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HYDRAULIC HOSE & FITTING





SOLTECH

HYDRAULIC HOSE

DIN 20 022-1SN/2SN, SAE 100R1/R2/R12, DIN 20 023-4SP, EN856 TYPE 4SP

Conforms to DIN 20 022 - 1SN, SAE 100R1 AT type

Construction: Inner tube of oil resistant sythetic rubber, single braid of high tensile steel wire reinforcement and an oil and weather resistant, black synthetic rubber cover.

Application and Temperature Range: Petroleum based hydraulic fluids and lubricationg oils within a temperature range of -40°C to +100°C

Note: Operating temperature in excess of +100°C may materially reduce the service life of hose assembly.

【 R 1 】



Hose I.D.			Reinforcement		Hose O.D.	Max. W.P.	Min. B.P.	Min. B.R.	Length
Model	inch	mm	spiral	max./min.(mm)	max./min.(mm)	psi(bar)	psi(bar)	inch(mm)	meter(feet)
R1-04	1/4	6.4	1W	11.7/ 10.6	14.1/ 12.6	3,250(225.0)	13,000(900.0)	4.02(102)	60(196.8)
R1-05	5/16	7.9		13.3/ 12.1	15.7/ 14.2	3,250(345.0)	13,000(900.0)	4.49(114)	60(196.8)
R1-06	3/8	9.5		15.7/ 14.5	18.1/ 16.6	3,000(206.0)	12,000(824.0)	5.00(127)	60(196.8)
R1-08	1/2	12.7		19.0/ 17.5	21.5/ 20.0	2,500(275.0)	10,000(688.0)	7.01(178)	60(196.8)
R1-10	5/8	15.9		22.2/ 20.6	24.7/ 23.2	2,000(137.0)	8,000(548.0)	7.99(203)	60(196.8)
R1-12	3/4	19.0		28.2/ 24.6	28.6/ 27.1	1,750(120.0)	7,000(480.0)	9.49(241)	60(196.8)
R1-16	1	25.4		34.1/ 32.5	36.6/ 35.1	1,275(88.0)	5,100(352.0)	12.01(305)	20(65.6)
R1-20	1-1/4	31.8		41.7/ 39.3	44.8/ 42.8	900(62.0)	3,600(248.0)	16.50(419)	20(65.6)
R1-24	1-1/2	38.1		48.0/ 45.6	52.0/ 49.5	725(50.0)	2,900(200.0)	20.00(508)	20(65.6)
R1-32	2	50.8		61.9/ 58.7	65.9/ 63.4	575(40.0)	2,300(160.0)	25.00(635)	20(65.6)

Conforms to DIN 20 022 - 2SN, SAE 100R2 AT type

Construction: Inner tube of oil resistant sythetic rubber, two braid of high tensile steel wire reinforcement and an oil and weather resistant, black synthetic rubber cover.

Application and Temperature Range: Petroleum based hydraulic fluids and lubricationg oils within a temperature range of -40°C to +100°C

Note: Operating temperature in excess of +100°C may materially reduce the service life of hose assembly.

【 R 2 】



Hose I.D.			Reinforcement		Hose O.D.	Max. W.P.	Min. B.P.	Min. B.R.	Length
Model	inch	mm	spiral	max./min.(mm)	max./min.(mm)	psi(bar)	psi(bar)	inch(mm)	meter(feet)
R2-04	1/4	6.4	2W	13.3/12.1	15.7/14.2	5,800(400)	23,200(1,600)	4.02(102)	60(196.8)
R2-05	5/16	7.9		14.9/13.7	17.3/15.8	5,250(362.0)	21,000(1,448.0)	4.49(114)	60(196.8)
R2-06	3/8	9.5		15.7/14.5	19.7/18.2	5,000(340.0)	20,000(1,360.0)	5.00(127)	60(196.8)
R2-08	1/2	12.7		20.6/19.0	23.1/21.6	4,270(294.0)	17,080(1,176.0)	7.01(178)	60(196.8)
R2-10	5/8	15.9		23.8/22.2	26.3/24.8	3,550(245.0)	14,200(980.0)	7.99(203)	60(196.8)
R2-12	3/4	19.0		27.8/26.2	30.2/28.7	3,100(214.0)	12,400(856.0)	9.49(241)	60(196.8)
R2-16	1	25.4		35.7/34.1	38.9/36.7	2,500(172.0)	10,000(688.0)	12.01(305)	20(65.6)
R2-20	1-1/4	31.8		45.6/43.2	49.6/47.1	2,250(155.0)	9,000(620.0)	16.50(419)	20(65.6)
R2-24	1-1/2	38.1		52.0/49.6	56.0/53.5	1,750(120.0)	7,000(480.0)	20.00(508)	20(65.6)
R2-32	2	50.8		64.7/62.3	68.6/66.1	1,250(86.0)	5,000(344.0)	25.00(635)	20(65.6)

Conforms to SAE 100R12

Construction: Inner tube of oil resistant sythetic rubber, four spiral plies of high tensile steel wire reinforcement and an oil and weather resistant, black synthetic rubber cover.

Application and Temperature Range: Petroleum based hydraulic fluids and lubricationg oils within a temperature range of -40°C to +100°C

Note: Operating temperature in excess of +100°C may materially reduce the service life of hose assembly.

【 R 1 2 】



Hose I.D.			Reinforcement		Hose O.D.	Max. W.P.	Min. B.P.	Min. B.R.	Length
Model	inch	mm	spiral	max./min.(mm)	max./min.(mm)	psi(bar)	psi(bar)	inch(mm)	meter(feet)
R12-08	1/2	12.7	4S	21.5/19.9	24.6/23.0	4,000(275.0)	16,000(1,100.0)	7.09(180)	20(65.6)
R12-10	5/8	15.9		25.4/23.8	28.2/26.6			7.87(200)	
R12-12	3/4	19.0		28.4/26.9	31.5/29.9			9.45(240)	
R12-16	1	25.4		35.7/34.1	39.2/36.8			11.81(300)	
R12-20	1-1/4	31.8		45.1/42.7	48.6/45.4	3,000(206.0)	12,000(824.0)	16.54(420)	
R12-24	1-1/2	38.1		51.6/49.2	55.1/51.9	2,500(172.0)	10,000(688.0)	19.69(500)	
R12-32	2	50.8		64.8/62.5	68.3/65.1	2,500(172.0)	10,000(688.0)	24.80(630.0)	

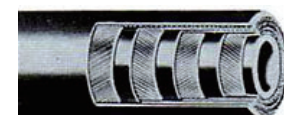
Conforms to DIN 20 023 - 4SP, EN856 Type 4SP

Construction: Inner tube of oil resistant sythetic rubber, four spiral plies of high tensile steel wire reinforcement and an oil and weather resistant, black synthetic rubber cover.

Application and Temperature Range: Petroleum based hydraulic fluids and lubricationg oils within a temperature range of -40°C to +100°C

Note: Operating temperature in excess of +100°C may materially reduce the service life of hose assembly.

【 4 SP 】



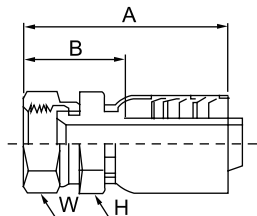
Hose I.D.			Reinforcement		Hose O.D.	Max. W.P.	Min. B.P.	Min. B.R.	Length
Model	inch	mm	spiral	max./min.(mm)	max./min.(mm)	psi(bar)	psi(bar)	inch(mm)	meter(feet)
4SP-08	1/2	12.7	4S	21.0/19.4	25.4/23.8	6,000(415.0)	24,000(1,660.0)	9.06(230)	20(65.6)
4SP-10	5/8	15.9		24.6/23.0	29.0/27.4	5,000(345.0)	20,000(1,380.0)	9.84(250)	
4SP-12	3/4	19.0		29.0/27.4	33.0/31.4	5,000(345.0)	20,000(1,380.0)	11.81(300)	
4SP-16	1	25.4		36.1/34.5	40.9/38.5	4,000(275.0)	16,000(1,100.0)	13.39(340)	
4SP-20	1-1/4	31.8		47.0/45.0	52.4/49.2	3,000(206.0)	12,000(824.0)	18.11(460)	
4SP-24	1-1/2	38.1		53.4/51.4	58.8/55.6	2,640(182.0)	10,560(728.0)	22.05(560)	
4SP-32	2	50.8		66.3/64.3	71.4/68.2	2,350(162.0)	9,400(648.0)	25.98(660.0)	



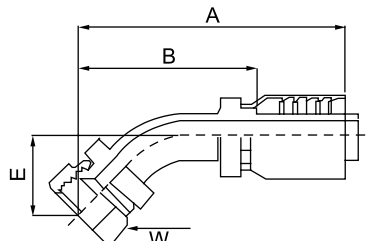
SOLTECH

HYDRAULIC HOSE FITTINGS-JIC

✱DIMENSIONS

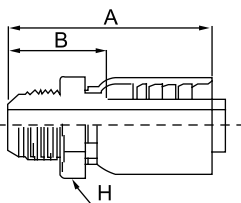


NJ
JIC 37° Female
Swivel Straight



NJ
JIC 37° Female
Swivel 45° Elbow

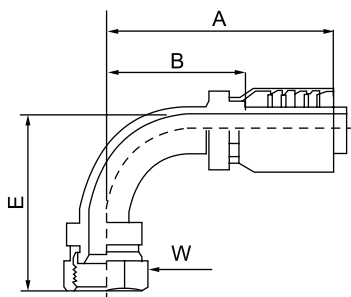
Model	UNF thread	Hose Model & Type		A	W	B	H		
NJ04-04	7/16x20	-4	1/4	1W.2W	57(2.24)	17(0.67)	27(1.06)	15(0.59)	
SUSNJ04-04	7/16x20				57(2.24)	17(0.67)	27(1.06)	15(0.59)	
NJ05-04	1/2x20				58(2.28)	19(0.75)	30(1.18)	17(0.67)	
NJ06-04	9/16x18				59(2.32)	19(0.75)	30(1.18)	17(0.67)	
NJ05-05	1/2x20	-5	5/16	1W.2W	58(2.28)	19(0.75)	30(1.18)	17(0.67)	
NJ06-05	9/16x18				65(2.56)	19(0.75)	33(1.30)	19(0.75)	
NJ06-06	9/16x18				63(2.48)	19(0.75)	31(1.22)	19(0.75)	
USNJ06-06	9/16x18				63(2.48)	19(0.75)	31(1.22)	19(0.75)	
NJ07-06	5/8x18	-6	3/8	1W.2W	65(2.56)	21(0.83)	33(1.30)	19(0.75)	
NJ08-06	3/4x16				67(2.64)	24(0.94)	34(1.34)	19(0.75)	
NJ08-08	3/4x16				70(2.76)	24(0.94)	34(1.34)	23(0.91)	
SUSNJ08-08	3/4x16				70(2.76)	24(0.94)	34(1.34)	23(0.91)	
NJ08-08 4S	3/4x16	-8	1/2	4S	70(2.76)	24(0.94)	34(1.34)	23(0.91)	
NJ10-08	7/8x14				72(2.83)	27(1.06)	36(1.42)	23(0.91)	
NJ12-08	1-1/16x12				75(2.95)	32(1.26)	40(1.57)	26(1.02)	
NJ10-10	7/8x14				74(2.91)	27(1.06)	38(1.50)	27(1.06)	
SUSNJ10-10	7/8x14	-10	5/8	1W.2W	74(2.91)	27(1.06)	38(1.50)	27(1.06)	
NJ10-10 4S	7/8x14				4S	84(3.31)	27(1.06)	38(1.50)	27(1.06)
NJ12-10 4S	1-1/16x12				4S	87(3.43)	32(1.26)	40(1.57)	32(1.26)
NJ10-12	7/8x14				1W.2W	82(3.23)	27(1.06)	38(1.50)	32(1.26)
NJ12-12	1-1/16x12	-12	3/4	1W.2W	82(3.23)	32(1.26)	40(1.57)	29(1.14)	
SUSNJ12-12	1-1/16x12				82(3.23)	32(1.26)	40(1.57)	29(1.14)	
NJ12-12 4S	1-1/16x12				4S	94(3.70)	32(1.26)	40(1.57)	32(1.26)
NJ16-12 4S	1-5/16x12				4S	95(3.74)	41(1.61)	42(1.65)	32(1.26)
NJ12-16	1-1/16x12	-16	1	1W.2W	92(3.62)	32(1.26)	40(1.57)	38(1.50)	
NJ16-16	1-5/16x12				94(3.70)	41(1.61)	45(1.77)	38(1.50)	
SUSNJ16-16	1-5/16x12				94(3.70)	41(1.61)	45(1.77)	38(1.50)	
NJ16-16 4S	1-5/16x12				110(4.33)	41(1.61)	45(1.77)	38(1.50)	
NJ20-16 4S	1-5/8x12	-20	1-1/4	4S	112(4.41)	50(1.97)	47(1.85)	46(1.81)	
NJ16-20 4S	1-5/16x12				115(4.53)	41(1.61)	50(1.97)	46(1.81)	
NJ20-20	1-5/8x12				1W.2W	111(4.37)	50(1.97)	53(2.09)	46(1.81)
SUSNJ20-20	1-5/8x12				1W.2W	111(4.37)	50(1.97)	53(2.09)	46(1.81)
NJ20-20 4S	1-5/8x12	-24	1-1/2	1W.2W	119(4.69)	50(1.97)	53(2.09)	46(1.81)	
SUSNJ24-24	1-7/8x12				123(4.84)	57(2.24)	56(2.20)	55(2.17)	
NJ24-24 4S	1-7/8x12				123(4.84)	57(2.24)	56(2.20)	55(2.17)	
NJ32-32 4S	2-1/2x12				4S	148(5.83)	75(2.95)	70(2.76)	65(2.56)



MJ
JIC 37° Male
Rigid Straight

Model	UNF thread	Hose Model & Type		A	H	B	
MJ04-04	7/16x20	-4	1/4	1W.2W	56(2.20)	17(0.67)	28(1.10)
MJ06-06	9/16x18	-6	3/8		62(2.44)	19(0.75)	31(1.22)
MJ08-06	3/4x16				64(2.52)	23(0.91)	33(1.30)
MJ08-08		1/2	70(2.76)		23(0.91)	35(1.38)	
MJ08-08 4S			4S	70(2.76)	23(0.91)	35(1.38)	
MJ10-08		7/8x14	5/8	1W.2W	71(2.80)	27(1.06)	36(1.42)
MJ10-08 4S	4S			71(2.80)	27(1.06)	36(1.42)	
MJ10-10	1W.2W			74(2.91)	27(1.06)	38(1.50)	
MJ10-10 4S	4S			84(3.31)	27(1.06)	38(1.50)	
MJ12-12	1-1/16x12	-12	3/4	1W.2W	83(3.27)	32(1.26)	40(1.57)
MJ12-12 4S				4S	93(3.66)	32(1.26)	40(1.57)
MJ16-16	1-5/16x12	-16	1	1W.2W	92(3.62)	38(1.50)	42(1.65)
MJ16-16 4S				4S	108(4.25)	38(1.50)	42(1.65)
MJ20-20	1-5/8x12	-20	1-1/4	1W.2W	110(4.33)	50(1.97)	60(2.36)
MJ24-24	1-7/8x12	-24	1-1/2	1W.2W	125(4.92)	57(2.24)	65(2.56)

Model	UNF thread	Hose Model & Type		A	W	B	E	
4NJ04-04	7/16x20	-4	1/4	1W.2W	81(3.19)	17(0.67)	50(1.97)	18(0.71)
4NJ06-04	9/16x18				83(3.27)	19(0.75)	54(2.13)	18(0.71)
4NJ06-06	9/16x18	95(3.74)	19(0.75)		62(2.44)	20(0.79)		
4NJ08-06	3/4x16	95(3.74)	24(0.94)		64(2.52)	22(0.87)		
4NJ08-08	3/4x16	-6	3/8	1W.2W	110(4.33)	24(0.94)	73(2.87)	28(1.10)
4NJ08-08 4S	3/4x16			4S	110(4.33)	24(0.94)	73(2.87)	28(1.10)
4NJ10-08	7/8x14			1W.2W	100(3.94)	27(1.06)	65(2.56)	25(0.98)
4NJ10-08 4S	7/8x14			4S	100(3.94)	27(1.06)	65(2.56)	25(0.98)
4NJ10-10	7/8x14	-8	1/2	1W.2W	110(4.33)	27(1.06)	73(2.87)	27(1.06)
4NJ10-10 4S	7/8x14			4S	120(4.72)	27(1.06)	73(2.87)	27(1.06)
4NJ12-12	1-1/16x12			1W.2W	115(4.53)	32(1.26)	67(2.64)	28(1.10)
4NJ12-12 4S	1-1/16x12			4S	125(4.92)	32(1.26)	70(2.76)	35(1.38)
4NJ16-16	1-5/16x12	-16	1	1W.2W	125(4.92)	41(1.61)	74(2.91)	38(1.50)
4NJ16-16 4S	1-5/16x12			4S	140(5.51)	41(1.61)	78(3.07)	38(1.50)
4NJ20-20	1-5/8x12			1W.2W	180(7.09)	50(1.97)	115(4.53)	53(2.09)
4NJ20-20 4S	1-5/8x12			4S	190(7.48)	50(1.97)	115(4.53)	53(2.09)



NJ
JIC 37° Female
Swivel 90° Elbow

Model	UNF thread	Hose Model & Type		A	W	B	E		
9NJ04-04	7/16x20	-4	1/4	1W.2W	62(2.44)	17(0.67)	35(1.38)	30(1.18)	
9NJ06-04	9/16x18				62(2.44)	19(0.75)	35(1.38)	31(1.22)	
9NJ06-06	9/16x18	74(2.91)	19(0.75)		42(1.65)	35(1.38)			
9NJ08-06	3/4x16	74(2.91)	24(0.94)		42(1.65)	35(1.38)			
9NJ08-08	3/4x16	-6	3/8	1W.2W	88(3.46)	24(0.94)	52(2.05)	44(1.73)	
9NJ08-08 4S	3/4x16				4S	88(3.46)	24(0.94)	52(2.05)	44(1.73)
9NJ10-08	7/8x14				1W.2W	88(3.46)	27(1.06)	52(2.05)	44(1.73)
9NJ10-08 4S	7/8x14				4S	88(3.46)	27(1.06)	52(2.05)	44(1.73)
9NJ10-10	7/8x14	-8	1/2	1W.2W	90(3.54)	27(1.06)	52(2.05)	48(1.89)	
9NJ10-10 4S	7/8x14				4S	100(3.94)	27(1.06)	52(2.05)	48(1.89)
9NJ12-10					90(3.54)	32(1.26)	52(2.05)	49(1.93)	
9NJ12-12					107(4.21)	32(1.26)	62(2.44)	60(2.36)	
9NJ12-12 4S	1-1/16x12	-12	3/4	4S	117(4.61)	32(1.26)	62(2.44)	60(2.36)	
9NJ16-16	1-5/16x12				120(4.72)	41(1.61)	70(2.76)	66(2.60)	
9NJ16-16 4S	1-5/16x12				4S	135(5.31)	44(1.73)	70(2.76)	66(2.60)
9NJ20-20	1-5/8x12				158(6.22)	52(2.05)	100(3.94)	90(3.54)	
9NJ20-20 4S	1-5/8x12	-20	1-1/4	1W.2W	168(6.61)	52(2.05)	100(3.94)	90(3.54)	
9NJ24-24 4S	1-7/8x12				170(6.69)	57(2.24)	105(4.13)	105(4.13)	
9NJ32-32 4S	2-1/2x12				188(7.40)	75(2.95)	110(4.33)	125(4.92)	

M.M.(INCHES)

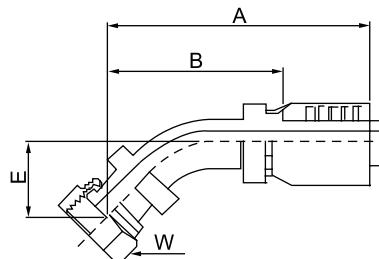
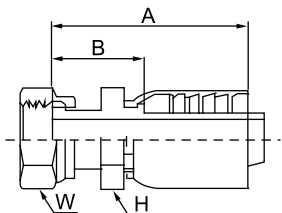


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HYDRAULIC HOSE FITTINGS-JIC

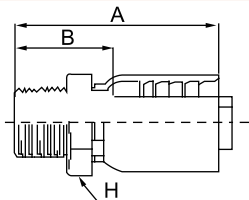
✱DIMENSIONS

NJB
SAE Female Flat Face
Swivel Straight



NJB
SAE Female Flat Face
Swivel 45° Elbow

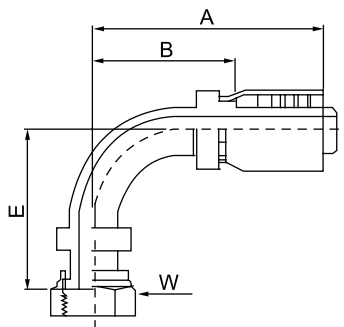
Model	UNF thread	Hose Model & Type		A	W	B	H
NJB04-04	9/16x18	-4	1/4	59(2.32)	19(0.75)	29(1.14)	17(0.67)
SUSNJB04-04				59(2.32)	19(0.75)	29(1.14)	17(0.67)
NJB06-04	11/16x16	-6	3/8	62(2.44)	22(0.87)	31(1.22)	19(0.75)
NJB06-06				72(2.83)	22(0.87)	40(1.57)	19(0.75)
SUSNJB06-06	13/16x16	-8	1/2	72(2.83)	22(0.87)	40(1.57)	19(0.75)
NJB08-06				73(2.87)	27(1.06)	41(1.61)	21(0.83)
NJB08-08	1x14	-8	1/2	76(2.99)	27(1.06)	40(1.57)	23(0.91)
SUSNJB08-08				76(2.99)	27(1.06)	40(1.57)	23(0.91)
NJB08-08 4S	1x14	-10	5/8	76(2.99)	27(1.06)	40(1.57)	23(0.91)
NJB10-08				76(2.99)	32(1.26)	40(1.57)	27(1.06)
NJB10-08 4S	1-3/16x12	-12	3/4	76(2.99)	32(1.26)	40(1.57)	27(1.06)
NJB10-10				74(2.91)	32(1.26)	48(1.89)	27(1.06)
SUSNJB10-10	1-3/16x12	-12	3/4	74(2.91)	32(1.26)	48(1.89)	27(1.06)
NJB12-10				74(2.91)	36(1.42)	48(1.89)	32(1.26)
NJB12-10 4S	1-7/16x12	-16	1	85(3.35)	36(1.42)	48(1.89)	32(1.26)
NJB12-12				85(3.35)	36(1.42)	45(1.77)	32(1.26)
SUSNJB12-12	1-11/16x12	-20	1-1/4	85(3.35)	36(1.42)	45(1.77)	32(1.26)
NJB12-12 4S				95(3.74)	36(1.42)	45(1.77)	32(1.26)
NJB16-12	1-7/16x12	-16	1	85(3.35)	41(1.61)	45(1.77)	38(1.50)
NJB16-12 4S				97(3.82)	41(1.61)	45(1.77)	38(1.50)
NJB16-16	1-11/16x12	-20	1-1/4	102(4.02)	41(1.61)	58(2.28)	38(1.50)
SUSNJB16-16				102(4.02)	41(1.61)	58(2.28)	38(1.50)
NJB16-16 4S	2x12	-24	1-1/2	118(4.65)	41(1.61)	58(2.28)	38(1.50)
NJB20-16				105(4.13)	50(1.97)	60(2.36)	46(1.81)
NJB20-16 4S	2x12	-24	1-1/2	120(4.72)	50(1.97)	60(2.36)	46(1.81)
NJB20-20				124(4.88)	50(1.97)	66(2.60)	46(1.81)
SUSNJB20-20	2x12	-24	1-1/2	124(4.88)	50(1.97)	66(2.60)	46(1.81)
NJB20-20 4S				134(5.28)	50(1.97)	66(2.60)	46(1.81)
NJB24-24	2x12	-24	1-1/2	135(5.31)	57(2.24)	70(2.76)	55(2.17)



NPT
NPT Male Pipe

Model	NPT thread	Hose Model & Type		A	H	B
NPT02-04	1/8x27	-4	1/4	52(2.05)	17(0.67)	23(0.91)
NPT04-04	1/4x18	-4	1/4	56(2.20)	17(0.67)	28(1.10)
SUSNPT04-04	1/4x18	-4	1/4	56(2.20)	17(0.67)	28(1.10)
NPT06-04	3/8x18	-4	1/4	57(2.24)	17(0.67)	29(1.14)
NPT04-06	1/4x18	-6	3/8	60(2.36)	19(0.75)	28(1.10)
NPT06-06	3/8x18	-6	3/8	64(2.52)	19(0.75)	32(1.26)
SUSNPT06-06	3/8x18	-6	3/8	64(2.52)	19(0.75)	32(1.26)
NPT08-06	1/2x14	-6	3/8	65(2.56)	19(0.75)	32(1.26)
NPT06-08	3/8x18	-8	1/2	65(2.56)	23(0.91)	29(1.14)
NPT08-08	1/2x14	-8	1/2	72(2.83)	23(0.91)	36(1.42)
SUSNPT08-08	1/2x14	-8	1/2	72(2.83)	23(0.91)	36(1.42)
NPT08-08 4S	1/2x14	-8	1/2	72(2.83)	23(0.91)	36(1.42)
NPT12-10	3/4x14	-10	5/8	89(3.50)	24(0.94)	41(1.61)
NPT12-12	3/4x14	-12	3/4	79(3.11)	32(1.26)	36(1.42)
SUSNPT12-12	3/4x14	-12	3/4	79(3.11)	32(1.26)	36(1.42)
NPT12-12 4S	3/4x14	-12	3/4	89(3.50)	32(1.26)	36(1.42)
NPT16-16	1x11-1/2	-16	1	92(3.62)	38(1.50)	42(1.65)
SUSNPT16-16	1x11-1/2	-16	1	92(3.62)	38(1.50)	42(1.65)
NPT16-16 4S	1x11-1/2	-16	1	104(4.09)	38(1.50)	42(1.65)
NPT20-20	1-1/4x11-1/2	-20	1-1/4	107(4.21)	46(1.81)	47(1.85)
SUSNPT20-20	1-1/4x11-1/2	-20	1-1/4	107(4.21)	46(1.81)	47(1.85)
NPT20-20 4S	1-1/4x11-1/2	-20	1-1/4	117(4.61)	46(1.81)	47(1.85)
NPT24-24 4S	1-1/2x11-1/2	-24	1-1/2	113(4.45)	55(2.17)	48(1.89)
NPT32-32 4S	2x11-1/2	-32	2	140(5.51)	64(2.52)	61(2.40)

Model	UNF thread	Hose Model & Type		A	W	B	E
4NJB04-04	9/16x18	-4	1/4	81(3.19)	19(0.75)	50(1.97)	18(0.71)
4NJB06-04	11/16x16			83(3.27)	22(0.87)	54(2.13)	18(0.71)
4NJB06-06	13/16x16	-6	3/8	95(3.74)	22(0.87)	62(2.44)	20(0.79)
4NJB08-06				95(3.74)	27(1.06)	64(2.52)	20(0.79)
4NJB08-08	1x14	-8	1/2	110(4.33)	27(1.06)	73(2.87)	28(1.10)
4NJB08-08 4S				110(4.33)	27(1.06)	73(2.87)	28(1.10)
4NJB10-08	1x14	-10	5/8	110(4.33)	32(1.26)	73(2.87)	28(1.10)
4NJB10-08 4S				110(4.33)	32(1.26)	73(2.87)	28(1.10)
4NJB10-10	1-3/16x12	-12	3/4	113(4.45)	32(1.26)	77(3.03)	25(0.98)
4NJB10-10 4S				123(4.84)	32(1.26)	77(3.03)	25(0.98)
4NJB12-10	1-7/16x12	-16	1	115(4.53)	36(1.42)	77(3.03)	30(1.18)
4NJB12-10 4S				123(4.84)	36(1.42)	77(3.03)	30(1.18)
4NJB12-12	1-11/16x12	-20	1-1/4	120(4.72)	36(1.42)	78(3.07)	33(1.30)
4NJB12-12 4S				130(5.12)	36(1.42)	78(3.07)	33(1.30)
4NJB16-16	2x12	-24	1-1/2	124(4.88)	41(1.61)	80(3.15)	35(1.38)
4NJB16-16 4S				140(5.51)	41(1.61)	80(3.15)	35(1.38)
4NJB20-20	2x12	-24	1-1/2	180(7.09)	50(1.97)	115(4.53)	50(1.97)
4NJB20-20 4S				190(7.48)	50(1.97)	115(4.53)	50(1.97)



NJB
SAE Female Flat Face
Swivel 90° Elbow

N

M.M.(INCHES)



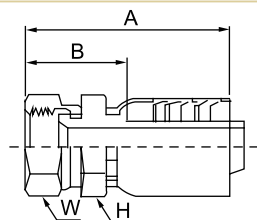
SOLTECH

HYDRAULIC HOSE

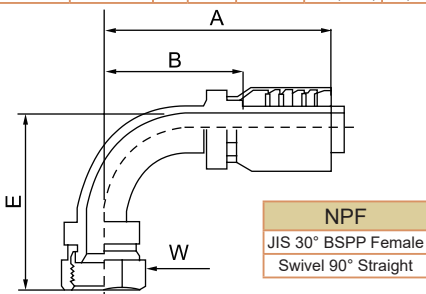
FITTINGS-JIS

※DIMENSIONS

NPF
JIS 30° BSPP Female
Swivel Straight

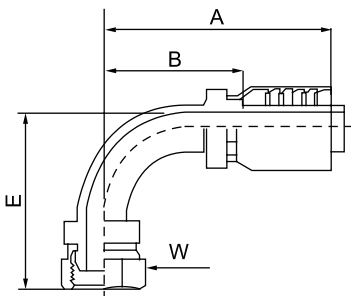


Model	BSPP thread		Hose Model & Type	A	W	B	H
NPF04-04	1/4x19	-4	1/4 1W.2W	59(2.32)	19(0.75)	32(1.26)	17(0.67)
NPF06-06	3/8x19	-6	3/8 1W.2W	67(2.64)	22(0.87)	36(1.42)	19(0.75)
NPF08-08	1/2x14	-8	1/2 1W.2W	72(2.83)	27(1.06)	35(1.38)	23(0.91)
NPF08-08 4S	1/2x14	-8	1/2 4S	72(2.83)	27(1.06)	35(1.38)	23(0.91)
NPF12-12	3/4x14	-12	3/4 1W.2W	84(3.31)	36(1.42)	41(1.61)	32(1.26)
NPF12-12 4S	3/4x14	-12	3/4 4S	94(3.70)	36(1.42)	41(1.61)	32(1.26)
NPF16-16	1x11	-16	1 1W.2W	94(3.70)	41(1.61)	48(1.89)	38(1.50)
NPF16-16 4S	1x11	-16	1 4S	105(4.13)	41(1.61)	48(1.89)	38(1.50)
NPF20-20	1-1/4x11	-20	1-1/4 1W.2W	110(4.33)	50(1.97)	52(2.05)	46(1.81)
NPF20-20 4S	1-1/4x11	-20	1-1/4 4S	121(4.76)	50(1.97)	52(2.05)	46(1.81)
NPF24-24 4S	1-1/2x11	-24	1-1/2 4S	122(4.80)	57(2.24)	57(2.24)	55(2.17)



NPF
JIS 30° BSPP Female
Swivel 90° Straight

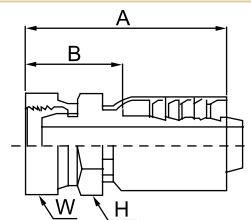
Model	BSPP thread		Hose Model & Type	A	W	B	E
9NPF04-04	1/4x19	-4	1/4 1W.2W	65(2.56)	19(0.75)	35(1.38)	30(1.18)
9NPF06-06	3/8x19	-6	3/8 1W.2W	75(2.95)	22(0.87)	43(1.69)	37(1.46)
9NPF08-08	1/2x14	-8	1/2 1W.2W	88(3.46)	27(1.06)	53(2.09)	46(1.81)
9NPF08-08 4S	1/2x14	-8	1/2 4S	88(3.46)	27(1.06)	53(2.09)	46(1.81)
9NPF12-12	3/4x14	-12	3/4 1W.2W	110(4.33)	36(1.42)	67(2.64)	55(2.17)
9NPF12-12 4S	3/4x14	-12	3/4 4S	115(4.53)	36(1.42)	67(2.64)	55(2.17)
9NPF16-16	1x11	-16	1 1W.2W	123(4.84)	41(1.61)	73(2.87)	65(2.56)
9NPF16-16 4S	1x11	-16	1 4S	133(5.24)	41(1.61)	73(2.87)	65(2.56)



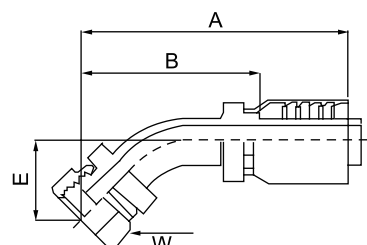
NU
JIS/BSP Female 60° Cone
Swivel 90° Elbow

Model	BSPP thread		Hose Model & Type	A	W	B	E
9NU04-04	1/4x19	-4	1/4 1W.2W	62(2.44)	19(0.75)	33(1.30)	35(1.38)
9NU06-04	3/8x19	-4	1/4 1W.2W	62(2.44)	21(0.83)	33(1.30)	36(1.42)
9NU06-06	3/8x19	-6	3/8 1W.2W	75(2.95)	21(0.83)	43(1.69)	40(1.57)
9NU08-06	1/2x14	-6	3/8 1W.2W	75(2.95)	27(1.06)	43(1.69)	41(1.61)
9NU08-08	1/2x14	-8	1/2 1W.2W	85(3.35)	27(1.06)	52(2.05)	48(1.89)
9NU08-08 4S	1/2x14	-8	1/2 4S	85(3.35)	27(1.06)	52(2.05)	48(1.89)
9NU12-12	3/4x14	-12	3/4 1W.2W	105(4.13)	36(1.42)	62(2.44)	64(2.52)
9NU12-12 4S	3/4x14	-12	3/4 4S	115(4.53)	36(1.42)	62(2.44)	64(2.52)
9NU16-12 4S	1x11	-12	3/4 4S	115(4.53)	41(1.61)	62(2.44)	65(2.56)
9NU16-16	1x11	-16	1 1W.2W	120(4.72)	41(1.61)	72(2.83)	75(2.95)
9NU16-16 4S	1x11	-16	1 4S	130(5.12)	41(1.61)	72(2.83)	75(2.95)
9NU20-20	1-1/4x11	-20	1-1/4 1W.2W	150(5.91)	50(1.97)	92(3.62)	105(4.13)
9NU20-20 4S	1-1/4x11	-20	1-1/4 4S	160(6.30)	50(1.97)	92(3.62)	105(4.13)
9NU24-24 4S	1-1/2x11	-24	1-1/2 4S	170(6.69)	60(2.36)	105(4.13)	105(4.13)
9NU32-32 4S	2x11	-32	2 4S	188(7.40)	75(2.95)	110(4.33)	125(4.92)

NU
JIS/BSP Female 60° Cone
Swivel Straight



Model	BSP thread		Hose Model & Type	A	W	B	H
NU04-04	1/4x19	-4	1/4 1W.2W	60(2.36)	19(0.75)	32(1.26)	14(0.55)
SUSNU04-04	1/4x19	-4	1/4 1W.2W	60(2.36)	19(0.75)	32(1.26)	14(0.55)
NU06-04	3/8x19	-4	1/4 1W.2W	60(2.36)	21(0.83)	32(1.26)	17(0.67)
NU06-06	3/8x19	-6	3/8 1W.2W	64(2.52)	21(0.83)	33(1.30)	19(0.75)
SUSNU06-06	3/8x19	-6	3/8 1W.2W	64(2.52)	21(0.83)	33(1.30)	19(0.75)
NU08-06	1/2x14	-6	3/8 1W.2W	65(2.56)	27(1.06)	33(1.30)	21(0.83)
NU08-08	1/2x14	-8	1/2 1W.2W	71(2.80)	27(1.06)	36(1.42)	23(0.91)
SUSNU08-08	1/2x14	-8	1/2 1W.2W	71(2.80)	27(1.06)	36(1.42)	23(0.91)
NU08-08 4S	1/2x14	-8	1/2 4S	71(2.80)	27(1.06)	36(1.42)	23(0.91)
NU12-10	3/4x14	-10	5/8 1W.2W	77(3.03)	36(1.42)	40(1.57)	32(1.26)
NU12-10 4S	3/4x14	-10	5/8 4S	87(3.43)	36(1.42)	40(1.57)	32(1.26)
NU12-12	3/4x14	-12	3/4 1W.2W	84(3.31)	36(1.42)	42(1.65)	32(1.26)
SUSNU12-12	3/4x14	-12	3/4 1W.2W	84(3.31)	36(1.42)	42(1.65)	32(1.26)
NU12-12 4S	3/4x14	-12	3/4 4S	96(3.78)	36(1.42)	42(1.65)	32(1.26)
NU16-12 4S	1x11	-12	3/4 4S	99(3.90)	41(1.61)	47(1.85)	32(1.26)
NU16-16	1x11	-16	1 1W.2W	96(3.78)	41(1.61)	43(1.69)	38(1.50)
SUSNU16-16	1x11	-16	1 1W.2W	96(3.78)	41(1.61)	43(1.69)	38(1.50)
NU16-16 4S	1x11	-16	1 4S	106(4.17)	41(1.61)	43(1.69)	38(1.50)
NU20-20	1-1/4x11	-20	1-1/4 1W.2W	111(4.37)	50(1.97)	58(2.28)	46(1.81)
SUSNU20-20	1-1/4x11	-20	1-1/4 1W.2W	111(4.37)	50(1.97)	58(2.28)	46(1.81)
NU20-20 4S	1-1/4x11	-20	1-1/4 4S	121(4.76)	50(1.97)	58(2.28)	46(1.81)
NU24-24 4S	1-1/2x11	-24	1-1/2 4S	125(4.92)	60(2.36)	60(2.36)	55(2.17)
NU32-32 4S	2x11	-32	2 4S	150(5.91)	75(2.95)	70(2.76)	65(2.56)



NU
JIS/BSP Female 60° Cone
Swivel 45° Elbow

Model	BSP thread		Hose Model & Type	A	W	B	E
4NU04-04	1/4x19	-4	1/4 1W.2W	85(3.35)	19(0.75)	55(2.17)	25(0.98)
4NU06-04	3/8x19	-4	1/4 1W.2W	85(3.35)	21(0.83)	55(2.17)	25(0.98)
4NU06-06	3/8x19	-6	3/8 1W.2W	98(3.86)	21(0.83)	67(2.64)	30(1.18)
4NU08-06	1/2x14	-6	3/8 1W.2W	100(3.94)	27(1.06)	67(2.64)	30(1.18)
4NU08-08	1/2x14	-8	1/2 1W.2W	110(4.33)	27(1.06)	75(2.95)	30(1.18)
4NU08-08 4S	1/2x14	-8	1/2 4S	110(4.33)	27(1.06)	75(2.95)	30(1.18)
4NU12-12	3/4x14	-12	3/4 1W.2W	120(4.72)	36(1.42)	77(3.03)	30(1.18)
4NU12-12 4S	3/4x14	-12	3/4 4S	130(5.12)	36(1.42)	77(3.03)	30(1.18)
4NU16-16	1x11	-16	1 1W.2W	130(5.12)	41(1.61)	78(3.07)	40(1.57)
4NU16-16 4S	1x11	-16	1 4S	146(5.75)	41(1.61)	78(3.07)	40(1.57)
4NU20-20	1-1/4x11	-20	1-1/4 1W.2W	180(7.09)	50(1.97)	115(4.53)	55(2.17)
4NU20-20 4S	1-1/4x11	-20	1-1/4 4S	190(7.48)	50(1.97)	115(4.53)	55(2.17)



SOLTECH

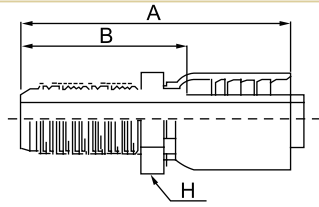
HYDRAULIC HOSE

FITTINGS-JIS

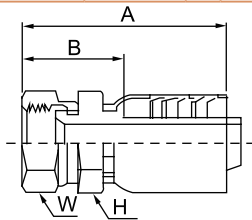
※DIMENSIONS

MUL

JIS Metric Male Long Thread



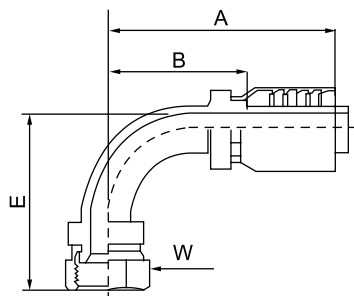
Model	Metric thread	Hose Model & Type			A	H	B
MUL12P1-04	M12x1.0	-4	1/4	1W.2W	72(2.83)	17(0.67)	43(1.69)
MUL12-04	M12x1.5	-4	1/4	1W.2W	72(2.83)	17(0.67)	43(1.69)
MUL14-04	M14x1.5	-4	1/4	1W.2W	75(2.95)	17(0.67)	46(1.81)
MUL16-04	M16x1.5	-4	1/4	1W.2W	79(3.11)	21(0.83)	50(1.97)
MUL14-06	M14x1.5	-6	3/8	1W.2W	85(3.35)	21(0.83)	54(2.13)
MUL16-06	M16x1.5	-6	3/8	1W.2W	85(3.35)	21(0.83)	54(2.13)
MUL18-06	M18x1.5	-6	3/8	1W.2W	85(3.35)	21(0.83)	54(2.13)
MUL20-06	M20x1.5	-6	3/8	1W.2W	84(3.31)	27(1.06)	53(2.09)
MUL20-08	M20x1.5	-8	1/2	1W.2W	88(3.46)	27(1.06)	53(2.09)
MUL22-08	M22x1.5	-8	1/2	1W.2W	88(3.46)	27(1.06)	53(2.09)



NM

JIS 30° Metric Female
Swivel Straight

Model	Metric thread	Hose Model & Type			A	W	B	H
NM12P1-04	M12x1.0	-4	1/4	1W.2W	57(2.24)	17(0.67)	29(1.14)	15(0.59)
NM12-04	M12x1.5	-4	1/4	1W.2W	57(2.24)	17(0.67)	29(1.14)	15(0.59)
NM14-04	M14x1.5	-4	1/4	1W.2W	59(2.32)	19(0.75)	31(1.22)	17(0.67)
NM16-04	M16x1.5	-4	1/4	1W.2W	59(2.32)	21(0.83)	31(1.22)	17(0.67)
NM18-04	M18x1.5	-4	1/4	1W.2W	61(2.40)	24(0.94)	31(1.22)	17(0.67)
NM14-06	M14x1.5	-6	3/8	1W.2W	65(2.56)	19(0.75)	33(1.30)	19(0.75)
NM16-06	M16x1.5	-6	3/8	1W.2W	65(2.56)	21(0.83)	33(1.30)	19(0.75)
NM18-06	M18x1.5	-6	3/8	1W.2W	67(2.64)	24(0.94)	34(1.34)	19(0.75)
NM20-06	M20x1.5	-6	3/8	1W.2W	69(2.72)	27(1.06)	37(1.46)	23(0.91)
NM18-08	M18x1.5	-8	1/2	1W.2W	70(2.76)	24(0.94)	35(1.38)	23(0.91)
NM20-08	M20x1.5	-8	1/2	1W.2W	72(2.83)	27(1.06)	36(1.42)	23(0.91)
NM20-08 4S	M20x1.5	-8	1/2	4S	72(2.83)	27(1.06)	36(1.42)	23(0.91)
NM22-08	M22x1.5	-8	1/2	1W.2W	72(2.83)	27(1.06)	36(1.42)	23(0.91)
NM22-08 4S	M22x1.5	-8	1/2	4S	73(2.87)	27(1.06)	36(1.42)	23(0.91)
NM24-08	M24x1.5	-8	1/2	1W.2W	77(3.03)	32(1.26)	40(1.57)	23(0.91)
NM24-08 4S	M24x1.5	-8	1/2	4S	77(3.03)	32(1.26)	40(1.57)	23(0.91)
NM24-10	M24x1.5	-10	5/8	1W.2W	76(2.99)	32(1.26)	39(1.54)	27(1.06)
NM24-10 4S	M24x1.5	-10	5/8	2W.4S	86(3.39)	32(1.26)	39(1.54)	27(1.06)
NM30-12	M30x1.5	-12	3/4	1W.2W	84(3.31)	36(1.42)	40(1.57)	32(1.26)
NM30-12 4S	M30x1.5	-12	3/4	4S	94(3.70)	36(1.42)	40(1.57)	32(1.26)
NM33-16	M33x1.5	-16	1	1W.2W	94(3.70)	41(1.61)	43(1.69)	38(1.50)
NM36-20	M36x1.5	-20	1-1/4	1W.2W	111(4.37)	46(1.81)	53(2.09)	46(1.81)
NM42-24	M42x1.5	-24	1-1/2	1W.2W	123(4.84)	50(1.97)	56(2.20)	55(2.17)



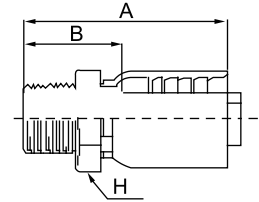
NM

JIS 30° Metric Female
Swivel 90° Elbow

Model	Metric thread	Hose Model & Type			A	W	B	E
9NM14-04	M14x1.5	-4	1/4	1W.2W	62(2.44)	19(0.75)	34(1.34)	32(1.26)
9NM16-06	M16x1.5	-6	3/8	1W.2W	74(2.91)	21(0.83)	42(1.65)	34(1.34)
9NM18-06	M18x1.5	-6	3/8	1W.2W	44(1.73)	24(0.94)	42(1.65)	34(1.34)
9NM20-08	M20x1.5	-8	1/2	1W.2W	88(3.46)	27(1.06)	52(2.05)	45(1.77)
9NM20-08 4S	M20x1.5	-8	1/2	4S	88(3.46)	27(1.06)	52(2.05)	45(1.77)
9NM22-08	M22x1.5	-8	1/2	1W.2W	88(3.46)	27(1.06)	52(2.05)	45(1.77)
9NM22-08 4S	M22x1.5	-8	1/2	4S	88(3.46)	27(1.06)	52(2.05)	45(1.77)

PT

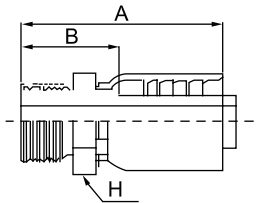
JIS/BSP Taper Male 60° Cone



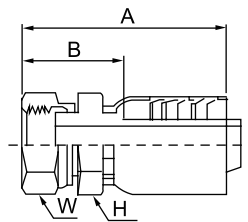
Model	BSP thread	Hose Model & Type		A	H	B	
PT02-04	1/8x28	-4	1/4	1W.2W	52(2.05)	17(0.67)	23(0.91)
PT04-04	1/4x19	-4	1/4	1W.2W	56(2.20)	17(0.67)	28(1.10)
PT06-04	3/8x19	-4	1/4	1W.2W	57(2.24)	17(0.67)	29(1.14)
PT04-06	1/4x19	-6	3/8	1W.2W	60(2.36)	19(0.75)	28(1.10)
PT06-06	3/8x19	-6	3/8	1W.2W	64(2.52)	19(0.75)	32(1.26)
PT08-06	1/2x14	-6	3/8	1W.2W	65(2.56)	19(0.75)	32(1.26)
PT06-08	3/8x19	-8	1/2	1W.2W	65(2.56)	23(0.91)	29(1.14)
PT08-08	1/2x14	-8	1/2	1W.2W	72(2.83)	23(0.91)	36(1.42)
PT08-08 4S	1/2x14	-8	1/2	4S	72(2.83)	23(0.91)	36(1.42)
PT12-12	3/4x14	-12	3/4	1W.2W	79(3.11)	32(1.26)	36(1.42)
PT12-12 4S	3/4x14	-12	3/4	4S	89(3.50)	32(1.26)	36(1.42)
PT16-16	1x11	-16	1	1W.2W	92(3.62)	38(1.50)	42(1.65)
PT16-16 4S	1x11	-16	1	4S	104(4.09)	38(1.50)	42(1.65)
PT20-20	1-1/4x11	-20	1-1/4	1W.2W	107(4.21)	46(1.81)	47(1.85)
PT20-20 4S	1-1/4x11	-20	1-1/4	4S	117(4.61)	46(1.81)	47(1.85)
PT24-24 4S	1-1/2x11	-24	1-1/2	4S	113(4.45)	55(2.17)	48(1.89)
PT32-32 4S	2x11	-32	2	4S	140(5.51)	64(2.52)	61(2.40)

MFO

JIS Metric Male With O-Ring



Model	Metric thread	Hose Model & Type			A	H	B
MFO12P1-04	M12x1.0	-4	1/4	1W.2W	54(2.13)	17(0.67)	30(1.18)
MFO14-04	M14x1.5	-4	1/4	1W.2W	54(2.13)	17(0.67)	30(1.18)
MFO16-04	M16x1.5	-4	1/4	1W.2W	57(2.24)	22(0.87)	31(1.22)
MFO18-06	M18x1.5	-6	3/8	1W.2W	62(2.44)	22(0.87)	31(1.22)
MFO22-06	M22x1.5	-6	3/8	1W.2W	65(2.56)	27(1.06)	31(1.22)
MFO20-08	M20x1.5	-8	1/2	1W.2W	70(2.76)	27(1.06)	32(1.26)
MFO20-08 4S	M20x1.5	-8	1/2	4S	70(2.76)	27(1.06)	32(1.26)
MFO22-08	M22x1.5	-8	1/2	1W.2W	70(2.76)	27(1.06)	33(1.30)
MFO22-08 4S	M22x1.5	-8	1/2	4S	70(2.76)	27(1.06)	33(1.30)
MFO24-08 4S	M24x1.5	-8	1/2	4S	76(2.99)	36(1.42)	40(1.57)
MFO24-10 4S	M24x1.5	-10	5/8	4S	84(3.31)	36(1.42)	37(1.46)
MFO42-16 4S	M42x1.5	-16	1	4S	102(4.02)	50(1.97)	40(1.57)



NMB

JIS Metric Swivel Female Flat Face

Model	Metric thread	Hose Model & Type			A	W	B	H
NMB20-04	M20x1.5	-4	1/4	1W.2W	62(2.44)	27(1.06)	30(1.18)	19(0.75)
NMB20-06	M20x1.5	-6	3/8	1W.2W	66(2.60)	27(1.06)	33(1.30)	21(0.83)
NMB22-06	M22x1.5	-6	3/8	1W.2W	67(2.64)	27(1.06)	34(1.34)	21(0.83)
NMB20-08	M20x1.5	-8	1/2	1W.2W	71(2.80)	27(1.06)	35(1.38)	23(0.91)
NMB22-08	M22x1.5	-8	1/2	1W.2W	72(2.83)	27(1.06)	36(1.42)	23(0.91)
NMB24-08	M24x1.5	-8	1/2	1W.2W	76(2.99)	32(1.26)	36(1.42)	23(0.91)
NMB27-12	M27x1.5	-12	3/4	1W.2W	84(3.31)	36(1.42)	40(1.57)	32(1.26)

M.M.(INCHES)

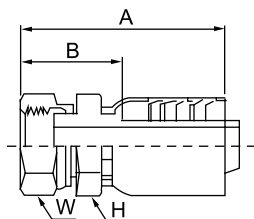


SOLTECH

HYDRAULIC HOSE

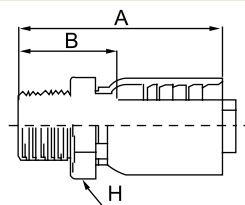
FITTINGS-JIS & DIN

※DIMENSIONS



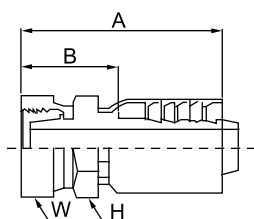
NPB
BSP Female Flat Face
Swivel Straight

Model	BSP thread		Hose Model & Type	A	W	B	H
NPB04-04	1/4x19	-4	1/4 1W.2W	59(2.32)	19(0.75)	32(1.26)	17(0.67)
NPB06-06	3/8x19	-6	3/8 1W.2W	64(2.52)	22(0.87)	35(1.38)	19(0.75)
NPB08-06	1/2x14	-6	3/8 1W.2W	65(2.56)	27(1.06)	33(1.30)	19(0.75)
NPB08-08	1/2x14	-8	1/2 1W.2W	72(2.83)	27(1.06)	35(1.38)	23(0.91)
NPB12-12	3/4x14	-12	3/4 1W.2W	84(3.31)	36(1.42)	41(1.61)	32(1.26)
NPB12-12 4S	3/4x14	-12	3/4 4S	94(3.70)	36(1.42)	41(1.61)	32(1.26)
NPB16-16	1x11	-16	1 1W.2W	94(3.70)	41(1.61)	48(1.89)	38(1.50)



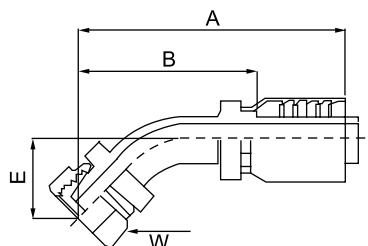
MPF
JIS Male Stud

Model	BSP thread		Hose Model & Type	A	H	B
MPF04-04	1/4x19	-4	1/4 1W.2W	54(2.13)	17(0.67)	26(1.02)
MPF06-06	3/8x19	-6	3/8 1W.2W	62(2.44)	22(0.87)	31(1.22)
MPF08-06	1/2x14	-6	3/8 1W.2W	65(2.56)	27(1.06)	31(1.22)
MPF08-08	1/2x14	-8	1/2 1W.2W	70(2.76)	27(1.06)	34(1.34)
MPF08-08 4S	1/2x14	-8	1/2 4S	70(2.76)	27(1.06)	34(1.34)
MPF08-10 4S	1/2x14	-10	5/8 4S	80(3.15)	27(1.06)	34(1.34)
MPF12-12	3/4x14	-12	3/4 1W.2W	80(3.15)	36(1.42)	36(1.42)
MPF12-12 4S	3/4x14	-12	3/4 4S	90(3.54)	36(1.42)	36(1.42)
MPF16-12 4S	1x11	-12	3/4 4S	94(3.70)	41(1.61)	42(1.65)
MPF16-16	1x11	-16	1 1W.2W	94(3.70)	41(1.61)	40(1.57)
MPF16-16 4S	1x11	-16	1 4S	102(4.02)	41(1.61)	40(1.57)
MPF20-20 4S	1-1/4x11	-20	1-1/4 4S	112(4.41)	50(1.97)	44(1.73)

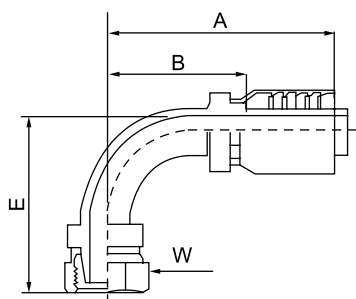


NML
DIN 20 078 A Light
Series Metric Female
Swivel Straight

Model	Metric thread		Hose Model & Type	A	W	B	H
NML12-04	M12x1.5 06L	-4	1/4 1W.2W	58(2.28)	17(0.67)	29(1.14)	17(0.67)
NML14-04	M14x1.5 08L	-4	1/4 1W.2W	58(2.28)	19(0.75)	29(1.14)	17(0.67)
NML16-04	M16x1.5 10L	-4	1/4 1W.2W	60(2.36)	21(0.83)	32(1.26)	17(0.67)
NML16-06	M16x1.5 10L	-6	3/8 1W.2W	64(2.52)	21(0.83)	33(1.30)	19(0.75)
NML18-06	M18x1.5 12L	-6	3/8 1W.2W	66(2.60)	24(0.94)	34(1.34)	19(0.75)
NML20-06	M20x1.5 14L	-6	3/8 1W.2W	67(2.64)	27(1.06)	34(1.34)	19(0.75)
NML20-08	M20x1.5 14L	-8	1/2 1W.2W	68(2.68)	27(1.06)	32(1.26)	23(0.91)
NML22-08	M22x1.5 15L	-8	1/2 1W.2W	74(2.91)	27(1.06)	38(1.50)	23(0.91)
NML24-08	M24x1.5 17L	-8	1/2 1W.2W	76(2.99)	32(1.26)	40(1.57)	23(0.91)
NML30-12 4S	M30x1.5 22L	-12	3/4 4S	92(3.62)	36(1.42)	39(1.54)	32(1.26)
NML30P2-12 4S	M30x2.0 22L	-12	3/4 4S	92(3.62)	36(1.42)	39(1.54)	32(1.26)
NML36-12 4S	M36x1.5 28L	-12	3/4 4S	95(3.74)	41(1.61)	42(1.65)	38(1.50)
NML36-16 4S	M36x1.5 28L	-16	1 4S	106(4.17)	41(1.61)	43(1.69)	38(1.50)
NML36P2-16 4S	M36x2.0 28L	-16	1 4S	106(4.17)	41(1.61)	43(1.69)	38(1.50)
NML45P2-20	M45x2.0 35L	-20	1-1/4 1W.2W	111(4.37)	50(1.97)	53(2.09)	46(1.81)
NML45P2-20 4S	M45x2.0 35L	-20	1-1/4 4S	120(4.72)	50(1.97)	53(2.09)	46(1.81)



NML
DIN 20 078 A Light
Series Metric Female
Swivel 45° Elbow



NML
DIN 20 078 A Light
Series Metric Female
Swivel 90° Elbow

Model	Metric thread		Hose Model & Type	A	W	B	E
9NML14-04	M14x1.5 08L	-4	1/4 1W.2W	63(2.48)	19(0.75)	34(1.34)	42(1.65)
9NML16-06	M16x1.5 10L	-6	3/8 1W.2W	74(2.91)	21(0.83)	42(1.65)	45(1.77)
9NML18-06	M18x1.5 12L	-6	3/8 1W.2W	74(2.91)	24(0.94)	42(1.65)	45(1.77)
9NML22-08	M22x1.5 15L	-8	1/2 1W.2W	87(3.43)	27(1.06)	52(2.05)	52(2.05)
9NML26-10 4S	M26x1.5 18L	-10	5/8 4S	107(4.21)	32(1.26)	60(2.36)	70(2.76)
9NML30-12 4S	M30x1.5 22L	-12	3/4 4S	110(4.33)	36(1.42)	57(2.24)	65(2.56)
9NML36-16 4S	M36x1.5 28L	-16	1 4S	130(5.12)	41(1.61)	72(2.83)	75(2.95)

Model	Metric thread		Hose Model & Type	A	W	B	E
4NML14-04	M14x1.5 08L	-4	1/4 1W.2W	88(3.46)	19(0.75)	60(2.36)	20(0.79)
4NML16-06	M16x1.5 10L	-6	3/8 1W.2W	100(3.94)	21(0.83)	68(2.68)	30(1.18)
4NML18-06	M18x1.5 12L	-6	3/8 1W.2W	100(3.94)	24(0.94)	68(2.68)	30(1.18)
4NML20-08	M20x1.5 14L	-8	1/2 1W.2W	110(4.33)	27(1.06)	75(2.95)	30(1.18)
4NML26-10 4S	M26x1.5 18L	-10	5/8 4S	110(4.33)	32(1.26)	77(3.03)	30(1.18)
4NML30-12 4S	M30x1.5 22L	-12	3/4 4S	130(5.12)	36(1.42)	77(3.03)	30(1.18)
4NML36-16 4S	M36x1.5 28L	-16	1 4S	140(5.51)	41(1.61)	78(3.07)	40(1.57)

M.M.(INCHES)



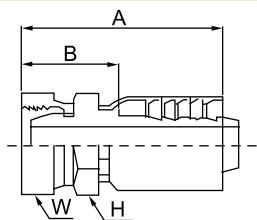
SOLTECH

HYDRAULIC HOSE FITTINGS-DIN

DIMENSIONS

NOS

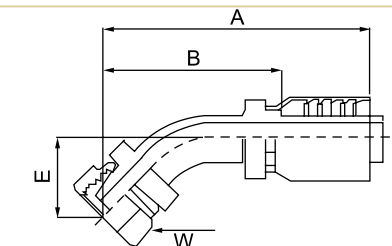
DIN 20 078 P Heavy
Series Metric Female
Swivel Straight



Model	Metric thread	Hose Model & Type	A	W	B	H
NOS14-04	M14x1.5 06S	-4 1/4 1W.2W	59(2.32)	19(0.75)	31(1.22)	17(0.67)
NOS16-04	M16x1.5 08S	-4 1/4 1W.2W	60(2.36)	21(0.83)	31(1.22)	17(0.67)
NOS18-04	M18x1.5 10S	-4 1/4 1W.2W	60(2.36)	24(0.94)	31(1.22)	17(0.67)
NOS20-04	M20x1.5 12S	-4 1/4 1W.2W	61(2.40)	27(1.06)	32(1.26)	17(0.67)
NOS18-06	M18x1.5 10S	-6 3/8 1W.2W	66(2.60)	24(0.94)	34(1.34)	19(0.75)
NOS20-06	M20x1.5 12S	-6 3/8 1W.2W	66(2.60)	27(1.06)	34(1.34)	21(0.83)
NOS22-06	M22x1.5 14S	-6 3/8 1W.2W	68(2.68)	27(1.06)	35(1.38)	23(0.91)
NOS22-08	M22x1.5 14S	-8 1/2 1W.2W	74(2.91)	27(1.06)	37(1.46)	23(0.91)
NOS22-08 4S	M22x1.5 14S	-8 1/2 4S	74(2.91)	27(1.06)	37(1.46)	23(0.91)
NOS24-08	M24x1.5 16S	-8 1/2 1W.2W	77(3.03)	32(1.26)	40(1.57)	23(0.91)
NOS24-08 4S	M24x1.5 16S	-8 1/2 4S	77(3.03)	32(1.26)	40(1.57)	23(0.91)
NOS24-10	M24x1.5 16S	-10 5/8 1W.2W	77(3.03)	32(1.26)	40(1.57)	27(1.06)
NOS24-10 4S	M24x1.5 16S	-10 5/8 4S	87(3.43)	32(1.26)	40(1.57)	27(1.06)
NOS30P2-10	M30x2.0 20S	-10 5/8 1W.2W	76(2.99)	36(1.42)	40(1.57)	27(1.06)
NOS30P2-10 4S	M30x2.0 20S	-10 5/8 4S	88(3.46)	36(1.42)	40(1.57)	27(1.06)
NOS30P2-12	M30x2.0 20S	-12 3/4 1W.2W	83(3.27)	36(1.42)	40(1.57)	32(1.26)
NOS30P2-12 4S	M30x2.0 20S	-12 3/4 4S	93(3.66)	36(1.42)	40(1.57)	32(1.26)
NOS36P2-12	M36x2.0 25S	-12 3/4 1W.2W	85(3.35)	41(1.61)	42(1.65)	32(1.26)
NOS36P2-12 4S	M36x2.0 25S	-12 3/4 4S	96(3.78)	41(1.61)	42(1.65)	32(1.26)
NOS36P2-16	M36x2.0 25S	-16 1 1W.2W	90(3.54)	41(1.61)	44(1.73)	38(1.50)
NOS36P2-16 4S	M36x2.0 25S	-16 1 4S	106(4.17)	41(1.61)	44(1.73)	38(1.50)
NOS42P2-16	M42x2.0 35S	-16 1 1W.2W	98(3.86)	50(1.97)	48(1.89)	---
NOS42P2-16 4S	M42x2.0 35S	-16 1 4S	110(4.33)	50(1.97)	48(1.89)	---
NOS42P2-20	M42x2.0 38S	-20 1-1/4 1W.2W	110(4.33)	50(1.97)	50(1.97)	---
NOS42P2-20 4S	M42x2.0 38S	-20 1-1/4 4S	120(4.72)	50(1.97)	50(1.97)	---
NOS52P2-20	M52x2.0 38S	-20 1-1/4 1W.2W	117(4.61)	60(2.36)	55(2.17)	---
NOS52P2-20 4S	M52x2.0 38S	-20 1-1/4 4S	127(5.00)	60(2.36)	55(2.17)	---
NOS52P2-24 4S	M52x2.0 38S	-24 1-1/2 4S	135(5.31)	60(2.36)	61(2.40)	---

NOS

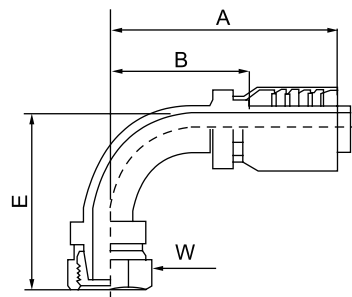
DIN 20 078 P Heavy
Series Metric Female
Swivel 90° Elbow



NOS

DIN 20 078 P Heavy
Series Metric Female
Swivel 45° Elbow

Model	Metric thread	Hose Model & Type	A	W	B	E
4NOS16-04	M16x1.5 08S	-4 1/4 1W.2W	90(3.54)	21(0.83)	58(2.28)	25(0.98)
4NOS18-04	M18x1.5 10S	-4 1/4 1W.2W	90(3.54)	24(0.94)	58(2.28)	25(0.98)
4NOS20-04	M20x1.5 12S	-4 1/4 1W.2W	90(3.54)	27(1.06)	58(2.28)	25(0.98)
4NOS18-06	M18x1.5 10S	-6 3/8 1W.2W	100(3.94)	24(0.94)	68(2.68)	30(1.18)
4NOS20-06	M20x1.5 12S	-6 3/8 1W.2W	100(3.94)	27(1.06)	68(2.68)	30(1.18)
4NOS22-06	M22x1.5 14S	-6 3/8 1W.2W	100(3.94)	27(1.06)	68(2.68)	30(1.18)
4NOS22-08	M22x1.5 16S	-8 1/2 1W.2W	122(4.80)	27(1.06)	82(3.23)	25(0.98)
4NOS22-08 4S	M22x1.5 16S	-8 1/2 4S	122(4.80)	27(1.06)	82(3.23)	25(0.98)
4NOS24-08	M24x1.5 16S	-8 1/2 1W.2W	122(4.80)	32(1.26)	82(3.23)	25(0.98)
4NOS24-08 4S	M24x1.5 16S	-8 1/2 4S	122(4.80)	32(1.26)	82(3.23)	25(0.98)
4NOS30P2-10	M30x2.0 20S	-10 5/8 1W.2W	135(5.31)	36(1.42)	94(3.70)	37(1.46)
4NOS30P2-10 4S	M30x2.0 20S	-10 5/8 4S	145(5.71)	36(1.42)	94(3.70)	37(1.46)
4NOS30P2-12	M30x2.0 20S	-12 3/4 1W.2W	140(5.51)	36(1.42)	97(3.82)	40(1.57)
4NOS30P2-12 4S	M30x2.0 20S	-12 3/4 4S	150(5.91)	36(1.42)	97(3.82)	40(1.57)
4NOS36P2-12	M36x2.0 25S	-12 3/4 1W.2W	150(5.91)	41(1.61)	105(4.13)	40(1.57)
4NOS36P2-12 4S	M36x2.0 25S	-12 3/4 4S	160(6.30)	41(1.61)	105(4.13)	40(1.57)
4NOS36P2-16	M36x2.0 25S	-16 1 1W.2W	150(5.91)	41(1.61)	105(4.13)	41(1.61)
4NOS36P2-16 4S	M36x2.0 25S	-16 1 4S	160(6.30)	41(1.61)	105(4.13)	41(1.61)
4NOS42P2-16	M42x2.0 30S	-16 1 1W.2W	150(5.91)	50(1.97)	105(4.13)	41(1.61)
4NOS42P2-16 4S	M42x2.0 30S	-16 1 4S	165(6.50)	50(1.97)	105(4.13)	41(1.61)
4NOS42P2-20	M42x2.0 38S	-20 1-1/4 1W.2W	175(6.89)	50(1.97)	105(4.13)	50(1.97)
4NOS42P2-20 4S	M42x2.0 38S	-20 1-1/4 4S	185(7.28)	50(1.97)	110(4.33)	50(1.97)
4NOS52P2-20	M52x2.0 38S	-20 1-1/4 1W.2W	175(6.89)	60(2.36)	115(4.53)	52(2.05)
4NOS52P2-204S	M52x2.0 38S	-20 1-1/4 4S	185(7.28)	60(2.36)	115(4.53)	52(2.05)
4NOS52P2-244S	M52x2.0 38S	-24 1-1/2 4S	190(7.48)	60(2.36)	120(4.72)	65(2.56)



Model	Metric thread	Hose Model & Type	A	W	B	E
9NOS16-04	M16x1.5 08S	-4 1/4 1W.2W	70(2.76)	21(0.83)	34(1.34)	42(1.65)
9NOS18-04	M18x1.5 10S	-4 1/4 1W.2W	70(2.76)	24(0.94)	34(1.34)	42(1.65)
9NOS20-04	M20x1.5 12S	-4 1/4 1W.2W	70(2.76)	27(1.06)	34(1.34)	42(1.65)
9NOS20-06	M20x1.5 12S	-6 3/8 1W.2W	75(2.95)	27(1.06)	42(1.65)	45(1.77)
9NOS22-06	M22x1.5 14S	-6 3/8 1W.2W	75(2.95)	27(1.06)	42(1.65)	45(1.77)
9NOS22-08	M22x1.5 16S	-8 1/2 1W.2W	88(3.46)	27(1.06)	52(2.05)	55(2.17)
9NOS22-08 4S	M22x1.5 16S	-8 1/2 4S	88(3.46)	27(1.06)	52(2.05)	55(2.17)
9NOS24-08	M24x1.5 16S	-8 1/2 1W.2W	88(3.46)	32(1.26)	52(2.05)	55(2.17)
9NOS24-08 4S	M24x1.5 16S	-8 1/2 4S	88(3.46)	32(1.26)	52(2.05)	55(2.17)
9NOS30P2-10	M30x2.0 20S	-10 5/8 1W.2W	92(3.62)	36(1.42)	56(2.20)	61(2.40)
9NOS30P2-10 4S	M30x2.0 20S	-10 5/8 2W.4S	102(4.02)	36(1.42)	56(2.20)	61(2.40)
9NOS30P2-12	M30x2.0 20S	-12 3/4 1W.2W	100(3.94)	36(1.42)	56(2.20)	63(2.48)
9NOS30P2-12 4S	M30x2.0 20S	-12 3/4 4S	110(4.33)	36(1.42)	56(2.20)	63(2.48)
9NOS36P2-12	M36x2.0 25S	-12 3/4 1W.2W	105(4.13)	41(1.61)	63(2.48)	65(2.56)
9NOS36P2-12 4S	M36x2.0 25S	-12 3/4 4S	115(4.53)	41(1.61)	63(2.48)	65(2.56)
9NOS36P2-16	M36x2.0 25S	-16 1 1W.2W	113(4.45)	41(1.61)	65(2.56)	67(2.64)
9NOS36P2-16 4S	M36x2.0 25S	-16 1 4S	127(5.00)	41(1.61)	65(2.56)	67(2.64)
9NOS42P2-16	M42x2.0 30S	-16 1 1W.2W	116(4.57)	50(1.97)	69(2.72)	75(2.95)
9NOS42P2-16 4S	M42x2.0 30S	-16 1 4S	132(5.20)	50(1.97)	69(2.72)	75(2.95)
9NOS42P2-20	M42x2.0 38S	-20 1-1/4 1W.2W	170(6.69)	50(1.97)	95(3.74)	100(3.94)
9NOS42P2-20 4S	M42x2.0 38S	-20 1-1/4 4S	170(6.69)	50(1.97)	95(3.74)	100(3.94)
9NOS52P2-20	M52x2.0 38S	-20 1-1/4 1W.2W	170(6.69)	60(2.36)	95(3.74)	100(3.94)
9NOS52P2-20 4S	M52x2.0 38S	-20 1-1/4 4S	170(6.69)	60(2.36)	95(3.74)	100(3.94)
9NOS52P2-24 4S	M52x2.0 38S	-24 1-1/2 4S	180(7.09)	60(2.36)	105(4.13)	110(4.33)

M.M.(INCHES)



SOLTECH

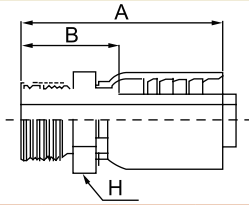
HYDRAULIC HOSE

FITTINGS-DIN & FLANGE

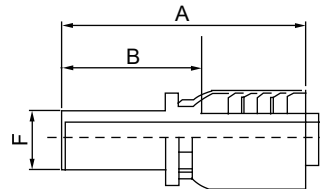
DIMENSIONS

MFS

DIN 20 078 E Light Series Metric Male Stud



Model	Metric thread	Hose Model & Type			A	H	B
MFS14-04	M14x1.5 06S	-4	1/4	1W.2W	52(2.05)	17(0.67)	24(0.94)
MFS16-04	M16x1.5 08S	-4	1/4	1W.2W	54(2.13)	17(0.67)	24(0.94)
MFS18-04	M18x1.5 10S	-4	1/4	1W.2W	54(2.13)	21(0.83)	24(0.94)
MFS18-06	M18x1.5 10S	-6	3/8	1W.2W	58(2.28)	21(0.83)	27(1.06)
MFS20-06	M20x1.5 12S	-6	3/8	1W.2W	58(2.28)	21(0.83)	27(1.06)
MFS22-06	M22x1.5 14S	-6	3/8	1W.2W	58(2.28)	23(0.91)	27(1.06)
MFS22-08	M22x1.5 14S	-8	1/2	1W.2W	63(2.48)	23(0.91)	27(1.06)
MFS24-08	M24x1.5 16S	-8	1/2	1W.2W	64(2.52)	27(1.06)	27(1.06)
MFS24-08 4S	M24x1.5 16S	-8	1/2	4S	64(2.52)	27(1.06)	27(1.06)
MFS30P2-10 4S	M30x2.0 20S	-10	5/8	4S	81(3.19)	36(1.42)	35(1.38)
MFS30P2-12 4S	M30x2.0 20S	-12	3/4	4S	88(3.46)	36(1.42)	34(1.34)
MFS36P2-12 4S	M36x2.0 25S	-12	3/4	4S	90(3.54)	41(1.61)	36(1.42)
MFS36P2-16 4S	M36x2.0 25S	-16	1	4S	99(3.90)	41(1.61)	36(1.42)
MFS42P2-16	M42x2.0 30S	-16	1	1W.2W	94(3.70)	50(1.97)	40(1.57)
MFS42P2-16 4S	M42x2.0 30S	-16	1	4S	104(4.09)	50(1.97)	40(1.57)



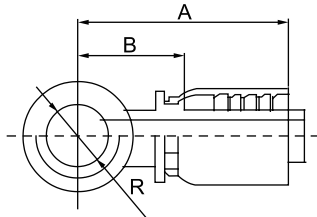
POD

BLight Series Metric Standpipe

Model	Metric thread	Hose Model & Type			A	F	B
MFL12-04	M12x1.5 06L	-4	1/4	1W.2W	52(2.05)	17(0.67)	24(0.94)
MFL14-04	M14x1.5 08L	-4	1/4	1W.2W	52(2.05)	17(0.67)	24(0.94)
MFL16-04	M16x1.5 10L	-4	1/4	1W.2W	54(2.13)	17(0.67)	24(0.94)
MFL16-06	M16x1.5 10L	-6	3/8	1W.2W	60(2.36)	19(0.75)	27(1.06)
MFL18-06	M18x1.5 12L	-6	3/8	1W.2W	58(2.28)	21(0.83)	27(1.06)
MFL20-06	M20x1.5 14L	-6	3/8	1W.2W	58(2.28)	21(0.83)	27(1.06)
MFL22-06	M22x1.5 15L	-6	3/8	1W.2W	60(2.36)	23(0.91)	27(1.06)
MFL20-08	M20x1.5 14L	-8	1/2	1W.2W	63(2.48)	23(0.91)	27(1.06)
MFL22-08	M22x1.5 15L	-8	1/2	1W.2W	63(2.48)	23(0.91)	27(1.06)
MFL24-08	M24x1.5 17L	-8	1/2	1W.2W	64(2.52)	27(1.06)	27(1.06)
MFL26-08	M26x1.5 18L	-8	1/2	1W.2W	65(2.56)	27(1.06)	27(1.06)
MFL30-08	M30x1.5 22L	-8	1/2	1W.2W	69(2.72)	36(1.42)	30(1.18)
MFL24-10 4S	M24x1.5 17L	-10	5/8	4S	77(3.03)	27(1.06)	32(1.26)
MFL26-10 4S	M26x1.5 18L	-10	5/8	4S	77(3.03)	27(1.06)	32(1.26)
MFL28-10 4S	M28x1.5 20L	-10	5/8	4S	79(3.11)	32(1.26)	33(1.30)
MFL30-10 4S	M30x1.5 22L	-10	5/8	4S	81(3.19)	36(1.42)	35(1.38)
MFL26-12	M26x1.5 18L	-12	3/4	1W.2W	77(3.03)	27(1.06)	34(1.34)
MFL30-12 4S	M30x1.5 22L	-12	3/4	4S	88(3.46)	36(1.42)	34(1.34)
MFL36-12 4S	M36x1.5 28L	-12	3/4	4S	90(3.54)	41(1.61)	36(1.42)
MFL36-16 4S	M36x1.5 28L	-16	1	4S	99(3.90)	41(1.61)	36(1.42)
MFL45-16	M45x1.5 35L	-16	1	1W.2W	94(3.70)	50(1.97)	36(1.42)
MFL45-16 4S	M45x1.5 35L	-16	1	4S	110(4.33)	50(1.97)	36(1.42)

SY

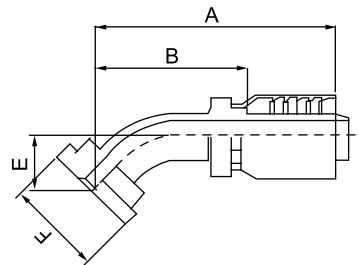
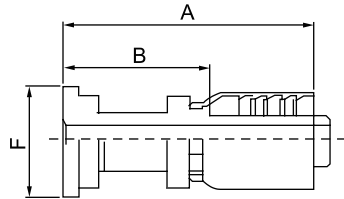
Banjo Union DIN 7642



Model	I.D.xThick	Hose Model & Type			A	R	B
SY1010-04	10x10	-4	1/4	1W.2W	46(1.81)	10(0.39)	21(0.83)
SY1212-04	12x12	-4	1/4	1W.2W	46(1.81)	12(0.47)	21(0.83)
SY1414-04	14x14	-4	1/4	1W.2W	50(1.97)	14(0.55)	24(0.94)
SY1414-06	14x14	-6	3/8	1W.2W	52(2.05)	14(0.55)	24(0.94)
SY1616-06	16x16	-6	3/8	1W.2W	52(2.05)	16(0.63)	24(0.94)
SY1818-06	18x18	-6	3/8	1W.2W	52(2.05)	18(0.71)	24(0.94)
SY1820-08	18x20	-8	1/2	1W.2W	70(2.76)	18(0.71)	32(1.26)
SY2020-08	20x20	-8	1/2	1W.2W	70(2.76)	20(0.79)	32(1.26)
SY2424-08	24x24	-8	1/2	1W.2W	70(2.76)	24(0.94)	32(1.26)

PA

SAE Flange
Standard Type



PA

SAE Flange 45° Elbow
Standard Type

Model	End Connection	Hose Model & Type			A	F	B
PA08-08 4S	1/2 (30.2mm)	-8	1/2	4S	93(3.66)	30.2(1.19)	56(2.20)
PA10-08 4S	5/8 (34.0mm)	-8	1/2	4S	96(3.78)	34(1.34)	58(2.28)
PA12-08 4S	3/4 (38.1mm)	-8	1/2	4S	100(3.94)	38.1(1.50)	60(2.36)
PA10-10 4S	5/8 (34.0mm)	-10	5/8	4S	106(4.17)	34(1.34)	59(2.32)
PA12-10 4S	3/4 (38.1mm)	-10	5/8	4S	109(4.29)	38.1(1.50)	62(2.44)
PA08-12 4S	1/2 (30.2mm)	-12	3/4	4S	113(4.45)	30.2(1.19)	59(2.32)
PA10-12 4S	5/8 (34.0mm)	-12	3/4	4S	109(4.29)	34(1.34)	62(2.44)
PA12-12	3/4 (38.1mm)	-12	3/4	1W.2W	106(4.17)	38.1(1.50)	62(2.44)
PA12-12 4S	3/4 (38.1mm)	-12	3/4	4S	116(4.57)	38.1(1.50)	62(2.44)
PAP12-12 4S	3/4 (38.1mm)	-12	3/4	4S	116(4.57)	38.1(1.50)	62(2.44)
PA16-12 4S	1 (44.5mm)	-12	3/4	4S	113(4.45)	44.5(1.75)	59(2.32)
PA16-16	1 (44.5mm)	-16	1	1W.2W	106(4.17)	44.5(1.75)	59(2.32)
PA16-16 4S	1 (44.5mm)	-16	1	4S	122(4.80)	44.5(1.75)	59(2.32)
PAP16-16 4S	1 (44.5mm)	-16	1	4S	122(4.80)	44.5(1.75)	59(2.32)
PA20-16 4S	1-1/4 (50.8mm)	-16	1	4S	128(5.04)	50.8(2.00)	65(2.56)
PA16-20 4S	1 (44.5mm)	-20	1-1/4	4S	129(5.08)	44.5(1.75)	60(2.36)
PA20-20 4S	1-1/4 (50.8mm)	-20	1-1/4	4S	148(5.83)	50.8(2.00)	75(2.95)
PA24-20 4S	1-1/2 (60.3mm)	-20	1-1/4	4S	150(5.91)	60.3(2.37)	78(3.07)
PA24-24 4S	1-1/2 (60.3mm)	-24	1-1/2	4S	154(6.06)	60.3(2.37)	78(3.07)
PA32-24 4S	2 (71.4mm)	-24	1-1/2	4S	165(6.50)	71.4(2.81)	95(3.74)
PA32-32 4S	2 (71.4mm)	-32	2	4S	175(6.89)	71.4(2.81)	95(3.74)

Model	End Connection	Hose Model & Type			A	F	B	E
4PA08-08 4S	1/2 (30.2mm)	-8	1/2	4S	115(4.53)	30.2(1.19)	77(3.03)	25(0.98)
4PA10-10 4S	5/8 (34.0mm)	-10	5/8	4S	125(4.92)	34(1.34)	77(3.03)	30(1.18)
4PA12-12	3/4 (38.1mm)	-12	3/4	1W.2W	125(4.92)	38.1(1.50)	80(3.15)	30(1.18)
4PA12-12 4S	3/4 (38.1mm)	-12	3/4	4S	135(5.31)	38.1(1.50)	80(3.15)	30(1.18)
4PA16-12 4S	1 (44.5mm)	-12	3/4	4S	160(6.30)	44.5(1.75)	107(4.21)	30(1.18)
4PA12-16 4S	3/4 (38.1mm)	-16	1	4S	158(6.22)	38.1(1.50)	85(3.35)	30(1.18)
4PA16-16	1 (44.5mm)	-16	1	1W.2W	134(5.28)	44.5(1.75)	85(3.35)	30(1.18)
4PA16-16 4S	1 (44.5mm)	-16	1	4S	150(5.91)	44.5(1.75)	85(3.35)	30(1.18)
4PA20-16 4S	1-1/4 (50.8mm)	-16	1	4S	170(6.69)	50.8(2.00)	107(4.21)	35(1.38)
4PA20-20 4S	1-1/4 (50.8mm)	-20	1-1/4	4S	185(7.28)	50.8(2.00)	115(4.53)	35(1.38)

M.M.(INCHES)



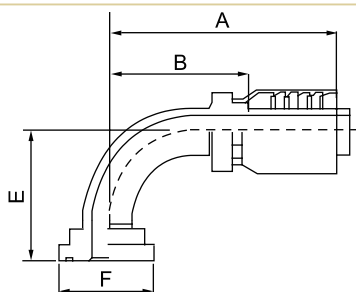
SOLTECH

HYDRAULIC HOSE

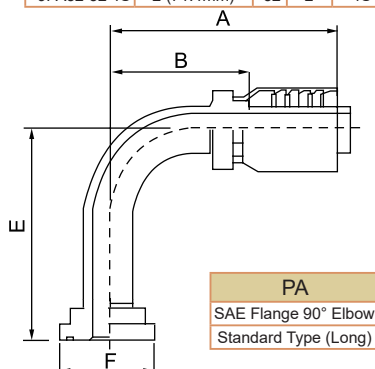
FITTINGS-FLANGE

DIMENSIONS

PA
SAE Flange 90° Elbow
Standard Type



Model	End Connection	Hose Model & Type			A	F	B	E
9PA08-08 4S	1/2 (30.2mm)	-8	1/2	4S	95(3.74)	30.2(1.19)	58(2.28)	45(1.77)
9PA10-08 4S	5/8 (34.0mm)	-8	1/2	4S	98(3.86)	34(1.34)	58(2.28)	50(1.97)
9PA12-08 4S	3/4 (38.1mm)	-8	1/2	4S	98(3.86)	38.1(1.50)	58(2.28)	60(2.36)
9PA08-10 4S	1/2 (30.2mm)	-10	5/8	4S	98(3.86)	30.2(1.19)	58(2.28)	50(1.97)
9PA10-10 4S	5/8 (34.0mm)	-10	5/8	4S	105(4.13)	34(1.34)	58(2.28)	50(1.97)
9PA12-10 4S	3/4 (38.1mm)	-10	5/8	4S	105(4.13)	38.1(1.50)	60(2.36)	60(2.36)
9PA10-12 4S	5/8 (34.0mm)	-12	3/4	4S	115(4.53)	34(1.34)	62(2.44)	60(2.36)
9PA12-12	3/4 (38.1mm)	-12	3/4	1W.2W	105(4.13)	38.1(1.50)	62(2.44)	60(2.36)
9PA12-12 4S	3/4 (38.1mm)	-12	3/4	4S	115(4.53)	38.1(1.50)	62(2.44)	60(2.36)
9PA16-12 4S	1 (44.5mm)	-12	3/4	4S	120(4.72)	44.5(1.75)	75(2.95)	60(2.36)
9PA12-16 4S	3/4 (38.1mm)	-16	1	4S	130(5.12)	38.1(1.50)	62(2.44)	60(2.36)
9PA16-16	1 (44.5mm)	-16	1	1W.2W	114(4.49)	44.5(1.75)	65(2.56)	65(2.56)
9PA16-16 4S	1 (44.5mm)	-16	1	4S	130(5.12)	44.5(1.75)	65(2.56)	65(2.56)
9PA20-16 4S	1-1/4 (50.8mm)	-16	1	4S	135(5.31)	50.8(2.00)	70(2.76)	65(2.56)
9PA20-20 4S	1-1/4 (50.8mm)	-20	1-1/4	4S	150(5.91)	50.8(2.00)	80(3.15)	90(3.54)
9PA24-20 4S	1-1/2 (60.3mm)	-20	1-1/4	4S	150(5.91)	60.3(2.37)	80(3.15)	90(3.54)
9PA24-24 4S	1-1/2 (60.3mm)	-24	1-1/2	4S	180(7.09)	60.3(2.37)	105(4.13)	110(4.33)
9PA32-32 4S	2 (71.4mm)	-32	2	4S	205(8.07)	71.4(2.81)	130(5.12)	122(4.80)



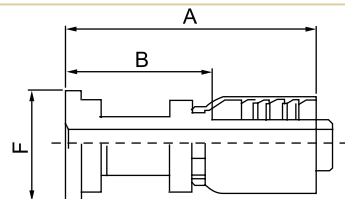
PA
SAE Flange 90° Elbow
Standard Type (Long)

Model	End Connection	Hose Model & Type			A	F	B	E
9PA08-08 4S L85	1/2 (30.2mm)	-8	1/2	4S	90(3.54)	30.2(1.19)	53(2.09)	85(3.35)
9PA08-08 4S L130	1/2 (30.2mm)	-8	1/2	4S	90(3.54)	30.2(1.19)	53(2.09)	130(5.12)
9PA12-10 4S L95	3/4 (38.1mm)	-10	5/8	4S	105(4.13)	38.1(1.50)	60(2.36)	95(3.74)
9PA08-12 4S L130	1/2 (30.2mm)	-12	3/4	4S	115(4.53)	30.2(1.19)	62(2.44)	130(5.12)
9PA12-12 4S L90	3/4 (38.1mm)	-12	3/4	4S	115(4.53)	38.1(1.50)	62(2.44)	90(3.54)
9PA12-12 4S L130	3/4 (38.1mm)	-12	3/4	4S	115(4.53)	38.1(1.50)	62(2.44)	110(4.33)
9PA12-12 4S L150	3/4 (38.1mm)	-12	3/4	4S	115(4.53)	38.1(1.50)	62(2.44)	150(5.91)
9PA16-12 4S L90	1 (44.5mm)	-12	3/4	4S	115(4.53)	44.5(1.75)	62(2.44)	90(3.54)
9PA16-12 4S L110	1 (44.5mm)	-12	3/4	4S	115(4.53)	44.5(1.75)	62(2.44)	110(4.33)
9PA16-12 4S L130	1 (44.5mm)	-12	3/4	4S	128(5.04)	44.5(1.75)	62(2.44)	130(5.12)
9PA12-16 4S L110	3/4 (38.1mm)	-16	1	4S	130(5.12)	38.1(1.50)	62(2.44)	110(4.33)
9PA12-16 4S L150	3/4 (38.1mm)	-16	1	4S	130(5.12)	38.1(1.50)	62(2.44)	150(5.91)
9PA16-16 4S L90	1 (44.5mm)	-16	1	4S	135(5.31)	44.5(1.75)	72(2.83)	90(3.54)
9PA16-16 4S L110	1 (44.5mm)	-16	1	4S	135(5.31)	44.5(1.75)	72(2.83)	110(4.33)
9PA16-16 4S L130	1 (44.5mm)	-16	1	4S	135(5.31)	44.5(1.75)	72(2.83)	130(5.12)
9PA20-16 4S L110	1-1/4 (50.8mm)	-16	1	4S	150(5.91)	50.8(2.00)	80(3.15)	110(4.33)
9PA20-16 4S L150	1-1/4 (50.8mm)	-16	1	4S	150(5.91)	50.8(2.00)	80(3.15)	150(5.91)

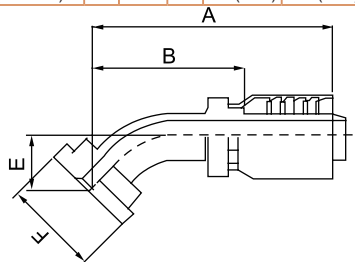
Model	End Connection	Hose Model & Type			A	F	B	E
9PH12-12 4S L90	3/4 (41.3mm)	-12	3/4	4S	115(4.53)	41.3(1.63)	63(2.48)	90(3.54)
9PH12-12 4S L110	3/4 (41.3mm)	-12	3/4	4S	115(4.53)	41.3(1.63)	63(2.48)	110(4.33)
9PH16-12 4S L110	1 (47.6mm)	-12	3/4	4S	115(4.53)	47.6(1.87)	62(2.44)	110(4.33)
9PH16-16 4S L80	1 (47.6mm)	-16	1	4S	135(5.31)	47.6(1.87)	72(2.83)	80(3.15)
9PH16-16 4S L110	1 (47.6mm)	-16	1	4S	135(5.31)	47.6(1.87)	72(2.83)	110(4.33)
9PH20-20 4S L170	1-1/4 (54.0mm)	-20	1-1/4	4S	180(7.09)	54(2.13)	115(4.53)	170(6.69)
9PH20-20 4S L250	1-1/4 (54.0mm)	-20	1-1/4	4S	180(7.09)	54(2.13)	115(4.53)	250(9.84)

PH

SAE Flange
Heavy Series



Model	End Connection	Hose Model & Type			A	F	B
PH08-08 4S	1/2 (31.8mm)	-8	1/2	4S	93(3.66)	31.8(1.25)	56(2.20)
PH12-08 4S	3/4 (41.3mm)	-8	1/2	4S	100(3.94)	41.3(1.63)	60(2.36)
PH08-10 4S	1/2 (31.8mm)	-10	5/8	4S	101(3.98)	31.8(1.25)	57(2.24)
PH12-10 4S	3/4 (41.3mm)	-10	5/8	4S	109(4.29)	41.3(1.63)	62(2.44)
PH12-12 4S	3/4 (41.3mm)	-12	3/4	4S	116(4.57)	41.3(1.63)	62(2.44)
PH16-12 4S	1 (47.6mm)	-12	3/4	4S	116(4.57)	47.6(1.87)	62(2.44)
PH12-16 4S	3/4 (41.3mm)	-16	1	4S	119(4.69)	41.3(1.63)	62(2.44)
PH16-16 4S	1 (47.6mm)	-16	1	4S	122(4.80)	47.6(1.87)	59(2.32)
PH20-16 4S	1-1/4 (54.0mm)	-16	1	4S	128(5.04)	54(2.13)	65(2.56)
PH16-20 4S	1 (47.6mm)	-20	1-1/4	4S	129(5.08)	47.6(1.87)	60(2.36)
PH20-20 4S	1-1/4 (54.0mm)	-20	1-1/4	4S	148(5.83)	54(2.13)	75(2.95)
PH24-20 4S	1-1/2 (63.5mm)	-20	1-1/4	4S	150(5.91)	63.5(2.50)	78(3.07)
PH20-24 4S	1-1/4 (54.0mm)	-24	1-1/2	4S	154(6.06)	54(2.13)	75(2.95)
PH24-24 4S	1-1/2 (63.5mm)	-24	1-1/2	4S	154(6.06)	63.5(2.50)	78(3.07)
PH32-24 4S	2 (79.4mm)	-24	1-1/2	4S	165(6.50)	79.4(3.13)	95(3.74)
PH32-32 4S	2 (79.4mm)	-32	2	4S	175(6.89)	79.4(3.13)	95(3.74)



PH

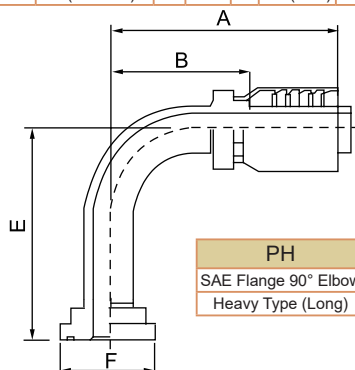
SAE Flange 45° Elbow
Heavy Type

Model	End Connection	Hose Model & Type			A	F	B	E
4PH08-08 4S	1/2 (31.8mm)	-8	1/2	4S	115(4.53)	31.8(1.25)	77(3.03)	25(0.98)
4PH12-12 4S	3/4 (41.3mm)	-12	3/4	4S	140(5.51)	41.3(1.63)	90(3.54)	35(1.38)
4PH16-12 4S	1 (47.6mm)	-12	3/4	4S	160(6.30)	47.6(1.87)	107(4.21)	30(1.18)
4PH16-16 4S	1 (47.6mm)	-16	1	4S	165(6.50)	47.6(1.87)	105(4.13)	35(1.38)
4PH20-20 4S	1-1/4 (54.0mm)	-20	1-1/4	4S	185(7.28)	54(2.13)	115(4.53)	35(1.38)

PH

SAE Flange 90° Elbow
Heavy Type

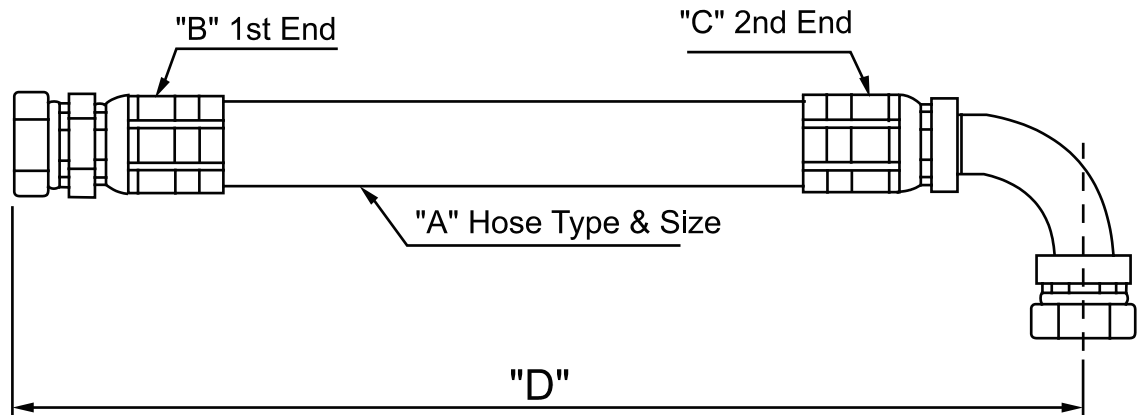
Model	End Connection	Hose Model & Type			A	F	B	E
9PH08-08 4S	1/2 (31.8mm)	-8	1/2	4S	95(3.74)	31.8(1.25)	58(2.28)	45(1.77)
9PH12-10 4S	3/4 (41.3mm)	-10	5/8	4S	105(4.13)	41.3(1.63)	60(2.36)	60(2.36)
9PH12-12 4S	3/4 (41.3mm)	-12	3/4	4S	115(4.53)	41.3(1.63)	63(2.48)	60(2.36)
9PH16-12 4S	1 (47.6mm)	-12	3/4	4S	120(4.72)	47.6(1.87)	75(2.95)	60(2.36)
9PH16-16 4S	1 (47.6mm)	-16	1	4S	130(5.12)	47.6(1.87)	68(2.68)	65(2.56)
9PH20-20 4S	1-1/4 (54.0mm)	-20	1-1/4	4S	180(7.09)	54(2.13)	115(4.53)	80(3.15)
9PH24-24 4S	1-1/2 (63.5mm)	-24	1-1/2	4S	180(7.09)	63.5(2.50)	105(4.13)	110(4.33)
9PH32-32 4S	2 (79.4mm)	-32	2	4S	205(8.07)	79.4(3.13)	130(5.12)	122(4.80)



PH
SAE Flange 90° Elbow
Heavy Type (Long)

M.M.(INCHES)

【HOSE ASSEMBLIES WITH FITTINGS】



※DESIGNATION

R1-	04-	NJ04-04-	NPT04-04-	1000-	MM-	10
A. Hose Type	A. Hose Size	B. 1st End Fitting Model Code	C. 2nd End Fitting Part No.	D. Overall Length	Unit	Q'ty(PCs)
R1: R1 R2: R2 R12: R12 4SP: 4SP	04= 1/4" 05= 5/16" 06= 3/8" 08= 1/2" 10= 5/8" 12= 3/4" 16= 1" 20= 1-1/4" 24= 1-1/2" 32= 2"	Please Refer to Fitting's Model Code	Please Refer to Fitting's Model Code		M.M.: Millimeter Inch: Inch	

EXTERNAL SKIVING MACHINE 【SK200】



● The SK200 is a handy tool for external skiving of wire-braided hydraulic hoses or multi-spiral hoses from size 04 to 32 (hose internal diameter 1/4" to 2"). To avoid tedious adjustments, it is specially designed to be adjusted to a precise diameter in one time. The compact size and easy-mounted device allows you to install it easily and quickly in the limited working space.



Application

- Hose types: Wire braided / multi-spiral hoses
- Diameters: 1/4" to 2" / up to 6 spirals

Equipment

- Number of tools: set of 9pcs from 1/4" to 2" for wire braided hoses (optional)
set of 7pcs from 1/2" to 2" for multi-spiral hoses (optional)
- Blade: Heat treated steel
- Rotation speed: up to 200 RPM
- Pedal switch