"X11	2.1/2"X11	O932	33.9	15.09	66	70

Note: Nut and sleeve should be ordered separately. The nut NB200 and sleeve NB500 is suitable for metric tube, the nut NB200 and sleeve NB300 is suitable for inch tube.

90° ELBOW JIC MALE 74° CONE / SAE O-RING L-SERIES ISO 11926-3



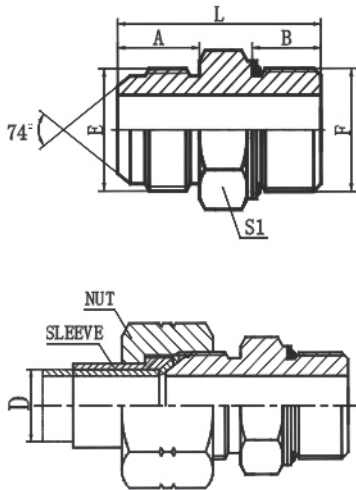
P1J09-0G



PART NO.	THREAD		O-RING F端	DIMENSIONS				
	E	F		A	B	S1	S2	
1J09-04-030G	7/16"X20	3/8"X24	O903	24.5	28	11	14	
1J09-040G	7/16"X20	7/16"X20	O904	24.5	27.2	11	17	
1J09-04-050G	7/16"X20	1/2"X20	O905	26.6	29.9	14	17	
1J09-04-060G	7/16"X20	9/16"X18	O906	26.6	31.8	14	19	
1J09-05-040G	1/2"X20	7/16"X20	O904	26.6	30	14	17	
1J09-050G	1/2"X20	1/2"X20	O905	26.6	29	14	17	
1J09-05-060G	1/2"X20	9/16"X18	O906	26.6	31.8	14	19	
1J09-06-040G	9/16"X18	7/16"X20	O904	26.9	30	14	17	
1J09-06-050G	9/16"X18	1/2"X20	O905	26.9	29.9	14	17	
1J09-060G	9/16"X18	9/16"X18	O906	26.9	31.8	14	19	
1J09-06-080G	9/16"X18	3/4"X16	O908	30	36.8	19	24	
1J09-08-040G	3/4"X16	7/16"X20	O904	32	33	19	17	
1J09-08-060G	3/4"X16	9/16"X18	O906	33	33.5	19	19	
1J09-080G	3/4"X16	3/4"X16	O908	33	36.8	19	24	
1J09-08-100G	3/4"X16	7/8"X14	O910	34.8	44	22	27	
1J09-08-120G	3/4"X16	1.1/16"X12	O912	37.9	51	27	32	
1J09-10-080G	7/8"X14	3/4"X16	O908	38	40	22	27	
1J09-100G	7/8"X14	7/8"X14	O910	37.8	44	22	27	
1J09-10-120G	7/8"X14	1.1/16"X12	O912	41	51	27	32	
1J09-12-080G	1.1/16"X12	3/4"X16	O908	45	44	27	24	
1J09-12-100G	1.1/16"X12	7/8"X14	O910	44.2	47	27	27	
1J09-120G	1.1/16"X12	1.1/16"X12	O912	44.2	51	27	32	
1J09-12-160G	1.1/16"X12	1.5/16"X12	O916	47.8	54.5	33	41	
1J09-140G	1.3/16"X12	1.3/16"X12	O914	47.5	53	30	36	
1J09-14-160G	1.3/16"X12	1.5/16"X12	O916	48.5	54.5	33	41	
1J09-16-120G	1.5/16"X12	1.1/16"X12	O912	48.8	54.5	33	32	
1J09-16-140G	1.5/16"X12	1.3/16"X12	O914	49	56	33	36	
1J09-160G	1.5/16"X12	1.5/16"X12	O916	48.8	54.5	33	41	
1J09-16-200G	1.5/16"X12	1.5/8"X12	O920	53.8	59	41	50	
1J09-20-160G	1.5/8"X12	1.5/16"X12	O916	55.5	59.5	41	41	
1J09-200G	1.5/8"X12	1.5/8"X12	O920	55.3	59	41	50	
1J09-20-240G	1.5/8"X12	1.7/8"X12	O924	59.4	63	48	55	
1J09-240G	1.7/8"X12	1.7/8"X12	O924	62.5	63	48	55	
1J09-320G	2.1/2"X12	2.1/2"X12	O932	80	76	63	70	

Note: Nut and sleeve should be ordered separately. The nut NB200 and sleeve NB500 is suitable for metric tube, the nut NB200 and sleeve NB300 is suitable for inch tube.

JIC MALE 74° CONE / BSP MALE WITH O-RING

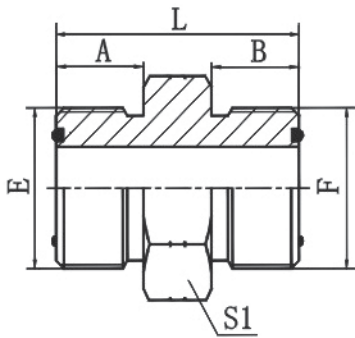


P1JG

PART NO.	THREAD		O-RING		DIMENSIONS				
	E	F		F	A	B	L	S1	
1JG-04-02	7/16"X20	G 1/8"X28		O011	14	9.5	31	14	
1JG-04	7/16"X20	G 1/4"X19		O111	14	10	32.5	19	
1JG-04-06	7/16"X20	G 3/8"X19		O113	14	11.5	34	22	
1JG-04-08	7/16"X20	G 1/2"X14		O115	14	14	39	27	
1JG-05-04	1/2"X20	G 1/4"X19		O111	14	10	33	19	
1JG-05-06	1/2"X20	G 3/8"X19		O113	14	11.5	36	22	
1JG-05-08	1/2"X20	G 1/2"X14		O115	14	14	39	27	
1JG-06-04	9/16"X18	G 1/4"X19		O111	14.1	11	31.5	19	
1JG-06	9/16"X18	G 3/8"X19		O113	14.1	11.5	34	22	
1JG-06-08	9/16"X18	G 1/2"X14		O115	14.1	14	39	27	
1JG-08-04	3/4"X16	G 1/4"X19		O111	16.7	10	36	22	
1JG-08-06	3/4"X16	G 3/8"X19		O113	16.7	11.5	37	22	
1JG-08	3/4"X16	G 1/2"X14		O115	16.7	14	42	27	
1JG-08-12	3/4"X16	G 3/4"X14		O119	16.7	15.5	44	32	
1JG-10-06	7/8"X14	G 3/8"X19		O113	19.3	11.5	39.5	24	
1JG-10-08	7/8"X14	G 1/2"X14		O115	19.3	14	44.5	27	
1JG-10-12	7/8"X14	G 3/4"X14		O119	19.3	15.5	48.5	32	
1JG-12-08	1.1/16"X12	G 1/2"X14		O115	22	14	49	30	
1JG-12	1.1/16"X12	G 3/4"X14		O119	22	15.5	49.5	32	
1JG-12-16	1.1/16"X12	G 1"X11		O217	22	18	54	41	
1JG-2-20	1.1/16"X12	G 1.1/4"X11		O222	22	20	57	50	
1JG-16-12	1.5/16"X12	G 3/4"X14		O119	23	15.5	52.5	36	
1JG-16	1.5/16"X12	G 1"X11		O217	23	18	55	41	
1JG-16-20	1.5/16"X12	G 1.1/4"X11		O222	23	20	58	50	
1JG-20-16	1.5/8"X12	G 1"X11		O217	24.3	18	58	46	
1JG-20	1.5/8"X12	G 1.1/4"X11		O222	24.3	20	59.5	50	
1JG-24-16	1.7/8"X12	G 1"X11		O217	27.5	18	63.5	50	
1JG-24-20	1.7/8"X12	G 1.1/4"X11		O222	27.5	20	65.5	50	
1JG-24	1.7/8"X12	G 1.1/2"X11		O224	27.5	21.5	64	55	

Note: Nut and sleeve should be ordered separately. The nut NB200 and sleeve NB500 is suitable for metric tube, the nut NB200 and sleeve NB300 is suitable for inch tube.

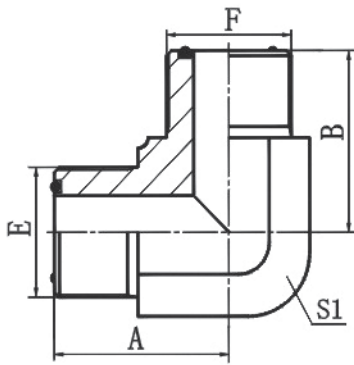
ORFS MALE O-RING



P1F

PART NO.	THREAD		O-RING		DIMENSIONS				
	E	F	E	F	A	B	L	S1	
P1F-04	9/16"X18	9/16"X18	O011	O011	9.8	9.8	27.5	17	
P1F-04-06	9/16"X18	11/16"X16	O011	O012	9.8	11.2	29.7	19	
P1F-04-08	9/16"X18	13/16"X16	O011	O014	9.8	12.8	32.5	22	
P1F-06	11/16"X16	11/16"X16	O012	O012	11.2	11.2	31.1	19	
P1F-06-08	11/16"X16	13/16"X16	O012	O014	11.2	12.8	33.8	22	
P1F-06-10	11/16"X16	1"X14	O012	O016	11.2	15.5	38	27	
P1F-08	13/16"X16	13/16"X16	O014	O014	12.8	12.8	35.4	22	
P1F-08-10	13/16"X16	1"X14	O014	O016	12.8	15.5	40	27	
P1F-08-12	13/16"X16	1.3/16"X12	O014	O018	12.8	17	43	32	
P1F-10	1"X14	1"X14	O016	O016	15.5	15.5	42.5	27	
P1F-10-12	1"X14	1.3/16"X12	O016	O018	15.5	17	45.5	32	
P1F-12	1.3/16"X12	1.3/16"X12	O018	O018	17	17	47.1	32	
P1F-12-16	1.3/16"X12	1.7/16"X12	O018	O021	17	17.5	45.5	38	
P1F-12-20	1.3/16"X12	1.11/16"X12	O018	O025	17	17.5	50.5	46	
P1F-16	1.7/16"X12	1.7/16"X12	O021	O021	17.5	17.5	49.3	38	
P1F-16-20	1.7/16"X12	1.11/16"X12	O021	O025	17.5	17.5	51.3	46	
P1F-16-24	1.7/16"X12	2"X12	O021	O029	17.5	17.5	53	55	
P1F-20	1.11/16"X12	1.11/16"X12	O025	O025	17.5	17.5	51.3	46	
P1F-20-24	1.11/16"X12	2"X12	O025	O029	17.5	17.5	53	55	
P1F-24	2"X12	2"X12	O029	O029	17.5	17.5	53	55	

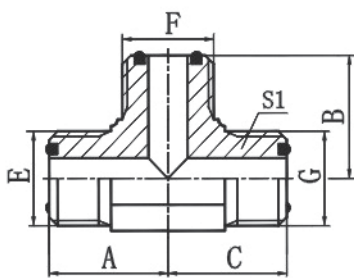
90° ELBOW ORFS MALE O-RING



P1F9

PART NO.	THREAD		O-RING		DIMENSIONS				
	E	F	E	F	A	B	S1		
P1F9-04	9/16"X18	9/16"X18	O011	O011	23	23	14		
P1F9-04-06	9/16"X18	11/16"X16	O011	O012	25.5	27	19		
P1F9-06	11/16"X16	11/16"X16	O012	O012	27.5	27.5	19		
P1F9-06-08	11/16"X16	13/16"X16	O012	O014	29	31	22		
P1F9-08	13/16"X16	13/16"X16	O014	O014	31	31	22		
P1F9-08-12	13/16"X16	1.3/16"X12	O014	O018	35.5	40.3	30		
P1F9-10	1"X14	1"X14	O016	O016	36.5	36.5	27		
P1F9-12	1.3/16"X12	1.3/16"X12	O018	O018	41	41	30		
P1F9-16	1.7/16"X12	1.7/16"X12	O021	O021	44.5	44.5	36		
P1F9-20	1.11/16"X12	1.11/16"X12	O025	O025	47.5	47.5	41		
P1F9-24	2"X12	2"X12	O029	O029	53.5	53.5	50		

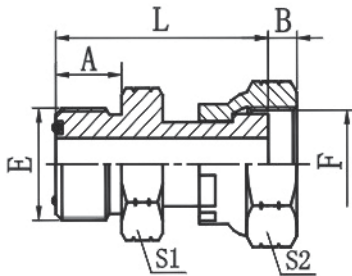
ORFS MALE O-RING TEE



PAF

PART NO.	THREAD			O-RING			DIMENSIONS				
	E	F	G	E	F	G	A	B	C	S1	
AF-04	9/16"X18	9/16"X18	9/16"X18	O011	O011	O011	23	23	23	14	
AF-06	11/16"X16	11/16"X16	11/16"X16	O012	O012	O012	27	27	27	19	
AF-08	13/16"X16	13/16"X16	13/16"X16	O014	O014	O014	31	31	31	22	
AF-10	1"X14	1"X14	1"X14	O016	O016	O016	36.5	36.5	36.5	27	
AF-12	1.3/16"X12	1.3/16"X12	1.3/16"X12	O018	O018	O018	40.5	40.3	40.3	30	
AF-16	1.7/16"X12	1.7/16"X12	1.7/16"X12	O021	O021	O021	44.5	44.5	44.5	36	
AF-20	1.11/16"X12	1.11/16"X12	1.11/16"X12	O025	O025	O025	47.5	47.5	47.5	41	
AF-24	2"X12	2"X12	2"X12	O029	O029	O029	53.5	53.5	53.5	50	

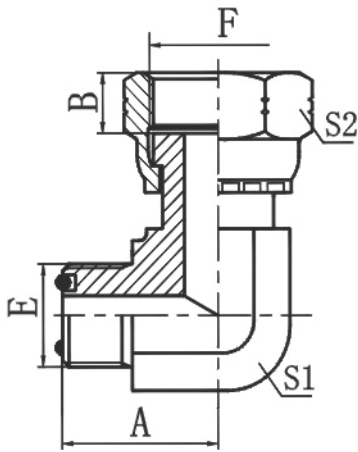
ORFS MALE O-RING / ORFS FEMALE



P2F

PART NO.	THREAD		O-RING		DIMENSIONS				
	E	F	E		A	B	L	S1	S2
P2F-04	9/16"X18	9/16"X18	O011		9.8	8.5	33	17	19
P2F-04-06	9/16"X18	11/16"X16	O011		9.8	10	34.5	17	22
P2F-04-08	9/16"X18	13/16"X16	O011		9.8	11	36.5	19	27
P2F-06-04	11/16"X16	9/16"X18	O012		11.2	8.5	35.5	19	19
P2F-06	11/16"X16	11/16"X16	O012		11.2	10	38.5	19	22
P2F-06-08	11/16"X16	13/16"X16	O012		11.2	11	37.7	19	27
P2F-06-10	11/16"X16	1"X14	O012		11.2	13.5	43.7	24	30
P2F-08-06	13/16"X16	11/16"X16	O014		13	10	41	22	22
P2F-08	13/16"X16	13/16"X16	O014		13	11	43	22	27
P2F-8-10	13/16"X16	1"X14	O014		13	13.5	45.5	24	30
P2F-08-12	13/16"X16	1.3/16"X12	O014		13	15	49	30	36
P2F-10-08	1"X14	13/16"X16	O016		15.5	11	47.5	27	27
P2F-10	1"X14	1"X14	O016		15.5	13.5	51.5	27	30
P2F-10-12	1"X14	1.3/16"X12	O016		15.5	15	51.5	30	36
P2F-10-16	1"X14	1.7/16"X12	O016		15.5	15	56	36	41
P2F-12-08	1.3/16"X12	13/16"X16	O018		17	11	50.5	32	27
P2F-12-10	1.3/16"X12	1"X14	O018		17	13.5	54.5	32	30
P2F-12	1.3/16"X12	1.3/16"X12	O018		17	15	56	32	36
P2F-12-16	1.3/16"X12	1.7/16"X12	O018		17	15	58	36	41
P2F-16-12	1.7/16"X12	1.3/16"X12	O021		17.5	15	58	38	36
P2F-6	1.7/16"X12	1.7/16"X12	O021		17.5	15	60	38	41
P2F-16-20	1.7/16"X12	1.11/16"X12	O021		17.5	15	62	41	50
P2F-20-16	1.11/16"X12	1.7/16"X12	O025		17.5	15	58.5	46	41
P2F-20	1.11/16"X12	1.11/16"X12	O025		17.5	15	62	46	50
P2F-20-24	1.11/16"X12	2"X12	O025		17.5	16	65.5	50	60
P2F-24-20	2"X12	1.11/16"X12	O029		17.5	15	64	55	50
P2F-24	2"X12	2"X12	O029		17.5	16	64	55	60

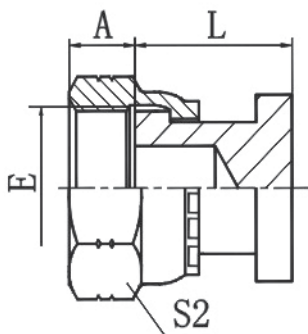
90° ELBOW ORFS MALE O-RING / ORFS FEMALE



P2F9

PART NO.	THREAD		O-RING		DIMENSIONS				
	E	F	E端		A	B	S1	S2	
P2F9-04	9/16"X18	9/16"X18	O011		23	8.5	14	19	
P2F9-04-06	9/16"X18	11/16"X16	O011		23	10	14	22	
P2F9-06-04	11/16"X16	9/16"X18	O012		27.5	8.5	19	19	
P2F9-06	11/16"X16	11/16"X16	O012		27.5	10	19	22	
P2F9-06-08	11/16"X16	13/16"X16	O012		27	11	19	27	
P2F9-08-06	13/16"X16	11/16"X16	O014		31	10	22	22	
P2F9-08	13/16"X16	13/16"X16	O014		31	11	22	27	
P2F9-10-08	1"X14	13/16"X16	O016		36.5	11	27	27	
P2F9-10	1"X14	1"X14	O016		36.5	15	27	30	
P2F9-10-12	1"X14	1.3/16"X12	O016		36.5	15	27	36	
P2F9-12	1.3/16"X12	1.3/16"X12	O018		41	15	30	36	
P2F9-12-16	1.3/16"X12	1.7/16"X12	O018		42.5	15	33	41	
P2F9-16-12	1.7/16"X12	1.3/16"X12	O021		44.5	15	36	36	
P2F9-16	1.7/16"X12	1.7/16"X12	O021		44.5	15	36	41	
P2F9-20	1.11/16"X12	1.11/16"X12	O025		44.5	15	41	50	
P2F9-24	2"X12	2"X12	O029		53.5	15	50	60	

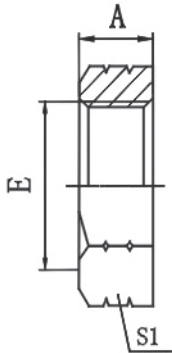
ORFS FEMALE PLUG



P9F

PART NO.	THREAD			DIMENSIONS				
	E			A	L	S2		
P9F-04	9/16"X18			8.5	10.5	19		
P9F-06	11/16"X16			10	13	22		
P9F-08	13/16"X16			11	14	27		
P9F-10	1"X14			13.5	16	30		
P9F-12	1.3/16"X12			15	15	36		
P9F-16	1.7/16"X12			15	18	41		
P9F-20	1.11/16"X12			15	19	50		
P9F-24	2"X12			16	21	60		

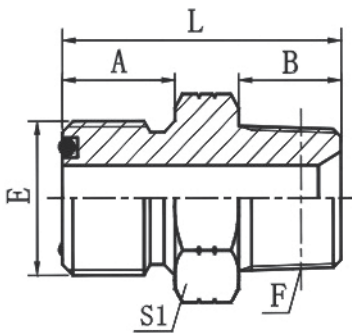
ORFS LOK NUT



P8F

PART NO.	THREAD			DIMENSIONS				
	E			A	S1			
P8F-04	9/16"X18			7	22			
P8F-06	11/16"X16			8	27			
P8F-08	13/16"X16			9	30			
P8F-10	1"X14			10.4	36			
P8F-12	1.3/16"X12			10.4	38			
P8F-16	1.7/16"X12			10.4	46			
P8F-20	1.11/16"X12			10.4	50			
P8F-24	2"X12			10.4	60			

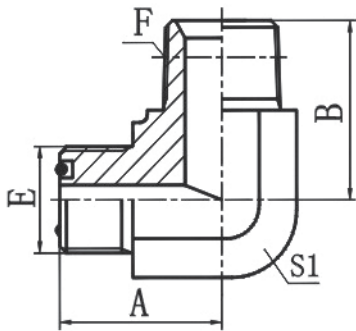
ORFS MALE O-RING / NPT MALE



P1FN

PART NO.	THREAD		O-RING	DIMENSIONS				
	E	F	E	A	B	L	S1	
P1FN-04-02	9/16"X18	Z1/8"X27	O011	9.8	10.5	26.5	17	
P1FN-04	9/16"X18	Z1/4"X18	O011	9.8	15	30.5	17	
P1FN-04-06	9/16"X18	Z3/8"X18	O011	9.8	16	30.5	19	
P1FN-06-04	11/16"X16	Z1/4"X18	O012	11.2	15	32	19	
P1FN-06	11/16"X16	Z3/8"X18	O012	11.2	16	33.5	19	
P1FN-06-08	11/16"X16	Z1/2"X14	O012	11.2	19.5	39	24	
P1FN-08-04	13/16"X16	Z1/4"X18	O014	12.8	15	36	22	
P1FN-08-06	13/16"X16	Z3/8"X18	O014	12.8	16	36.5	22	
P1FN-08	13/16"X16	Z1/2"X14	O014	12.8	19.5	40	24	
P1FN-08-12	13/16"X16	Z3/4"X14	O014	12.8	19.5	42.5	30	
P1FN-10-08	1"X14	Z1/2"X14	O016	15.5	19.5	45	27	
P1FN-10-12	1"X14	Z3/4"X14	O016	15.5	19.5	45	30	
P1FN-12-08	1.3/16"X12	Z1/2"X14	O018	17	19.5	46.5	32	
P1FN-12	1.3/16"X12	Z3/4"X14	O018	17	19.5	47	32	
P1FN-12-16	1.3/16"X12	Z1"X11.5	O018	17	25.5	53.5	36	
P1FN-16-12	1.7/16"X12	Z3/4"X14	O021	17.5	19.5	48	38	
P1FN-16	1.7/16"X12	Z1"X11.5	O021	17.5	25.5	53.5	38	
P1FN-16-20	1.7/16"X12	Z1.1/4"X11.5	O021	17.5	26.5	57	46	
P1FN-20-16	1.11/16"X12	Z1"X11.5	O025	17.5	25.5	56	46	
P1FN-20	1.11/16"X12	Z1.1/4"X11.5	O025	17.5	26.5	56.5	46	
P1FN-20-24	1.11/16"X12	Z1.1/2"X11.5	O025	17.5	27.5	60	50	
P1FN-24	2"X12	Z1.1/2"X11.5	O029	17.5	27.5	59.5	55	

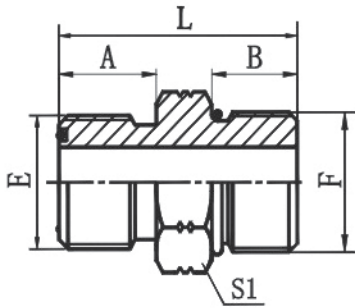
90° ELBOW ORFS MALE O-RING / NPT MALE



P1FN9

PART NO.	THREAD		O -RING		DIMENSIONS				
	E	F	E		A	B	S1		
P1FN9-04-02	9/16"X18	Z1/8"X27	O011		23	24	14		
P1FN9-04	9/16"X18	Z1/4"X18	O011		23	25.5	14		
P1FN9-06-04	11/16"X16	Z1/4"X18	O012		27	28.5	19		
P1FN9-06	11/16"X16	Z3/8"X18	O012		27.5	31	19		
P1FN9-06-08	11/16"X16	Z1/2"X14	O012		29	36.7	22		
P1FN9-08-06	13/16"X16	Z3/8"X18	O014		31	33.5	22		
P1FN9-08	13/16"X16	Z1/2"X14	O014		31	37.3	22		
P1FN9-08-12	13/16"X16	Z3/4"X14	O014		34.5	44	27		
P1FN9-10-08	1"X14	Z1/2"X14	O016		36.5	40	27		
P1FN9-10-12	1"X14	Z3/4"X14	O016		36.5	44	27		
P1FN9-12-08	1.3/16"X12	Z1/2"X14	O018		40.3	41.5	30		
P1FN9-12	1.3/16"X12	Z3/4"X14	O018		41	45.5	30		
P1FN9-12-16	1.3/16"X12	Z1"X11.5	O018		43	50	33		
P1FN9-16-12	1.7/16"X12	Z3/4"X14	O021		44.5	49	36		
P1FN9-16	1.7/16"X12	Z1"X11.5	O021		44.5	51.5	36		
P1FN9-20-16	1.11/16"X12	Z1"X11.5	O025		47.5	54.5	41		
P1FN9-20	1.11/16"X12	Z1.1/4"X11.5	O025		47.5	54.5	41		
P1FN9-24	2"X12	Z1.1/2"X11.5	O029		53.5	61	50		

ORFS MALE O-RING / SAE O-RING BOSS S-SERIES ISO 11926-2



P1FO

PART NO.	THREAD		O-RING		DIMENSIONS				
	E	F	E端	F端	A	B	L	S1	
P1FO-04	9/16"X18	7/16"X20	O011	O904	9.8	11	28.7	17	
P1FO-4-05	9/16"X18	1/2"X20	O011	O905	9.8	11	28.7	17	
P1FO-04-06	9/16"X18	9/16"X18	O011	O906	9.8	12	29.5	17	
P1FO-04-08	9/16"X18	3/4"X16	O011	O908	9.8	14	33.5	22	
P1FO-06-04	11/16"X16	7/16"X20	O012	O904	11.2	11	31	19	
P1FO-06-05	11/16"X16	1/2"X20	O012	O905	11.2	11	30.9	19	
P1FO-06	11/16"X16	9/16"X18	O012	O906	11.2	12	31.9	19	
P1FO-06-08	11/16"X16	3/4"X16	O012	O908	11.2	14	35	22	
P1FO-06-10	11/16"X16	7/8"X14	O012	O910	11.2	16	38.5	27	
P1FO-08-06	13/16"X16	9/16"X18	O014	O906	12.8	12	34.5	22	
P1FO-08	13/16"X16	3/4"X16	O014	O908	12.8	14	36.6	22	
P1FO-08-10	13/16"X16	7/8"X14	O014	O910	12.8	16	40.5	27	
P1FO-08-12	13/16"X16	1.1/16"X12	O014	O912	12.8	18.5	44.5	32	
P1FO-10	1"X14	7/8"X14	O016	O910	15.5	16	43.1	27	
P1FO-10-08	1"X14	3/4"X16	O016	O908	15.5	14	41	27	
P1FO-10-12	1"X14	1.1/16"X12	O016	O912	15.5	18.5	47	32	
P1FO-12-10	1.3/16"X12	7/8"X14	O018	O910	17	16	46	32	
P1FO-12	1.3/16"X12	1.1/16"X12	O018	O912	17	18.5	48.6	32	
P1FO-12-16	1.3/16"X12	1.5/16"X12	O018	O916	17	18.5	49.8	38	
P1FO-16-12	1.7/16"X12	1.1/16"X12	O021	O912	17.5	18.5	50	38	
P1FO-16	1.7/16"X12	1.5/16"X12	O021	O916	17.5	18.5	50.3	38	
P1FO-16-20	1.7/16"X12	1.5/8"X12	O021	O920	17.5	18.5	52	50	
P1FO-20-16	1.11/16"X12	1.5/16"X12	O025	O916	17.5	18.5	52	46	
P1FO-20	1.11/16"X12	1.5/8"X12	O025	O920	17.5	18.5	52.3	50	
P1FO-24-20	2"X12	1.5/8"X12	O029	O920	17.5	18.5	54	55	
P1FO-24	2"X12	1.7/8"X12	O029	O924	17.5	18.5	54.1	55	

Note: F end is connected with ISO 11926-1 port.

ISO TYPE - A HYDRAULIC QUICK RELEASE COUPLING (STEEL)



Socket with valve Plug with valve

Applications

This Series brings to the industry a proven design for use on construction equipment, forestry equipment, agricultural machinery, oil tools, steel mill machinery, and other demanding hydraulic applications.

Features

This Series couplings feature:

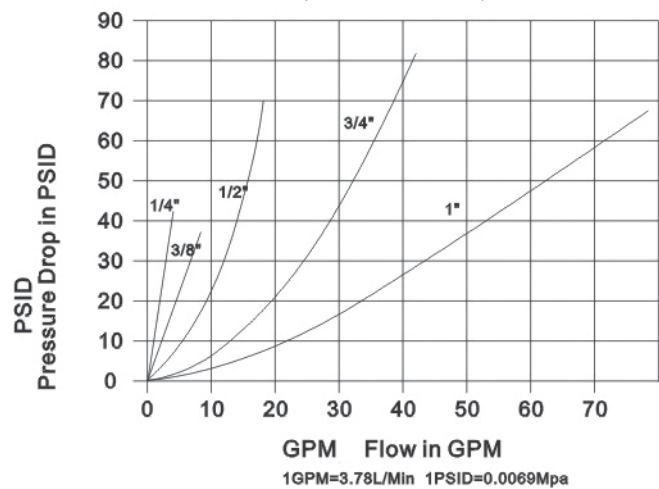
- Poppet valves available to prevent uncoupled leakage.
- Ball valves available for rugged dependability in heavy-duty hydraulic applications, within rated working pressure.
- Critical parts are induction hardened for durability.
- Dependable ball-locking mechanism holds the mating halves together.
- Socked and plug are precision machined from solid bar stock.
- This series conforms to the standard of ISO7241-A.

Specifications

Body Size(in)	1/4	3/8	1/2	3/4	1
Rated Pressur(PSI)	5000	4000	4000	3000	3000
Rated Flow(GPM)	3	6	12	28	50
Temperature Range(std seals)	-20°C to +80°C				
Standard seal material	Buna-N(Nitrile)				

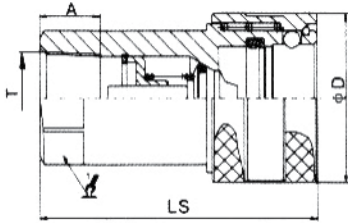
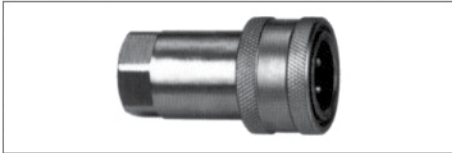
Performance

ISO-A (1/4", 3/8", 1/2", 3/4", 1")
 ISO-B (1/4", 3/8", 1/2", 3/4", 1")
 200SUS (Test Fluid: Oil-200SUS)



ISO TYPE - A HYDRAULIC QUICK RELEASE COUPLING (STEEL)

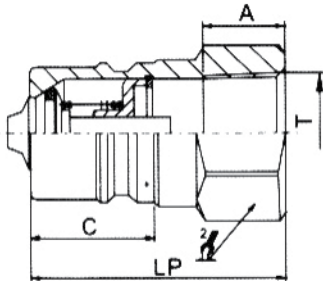
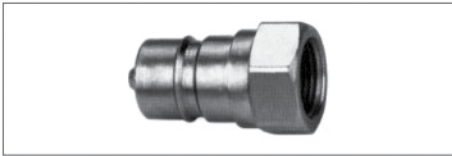
Socket



Socket with valve Plug with valve

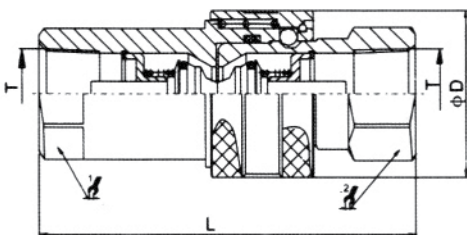
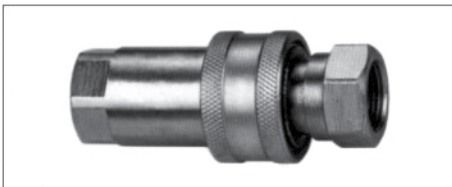
PART NO.	LS	ØD		A	T
4000-04 F	49.5	26	19	13	G1/4
4000-06 F	56	31.5	22	14	G3/8
4000-08 F	66	39	27	16	G1/2
4000-12 F	80	48	34	18	G3/4
4000-16 F	95.5	58	41	21	G1

Plug



PART NO.	LP	ØD		A	T
4000-04 M	35.5	14.5	17	13	G1/4
4000-06 M	36.5	21.4	22	14	G3/8
4000-08 M	43.5	27	27	16	G1/2
4000-12 M	57	28	35	18	G3/4
4000-16 M	59.5	36	41	21	G1

Coupling Fitting



PART NO.	L	ØD			T
4000-04	71	26	19	17	G1/4
4000-06	75	31.5	22	22	G3/8
4000-08	88	39	27	27	G1/2
4000-12	110	48	34	35	G3/4
4000-16	120	58	41	41	G1

ISO TYPE - B HYDRAULIC QUICK RELEASE COUPLING (STEEL)



Socket with valve Plug with valve

Features

This series of couplings features:

- Poppet valves available to prevent uncoupled leakage.
- Ball valves available for rugged dependability in heavy-duty hydraulic applications, within rated working pressure.
- Critical parts are induction hardened for durability.
- Dependable ball-locking mechanism holds the mating halves together.
- Socked and plug are precision machined from solid bar stock.
- These series conforms to the standard of ISO7241-B.

Applications

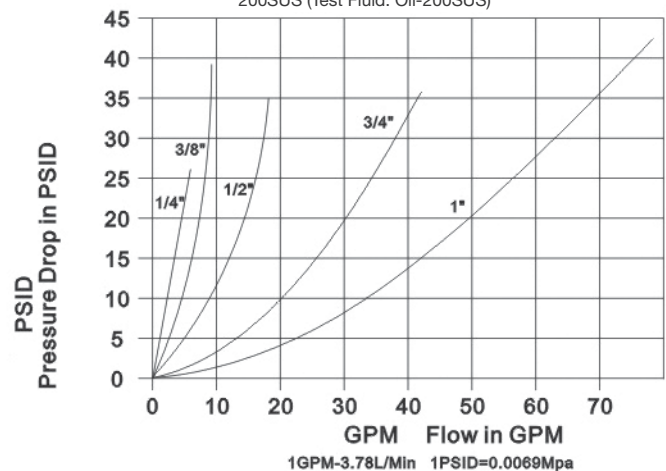
These couplings are used across the spectrum of hydraulic applications. These Double Shut-Off couplings can be found anywhere that fluid transfer lines need to be connected and disconnected for operation or maintenance of equipment, and a loss of fluid is undesirable. These are used in construction equipment, forestry equipment, agricultural machinery, oil tools, steel mill machinery, and other demanding hydraulic applications.

Specifications

Body Size(in)	1/4	3/8	1/2	3/4	1
Rated Pressur(PSI)	5000	4000	4000	3000	3000
Rated Flow(GPM)	3	6	12	28	50
Temperature Range(std seals)	-20°C to +80°C				
Standard seal material	Buna-N(Nitrile)				

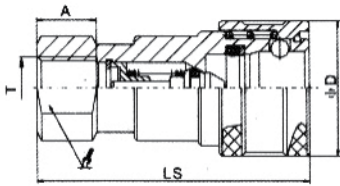
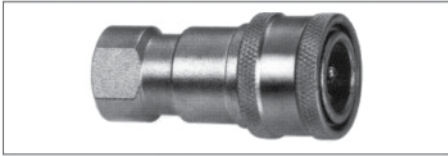
Performance

ISO-A (1/4", 3/8", 1/2", 3/4", 1")
 ISO-B (1/4", 3/8", 1/2", 3/4", 1")
 200SUS (Test Fluid: Oil-200SUS)

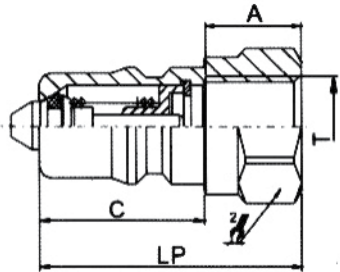
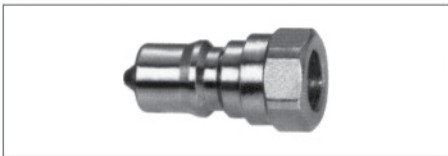


ISO TYPE - B HYDRAULIC QUICK RELEASE COUPLING (STEEL)

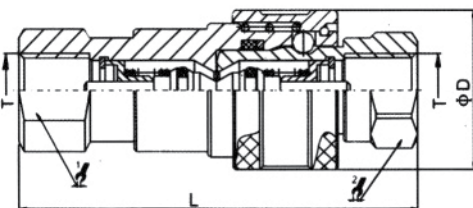
Socket



Plug



Coupling Fitting



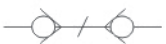
Socket with valve Plug with valve

PART NO.	LS	ØD		A	T
4000H-04 F	58	28.5	19	13	G 1/4
4000H-06 F	65	35	24	13	G 3/8
4000H-08 F	77	44.5	28.5	20.5	G 1/2
4000H-12 F	92	54	36	22	G 3/4
4000H-16 F	103	63.5	41	23	G 1

PART NO.	LP	ØD		A	T
4000H-04 M	36	22.8	19	13	G 1/4
4000H-06 M	40	25	24	13	G 3/8
4000H-08 M	46.5	28	28.5	20.5	G 1/2
4000H-12 M	56	36	36	22	G 3/4
4000H-16 M	63	45	41	23	G 1

PART NO.	L	ØD			T
4000H-04	72	28.5	19	19	G 1/4
4000H-06	80	35	24	24	G 3/8
4000H-08	97	44.5	28.5	28.5	G 1/2
4000H-12	113	54	35	36	G 3/4
4000H-16	126.5	63.5	46	41	G 1

ISO TYPE - A HYDRAULIC QUICK RELEASE COUPLING (STEEL)



Socket with valve Plug with valve

Features

This series of couplings features:

- Poppet valves available to prevent uncoupled leakage.
- Ball valves available for rugged dependability in heavy-duty hydraulic applications, within rated working pressure.
- Critical parts are induction hardened for durability.
- Dependable ball-locking mechanism holds the mating halves together.
- Socked and plug are precision machined from solid bar stock.
- This series conforms to the standard of ISO7241-A.

Applications

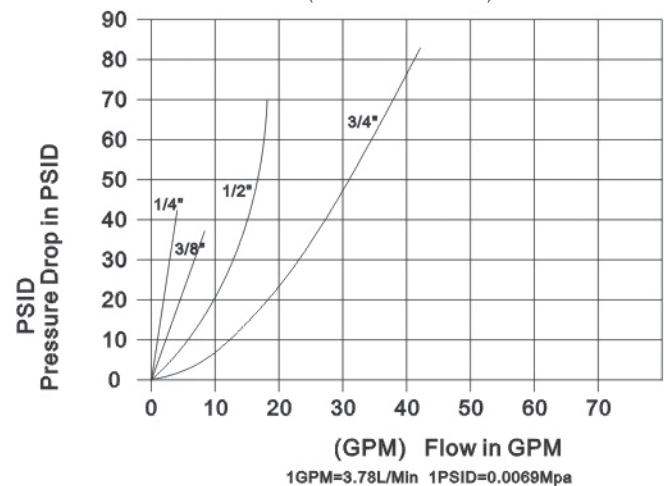
This Series brings to the industry a proven design for use on construction equipment, forestry equipment, agricultural machinery, oil tools, steel mill machinery, and other demanding hydraulic applications.

Specifications

Body Size(in)	1/4	3/8	1/2	3/4
Rated Pressur(PSI)	5000	4000	4000	3000
Rated Flow(GPM)	3	6	12	28
Temperature Range(std seals)	-20°C to +80°C			
Standard seal material	Buna-N(Nitrile)			

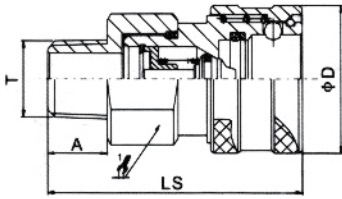
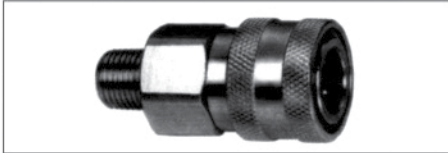
Performance

ISO-A (1/4", 3/8", 1/2", 3/4", 1")
 ISO-B (1/4", 3/8", 1/2", 3/4", 1")
 200SUS (Test Fluid: Oil-200SUS)



ISO TYPE - A HYDRAULIC QUICK RELEASE COUPLING (STEEL)

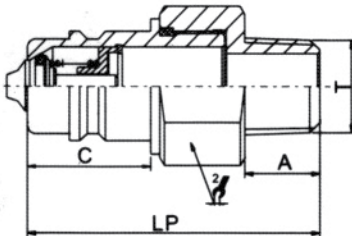
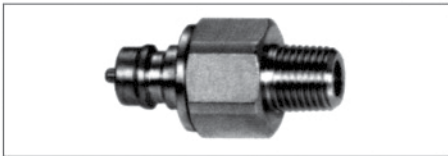
Socket



Socket with valve Plug with valve

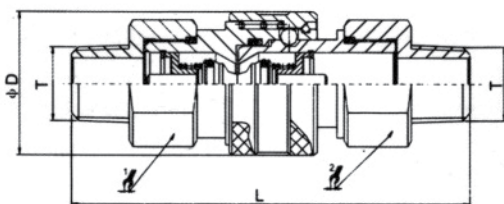
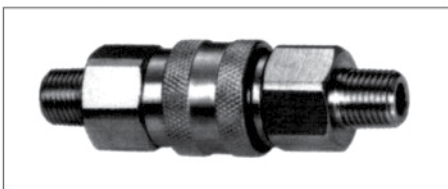
PART NO.	LS	ØD		A	T
7000M-04F	53.5	26	22	13	ZG 1/4
7000M-06F	57.5	31.5	27	13	ZG 3/8
7000M-08F	67.5	39	30	16	ZG 1/2
7000M-12F	81.5	48	36	18	ZG 3/4

Plug



PART NO.	LP	ØD		A	T
7000M-04M	45	14.5	22	13	ZG 1/4
7000M-06M	53	21.4	27	13	ZG 3/8
7000M-08M	63.5	27	30	16	ZG 1/2
7000M-12M	66.5	28	36	18	ZG 3/4

Coupling Fitting



PART NO.	L	ØD			T
7000M-04	85.5	26	22	22	ZG 1/4
7000M-06	93.5	31.5	27	27	ZG 3/8
7000M-08	110	39	30	30	ZG 1/2
7000M-12	118.5	48	36	36	ZG 3/4



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Al Quoz Location Map

