

DM 20 Series - NPS Pipe

General Characteristics

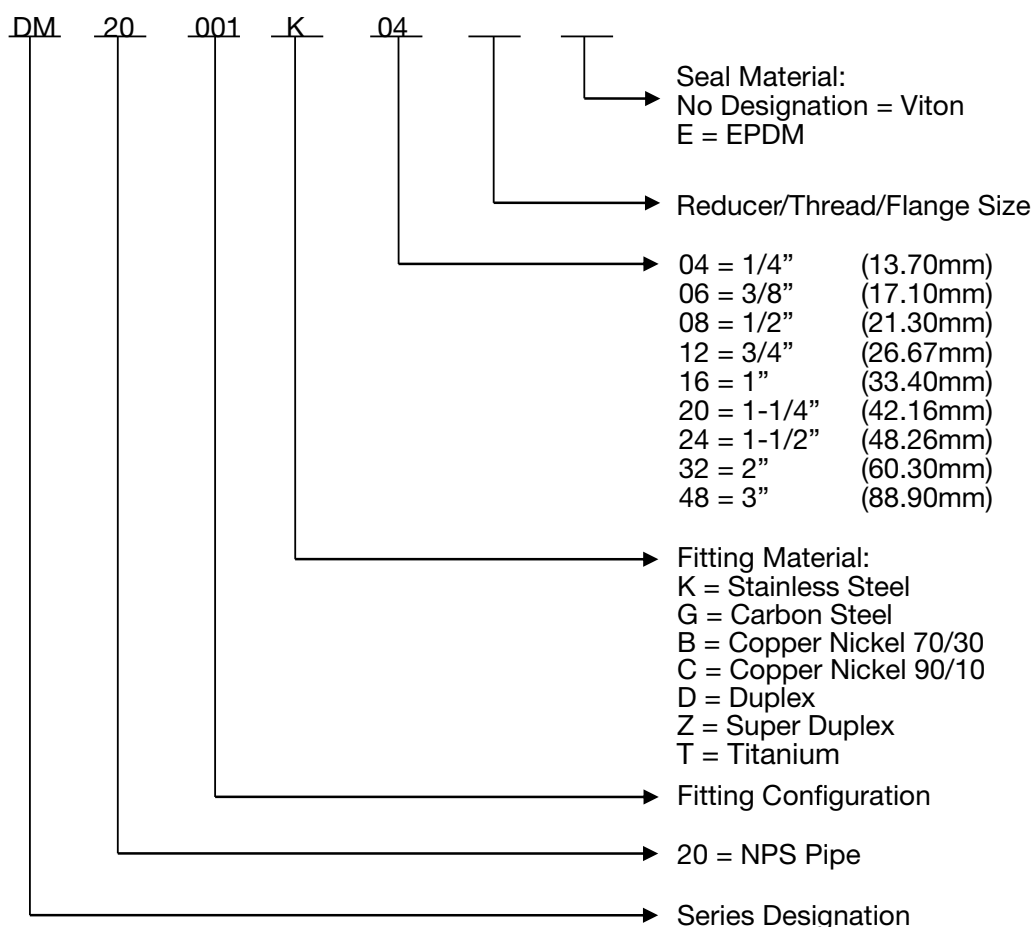
Fitting Material Specifications	Material Specification
K = Stainless Steel	ASTM-A479/A182-316
G = Carbon Steel	ASTM-A105/A350 LF2
B = Copper Nickel 70/30	MIL-C71500
C = Copper Nickel 90/10	MIL-C70600
D = Duplex	ASTM-A479/A182-UNS31803
Z = Super Duplex	ASTM-A479/A182-UNS32750
T = Titanium	ASTM B348 Gr.2

2" NPS DM 20 Series Carbon Steel PYPLOK® cannot be used on EN 10305-4 (E355N/ST52.4) pipe/tube but as replacement 2" NPS DM 20 Series Stainless Steel PYPLOK® or 60mm DM 80 Series Carbon Steel PYPLOK® can be used.

O-Ring Material Specifications	O-Ring Temperature Limits
VITON (Brown Colour)	-15°F to 400°F (-26°C to 205°C)
EPDM (Black Colour)	-60°F to 400°F (-51°C to 205°C)

For seal compatibility and selection for each system consult factory. Other seal materials for specific applications of compatibility and temperature are available upon request.

Ordering Information



System design and safe application is the responsibility of the end-user. Consideration must be taken to confirm proper fitting selection is made to ensure proper compatibility, function and operation of the fitting within the piping system. The technical and performance information such as weights, dimensions and ratings in this catalogue supersede all previous published data. Tube-Mac® reserves the right to change technical data and product dimension, ratings and other aspects without notice.

DM 20 Series - NPS Pipe

Standard Fitting Configuration Guide

1/4" to 3"

					
Coupling DM20001 Page C4	Coupling with Inner Stop DM20002 Page C4	Extra Long Coupling DM20301 Page C5	90° Elbow DM20003 Page C5	45° Elbow DM20017 Page C6	Tee DM20004 Page C6
					
Reducing Tee DM20104 Page C7	Reducer DM20101 Page C7	End Cap DM20085 Page C8	Flange - ANSI 150# DM200018 Page C8	Flange - ANSI #150 Male Stub DM20118 Page C9	Flange - ANSI 300# DM20019 Page C9
					
Flange - ANSI #300 Male Stub DM20119 Page C10	Flange - ANSI 600# DM20027 Page C10	Flange - ANSI #600 Male Stub DM20127 Page C11	SAE Flange Body DM20090 Page C11	SAE Code 61 Flange DM20091 Page C12	SAE Code 62 Flange DM20092 Page C12
					
SAE Code 61 Tapped Flange DM20095 Page C13	SAE Code 62 Tapped Flange DM20096 Page C13	JIC 37° Male A/DM20055 Page C14	JIC 37° Female Swivel A/DM20054 Page C14	NPT Male DM20056 Page C15	NPT Female DM20060 Page C15
					
DIN 24° Male DM20066 Page C16	DIN 24° Female Swivel DM20068 Page C16	SAE Male A/DM20088 Page C17	SAE Female DM20087 Page C17	BSPP Male DM20153 Page C18	BSPP Female DM20086 Page C18

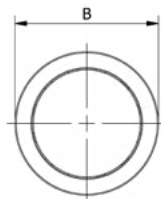
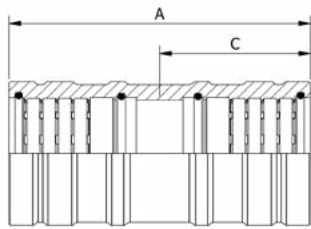
DM 20 Series - NPS Pipe

Standard Fitting Configuration Guide

1/4" to 3"

					
ORFS Male A/DM20010 Page C19	ORFS Female Swivel A/DM20020 Page C19	Weldable Bulkhead DM60089 Page C20	SAE Female Branch Tee DM20171 Page C20	BSPP Female Branch Tee DM20172 Page C21	NPT Female Branch Tee DM20173 Page C21

DM 20 Series - NPS Pipe



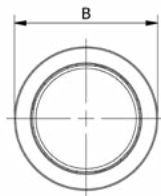
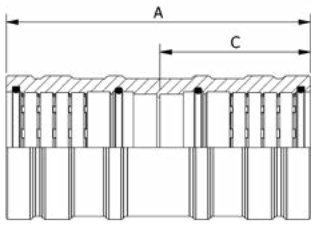
*MATERIAL CODE:
K = STAINLESS STEEL
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ORDER EXAMPLE:
DM20001G04

Coupling, NPS - DM20001

Size NPS	Part Number	Dimensions - Inch (mm)			*Weight K & G lbs (kg)
		A	B	C Insertion Depth	
1/4"	DM20001*04	2.25 (57.15)	0.80 (20.32)	1.13 (28.70)	0.12 (0.05)
3/8"	DM20001*06	2.75 (69.85)	0.99 (25.15)	1.38 (35.05)	0.25 (0.11)
1/2"	DM20001*08	3.00 (76.20)	1.20 (30.48)	1.50 (38.10)	0.44 (0.20)
3/4"	DM20001*12	3.50 (88.90)	1.48 (37.59)	1.75 (44.45)	0.61 (0.28)
1"	DM20001*16	4.00 (101.60)	1.82 (46.23)	2.00 (50.80)	1.07 (0.49)
1-1/4"	DM20001*20	4.75 (120.65)	2.26 (57.40)	2.38 (60.45)	2.00 (0.91)
1-1/2"	DM20001*24	5.00 (127.00)	2.58 (65.53)	2.50 (63.50)	2.78 (1.26)
2"	DM20001*32	7.00 (177.80)	3.04 (77.22)	3.50 (88.90)	4.40 (2.00)
3"	DM20001*48	10.00 (254.00)	4.38 (111.25)	5.00 (127.00)	14.06 (6.38)

**2" DM20 Series Carbon Steel PYPLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.



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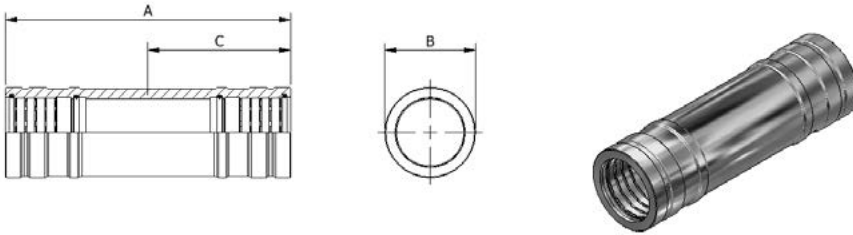
ORDER EXAMPLE:
DM20002G04

Coupling with Inner Stop, NPS - DM20002

Size NPS	Part Number	Dimensions - Inch (mm)			*Weight K & G lbs (kg)
		A	B	C Insertion Depth	
1/4"	DM20002*04	2.30 (58.42)	0.80 (20.32)	1.13 (28.70)	0.12 (0.05)
3/8"	DM20002*06	2.80 (71.12)	0.99 (25.15)	1.38 (35.05)	0.25 (0.11)
1/2"	DM20002*08	3.05 (77.47)	1.20 (30.48)	1.50 (38.10)	0.35 (0.16)
3/4"	DM20002*12	3.55 (90.17)	1.48 (37.59)	1.75 (44.45)	0.61 (0.28)
1"	DM20002*16	4.05 (102.87)	1.82 (46.23)	2.00 (50.80)	1.07 (0.49)
1-1/4"	DM20002*20	4.80 (121.92)	2.26 (57.40)	2.38 (60.45)	1.96 (0.89)
1-1/2"	DM20002*24	5.05 (128.27)	2.58 (65.53)	2.50 (63.50)	2.78 (1.26)
2"	DM20002*32	7.05 (179.07)	3.04 (77.22)	3.50 (88.90)	4.40 (2.00)
3"	DM20002*48	10.05 (255.27)	4.38 (111.25)	5.00 (127.00)	12.21 (5.54)

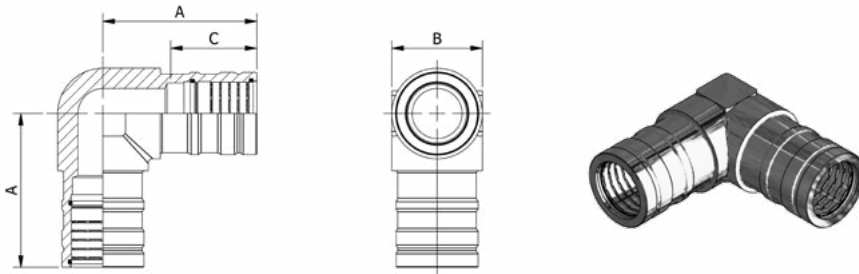
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DM 20 Series - NPS Pipe



Extra Long Coupling, NPS - DM20301

Size NPS	Part Number	Dimensions - Inch (mm)			*Weight K & G lbs (kg)
		A	B	C Insertion Depth	
1/4"	DM20301*04	4.00 (101.60)	0.80 (20.32)	1.13 (28.70)	0.22 (0.10)
3/8"	DM20301*06	5.50 (139.70)	0.99 (25.15)	1.38 (35.05)	0.49 (0.22)
1/2"	DM20301*08	6.00 (152.40)	1.20 (30.48)	1.50 (38.10)	0.73 (0.33)
3/4"	DM20301*12	7.00 (177.80)	1.48 (37.59)	1.75 (44.45)	1.30 (0.59)
1"	DM20301*16	8.00 (203.20)	1.82 (46.23)	2.00 (50.80)	2.22 (1.01)
1-1/4"	DM20301*20	7.13 (180.98)	2.26 (57.40)	2.38 (60.45)	3.00 (1.36)
1-1/2"	DM20301*24	7.50 (190.50)	2.58 (65.53)	2.50 (63.50)	4.31 (1.95)
2"	DM20301*32	10.50 (266.70)	3.04 (77.22)	3.50 (88.90)	7.81 (3.54)
3"	DM20301*48	15.00 (381.00)	4.38 (111.25)	5.00 (127.00)	18.96 (8.60)



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ORDER EXAMPLE:
DM20003G04

90° Elbow, NPS - DM20003

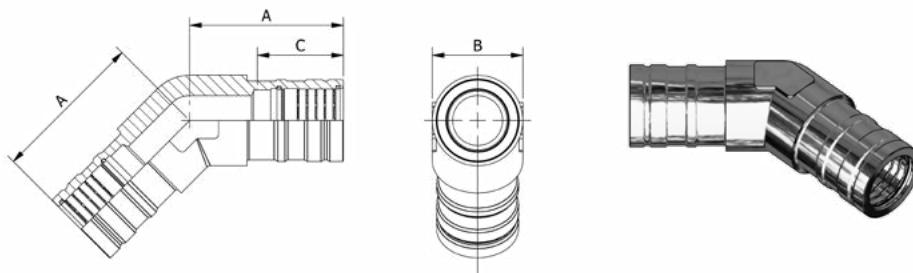
Size NPS	Part Number	Dimensions - Inch (mm)			*Weight K & G lbs (kg)
		A	B	C Insertion Depth	
1/4"	DM20003*04	1.75 (44.45)	0.86 (21.84)	1.13 (28.70)	0.29 (0.13)
3/8"	DM20003*06	2.00 (50.80)	1.06 (26.92)	1.38 (35.05)	0.56 (0.25)
1/2"	DM20003*08	2.68 (68.07)	1.30 (33.02)	1.50 (38.10)	1.00 (0.45)
3/4"	DM20003*12	3.03 (76.96)	1.58 (40.13)	1.75 (44.45)	1.50 (0.68)
1"	DM20003*16	3.37 (85.60)	1.97 (50.04)	2.00 (50.80)	2.65 (1.20)
1-1/4"	DM20003*20	4.25 (107.95)	2.50 (63.50)	2.38 (60.45)	5.95 (2.70)
1-1/2"	DM20003*24	4.54 (115.32)	2.81 (71.37)	2.50 (63.50)	7.10 (3.22)
2"	DM20003*32	5.45 (138.43)	3.25 (82.55)	3.50 (88.90)	9.60 (4.35)
**3"	DM20003*48	11.09 (281.69)	4.38 (111.25)	5.00 (127.00)	25.23 (11.44)

**3" PYPLOK® DM 20 Series shapes such as Tees and Elbows are made as welded assemblies using ASME B16.9 SCH.160 Butt Weld Fittings. All other sizes are made from forged material.

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3D STEP MODELS AVAILABLE UPON REQUEST

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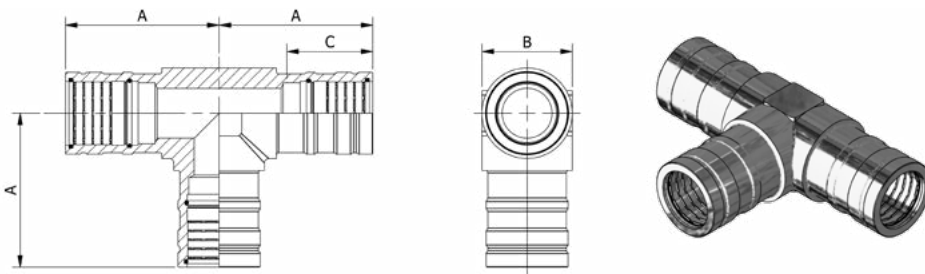
ORDER EXAMPLE:
DM20017G04

45° Elbow, NPS - DM20017

Size NPS	Part Number	Dimensions - Inch (mm)			*Weight K & G lbs (kg)
		A	B	C Insertion Depth	
1/4"	DM20017*04	1.75 (44.45)	0.86 (21.84)	1.13 (28.70)	0.40 (0.18)
3/8"	DM20017*06	2.00 (50.80)	1.06 (26.92)	1.38 (35.05)	0.50 (0.23)
1/2"	DM20017*08	2.68 (68.07)	1.30 (33.02)	1.50 (38.10)	1.00 (0.45)
3/4"	DM20017*12	3.03 (76.96)	1.58 (40.13)	1.75 (44.45)	1.50 (0.68)
1"	DM20017*16	3.37 (85.60)	1.97 (50.04)	2.00 (50.80)	3.10 (1.41)
1-1/4"	DM20017*20	4.25 (107.95)	2.50 (63.50)	2.38 (60.45)	5.60 (2.54)
1-1/2"	DM20017*24	4.54 (115.32)	2.81 (71.37)	2.50 (63.50)	7.40 (3.36)
2"	DM20017*32	5.45 (138.43)	3.25 (82.55)	3.50 (88.90)	9.60 (4.35)
**3"	DM20017*48	8.59 (218.19)	4.38 (111.25)	5.00 (127.00)	21.26 (9.64)

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ORDER EXAMPLE:
DM20004G04

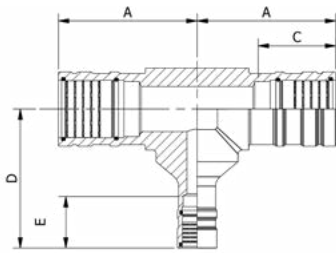
Tee, NPS - DM20004

Size NPS	Part Number	Dimensions - Inch (mm)			*Weight K & G lbs (kg)
		A	B	C Insertion Depth	
1/4"	DM20004*04	1.75 (44.45)	0.86 (21.84)	1.13 (28.70)	0.38 (0.17)
3/8"	DM20004*06	2.00 (50.80)	1.06 (26.92)	1.38 (35.05)	0.65 (0.29)
1/2"	DM20004*08	2.68 (68.07)	1.30 (33.02)	1.50 (38.10)	1.30 (0.59)
3/4"	DM20004*12	3.03 (76.96)	1.58 (40.13)	1.75 (44.45)	2.00 (0.91)
1"	DM20004*16	3.37 (85.60)	1.97 (50.04)	2.00 (50.80)	3.40 (1.54)
1-1/4"	DM20004*20	4.25 (107.95)	2.50 (63.50)	2.38 (60.45)	7.10 (3.22)
1-1/2"	DM20004*24	4.54 (115.32)	2.81 (71.37)	2.50 (63.50)	9.20 (4.17)
2"	DM20004*32	5.45 (138.43)	3.25 (82.55)	3.50 (88.90)	12.80 (5.81)
**3"	DM20004*48	9.97 (253.24)	4.38 (111.25)	5.00 (127.00)	34.95 (15.85)

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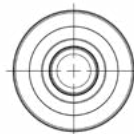
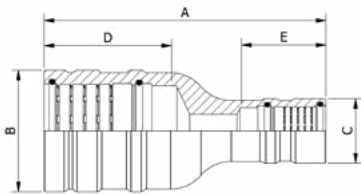
ORDER EXAMPLE:
DM20104G0604

OTHER CONFIGURATIONS AVAILABLE.
CONTACT FACTORY FOR DETAILS.

Reducing Tee, NPS - DM20104

Run Size NPS	Branch Size NPS	Part Number	Dimensions - Inch (mm)					*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	E Insertion Depth	
3/8"	1/4"	DM20104*0604	2.00 (50.80)	1.06 (26.92)	1.38 (35.05)	2.00 (50.80)	1.13 (28.70)	0.62 (0.28)
1/2"	3/8"	DM20104*0806	2.68 (68.07)	1.30 (33.02)	1.50 (38.10)	2.50 (63.50)	1.38 (35.05)	1.30 (0.59)
3/4"	1/2"	DM20104*1208	3.03 (76.96)	1.58 (40.13)	1.75 (44.45)	3.13 (79.50)	1.50 (38.10)	2.00 (0.91)
1"	1/2"	DM20104*1608	3.37 (85.60)	1.97 (50.04)	2.00 (50.80)	3.27 (83.06)	1.50 (38.10)	3.20 (1.45)
1"	3/4"	DM20104*1612	3.37 (85.60)	1.97 (50.04)	2.00 (50.80)	3.37 (85.60)	1.75 (44.45)	3.20 (1.45)
1 1/4"	1/2"	DM20104*2008	4.25 (107.95)	2.50 (63.50)	2.38 (60.45)	4.25 (107.95)	1.50 (38.10)	6.80 (3.08)
1-1/4"	3/4"	DM20104*2012	4.25 (107.95)	2.50 (63.50)	2.38 (60.45)	4.25 (107.95)	1.75 (44.45)	6.80 (3.08)
1-1/4"	1"	DM20104*2016	4.25 (107.95)	2.50 (63.50)	2.38 (60.45)	4.25 (107.95)	2.00 (50.80)	6.80 (3.08)
1 1/2"	3/4"	DM20104*2412	4.54 (115.32)	2.81 (71.37)	2.50 (63.50)	4.54 (115.32)	1.75 (44.45)	8.80 (3.99)
1-1/2"	1"	DM20104*2416	4.54 (115.32)	2.81 (71.37)	2.50 (63.50)	4.54 (115.32)	2.00 (50.80)	8.80 (3.99)
1-1/2"	1-1/4"	DM20104*2420	4.54 (115.32)	2.81 (71.37)	2.50 (63.50)	4.54 (115.32)	2.38 (60.45)	8.80 (3.99)
2"	1"	DM20104*3216	5.45 (138.43)	3.25 (82.55)	3.50 (88.90)	5.38 (136.65)	2.00 (50.80)	12.40 (5.62)
2"	1-1/4"	DM20104*3220	5.45 (138.43)	3.25 (82.55)	3.50 (88.90)	5.38 (136.65)	2.38 (60.45)	13.10 (5.94)
2"	1-1/2"	DM20104*3224	5.45 (138.43)	3.25 (82.55)	3.50 (88.90)	5.38 (136.65)	2.50 (63.50)	13.40 (6.08)

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ORDER EXAMPLE:
DM20101G0604

OTHER CONFIGURATIONS AVAILABLE.
CONTACT FACTORY FOR DETAILS.

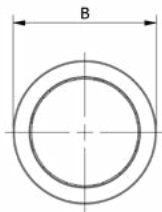
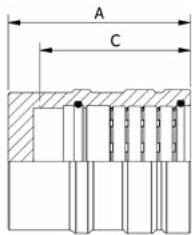
Reducer, NPS - DM20101

End 1 Size NPS	End 2 Size NPS	Part Number	Dimensions - Inch (mm)					*Weight K & G lbs (kg)
			A	B	C	D Insertion Depth	E Insertion Depth	
3/8"	1/4"	DM20101*0604	3.00 (76.20)	0.99 (25.15)	0.80 (20.32)	1.38 (35.05)	1.13 (28.70)	0.26 (0.12)
1/2"	3/8"	DM20101*0806	3.75 (95.25)	1.20 (30.48)	0.99 (25.15)	1.50 (38.10)	1.38 (35.05)	0.40 (0.18)
3/4"	1/2"	DM20101*1208	4.38 (111.25)	1.48 (37.59)	1.20 (30.48)	1.75 (44.45)	1.50 (38.10)	0.70 (0.32)
1"	1/2"	DM20101*1608	5.00 (127.00)	1.82 (46.23)	1.20 (30.48)	2.00 (50.80)	1.50 (38.10)	1.25 (0.57)
1"	3/4"	DM20101*1612	5.00 (127.00)	1.82 (46.23)	1.48 (37.59)	2.00 (50.80)	1.75 (44.45)	1.30 (0.59)
1-1/4"	3/4"	DM20101*2012	5.38 (136.65)	2.26 (57.40)	1.48 (37.59)	2.38 (60.45)	1.75 (44.45)	1.80 (0.82)
1-1/4"	1"	DM20101*2016	5.38 (136.65)	2.26 (57.40)	1.82 (46.23)	2.38 (60.45)	2.00 (50.80)	2.04 (0.93)
1-1/2"	3/4"	DM20101*2412	5.88 (149.35)	2.58 (65.53)	1.48 (37.59)	2.50 (63.50)	1.75 (44.45)	2.82 (1.28)
1-1/2"	1"	DM20101*2416	5.88 (149.35)	2.58 (65.53)	1.82 (46.23)	2.50 (63.50)	2.00 (50.80)	2.85 (1.29)
1-1/2"	1-1/4"	DM20101*2420	6.00 (154.43)	2.58 (65.53)	2.26 (57.40)	2.50 (63.50)	2.38 (60.45)	3.17 (1.44)
2"	1"	DM20101*3216	7.00 (177.80)	3.04 (77.22)	1.82 (46.23)	3.50 (88.90)	2.00 (50.80)	3.69 (1.67)
2"	1-1/4"	DM20101*3220	7.25 (184.15)	3.04 (77.22)	2.26 (57.40)	3.50 (88.90)	2.38 (60.45)	4.20 (1.90)
2"	1-1/2"	DM20101*3224	7.50 (190.05)	3.04 (77.22)	2.58 (65.53)	3.50 (88.90)	2.50 (63.50)	4.67 (2.12)

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3D STEP MODELS AVAILABLE UPON REQUEST

DM 20 Series - NPS Pipe



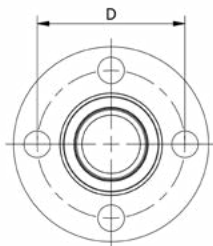
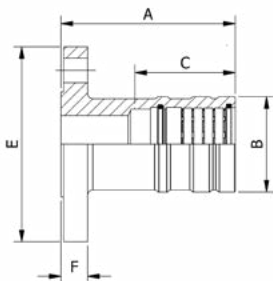
*MATERIAL CODE:
K = STAINLESS STEEL
G = CARBON STEEL
B = COPPER NICKEL 70/30

ORDER EXAMPLE:
DM20085G04

End Cap, NPS - DM20085

Size NPS	Part Number	Dimensions - Inch (mm)			*Weight K & G lbs (kg)
		A	B	C Insertion Depth	
1/4"	DM20085*04	1.38 (35.05)	0.80 (20.32)	1.13 (28.70)	0.10 (0.05)
3/8"	DM20085*06	1.88 (47.75)	0.99 (25.15)	1.38 (35.05)	0.20 (0.09)
1/2"	DM20085*08	2.00 (50.80)	1.20 (30.48)	1.50 (38.10)	0.30 (0.14)
3/4"	DM20085*12	2.25 (57.15)	1.48 (37.59)	1.75 (44.45)	0.50 (0.23)
1"	DM20085*16	2.50 (63.50)	1.82 (46.23)	2.00 (50.80)	0.84 (0.38)
1-1/4"	DM20085*20	2.88 (73.15)	2.26 (57.40)	2.38 (60.45)	1.44 (0.65)
1-1/2"	DM20085*24	3.00 (76.20)	2.58 (65.53)	2.50 (63.50)	1.98 (0.90)
2"	DM20085*32	4.13 (104.90)	3.04 (77.22)	3.50 (88.90)	3.13 (1.42)
3"	DM20085*48	5.63 (143.00)	4.38 (111.25)	5.00 (127.00)	8.56 (3.88)

**2" DM20 Series Carbon Steel PYLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.



*MATERIAL CODE:
K = STAINLESS STEEL
G = CARBON STEEL
B = COPPER NICKEL 70/30

ORDER EXAMPLE:
DM20018G08

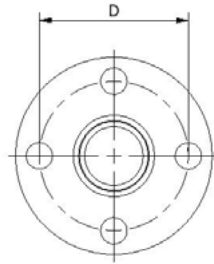
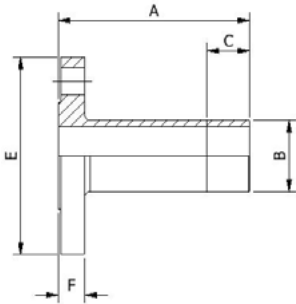
Flange - ANSI 150#, NPS - DM20018

Size NPS	Flange Size	Part Number	Dimensions - Inch (mm)						Bolt Size	*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	E	F		
1/2"	1/2"	DM20018*08	3.00 (76.20)	1.20 (30.48)	1.50 (38.10)	2.38 (60.45)	3.50 (88.90)	0.44 (11.18)	1/2" UNC	1.30 (0.59)
3/4"	3/4"	DM20018*12	3.50 (88.90)	1.48 (37.59)	1.75 (44.45)	2.75 (69.85)	3.88 (98.55)	0.50 (12.70)	1/2" UNC	1.90 (0.86)
1"	1"	DM20018*16	3.63 (92.20)	1.82 (46.23)	2.00 (50.80)	3.12 (79.25)	4.25 (107.95)	0.62 (15.82)	1/2" UNC	3.00 (1.36)
1-1/4"	1-1/4"	DM20018*20	4.13 (104.90)	2.26 (57.40)	2.38 (60.45)	3.50 (88.90)	4.62 (117.35)	0.63 (16.00)	1/2" UNC	4.09 (1.86)
1-1/2"	1-1/2"	DM20018*24	4.25 (107.95)	2.58 (65.53)	2.50 (63.50)	3.88 (98.55)	5.00 (127.00)	0.75 (19.10)	1/2" UNC	5.20 (2.40)
2"	2"	DM20018*32	5.73 (145.54)	3.04 (77.22)	3.50 (88.90)	4.75 (120.65)	6.00 (152.40)	0.69 (17.53)	5/8" UNC	8.50 (3.86)
**3"	3"	DM20018*48	9.34 (237.24)	4.38 (111.25)	5.00 (127.00)	6.00 (152.40)	7.50 (190.50)	1.31 (33.27)	5/8" UNC	24.83 (11.26)
**3"	3"	DM20018*48	9.34 (237.24)	4.38 (111.25)	5.00 (127.00)	6.00 (152.40)	7.50 (190.50)	1.31 (33.27)	5/8" UNC	24.83 (11.26)

**3" PYLOK® DM 20 Series shapes such as Tees and Elbows are made as welded assemblies using ASME B16.9 SCH.160 Butt Weld Fittings. All other sizes are made from forged material.

**2" DM20 Series Carbon Steel PYLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.

DM 20 Series - NPS Pipe



*MATERIAL CODE:

K = STAINLESS STEEL

G = CARBON STEEL

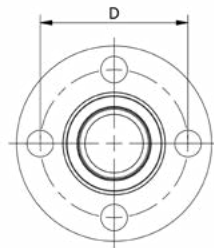
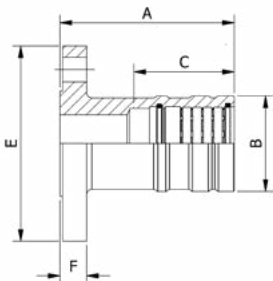
B = COPPER NICKEL 70/30

ORDER EXAMPLE:

DM20018G08

Flange - ANSI 150# x NPS Pipe - DM20118

Size NPS	Flange Size	Part Number	Dimensions - Inch (mm)					Bolt Size	*Weight K & G lbs (kg)
			A	B	D	E	F		
1/2" SCH40	1/2"	DM20118*08	3.33 (82.55)	0.84 (21.34)	2.38 (60.45)	3.50 (88.90)	0.44 (11.13)	1/2"-UNC	1.11 (0.50)
3/4" SCH40	3/4"	DM20118*12	3.75 (95.25)	1.05 (26.67)	2.75 (69.85)	3.88 (98.55)	0.50 (12.70)	1/2"-UNC	1.62 (0.74)
1" SCH40	1"	DM20118*16	4.00 (101.60)	1.32 (33.40)	3.12 (79.25)	4.25 (107.95)	0.56 (14.30)	1/2"-UNC	2.28 (1.03)
1-1/4" SCH40	1-1/4"	DM20118*20	4.50 (114.30)	1.66 (42.16)	3.50 (88.90)	4.62 (117.35)	0.63 (16.00)	1/2"-UNC	3.09 (1.40)
1 1/2" SCH40	1 1/2"	DM20118*24	4.63 (117.48)	1.90 (48.26)	3.88 (98.55)	5.00 (127.00)	0.69 (17.48)	1/2"-UNC	3.91 (1.77)
2" SCH40	2"	DM20118*32	5.75 (146.05)	2.38 (60.33)	4.75 (120.65)	6.00 (152.40)	0.75 (19.05)	5/8"-UNC	6.29 (2.85)
3" SCH40	3"	DM20118*48	7.75 (196.85)	3.50 (88.90)	6.00 (152.40)	7.50 (190.50)	0.94 (23.83)	5/8"-UNC	13.29 (6.03)



*MATERIAL CODE:

K = STAINLESS STEEL

G = CARBON STEEL

B = COPPER NICKEL 70/30

ORDER EXAMPLE:

DM20019G08

Flange - ANSI 300#, NPS - DM20019

Size NPS	Flange Size	Part Number	Dimensions - Inch (mm)						Bolt Size	*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	E	F		
1/2"	1/2"	DM20019*08	3.13 (79.50)	1.20 (30.48)	1.50 (38.10)	2.62 (66.55)	3.75 (95.25)	0.56 (14.22)	1/2" UNC	1.84 (0.83)
3/4"	3/4"	DM20019*12	3.63 (92.20)	1.48 (37.59)	1.75 (44.45)	3.25 (82.55)	4.63 (117.60)	0.63 (16.00)	5/8" UNC	3.10 (1.41)
1"	1"	DM20019*16	3.88 (98.55)	1.82 (46.23)	2.00 (50.80)	3.50 (88.90)	4.88 (123.95)	0.75 (19.05)	5/8" UNC	4.34 (1.97)
1-1/4"	1-1/4"	DM20019*20	4.25 (107.95)	2.26 (57.40)	2.38 (60.45)	3.88 (98.55)	5.25 (133.35)	0.75 (19.05)	5/8" UNC	5.40 (2.45)
1-1/2"	1-1/2"	DM20019*24	4.31 (109.47)	2.58 (65.53)	2.50 (63.50)	4.50 (114.30)	6.12 (155.45)	0.81 (20.57)	3/4" UNC	9.70 (4.40)
**2"	2"	DM20019*32	5.80 (147.32)	3.04 (77.72)	3.50 (88.90)	5.00 (127.00)	6.50 (165.10)	0.88 (22.35)	5/8" UNC	9.77 (4.43)
**3"	3"	DM20019*48	9.72 (246.89)	4.38 (111.25)	5.00 (127.00)	6.63 (168.40)	8.25 (209.55)	1.13 (28.70)	3/4" UNC	26.15 (11.86)

**2" ANSI 300# Flange has 8 Bolts.

**3" PYPLOK® DM 20 Series shapes such as Tees and Elbows are made as welded assemblies using ASME B16.9 SCH.160 Butt Weld Fittings.

All other sizes are made from forged material.

****2" DM20 Series Carbon Steel PYPLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.**

3D STEP MODELS AVAILABLE UPON REQUEST

PYPLOK.com

Introduction

Technical
Information

DM 20 -
NPS Pipe

DM 60 -
OD Tube

DM 80 -
Metric Tube

DM Series
Tube Adapter

DM80 -
Metric JIS Tube

DP 40N - NPS
Low Pressure

DP 40M - Metric
Low Pressure

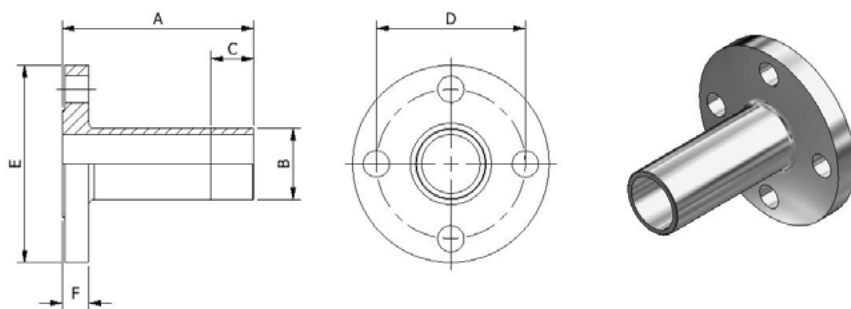
PYPLOK®
Tooling

Installation
Procedures

Appendix

C9

DM 20 Series - NPS Pipe

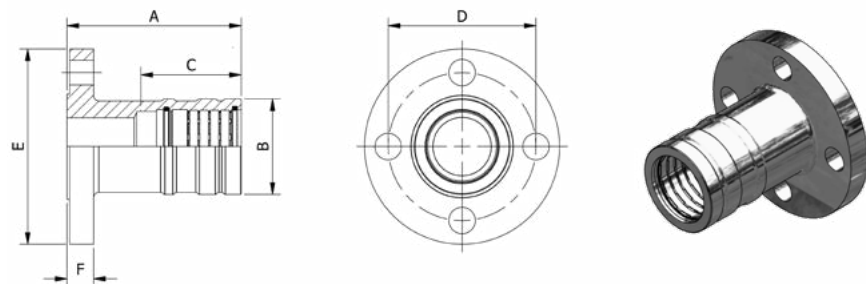


*MATERIAL CODE:
K = STAINLESS STEEL
G = CARBON STEEL
B = COPPER NICKEL 70/30

ORDER EXAMPLE:
DM20019G08

Flange - ANSI 300# x NPS Pipe - DM20119

Size NPS	Flange Size	Part Number	Dimensions - Inch (mm)					Bolt Size	*Weight K & G lbs (kg)
			A	B	D	E	F		
1/2" SCH40	1/2"	DM20119*08	3.33 (82.55)	0.84 (21.34)	2.63 (66.68)	3.75 (95.25)	0.56 (14.29)	1/2"-UNC	1.60 (0.72)
3/4" SCH40	3/4"	DM20119*12	3.75 (95.25)	1.05 (26.67)	3.25 (82.55)	4.63 (117.48)	0.63 (15.88)	5/8"-UNC	2.69 (1.22)
1" SCH40	1"	DM20119*16	4.00 (101.60)	1.32 (33.40)	3.50 (88.90)	4.88 (123.825)	0.69 (17.46)	5/8"-UNC	3.41 (1.55)
1-1/4" SCH40	1-1/4"	DM20119*20	4.50 (114.30)	1.66 (42.16)	3.88 (98.55)	5.25 (133.35)	0.75 (19.05)	5/8"-UNC	4.44 (2.01)
1 1/2" SCH40	1 1/2"	DM20119*24	4.63 (117.48)	1.90 (48.26)	4.50 (114.3)	6.125 (155.58)	0.81 (20.64)	3/4"-UNC	6.72 (3.05)
2" SCH40	2"	DM20119*32	5.75 (146.05)	2.38 (60.33)	5.00 (127.00)	6.50 (165.10)	0.88 (22.23)	5/8"-UNC	8.29 (3.76)
3" SCH40	3"	DM20119*48	8.13 (206.38)	3.50 (88.90)	6.63 (168.28)	8.25 (209.55)	1.25 (31.75)	3/4"-UNC	21.01 (9.53)



*MATERIAL CODE:
K = STAINLESS STEEL
G = CARBON STEEL
B = COPPER NICKEL 70/30

ORDER EXAMPLE:
DM20027G08

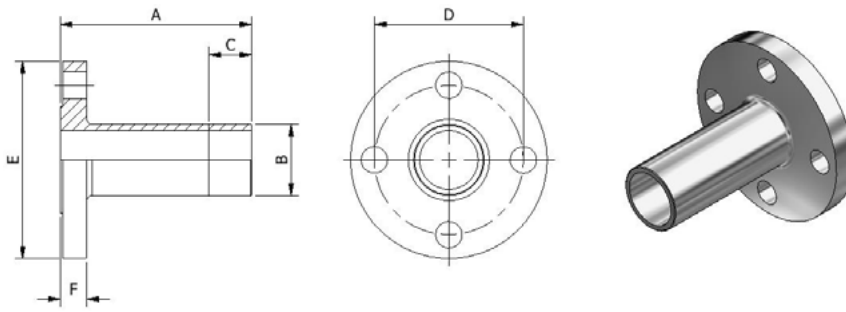
Flange - ANSI 600#, NPS - DM20027

Size NPS	Flange Size	Part Number	Dimensions - Inch (mm)						Bolt Size	*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	E	F		
1/2"	1/2"	DM20027*08	3.31 (84.07)	1.20 (30.48)	1.50 (38.10)	2.63 (66.80)	3.75 (95.25)	0.81 (20.57)	1/2 UNC	2.07 (0.94)
3/4"	3/4"	DM20027*12	3.81 (96.77)	1.48 (37.59)	1.75 (44.45)	3.25 (82.55)	4.63 (117.60)	0.88 (22.35)	5/8 UNC	3.53 (1.60)
1"	1"	DM20027*16	4.00 (101.60)	1.82 (46.23)	2.00 (50.80)	3.50 (88.90)	4.88 (123.95)	0.94 (23.88)	5/8 UNC	4.51 (2.05)
1-1/4"	1-1/4"	DM20027*20	4.50 (114.30)	2.26 (57.40)	2.38 (60.45)	3.88 (98.55)	5.25 (133.35)	1.06 (26.92)	5/8 UNC	6.48 (2.94)
1-1/2"	1-1/2"	DM20027*24	4.63 (117.60)	2.58 (65.53)	2.50 (63.50)	4.50 (114.30)	6.13 (155.70)	1.13 (28.70)	3/4 UNC	9.13 (4.14)
2"	2"	DM20027*32	5.73 (145.54)	3.04 (77.22)	3.50 (88.90)	5.00 (127.00)	6.50 (165.10)	1.25 (31.75)	5/8 UNC	10.92 (4.95)
**3"	3"	DM20027*48	9.97 (253.24)	4.38 (111.25)	5.00 (127.00)	6.63 (168.40)	8.13 (206.50)	1.38 (35.05)	3/4 UNC	25.76 (11.68)

**3" PYPLOK® DM 20 Series shapes such as Tees and Elbows are made as welded assemblies using ASME B16.9 SCH.160 Butt Weld Fittings. All other sizes are made from forged material.

**2" DM20 Series Carbon Steel PYPLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.

DM 20 Series - NPS Pipe

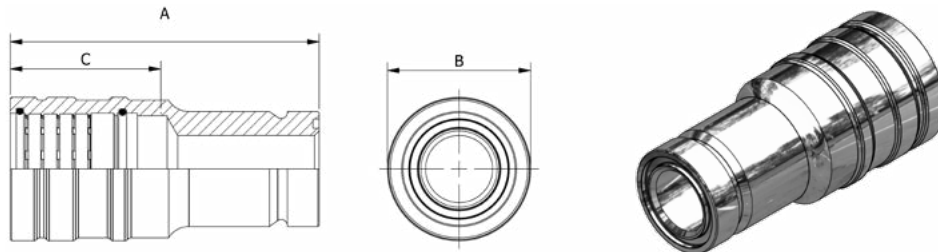


*MATERIAL CODE:
K = STAINLESS STEEL
G = CARBON STEEL
B = COPPER NICKEL 70/30

ORDER EXAMPLE:
DM20018G08

Flange - ANSI 600# x NPS Pipe - DM20127

Size NPS	Flange Size	Part Number	Dimensions - Inch (mm)					Bolt Size	*Weight K & G lbs (kg)
			A	B	D	E	F		
1/2" SCH80	1/2"	DM20127*08	3.44 (87.31)	0.84 (21.34)	2.63 (66.68)	3.75 (95.25)	0.75 (19.05)	1/2"-UNC	1.79 (0.81)
3/4" SCH80	3/4"	DM20127*12	3.81 (96.84)	1.05 (26.67)	3.25 (82.55)	4.63 (117.48)	0.88 (22.23)	5/8"-UNC	3.14 (1.42)
1" SCH80	1"	DM20127*16	4.06 (103.19)	1.32 (33.40)	3.50 (88.90)	4.88 (123.825)	0.94 (23.83)	5/8"-UNC	3.97 (1.80)
1-1/4" SCH80	1-1/4"	DM20127*20	4.50 (114.30)	1.66 (42.16)	3.88 (98.55)	5.25 (133.35)	0.75 (19.05)	5/8"-UNC	4.72 (2.14)
1 1/2" SCH80	1 1/2"	DM20127*24	5.31 (134.94)	1.90 (48.26)	4.50 (114.3)	6.125 (155.58)	1.13 (28.58)	3/4"-UNC	8.18 (3.71)
2" SCH80	2"	DM20127*32	6.38 (161.93)	2.38 (60.33)	5.00 (127.00)	6.50 (165.10)	1.25 (31.75)	5/8"-UNC	10.30 (4.67)
3" SCH80	3"	DM20127*48	8.38 (212.73)	3.50 (88.90)	6.63 (168.28)	8.25 (209.55)	1.50 (38.10)	3/4"-UNC	22.14 (10.04)



*MATERIAL CODE:
K = STAINLESS STEEL
G = CARBON STEEL
B = COPPER NICKEL 70/30

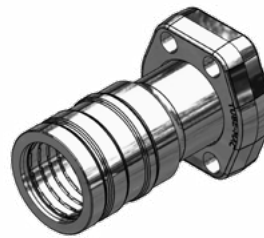
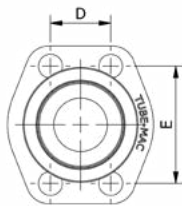
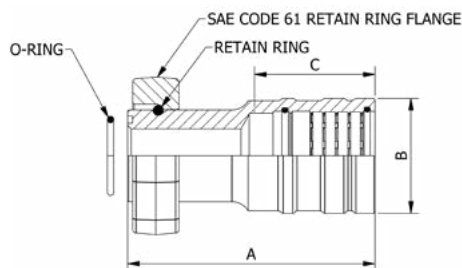
ORDER EXAMPLE:
DM20090G08

SAE Flange Body, NPS - DM20090

Size NPS	Flange Size	Part Number	Dimensions - Inch (mm)			*Weight K & G lbs (kg)
			A	B	C Insertion Depth	
1/2"	1/2"	DM20090*08	3.38 (85.85)	1.20 (30.48)	1.50 (38.10)	0.51 (0.23)
3/4"	3/4"	DM20090*12	3.50 (88.90)	1.48 (37.59)	1.75 (44.45)	0.87 (0.39)
1"	1"	DM20090*16	4.50 (114.30)	1.82 (46.23)	2.00 (50.80)	1.49 (0.68)
1-1/4"	1-1/4"	DM20090*20	4.88 (123.95)	2.26 (57.40)	2.38 (60.45)	2.13 (0.97)
1-1/2"	1-1/2"	DM20090*24	5.00 (127.00)	2.58 (65.53)	2.50 (63.50)	3.00 (1.36)
2"	2"	DM20090*32	6.50 (165.10)	3.04 (77.22)	3.50 (88.90)	4.43 (2.01)
3"	3"	DM20090*48	9.50 (241.30)	4.38 (111.25)	5.00 (127.00)	13.41 (6.08)

**2" DM20 Series Carbon Steel PYPLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.

DM 20 Series - NPS Pipe



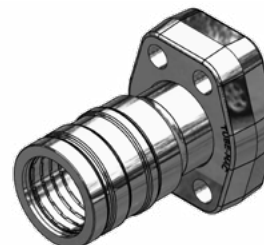
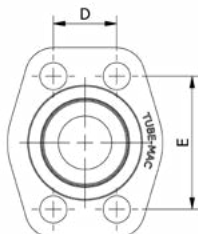
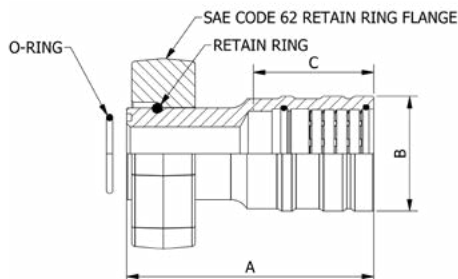
*MATERIAL CODE:
K = STAINLESS STEEL
G = CARBON STEEL
B = COPPER NICKEL 70/30

ORDER EXAMPLE:
DM20091G08

SAE Code 61 Flange, NPS - DM20091

Size NPS	Flange Size	Part Number	Dimensions - Inch (mm)					Bolt Minimum Grade 8	*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	E		
1/2"	1/2"	DM20091*08	3.38 (85.85)	1.20 (30.48)	1.50 (38.10)	0.69 (17.53)	1.50 (38.10)	5/16" UNC	0.97 (0.44)
3/4"	3/4"	DM20091*12	3.50 (88.90)	1.48 (37.59)	1.75 (44.45)	0.88 (22.35)	1.88 (47.75)	3/8" UNC	1.35 (0.61)
1"	1"	DM20091*16	4.50 (114.30)	1.82 (46.23)	2.00 (50.80)	1.03 (26.16)	2.06 (52.32)	3/8" UNC	2.12 (0.96)
1-1/4"	1-1/4"	DM20091*20	4.88 (123.95)	2.26 (57.40)	2.38 (60.45)	1.19 (30.23)	2.31 (58.67)	7/16" UNC	3.03 (1.37)
1-1/2"	1-1/2"	DM20091*24	5.00 (127.00)	2.58 (65.53)	2.50 (63.50)	1.41 (35.81)	2.75 (69.85)	1/2" UNC	4.35 (1.97)
2"	2"	DM20091*32	6.50 (165.10)	3.04 (77.22)	3.50 (88.90)	1.69 (42.93)	3.06 (77.72)	1/2" UNC	6.45 (2.93)
3"	3"	DM20091*48	9.50 (241.30)	4.38 (111.25)	5.00 (127.00)	2.44 (61.98)	4.19 (106.43)	5/8" UNC	17.51 (7.90)

**2" DM20 Series Carbon Steel PYPLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.



*MATERIAL CODE:
K = STAINLESS STEEL
G = CARBON STEEL
B = COPPER NICKEL 70/30

ORDER EXAMPLE:
DM20092G08

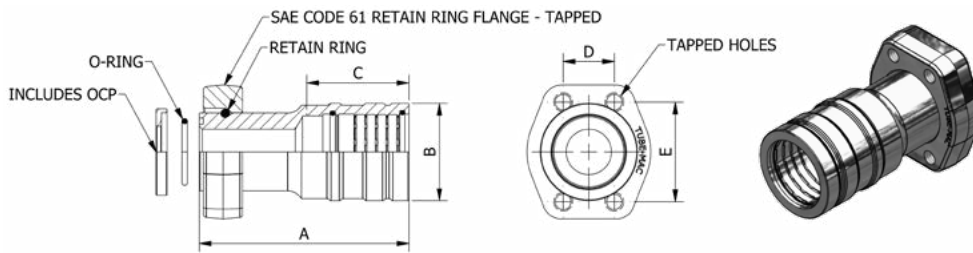
SAE Code 62 Flange, NPS - DM20092

Size NPS	Flange Size	Part Number	Dimensions - Inch (mm)					Bolt Minimum Grade 8	*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	E		
1/2"	1/2"	DM20092*08	3.38 (85.85)	1.20 (30.48)	1.50 (38.10)	0.72 (18.29)	1.59 (40.39)	5/16" UNC	0.97 (0.44)
3/4"	3/4"	DM20092*12	3.50 (88.90)	1.48 (37.59)	1.75 (44.45)	0.94 (23.88)	2.00 (50.80)	3/8" UNC	1.68 (0.76)
1"	1"	DM20092*16	4.50 (114.30)	1.82 (46.23)	2.00 (50.80)	1.09 (27.69)	2.25 (57.15)	7/16" UNC	2.75 (1.25)
1-1/4"	1-1/4"	DM20092*20	4.88 (123.95)	2.26 (57.40)	2.38 (60.45)	1.25 (31.75)	2.63 (66.80)	1/2" UNC	4.08 (1.85)
1-1/2"	1-1/2"	DM20092*24	5.00 (127.00)	2.58 (65.53)	2.50 (63.50)	1.44 (36.58)	3.13 (79.50)	5/8" UNC	5.88 (2.67)
2"	2"	DM20092*32	6.50 (165.10)	3.04 (77.22)	3.50 (88.90)	1.75 (44.45)	3.81 (96.77)	3/4" UNC	9.83 (4.46)
**3"	3"	DM20092*48	9.50 (241.30)	4.38 (111.25)	5.00 (127.00)	2.44 (61.98)	4.19 (106.43)	5/8" UNC	22.51 (10.21)

**3" uses ISO 6164 Flange.

**2" DM20 Series Carbon Steel PYPLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.

DM 20 Series - NPS Pipe



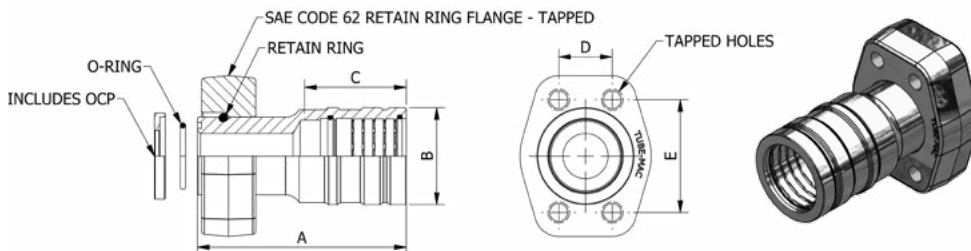
*MATERIAL CODE:
K = STAINLESS STEEL
G = CARBON STEEL
B = COPPER NICKEL 70/30

ORDER EXAMPLE:
DM20095G08

SAE Code 61 Tapped Flange, NPS - DM20095

Size NPS	Flange Size	Part Number	Dimensions - Inch (mm)					Tap UNC-2B	*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	E		
1/2"	1/2"	DM20095*08	3.38 (85.85)	1.20 (30.48)	1.50 (38.10)	0.69 (17.53)	1.50 (38.10)	5/16"-18	1.01 (0.46)
3/4"	3/4"	DM20095*12	3.50 (88.90)	1.48 (37.59)	1.75 (44.45)	0.88 (22.35)	1.88 (47.75)	3/8"-16	1.42 (0.64)
1"	1"	DM20095*16	4.50 (114.30)	1.82 (46.23)	2.00 (50.80)	1.03 (26.16)	2.06 (52.32)	3/8"-16	2.20 (1.00)
1-1/4"	1-1/4"	DM20095*20	4.88 (123.95)	2.26 (57.40)	2.38 (60.45)	1.19 (30.23)	2.31 (58.67)	7/16"-14	3.12 (1.42)
1-1/2"	1-1/2"	DM20095*24	5.00 (127.00)	2.58 (65.53)	2.50 (63.50)	1.41 (35.81)	2.75 (69.85)	1/2"-13	4.52 (2.05)
2"	2"	DM20095*32	6.50 (165.10)	3.04 (77.22)	3.50 (88.90)	1.69 (42.93)	3.06 (77.72)	1/2"-13	6.60 (2.99)
3"	3"	DM20095*48	9.50 (241.30)	4.38 (111.25)	5.00 (127.00)	2.44 (61.98)	4.19 (106.43)	5/8"-11	17.51 (7.90)

**2" DM20 Series Carbon Steel PYPLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.



*MATERIAL CODE:
K = STAINLESS STEEL
G = CARBON STEEL
B = COPPER NICKEL 70/30

ORDER EXAMPLE:
DM20096G08

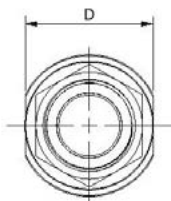
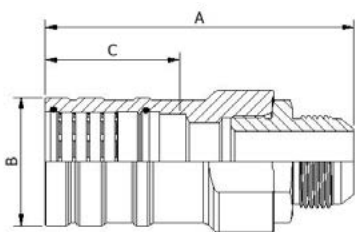
SAE Code 62 Tapped Flange, NPS - DM20096

Size NPS	Flange Size	Part Number	Dimensions - Inch (mm)					Tap UNC-2B	*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	E		
1/2"	1/2"	DM20096*08	3.38 (85.85)	1.20 (30.48)	1.50 (38.10)	0.72 (18.29)	1.59 (40.39)	5/16"-18	1.01 (0.46)
3/4"	3/4"	DM20096*12	3.50 (88.90)	1.48 (37.59)	1.75 (44.45)	0.94 (23.88)	2.00 (50.80)	3/8"-16	1.84 (0.83)
1"	1"	DM20096*16	4.50 (114.30)	1.82 (46.23)	2.00 (50.80)	1.09 (27.69)	2.25 (57.15)	7/16"-14	2.83 (1.28)
1-1/4"	1-1/4"	DM20096*20	4.88 (123.95)	2.26 (57.40)	2.38 (60.45)	1.25 (31.75)	2.63 (66.80)	1/2"-13	4.42 (2.00)
1-1/2"	1-1/2"	DM20096*24	5.00 (127.00)	2.58 (65.53)	2.50 (63.50)	1.44 (36.58)	3.13 (79.50)	5/8"-11	6.47 (2.93)
2"	2"	DM20096*32	6.50 (165.10)	3.04 (77.22)	3.50 (88.90)	1.75 (44.45)	3.81 (96.77)	3/4"-10	10.17 (4.61)
**3"	3"	DM20096*48	9.50 (241.30)	4.38 (111.25)	5.00 (127.00)	2.44 (61.89)	4.19 (106.43)	1"-8	22.51 (10.21)

**3" uses ISO 6164 Flange.

**2" DM20 Series Carbon Steel PYPLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.

DM 20 Series - NPS Pipe



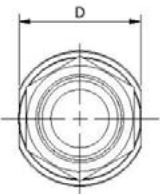
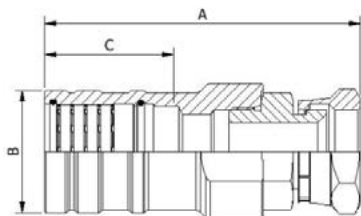
*MATERIAL CODE:
K = STAINLESS STEEL
G = CARBON STEEL
B = COPPER NICKEL 70/30

ORDER EXAMPLE:
DM20055G04

JIC 37° Male, NPS - A-DM20055 (Assembly - Comprises DM20087 & DM60164)

Size NPS	JIC Size	Part Number	Dimensions - Inch (mm)				*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	
1/4"	04	A-DM20055*04	2.77 (70.40)	0.80 (20.32)	1.13 (28.70)	0.75 (19.05)	0.21 (0.09)
3/8"	06	A-DM20055*06	3.17 (80.60)	0.99 (25.15)	1.38 (35.05)	0.88 (22.22)	0.34 (0.15)
1/2"	08	A-DM20055*08	3.54 (89.90)	1.20 (30.48)	1.50 (38.10)	1.13 (28.57)	0.55 (0.25)
3/4"	12	A-DM20055*12	4.46 (113.30)	1.48 (37.59)	1.75 (44.45)	1.50 (38.10)	1.23 (0.56)
1"	16	A-DM20055*16	4.89 (124.20)	1.82 (46.23)	2.00 (50.80)	1.75 (44.45)	1.79 (0.81)
1-1/4"	20	A-DM20055*20	5.43 (138.00)	2.26 (57.40)	2.38 (60.45)	2.25 (57.15)	3.00 (1.36)
1 1/2"	24	A-DM20055*24	5.96 (151.30)	2.58 (65.53)	2.50 (63.50)	2.50 (63.50)	4.04 (1.84)
2"	32	A-DM20055*32	7.77 (197.40)	3.04 (77.22)	3.50 (88.90)	3.25 (82.55)	7.32 (3.32)

**2" DM20 Series Carbon Steel PYPLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.



*MATERIAL CODE:
K = STAINLESS STEEL
G = CARBON STEEL
B = COPPER NICKEL 70/30

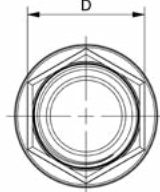
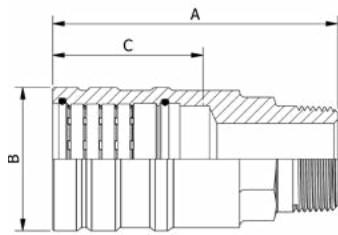
ORDER EXAMPLE:
DM20054G04

JIC 37° Female Swivel, NPS - A-DM20054 (Assembly - Comprises DM20087 & DM60155)

Size NPS	JIC Size	Part Number	Dimensions - Inch (mm)				*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	
1/4"	04	A-DM20054*04	2.91 (73.80)	0.80 (20.32)	1.13 (28.70)	0.75 (19.05)	0.22 (0.10)
3/8"	06	A-DM20054*06	3.38 (85.90)	0.99 (25.15)	1.38 (35.05)	0.88 (22.22)	0.35 (0.16)
1/2"	08	A-DM20054*08	3.81 (96.80)	1.20 (30.48)	1.50 (38.10)	1.13 (28.57)	0.58 (0.26)
3/4"	12	A-DM20054*12	4.76 (121.10)	1.48 (37.59)	1.75 (44.45)	1.50 (38.10)	1.32 (0.60)
1"	16	A-DM20054*16	5.24 (133.10)	1.82 (46.23)	2.00 (50.80)	1.75 (44.45)	1.91 (0.87)
1-1/4"	20	A-DM20054*20	5.82 (147.9)	2.26 (57.40)	2.38 (60.45)	2.25 (57.15)	3.29 (1.49)
1 1/2"	24	A-DM20054*24	6.34 (161.0)	2.58 (65.53)	2.50 (63.50)	2.50 (63.50)	4.30 (1.95)
2"	32	A-DM20054*32	8.08 (205.10)	3.04 (77.22)	3.50 (88.90)	3.25 (82.55)	7.53 (3.42)

**2" DM20 Series Carbon Steel PYPLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.

DM 20 Series - NPS Pipe



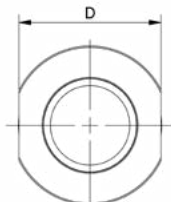
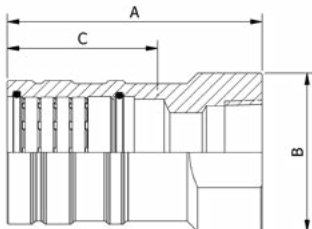
*MATERIAL CODE:
K = STAINLESS STEEL
G = CARBON STEEL
B = COPPER NICKEL 70/30

ORDER EXAMPLE:
DM20056G04

NPT Male, NPS - DM20056

Size NPS	NPT Size	Part Number	Dimensions - Inch (mm)				*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	
1/4"	1/4"	DM20056*04	2.25 (57.15)	0.80 (20.32)	1.13 (28.70)	0.56 (14.22)	0.12 (0.05)
3/8"	3/8"	DM20056*06	2.63 (66.80)	0.99 (25.15)	1.38 (35.05)	0.75 (19.05)	0.21 (0.10)
1/2"	1/2"	DM20056*08	3.25 (82.55)	1.20 (30.48)	1.50 (38.10)	0.88 (22.35)	0.40 (0.18)
3/4"	3/4"	DM20056*12	3.50 (88.90)	1.48 (37.59)	1.75 (44.45)	1.25 (31.75)	0.76 (0.34)
1"	1"	DM20056*16	4.00 (101.6)	1.82 (46.23)	2.00 (50.80)	1.50 (38.10)	1.20 (0.54)
1-1/4"	1-1/4"	DM20056*20	4.50 (63.50)	2.26 (57.40)	2.38 (60.45)	2.39 (60.71)	2.07 (0.94)
1-1/2"	1-1/2"	DM20056*24	4.75 (120.65)	2.58 (65.53)	2.50 (63.50)	2.13 (54.10)	2.50 (1.13)
2"	2"	DM20056*32	6.00 (152.40)	3.04 (77.22)	3.50 (88.90)	2.63 (66.80)	4.41 (2.00)

****2" DM20 Series Carbon Steel PYPLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.**



*MATERIAL CODE:
K = STAINLESS STEEL
G = CARBON STEEL
B = COPPER NICKEL 70/30

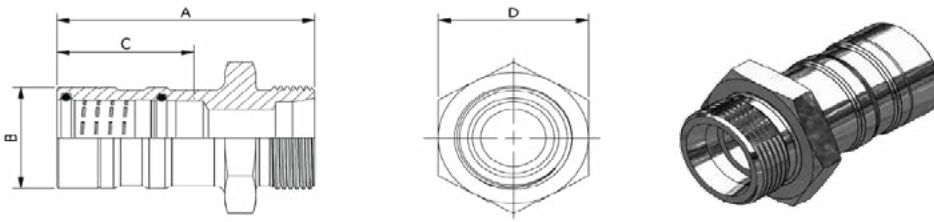
ORDER EXAMPLE:
DM20060G04

NPT Female, NPS - DM20060

Size NPS	NPT Size	Part Number	Dimensions - Inch (mm)				*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	
1/4"	1/4"	DM20060*04	2.00 (50.80)	1.00 (25.40)	1.13 (28.70)	0.88 (22.35)	0.20 (0.09)
3/8"	3/8"	DM20060*06	2.25 (57.15)	1.25 (31.75)	1.38 (35.05)	1.00 (25.40)	0.32 (0.15)
1/2"	1/2"	DM20060*08	2.75 (69.85)	1.38 (35.05)	1.50 (38.10)	1.25 (31.75)	0.48 (0.22)
3/4"	3/4"	DM20060*12	3.25 (82.55)	1.75 (44.45)	1.75 (44.45)	1.50 (38.10)	0.90 (0.41)
1"	1"	DM20060*16	3.63 (92.20)	1.98 (50.29)	2.00 (50.80)	1.88 (47.75)	1.40 (0.63)
1-1/4"	1-1/4"	DM20060*20	4.03 (102.36)	2.50 (63.50)	2.38 (60.45)	2.25 (57.15)	2.20 (1.00)
1-1/2"	1-1/2"	DM20060*24	4.38 (111.25)	3.00 (76.20)	2.50 (63.50)	2.74 (69.60)	3.53 (1.60)
2"	2"	DM20060*32	5.50 (139.70)	3.50 (88.90)	3.50 (88.90)	3.00 (76.20)	4.80 (2.17)

****2" DM20 Series Carbon Steel PYPLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.**

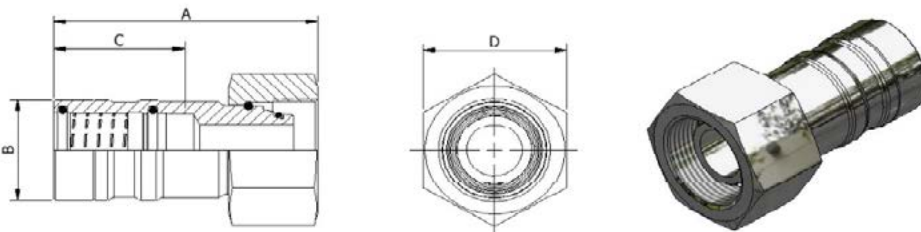
DM 20 Series - NPS Pipe



DIN 24° Male, NPS - DM20066

Size NPS	DIN 2353/ISO 8434-1 L & S Series Thread	Part Number	Dimensions - Inch (mm)				*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	
1/2"	16S - M24 x 1.5	DM20066*0816S	3.00 (76.20)	1.20 (26.16)	1.50 (38.10)	1.18 (30.00)	0.44 (0.20)
1/2"	20S - M30 x 2.0	DM20066*0820S	3.00 (76.20)	1.20 (26.16)	1.50 (38.10)	1.42 (36.00)	0.54 (0.24)
1/2"	22L - M30 x 2.0	DM20066*0822L	3.00 (76.20)	1.20 (26.16)	1.50 (38.10)	1.42 (36.00)	0.49 (0.22)
3/4"	25S - M36 x 2.0	DM20066*1225S	3.25 (82.55)	1.48 (37.47)	1.75 (44.45)	1.81 (46.00)	0.86 (0.39)
3/4"	28L - M36 x 2.0	DM20066*1228L	3.13 (79.38)	1.48 (37.47)	1.75 (44.45)	1.61 (41.00)	0.70 (0.32)
1"	30S - M42 x 2.0	DM20066*1630S	3.50 (88.90)	1.48 (37.47)	2.00 (50.80)	1.97 (50.00)	1.20 (0.54)
1"	35L - M45 x 2.0	DM20066*1635L	3.38 (85.73)	1.82 (46.13)	2.00 (50.80)	1.97 (50.00)	1.10 (0.50)
1 1/4"	42L - M52 x 2.0	DM80066*42L	3.76 (95.50)	2.26 (57.50)	2.38 (60.45)	2.36 (60.00)	1.79 (0.81)
1 1/4"	38S - M52 x 2.0	DM80066*4238S	4.00 (101.60)	2.26 (57.48)	2.38 (60.45)	2.37 (60.00)	2.01 (0.91)
1 1/2"	38S - M52 x 2.0	DM20066*2438S	4.13 (104.78)	2.58 (65.41)	2.50 (63.50)	2.37 (60.00)	2.53 (1.15)

**2" DM20 Series Carbon Steel PYPLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.



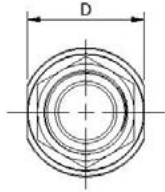
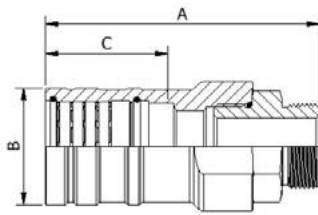
DIN 24° Female Swivel, NPS - DM20068

Size NPS	DIN 2353/ISO 8434-1 L & S Series Thread	Part Number	Dimensions - Inch (mm)				*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	
1/2"	16S - M24 x 1.5	DM20068*0816S	2.92 (74.17)	1.20 (26.16)	1.50 (38.10)	1.18 (30.00)	0.47 (0.21)
1/2"	20S - M30 x 2.0	DM20068*0820S	3.00 (76.20)	1.20 (26.16)	1.50 (38.10)	1.42 (36.00)	0.58 (0.26)
1/2"	22L - M30 x 2.0	DM20068*0822L	3.08 (78.23)	1.20 (26.16)	1.50 (38.10)	1.42 (36.00)	0.60 (0.27)
3/4"	25S - M36 x 2.0	DM20068*1225S	3.24 (82.32)	1.48 (37.47)	1.75 (44.45)	1.81 (46.00)	0.92 (0.42)
3/4"	28L - M36 x 2.0	DM20068*1228L	3.35 (85.00)	1.48 (37.47)	1.75 (44.45)	1.61 (41.00)	0.81 (0.37)
1"	30S - M42 x 2.0	DM20068*1630S	3.81 (96.85)	1.48 (37.47)	2.00 (50.80)	1.97 (50.00)	1.46 (0.66)
1"	35L - M45 x 2.0	DM20068*1635L	3.59 (91.16)	1.82 (46.13)	2.00 (50.80)	1.97 (50.00)	1.28 (0.58)
1 1/4"	42L - M52 x 2.0	DM80068*42L	4.23 (107.47)	2.26 (57.50)	2.38 (60.45)	2.36 (60.00)	2.27 (1.03)
1 1/4"	38S - M52 x 2.0	DM80068*4238S	4.56 (115.72)	2.26 (57.48)	2.38 (60.45)	2.37 (60.00)	2.47 (1.11)
1 1/2"	38S - M52 x 2.0	DM20068*2438S	5.06 (128.42)	2.58 (65.41)	2.50 (63.50)	2.37 (60.00)	3.39 (1.54)

**2" DM20 Series Carbon Steel PYPLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.

3D STEP MODELS AVAILABLE UPON REQUEST

DM 20 Series - NPS Pipe



*MATERIAL CODE:

K = STAINLESS STEEL

G = CARBON STEEL

B = COPPER NICKEL 70/30

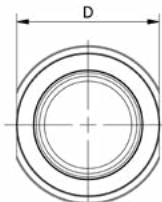
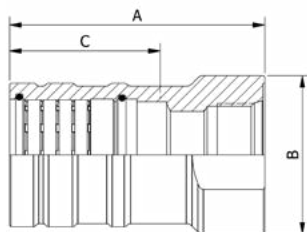
ORDER EXAMPLE:

DM20088G04

SAE Male, NPS - A-DM20088 (Assembly - Comprises DM20087 & DM60157)

Size NPS	SAE Size	Part Number	Dimensions - Inch (mm)				*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	
1/4"	04	A-DM20088*04	2.65 (67.40)	0.80 (20.32)	1.13 (28.70)	0.75 (19.05)	0.21 (0.09)
3/8"	06	A-DM20088*06	3.13 (79.40)	0.99 (25.15)	1.38 (35.05)	0.88 (22.22)	0.34 (0.15)
1/2"	08	A-DM20088*08	3.49 (88.50)	1.20 (30.48)	1.50 (38.10)	1.13 (28.57)	0.56 (0.25)
3/4"	12	A-DM20088*12	4.42 (112.20)	1.48 (37.59)	1.75 (44.45)	1.50 (38.10)	1.26 (0.57)
1"	16	A-DM20088*16	4.80 (122.00)	1.82 (46.23)	2.00 (50.80)	1.75 (44.45)	1.82 (0.83)
1-1/4"	20	A-DM20088*20	5.30 (134.70)	2.26 (57.50)	2.38 (60.45)	2.25 (57.15)	3.07 (1.39)
1 1/2"	24	A-DM20088*24	5.70 (144.80)	2.58 (65.53)	2.50 (63.50)	2.50 (63.50)	4.04 (1.83)

**2" DM20 Series Carbon Steel PYPLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.



*MATERIAL CODE:

K = STAINLESS STEEL

G = CARBON STEEL

B = COPPER NICKEL 70/30

ORDER EXAMPLE:

DM20087G04

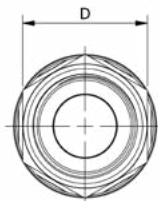
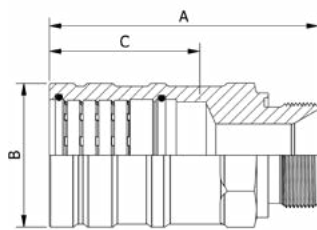
SAE Female, NPS - DM20087

Size NPS	SAE Size	Part Number	Dimensions - Inch (mm)				*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	
1/4"	04	DM20087*04	2.00 (50.80)	0.88 (22.35)	1.13 (28.70)	0.75 (19.05)	0.16 (0.07)
3/8"	06	DM20087*06	2.38 (60.45)	1.00 (25.40)	1.38 (35.05)	0.88 (22.35)	0.26 (0.12)
1/2"	08	DM20087*08	2.63 (66.80)	1.25 (31.75)	1.50 (38.10)	1.13 (28.70)	0.42 (0.19)
3/4"	12	DM20087*12	3.25 (82.55)	1.75 (44.45)	1.75 (44.45)	1.50 (38.10)	0.90 (0.41)
1"	16	DM20087*16	3.60 (91.44)	1.98 (50.29)	2.00 (50.80)	1.75 (44.45)	1.27 (0.58)
1-1/4"	20	DM20087*20	4.03 (102.36)	2.50 (63.50)	2.38 (60.45)	2.25 (57.15)	1.96 (0.89)
1-1/2"	24	DM20087*24	4.35 (110.49)	2.75 (69.85)	2.50 (63.50)	2.50 (63.50)	2.80 (1.27)
2"	32	DM20087*32	5.75 (146.05)	3.50 (88.90)	3.50 (88.90)	3.25 (82.55)	5.09 (2.31)

**2" DM20 Series Carbon Steel PYPLOK cannot be used on E335N/ST52.4 Pipe or Tube and as replacement 60MM DM80 Series can be used.

3D STEP MODELS AVAILABLE UPON REQUEST

DM 20 Series - NPS Pipe



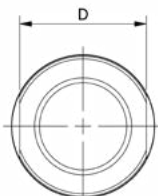
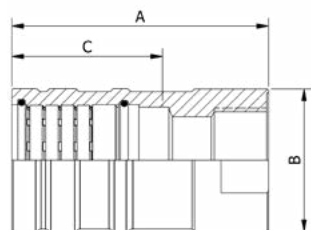
*MATERIAL CODE:
K = STAINLESS STEEL
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B = COPPER NICKEL 70/30

ORDER EXAMPLE:
DM20153G04

BSPP Male, NPS - DM20153

Size NPS	BSPP Size	Part Number	Dimensions - Inch (mm)				*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	
1/4"	1/4"	DM20153*04	2.13 (54.10)	0.80 (20.32)	1.13 (28.70)	0.75 (19.05)	0.14 (0.06)
3/8"	3/8"	DM20153*06	2.38 (60.45)	0.99 (25.15)	1.38 (35.05)	0.87 (22.10)	0.22 (0.10)
1/2"	1/2"	DM20153*08	3.00 (76.20)	1.20 (30.48)	1.50 (38.10)	1.18 (29.97)	0.46 (0.21)
3/4"	3/4"	DM20153*12	3.38 (85.85)	1.48 (37.59)	1.75 (44.45)	1.42 (36.07)	0.71 (0.32)
1"	1"	DM20153*16	3.63 (92.20)	1.82 (46.23)	2.00 (50.80)	1.81 (45.97)	1.14 (0.52)
1-1/4"	1-1/4"	DM20153*20	4.25 (107.95)	2.26 (57.40)	2.38 (60.45)	1.97 (50.04)	1.95 (0.88)
1-1/2"	1-1/2"	DM20153*24	4.63 (117.60)	2.58 (65.53)	2.50 (63.50)	2.17 (55.12)	2.67 (1.21)
2"	2"	DM20153*32	5.38 (136.65)	3.04 (77.22)	3.50 (88.90)	2.95 (74.93)	3.49 (1.58)

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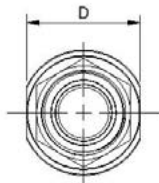
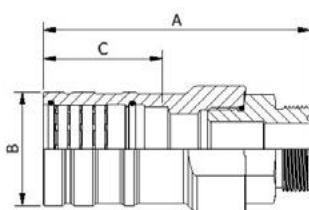
ORDER EXAMPLE:
DM20086G04

BSPP Female, NPS - DM20086

Size NPS	BSPP Size	Part Number	Dimensions - Inch (mm)				*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	
1/4"	1/4"	DM20086*04	2.00 (50.80)	0.88 (22.35)	1.13 (28.70)	0.75 (19.05)	0.15 (0.07)
3/8"	3/8"	DM20086*06	2.38 (60.45)	1.06 (26.92)	1.38 (35.05)	0.94 (23.88)	0.25 (0.11)
1/2"	1/2"	DM20086*08	2.63 (66.80)	1.25 (31.75)	1.50 (38.10)	1.06 (26.92)	0.40 (0.18)
3/4"	3/4"	DM20086*12	3.25 (82.55)	1.75 (44.45)	1.75 (44.45)	1.50 (38.10)	0.91 (0.41)
1"	1"	DM20086*16	3.50 (88.90)	2.00 (50.80)	2.00 (50.80)	1.75 (44.45)	1.28 (0.58)
1-1/4"	1-1/4"	DM20086*20	4.05 (102.87)	2.25 (57.15)	2.38 (60.45)	2.00 (50.80)	1.91 (0.87)
1-1/2"	1-1/2"	DM20086*24	4.38 (111.25)	2.75 (69.85)	2.50 (63.50)	2.50 (63.50)	2.88 (1.31)
2"	2"	DM20086*32	5.75 (146.05)	3.50 (88.90)	3.50 (88.90)	3.00 (76.20)	5.14 (2.33)

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DM 20 Series - NPS Pipe



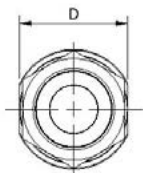
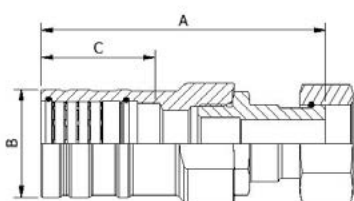
*MATERIAL CODE:
K = STAINLESS STEEL
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ORDER EXAMPLE:
DM20010G04

ORFS Male, NPS - A-DM20010 (Assembly - Comprises DM20087 & DM60166)

Size NPS	ORFS Size	Part Number	Dimensions - Inch (mm)				*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	
1/4"	04	A-DM20010*04	2.67 (67.70)	0.80 (20.32)	1.13 (28.70)	0.75 (19.05)	0.22 (0.10)
3/8"	06	A-DM20010*06	3.13 (79.60)	0.99 (25.15)	1.38 (35.05)	0.88 (22.22)	0.37 (0.17)
1/2"	08	A-DM20010*08	3.46 (87.90)	1.20 (30.48)	1.50 (38.10)	1.13 (28.57)	0.57 (0.25)
3/4"	12	A-DM20010*12	4.42 (112.30)	1.48 (37.59)	1.75 (44.45)	1.50 (38.10)	1.31 (0.59)
1"	16	A-DM20010*16	4.82 (122.30)	1.82 (46.23)	2.00 (50.80)	1.75 (44.45)	1.90 (0.86)
1-1/4"	20	A-DM20010*20	5.32 (135.00)	2.26 (57.40)	2.38 (60.45)	2.25 (57.15)	3.15 (1.43)
1 1/2"	24	A-DM20010*24	5.72 (145.30)	2.58 (65.53)	2.50 (63.50)	2.50 (63.50)	4.17 (1.89)

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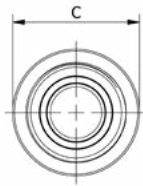
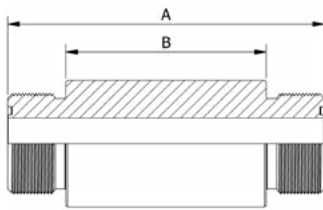
ORDER EXAMPLE:
DM20020G04

ORFS Female Swivel, NPS - A-DM20020 (Assembly - Comprises DM20087 & DM60156)

Size NPS	ORFS Size	Part Number	Dimensions - Inch (mm)				*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	
1/4"	04	A-DM20020*04	3.00 (76.10)	0.80 (20.32)	1.13 (28.70)	0.75 (19.05)	0.43 (0.19)
3/8"	06	A-DM20020*06	3.44 (87.40)	0.99 (25.15)	1.38 (35.05)	0.88 (22.22)	0.37 (0.17)
1/2"	08	A-DM20020*08	4.00 (101.40)	1.20 (30.48)	1.50 (38.10)	1.13 (28.57)	0.64 (0.29)
3/4"	12	A-DM20020*12	4.84 (123.00)	1.48 (37.59)	1.75 (44.45)	1.50 (38.10)	1.73 (0.78)
1"	16	A-DM20020*16	5.51 (139.80)	1.82 (46.23)	2.00 (50.80)	1.75 (44.45)	2.36 (1.07)
1-1/4"	20	A-DM20020*20	5.93 (150.50)	2.26 (57.40)	2.38 (60.45)	2.25 (57.15)	3.79 (1.72)
1 1/2"	24	A-DM20020*24	6.25 (158.80)	2.58 (65.53)	2.50 (63.50)	2.50 (63.50)	4.91 (2.23)

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DM 20 Series - NPS Pipe



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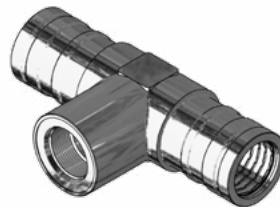
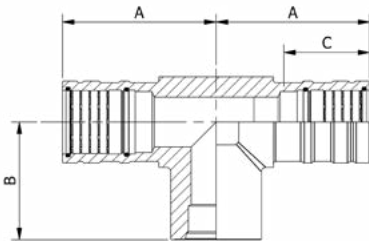
ORDER EXAMPLE:

DM60089G08

Weldable Bulkhead, OD Tube - DM60089

Size NPS	ORFS Size	Part Number	Dimensions - Inch (mm)			Thread Details	*Weight K & G lbs (kg)
			A	B	C		
1/2"	08	DM60089*08	3.00 (76.20)	1.99 (50.55)	1.00 (25.40)	13/16"-16UNF-2A	0.49 (0.22)
3/4"	12	DM60089*12	3.75 (95.25)	2.37 (60.20)	1.50 (38.10)	1-3/16"-12UNF-2A	1.31 (0.59)
1"	16	DM60089*16	3.75 (95.25)	2.37 (60.20)	1.75 (44.45)	1-7/16"-12UNF-2A	1.70 (0.77)
1-1/4"	20	DM60089*20	4.00 (101.60)	2.62 (66.55)	2.00 (50.80)	1-11/16"-12UNF-2A	2.28 (1.03)
1-1/2"	24	DM60089*24	4.25 (107.95)	2.87 (72.90)	2.38 (60.45)	2"-12UNF-2A	2.89 (1.31)

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ORDER EXAMPLE:

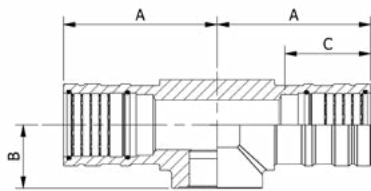
DM20171G04

SAE Female Branch Tee, NPS - DM20171

Size NPS	SAE Size	Part Number	Dimensions - Inch (mm)				*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	
1/4"	04	DM20171*04	1.75 (44.45)	1.38 (35.05)	1.13 (28.70)	0.86 (21.84)	0.41 (0.19)
3/8"	06	DM20171*06	2.00 (50.80)	1.63 (41.40)	1.38 (35.05)	1.06 (26.92)	0.71 (0.32)
1/2"	08	DM20171*08	2.68 (68.07)	2.25 (57.15)	1.50 (38.10)	1.30 (33.02)	1.44 (0.65)
3/4"	12	DM20171*12	3.03 (76.96)	2.50 (63.50)	1.75 (44.45)	1.58 (40.13)	2.26 (1.03)
1"	16	DM20171*16	3.37 (85.60)	2.88 (73.15)	2.00 (50.80)	1.97 (50.04)	3.83 (1.74)
1-1/4"	20	DM20171*20	4.25 (107.95)	3.25 (82.55)	2.38 (60.45)	2.50 (63.50)	7.40 (3.36)
1-1/2"	24	DM20171*24	4.54 (115.32)	3.50 (88.90)	2.50 (63.50)	2.81 (71.37)	10.06 (4.56)
2"	32	DM20171*32	5.45 (138.43)	4.00 (101.60)	3.50 (88.90)	3.25 (82.55)	14.11 (6.40)

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DM 20 Series - NPS Pipe



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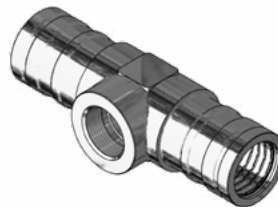
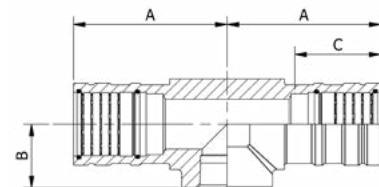
ORDER EXAMPLE:

DM20172G04

BSPP Female Branch Tee, NPS - DM20172

Size NPS	BSPP Size	Part Number	Dimensions - Inch (mm)				*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	
1/4"	1/4"	DM20172*04	1.75 (44.45)	1.00 (25.40)	1.13 (28.70)	0.86 (21.84)	0.33 (0.15)
3/8"	3/8"	DM20172*06	2.00 (50.80)	1.00 (25.40)	1.38 (35.05)	1.06 (26.92)	0.54 (0.24)
1/2"	1/2"	DM20172*08	2.68 (68.07)	1.25 (31.75)	1.50 (38.10)	1.30 (33.02)	1.06 (0.48)
3/4"	3/4"	DM20172*12	3.03 (76.96)	1.25 (31.75)	1.75 (44.45)	1.58 (40.13)	1.60 (0.73)
1"	1"	DM20172*16	3.37 (85.60)	1.50 (38.10)	2.00 (50.80)	1.97 (50.04)	2.80 (1.27)
1-1/4"	1-1/4"	DM20172*20	4.25 (107.95)	1.75 (44.45)	2.38 (60.45)	2.50 (63.50)	5.89 (2.67)
1-1/2"	1-1/2"	DM20172*24	4.54 (115.32)	2.00 (50.80)	2.50 (63.50)	2.69 (68.33)	7.11 (3.23)
2"	2"	DM20172*32	5.45 (138.43)	2.38 (60.45)	3.50 (88.90)	3.25 (82.55)	10.48 (4.75)

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ORDER EXAMPLE:

DM20173G04

NPT Female Branch Tee, NPS - DM20173

Size NPS	NPT Size	Part Number	Dimensions - Inch (mm)				*Weight K & G lbs (kg)
			A	B	C Insertion Depth	D	
1/4"	1/4"	DM20173*04	1.75 (44.45)	0.75 (19.05)	1.13 (28.70)	0.86 (21.84)	0.31 (0.14)
3/8"	3/8"	DM20173*06	2.00 (50.80)	1.00 (25.40)	1.38 (35.05)	1.06 (26.92)	0.56 (0.25)
1/2"	1/2"	DM20173*08	2.68 (68.07)	1.13 (28.70)	1.50 (38.10)	1.30 (33.02)	1.10 (0.50)
3/4"	3/4"	DM20173*12	3.03 (76.96)	1.25 (31.75)	1.75 (44.45)	1.58 (40.13)	1.70 (0.77)
1"	1"	DM20173*16	3.37 (85.60)	1.38 (35.05)	2.00 (50.80)	1.97 (50.04)	2.80 (1.27)
1-1/4"	1-1/4"	DM20173*20	4.25 (107.95)	1.75 (44.45)	2.38 (60.45)	2.50 (63.50)	5.70 (2.59)
1-1/2"	1-1/2"	DM20173*24	4.54 (115.32)	2.00 (50.80)	2.50 (63.50)	2.81 (71.37)	7.85 (3.56)
2"	2"	DM20173*32	5.45 (138.43)	2.00 (50.80)	3.50 (88.90)	3.25 (82.55)	13.60 (6.17)

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3D STEP MODELS AVAILABLE UPON REQUEST

PYPLOK.com

Introduction

Technical
Information

DM 20 -
NPS Pipe

DM 60 -
OD Tube

DM 80 -
Metric Tube

DM Series
Tube Adapter

DM80 -
Metric JIS Tube

DP 40N - NPS
Low Pressure

DP 40M - Metric
Low Pressure

PYPLOK®
Tooling

Installation
Procedures

Appendix

C21

DM 20 Series - NPS Pipe

Specialty Fitting Configuration Guide

1/4" to 3"

					
JIC 37° 90° Elbow Male A/DM20355	JIC 37° Branch Tee Male A/DM20177	JIC 37° 90° Elbow Female Swivel A/DM20354	JIC 37° Branch Tee Female Swivel A/DM20170	NPT 90° Elbow Male A/DM20057	NPT Branch Tee Male DM20176
					
NPT 90° Elbow Female DM20061	ORFS 90° Elbow Male A/DM20011	ORFS Branch Tee Male A/DM20013	ORFS 90° Elbow Female Swivel A/DM20021	ORFS Branch Tee Female Swivel A/DM20023	SAE 90° Elbow Male A/DM20105
					
SAE Branch Tee Male A/DM20174	SAE 90° Elbow Female DM20387	BSPP 90° Elbow Male A/DM20168	BSPP Branch Tee Male A/DM20175	BSPP 90° Elbow Female DM20169	BSPP Cross Fitting with 2 Ports DM20221
					
BSPP Cross Fitting with 4 Ports DM20241	Flange - ANSI #900 DM20025	Flange - ANSI #1500 DM20026	90° PYPLOK® x SAE Code 61 Flange DM20391	90° PYPLOK® x SAE Code 62 Flange DM20392	NPS to OD Tube Reducer DM20501
					
NPS to Metric Tube Reducer DM20801	CPV Female DM20040	CPV Male Union DM20041			

Notes

[illegible]