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# Fittings Guide

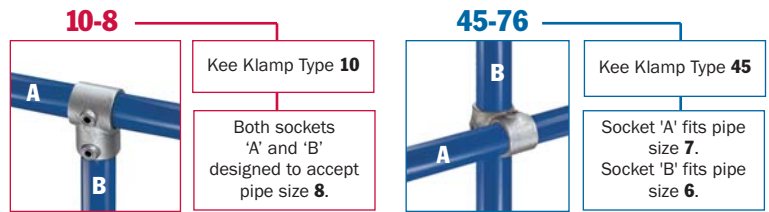


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# Specifying Kee Klamp® Fittings

Each fitting has a numerical code reference which defines the type of fitting and the pipe size, or sizes, it is designed to receive. The first number, preceding the dash (-) identifies the type of Kee Klamp fitting. A single digit, following the dash, defines the pipe size. Two single digits after the dash indicate that the fitting is designed to receive two sizes of pipe. The Kee Klamp pipe size chart is shown on the back page.



<p><b>A10</b></p> <p>TYPE A10-7 A10-8</p> <p>SPLIT TEE</p>	<p><b>A12</b></p> <p>TYPE A12-8</p> <p>45° SPLIT TEE</p>	<p><b>A21</b></p> <p>TYPE A21-8</p> <p>SPLIT CORNER CROSS</p>	<p><b>A26</b></p> <p>TYPE A26-8</p> <p>SPLIT CROSS</p>	<p><b>A35</b></p> <p>TYPE A35-8</p> <p>SPLIT TEE CROSSOVER</p>
<p><b>A40</b></p> <p>TYPE A40-8</p> <p>SPLIT 4 SOCKET CROSS</p>	<p><b>A45</b></p> <p>TYPE A45-7 A45-8</p> <p>SPLIT CROSSOVER</p>	<p><b>10</b></p> <p>TYPE 10-2 10-7 10-3 10-76 10-4 10-78 10-5 10-8 10-6 10-87 10-65 10-9 10-67 10-98</p> <p>SINGLE SOCKET TEE</p>	<p><b>12</b></p> <p>TYPE 12-5 12-7 12-6 12-8</p> <p>45° SINGLE SOCKET TEE</p>	<p><b>14</b></p> <p>TYPE 14-4 14-7 14-5 14-8 14-6 14-9</p> <p>STRAIGHT COUPLING</p>
<p><b>15</b></p> <p>TYPE 15-4 15-7 15-5 15-8 15-6 15-9</p> <p>90° ELBOW</p>	<p><b>16</b></p> <p>TYPE 16-7 16-5 16-8 16-6 16-9</p> <p>CLAMP-ON TEE</p>	<p><b>17</b></p> <p>TYPE 17-5 17-8 17-6 17-9 17-7</p> <p>CLAMP-ON CROSS OVER</p>	<p><b>18</b></p> <p>TYPE 18-6 18-7 18-8</p> <p>INTERNAL COUPLING</p>	<p><b>19*</b></p> <p>TYPE 19-5 19-8 19-6 19-85 19-7 19-9</p> <p>ADJUSTABLE SIDE OUTLET TEE</p>
<p><b>20</b></p> <p>TYPE 20-4 20-7 20-5 20-8 20-6 20-9</p> <p>SIDE OUTLET ELBOW</p>	<p><b>21</b></p> <p>TYPE 21-4 21-7 21-5 21-8 21-6 21-9</p> <p>90° SIDE OUTLET TEE</p>	<p><b>25</b></p> <p>TYPE 25-4 25-7 25-5 25-8 25-6 25-9</p> <p>THREE SOCKET TEE</p>	<p><b>26</b></p> <p>TYPE 26-7 26-4 26-8 26-5 26-87 26-6 26-9</p> <p>TWO SOCKET CROSS</p>	<p><b>27</b></p> <p>TYPE 27-6 27-8 27-7</p> <p>0° - 45° THREE SOCKET CUSTOM TEE</p>
<p><b>28</b></p> <p>TYPE 28-6 28-8 28-7</p> <p>0° - 45° THREE SOCKET CUSTOM CROSS</p>	<p><b>29</b></p> <p>TYPE 29-6 29-7 29-8</p> <p>30° - 60° SINGLE SOCKET TEE</p>	<p><b>30</b></p> <p>TYPE 30-6 30-7 30-8</p> <p>30° - 45° ADJUSTABLE CROSS</p>	<p><b>31</b></p> <p>TYPE 31-8</p> <p>PALLET FLANGE</p>	<p><b>35</b></p> <p>TYPE 35-4 35-7 35-5 35-8 35-6 35-9</p> <p>SIDE OUTLET TEE</p>
<p><b>40</b></p> <p>TYPE 40-4 40-7 40-5 40-8 40-6 40-9</p> <p>FOUR SOCKET CROSS</p>	<p><b>45</b></p> <p>TYPE 45-7 45-2 45-76 45-3 45-8 45-4 45-86 45-5 45-87 45-6 45-9 45-65 45-98</p> <p>CROSSOVER</p>	<p><b>46</b></p> <p>TYPE 46-4 46-7 46-5 46-8 46-6 46-9</p> <p>COMBINATION SOCKET TEE &amp; CROSSOVER</p>	<p><b>C50</b></p> <p>TYPE C50-44 C50-77 C50-55 C50-88 C50-66 C50-99</p> <p>SINGLE SWIVEL SOCKET</p>	<p><b>F50</b></p> <p>TYPE F50-4 F50-7 F50-5 F50-8 F50-6 F50-9</p> <p>FEMALE SINGLE SOCKET MEMBER</p>
<p><b>M50</b></p> <p>TYPE M50-4 M50-7 M50-5 M50-8 M50-6 M50-9</p> <p>MALE SINGLE SOCKET MEMBER</p>	<p><b>MH50</b></p> <p>TYPE MH50-6</p> <p>MALE SINGLE HORIZONTAL SOCKET</p>	<p><b>P50</b></p> <p>TYPE P50-8</p> <p>OFFSET SINGLE TAB PANEL FITTING WITH SLOT</p>	<p><b>C51</b></p> <p>TYPE C51-777 C51-555 C51-888 C51-666 C51-999</p> <p>DOUBLE SWIVEL SOCKET</p>	<p><b>M51</b></p> <p>TYPE M51-7 M51-5 M51-8 M51-6 M51-9</p> <p>MALE DOUBLE SWIVEL SOCKET MEMBER</p>
<p><b>MH51</b></p> <p>TYPE MH51-6</p> <p>MALE DOUBLE HORIZONTAL SOCKET</p>	<p><b>P51</b></p> <p>TYPE P51-8</p> <p>OFFSET DOUBLE TAB PANEL FITTING WITH SLOT</p>	<p><b>C52</b></p> <p>TYPE C52-555 C52-777 C52-666 C52-888</p> <p>CORNER SWIVEL SOCKET</p>	<p><b>M52</b></p> <p>TYPE M52-5 M52-7 M52-6 M52-8</p> <p>MALE CORNER SWIVEL SOCKET MEMBER</p>	<p><b>BC53</b></p> <p>TYPE BC53-8</p> <p>SWIVEL ELBOW</p>

<p><b>55</b></p>  <p>TYPE 55-6 55-7 55-8</p> <p><b>OBTUSE ANGLE ELBOW</b></p>	<p><b>56</b></p>  <p>TYPE 56-8</p> <p><b>ACUTE ANGLE ELBOW</b></p>	<p><b>P57</b></p>  <p>TYPE P57-7 P57-8</p> <p><b>DECK BRACKET</b></p>	<p><b>C58</b></p>  <p>TYPE C58-5 C58-8 C58-6 C58-9 C58-7</p> <p><b>SWIVEL FLANGE</b></p>	<p><b>M58</b></p>  <p>TYPE M58</p> <p><b>BASE PLATE</b></p>
<p><b>59</b></p>  <p>TYPE 59-5 59-8 59-6 59-9 59-7</p> <p><b>SPIGOT FLANGE</b></p>	<p><b>60</b></p>  <p>TYPE 60-5 60-7 60-6 60-8</p> <p><b>EXTRA HEAVY FLANGE</b></p>	<p><b>61</b></p>  <p>TYPE 61-3 61-7 61-4 61-8 61-5 61-9 61-6</p> <p><b>FLANGE</b></p>	<p><b>62</b></p>  <p>TYPE 62-2 62-7 62-5 62-8 62-6 62-9</p> <p><b>STANDARD RAILING FLANGE</b></p>	<p><b>63</b></p>  <p>TYPE 63-6 63-7 63-8</p> <p><b>ANGLE BASE FLANGE</b></p>
<p><b>64</b></p>  <p>TYPE 64-7 64-6 64-8</p> <p><b>STANDARD VERTICAL RAILING BASE</b></p>	<p><b>65</b></p>  <p>TYPE 65-6</p> <p><b>STANDARD HORIZONTAL RAILING BASE</b></p>	<p><b>66</b></p>  <p>TYPE 66-6 66-7 66-8</p> <p><b>GROUND SOCKET</b></p>	<p><b>67</b></p>  <p>TYPE 67-8</p> <p><b>ANGLE FLANGE</b></p>	<p><b>68</b></p>  <p>TYPE 68-6 68-7 68-8</p> <p><b>WALL FLANGE</b></p>
<p><b>69</b></p>  <p>TYPE 69-7 69-8</p> <p><b>BASE FLANGE &amp; KICK PLATE</b></p>	<p><b>70</b></p>  <p>TYPE 70-5 70-7 70-6 70-8</p> <p><b>RAIL SUPPORT</b></p>	<p><b>71</b></p>  <p>TYPE 71-6 71-7 71-8</p> <p><b>WEATHER CAP</b></p>	<p><b>72</b></p>  <p>TYPE 72-8</p> <p><b>STAIR TREAD SUPPORT</b></p>	<p><b>75</b></p>  <p>TYPE 75-4 75-7 75-5 75-8 75-6</p> <p><b>COLLAR</b></p>
<p><b>76</b></p>  <p>TYPE 76-5 76-7 76-6 76-8</p> <p><b>HOOK</b></p>	<p><b>77</b></p>  <p>TYPE 77-4 77-7 77-5 77-8 77-6 77-9</p> <p><b>PLASTIC PLUG</b></p>	<p><b>78</b></p>  <p>TYPE 78-5 78-7 78-6 78-8</p> <p><b>EYE FITTING</b></p>	<p><b>79</b></p>  <p>TYPE 79-7</p> <p><b>SHEETING CLIP</b></p>	<p><b>81</b></p>  <p>TYPE 81-7 81-5 81-8 81-6 81-9</p> <p><b>SINGLE SIDED CLIP</b></p>
<p><b>82</b></p>  <p>TYPE 82-7 82-5 82-8 82-6 82-9</p> <p><b>DOUBLE SIDED CLIP</b></p>	<p><b>83</b></p>  <p>TYPE 83-5 83-7 83-6 83-8</p> <p><b>PIN FITTING</b></p>	<p><b>84</b></p>  <p>TYPE 84-7 84-5 84-8 84-6 84-9</p> <p><b>MALLEABLE PLUG</b></p>	<p><b>86</b></p>  <p>TYPE 86-8 +/- 11°</p> <p><b>ANGLE TEE</b></p>	<p><b>87</b></p>  <p>TYPE 87-8 +/- 11°</p> <p><b>ANGLE ELBOW</b></p>
<p><b>88</b></p>  <p>TYPE 88-8 +/- 11°</p> <p><b>THREE SOCKET ANGLE TEE</b></p>	<p><b>89</b></p>  <p>TYPE 89-8 +/- 11°</p> <p><b>TWO SOCKET ANGLE CROSS</b></p>	<p><b>90</b></p>  <p>TYPE 90-8 +/- 7°</p> <p><b>PGR THREE SOCKET TEE</b></p>	<p><b>91</b></p>  <p>TYPE 91-8 +/- 7°</p> <p><b>PGR TWO SOCKET CROSS</b></p>	<p><b>92</b></p>  <p>TYPE 92-8 +/- 7°</p> <p><b>PGR ELBOW</b></p>
<p><b>93</b></p>  <p>TYPE 93-8 +/- 7°</p> <p><b>PGR TEE</b></p>	<p><b>95</b></p>  <p>TYPE 95-8</p> <p><b>PGR INTERNAL SPIGOT</b></p>	<p><b>97</b></p>  <p>TYPE 97-2 97-6 97-3 97-7 97-4 97-8 97-5 97-9</p> <p><b>SET SCREWS</b></p>	<p><b>99</b></p>  <p>TYPE 99-2 99-6 99-3 99-7 99-4 99-8 99-5 99-9</p> <p><b>HEX WRENCH</b></p>	<p><b>100</b></p>  <p>TYPE 100-5 100-8 100-6 100-9 100-7</p> <p><b>PLASTIC SET SCREW CAPS</b></p>
<p><b>105</b></p>  <p>TYPE 105-6 105-8 105-7 105-9</p> <p><b>PROFILED OR FLAT SHEETING CLIP</b></p>	<p><b>114</b></p>  <p>TYPE 114-2 114-7 114-6 114-8</p> <p><b>SWIVEL TEE</b></p>	<p><b>115</b></p>  <p>TYPE 115-6 115-8 115-7</p> <p><b>HORIZONTAL RAILING BASE</b></p>	<p><b>121</b></p>  <p>TYPE 121-7</p> <p><b>CORNER CROSSOVER</b></p>	<p><b>145</b></p>  <p>TYPE 145-7</p> <p><b>CROSSOVER COUPLING</b></p>

\* Normally used in pairs and are priced and sold as such

# Keel Klamp® Advantages

- Save up to 50% in labor costs
- No special tools required
- No threading, welding or bolting
- Durable galvanized finish

- Simple to use
- Use ordinary Schedule 40 pipe
- Widest range available
- Available from our national distribution network

## THE KEE KLAMP FITTING

Keel Klamp fittings are iron castings manufactured to the requirements of BS EN 1562 and 1563. A range of fittings to suit eight sizes of pipe is available. A simple hexagon key is the only tool required to create a strong, rigid joint. A recessed set screw, tightened by the hexagon key, firmly locks the pipe into the fitting. The set screw is manufactured in case hardened steel and is Keel Coat™ protected against corrosion.

Keel Klamp Pipe Ref.	Nom. Bore* in	Pipe Dia. O.D. in	Keel Klamp I.D. in	Tube Dia. O.D. in
2	¼	.54	.59	17/32
3	⅜	.68	.73	11/16
4	½	.84	.87	27/32
5	¾	1.05	1.09	1
6	1	1.32	1.38	15/16
7	1¼	1.66	1.72	15/8
8	1½	1.90	1.94	17/8
9	2	2.38	2.41	23/8

\*Nominal bore is an arbitrary dimension, because the bore varies with the wall thickness of the pipe.

## YOUR PIPE NEEDS

Keel Klamp fittings require pipe to complete your project. Keel Industrial Products Sales and Customer Service can help you find the correct pipe or tube size required for your project. We can also supply you with the pipe or



tube or assist you in finding a source close to your location. We can provide the pipe or tubing in either full mill lengths (typically 21 ft long) or cut to your required length. Pipe bundles are also available containing pre-cut lengths suitable for standard railing needs.

## SOLUTIONS PLUS SAVINGS

Keel Klamp fittings allow you to build virtually any tubular structure needed. Because Keel Klamp fittings requires no welding, you save both time and money. Your labor costs can be cut by more than 50%. From industry to retail and beyond, Keel Klamp offers safety railing solutions, can solve warehouse storage problems, and can even be used for building play structures and interior design.



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A Keel Klamp fitting (size 5 to 9) can support an axial load of \*2000 lbs per set screw with the set screw tightened to a torque of 29 lbs/ft. This is normally obtained when the screw is fully tightened using a ratchet wrench.

(\*rating includes a safety factor of 2:1)

## PIPE SIZE RANGE

Keel Klamp fittings are produced in a range of standard sizes to suit Schedule 40 steel pipe sizes ¼ inch through 2 inches, and also equivalent sizes of tubing in other materials.

## FINISHES

Keel Klamp fittings are supplied hot dip galvanized to BS EN ISO 1461. Standard steel pipe is galvanized to the requirements of BS 1387 (ISO 65).

## COLORS

In addition to the standard finish, pipe, fittings and accessories can be supplied with polyester coating in any RAL color.

The polyester coating is highly durable and is usually applied to products that are already galvanized. Should damage occur to the coating, corrosion is still prevented.

## KWIK KIT® SAFETY RAILINGS

Kwik Kit Safety Railings are made with reliable Keel Klamp fittings, with the added visible advantage of Safety Yellow. Strong and safe, Kwik Kit meets or exceeds standards prescribed by OSHA and the Ontario OHS Act. Prepackaged for convenience and rapid installation, the Kwik Kit line includes Corner Kits, Straight Kits, and Extension Kits.

**Kwik Kit Has**  
**Pre-Assembled**  
**Uprights**  
**For FAST**  
**Installation**



For more information about Kwik Kit Safety Railings, go to [www.kwikkitrailings.com](http://www.kwikkitrailings.com)

Your Distributor: