



40 SERIES FINE THREAD METERING VALVES

The Carlisle 40 Series Fine Thread Metering Valves have been carefully designed and precision built to assure maximum efficiency. They are rated for use with all types of combustible gases as well as with air or oxygen. The sturdy construction of the 40 Series valve enables it to be used with high pressure gases. Every Carlisle 40 Series valve is leak-tested under high pressure prior to shipping.

The 40 Series body is manufactured out of a durable brass. Teflon[®] packing is used for maximum corrosion resistance and safety when using oxygen. The stems are stainless steel and have been threaded for fine metering of the gases. The 46A, 47A, and 48A valves in particular have an extra long tapered stem for extremely fine control. The handles are standardly constructed from brass. For the colored handles, an anodized aluminum handle replaces the brass handle. The colored handles are available in both green and red. The handle can also be made in a slotted style so that the adjustments to the valve require a flat head screwdriver.

HOW TO ORDER

MODEL NUMBER

HANDLE STYLE

- 0 = BRASS
- 1 = RED
- 2 = GREEN
- 3 = SLOTTED

16A000-0000

Example: A 42S valve with a red handle would be:

16A005-1000

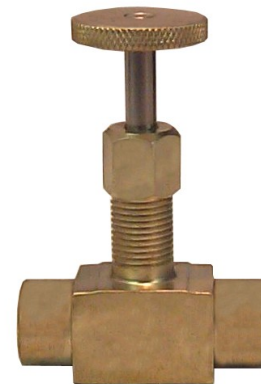
The 40 Series valves can also be assembled with a panel mount nut. This nut is threaded onto the neck and allows the user to mount the valve onto a panel. This can be ordered with an optional extension to the part number as shown above in the "How to Order" section.



44A Valve with Brass Handle
16A010-0000



42A Valve with Brass Handle
16A006-0000



40S Valve with Brass Handle
16A001-0000

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| MODEL NUMBER | VALVE NUMBER | BODY STYLE | INLET | OUTLET | HEIGHT | WIDTH SIZE | STEM THREAD SIZE | ORIFICE SIZE |
|--------------|--------------|------------|------------|------------|---------|------------|------------------|--------------|
| 01 | 40S | STRAIGHT | 1/8" NPTF | 1/8" NPTF | 2 7/8" | 2" | 5/16"-40 | .1935 |
| 02 | 40A | ANGLE | 1/8" NPTF | 1/8" NPTF | 3 1/4" | 1 1/4" | 5/16"-40 | .1935 |
| 03 | 41S | STRAIGHT | 1/4" NPTF | 1/4" NPTF | 2 7/8" | 2" | 5/16"-40 | .1935 |
| 04 | 41A | ANGLE | 1/4" NPTF | 1/4" NPTF | 3 1/4" | 1 1/4" | 5/16"-40 | .1935 |
| 05 | 42S | STRAIGHT | 3/8" NPTF | 3/8" NPTF | 3" | 2 1/4" | 3/8"-32 | .2770 |
| 06 | 42A | ANGLE | 3/8" NPTF | 3/8" NPTF | 3 3/8" | 1 3/4" | 3/8"-32 | .2770 |
| 07 | 43S | STRAIGHT | 1/2" NPTF | 1/2" NPTF | 3 7/8" | 2 1/4" | 7/16"-32 | .3480 |
| 08 | 43A | ANGLE | 1/2" NPTF | 1/2" NPTF | 3 3/8" | 1 3/4" | 7/16"-32 | .3480 |
| 09 | 44S | STRAIGHT | 3/4" NPTF | 3/4" NPTF | 4" | 3 5/8" | 1/2"-27 | .4062 |
| 10 | 44A | ANGLE | 3/4" NPTF | 3/4" NPTF | 5" | 2 1/4" | 1/2"-27 | .4062 |
| 11 | 45S | STRAIGHT | 1" NPTF | 1" NPTF | 5 5/16" | 4 1/8" | 5/8"-24 | .5000 |
| 12 | 45A | ANGLE | 1" NPTF | 1" NPTF | 6" | 2 13/16" | 5/8"-24 | .5000 |
| 13 | 46A | ANGLE | 1/8" NPTM | 1/8" NPTF | 3 1/4" | 1 1/4" | 5/16"-40 | .1570 |
| 14 | 47A | ANGLE | 1/8" NPTF | 1/8" NPTM | 3 1/4" | 1 1/4" | 5/16"-40 | .1570 |
| 15 | 48A | ANGLE | 1/8" NPTF | 1/8" NPTF | 3 1/4" | 1 1/4" | 5/16"-40 | .1570 |
| 50 | 40BU | ANGLE | 1/8" UNION | 1/8" NPTF | 3 3/4" | 1 1/4" | 5/16"-40 | .1570 |
| 51 | 40BU | ANGLE | 1/8" NPTF | 1/8" UNION | 3 1/4" | 1 1/2" | 5/16"-40 | .1935 |

MIDGET SERIES FINE THREAD METERING VALVES

The Carlisle Midget Series Fine Thread Metering Valves have been carefully designed and precision built to assure maximum efficiency. They are rated for use with all types of combustible gases as well as with air or oxygen. The sturdy construction of the Midget Series valve enables it to be used with high pressure gases. Every Carlisle Midget Series valve is leak-tested under high pressure prior to shipping.

The Midget Series body is machined out of brass or stainless steel. Teflon[®] packing is used for maximum corrosion resistance and safety when using oxygen. The stems are stainless steel and may have either a blunt or vee stem style. The blunt style is used for quick opening and larger capacities where as the vee stem is used for finer adjustments. The standard handles are constructed from brass. For the colored handles, anodized aluminum replaces the brass handle. The colored handles are available in both green and red. The handle can also be made in a slotted style so that the adjustments to the valve require a flat head screwdriver.

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HOW TO ORDER

MODEL
NUMBER

HANDLE STYLE

0 = BRASS
1 = RED
2 = GREEN
3 = SLOTTED

1 6 A 0 0 0 - 0 0 0 0

MATERIAL

0 = BRASS
1 = STAINLESS STEEL

Example: A 97B valve in stainless steel with a slotted handle would be:

1 6 A 0 2 3 - 3 1 0 0

The model numbers which are marked with a (†) are not available in the stainless steel variety.

| MODEL NUMBER | VALVE NUMBER | BODY STYLE | INLET | OUTLET | HEIGHT | WIDTH SIZE | STEM STYLE | ORIFICE SIZE |
|--------------|--------------|------------|------------|------------|--------|------------|------------|--------------|
| 16 | 90B | STRAIGHT | 1/8" NPTM | 1/8" NPTM | 2 1/8" | 1 3/4" | BLUNT | .1700 |
| 17 | 91B | STRAIGHT | 1/4" NPTM | 1/4" NPTM | 2 1/8" | 1 3/4" | BLUNT | .1700 |
| 18 | 92B | STRAIGHT | 1/8" NPTF | 1/8" NPTF | 2 1/8" | 1 3/4" | BLUNT | .1700 |
| 19† | 93B | STRAIGHT | 1/4" NPTF | 1/4" NPTF | 2 1/8" | 1 3/4" | BLUNT | .1700 |
| 20 | 94B | STRAIGHT | 1/8" NPTF | 1/8" NPTM | 2 1/8" | 1 3/4" | BLUNT | .1700 |
| 21 | 95B | STRAIGHT | 1/8" NPTM | 1/8" NPTF | 2 1/8" | 1 3/4" | BLUNT | .1700 |
| 22† | 96B | STRAIGHT | 1/4" NPTF | 1/4" NPTM | 2 1/8" | 1 3/4" | BLUNT | .1700 |
| 23† | 97B | STRAIGHT | 1/4" NPTM | 1/4" SWAGE | 2 1/8" | 1 3/4" | BLUNT | .1700 |
| 24† | 98B | STRAIGHT | 1/4" SWAGE | 1/4" SWAGE | 2 1/8" | 1 3/4" | BLUNT | .1700 |
| 25† | 99B | STRAIGHT | 1/4" NPTM | 1/4" FLARE | 2 1/8" | 1 3/4" | BLUNT | .1700 |
| 26† | 100B | STRAIGHT | 1/4" FLARE | 1/4" FLARE | 2 1/8" | 1 3/4" | BLUNT | .1700 |
| 27 | 70B | ANGLE | 1/8" NPTM | 1/8" NPTM | 2 1/2" | 1 1/4" | BLUNT | .1700 |
| 28 | 71B | ANGLE | 1/4" NPTM | 1/4" NPTM | 2 1/2" | 1 1/4" | BLUNT | .1700 |
| 29 | 72B | ANGLE | 1/8" NPTF | 1/8" NPTF | 2 1/2" | 1 1/4" | BLUNT | .1700 |

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| MODEL NUMBER | VALVE NUMBER | BODY STYLE | INLET | OUTLET | HEIGHT | WIDTH SIZE | STEM STYLE | ORIFICE SIZE |
|--------------|--------------|------------|------------|------------|--------|------------|------------|--------------|
| 30† | 73B | ANGLE | 1/4" NPTF | 1/4" NPTF | 2 1/2" | 1 1/4" | BLUNT | .1700 |
| 31 | 74B | ANGLE | 1/8" NPTF | 1/8" NPTM | 2 1/2" | 1 1/4" | BLUNT | .1700 |
| 32* | 75B | ANGLE | 1/4" NPTF | 1/4" NPTM | 2 1/2" | 1 1/4" | BLUNT | .1700 |
| 33† | 76B | ANGLE | 1/4" NPTM | 1/4" SWAGE | 2 1/2" | 1 1/4" | BLUNT | .1700 |
| 34† | 77B | ANGLE | 1/4" SWAGE | 1/4" SWAGE | 2 1/2" | 1 1/4" | BLUNT | .1700 |
| 35† | 78B | ANGLE | 1/4" NPTM | 1/4" FLARE | 2 1/2" | 1 1/4" | BLUNT | .1700 |
| 36† | 79B | ANGLE | 1/4" FLARE | 1/4" FLARE | 2 1/2" | 1 1/4" | BLUNT | .1700 |
| 37 | 60V | ANGLE | 1/8" NPTM | 1/8" NPTM | 2 1/2" | 1 1/4" | VEE | .0590 |
| 38 | 61V | ANGLE | 1/8" NPTF | 1/8" NPTF | 2 1/2" | 1 1/4" | VEE | .0590 |
| 39† | 62V | ANGLE | 1/8" NPTM | 1/8" NPTF | 2 1/2" | 1 1/4" | VEE | .0590 |
| 40 | 80B | STRAIGHT | 1/8" NPTM | 1/8" NPTM | 2 1/8" | 1 3/4" | VEE | .0590 |
| 41 | 81V | STRAIGHT | 1/8" NPTF | 1/8" NPTF | 2 1/8" | 1 3/4" | VEE | .0590 |
| 42 | 82V | STRAIGHT | 1/8" NPTM | 1/8" NPTF | 2 1/8" | 1 3/4" | VEE | .0590 |
| 43† | 50V | STRAIGHT | 1/4" NPTM | 1/4" NPTM | 2 1/2" | 1 7/8" | BLUNT | .2190 |
| 44† | 51V | STRAIGHT | 1/4" NPTF | 1/4" NPTF | 2 1/2" | 1 7/8" | BLUNT | .2190 |
| 45† | 52V | STRAIGHT | 1/4" NPTF | 1/4" NPTM | 2 1/2" | 1 7/8" | BLUNT | .2190 |



60V Brass Valve
with Brass Handle
16A037-3100



74B Brass Valve
With Brass Handle
16A031-2000

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