

**Enthalpy of combustion (calorific value)**

of PMA fittings with metal thread

**Verbrennungsenthalpie (Heizwert)**

von PMA-Verschraubungen mit Metallgewinde

**PMAFIX straight with metal thread**  
*PMAFIX gerade mit Metallgewinde*

| Order No.<br>Bestell-Nr. |         |      | polyamide weight<br>Polyamidgewicht<br>[g/pcs]<br>[g/Stk.] | nom. calorific value<br>nom. Heizwert<br>[MJ/pcs]<br>[MJ/Stk.] |
|--------------------------|---------|------|--|--|
|                          | metr.   | PG   |  |  |
| *VNV-                    | M120-xx | P090 | 6.0  | 0.19   |
| *VNV-                    | M160-xx |      | 6.6  | 0.21   |
| *VNV-                    | M162-xx | P112 | 8.5  | 0.27   |
| *VNV-                    | M202-xx |      | 9.2  | 0.29   |
| *VNV-                    | M207-xx | P167 | 14.8   | 0.46   |
| *VNV-                    | M253-xx | P213 | 21.0   | 0.66   |
| *VNV-                    | M257-xx |      | 16.9   | 0.53   |
| *VNV-                    | M323-xx |      | 21.2   | 0.67   |
| *VNV-                    | M329-xx | P299 | 29.1   | 0.91   |
| *VNV-                    | M406-xx | P366 | 51.1   | 1.60   |
| *VNV-                    | M409-xx |      | 34.6   | 1.09   |
| *VNV-                    | M506-xx |      | 52.4   | 1.65   |
| *VNV-                    | M508-xx | P488 | 67.8   | 2.13   |
| *VNV-                    | M638-xx |      | 63.2   | 1.98   |

**PMAFIX 45° elbow with metal thread**  
*PMAFIX 45° Winkel mit Metallgewinde*

| Order No.<br>Bestell-Nr. |         |      | polyamide weight<br>Polyamidgewicht<br>[g/pcs]<br>[g/Stk.] | nom. calorific value<br>nom. Heizwert<br>[MJ/pcs]<br>[MJ/Stk.] |
|--------------------------|---------|------|--|--|
|                          | metr.   | PG   |  |  |
| *VAV-                    | M120-xx |      | 7.8  | 0.24   |
| *VAV-                    | M162-xx | P112 | 11.0   | 0.35   |
| *VAV-                    | M207-xx | P167 | 17.5   | 0.55   |
| *VAV-                    | M253-xx | P213 | 26.5   | 0.83   |
| *VAV-                    | M257-xx |      | 19.9   | 0.62   |
| *VAV-                    | M323-xx |      | 29.0   | 0.91   |
| *VAV-                    | M329-xx | P299 | 41.0   | 1.29   |
| *VAV-                    | M406-xx | P366 | 68.1   | 2.14   |
| *VAV-                    | M409-xx |      | 40.1   | 1.26   |
| *VAV-                    | M506-xx |      | 63.9   | 2.01   |
| *VAV-                    | M508-xx | P488 | 106.1  | 3.33   |
| *VAV-                    | M638-xx |      | 109.8  | 3.45   |

**PMAFIX 90° curved elbow with metal thread**  
*PMAFIX 90° Bogenwinkel mit Metallgewinde*

| Order No.<br>Bestell-Nr. |         |      | polyamide weight<br>Polyamidgewicht<br>[g/pcs]<br>[g/Stk.] | nom. calorific value<br>nom. Heizwert<br>[MJ/pcs]<br>[MJ/Stk.] |
|--------------------------|---------|------|--|--|
|                          | metr.   | PG   |  |  |
| *VBV-                    | M207-xx | P167 | 18.2   | 0.57   |
| *VBV-                    | M253-xx | P213 | 29.7   | 0.93   |
| *VBV-                    | M257-xx |      | 26.7   | 0.84   |
| *VBV-                    | M323-xx |      | 36.8   | 1.16   |
| *VBV-                    | M329-xx | P299 | 42.5   | 1.33   |
| *VBV-                    | M406-xx | P366 | 74.8   | 2.35   |
| *VBV-                    | M409-xx |      | 52.3   | 1.64   |
| *VBV-                    | M506-xx |      | 88.8   | 2.79   |
| *VBV-                    | M508-xx | P488 | 122.6  | 3.85   |
| *VBV-                    | M638-xx |      | 128.1  | 4.02   |

**PMAFIX 90° elbow with metal thread**  
*PMAFIX 90° Winkel mit Metallgewinde*

| Order No.<br>Bestell-Nr. |         |      | polyamide weight<br>Polyamidgewicht<br>[g/pcs]<br>[g/Stk.] | nom. calorific value<br>nom. Heizwert<br>[MJ/pcs]<br>[MJ/Stk.] |
|--------------------------|---------|------|--|--|
|                          | metr.   | PG   |  |  |
| *VWV-                    | M120-xx | P090 | 8.1  | 0.25   |
| *VWV-                    | M160-xx |      | 6.9  | 0.22   |
| *VWV-                    | M162-xx | P112 | 11.6   | 0.36   |
| *VWV-                    | M202-xx |      | 12.8   | 0.40   |
| *VWV-                    | M207-xx | P167 | 19.2   | 0.60   |
| *VWV-                    | M253-xx | P213 | 29.0   | 0.91   |
| *VWV-                    | M329-xx | P299 | 44.9   | 1.41   |
| *VWV-                    | M406-xx | P366 | 74.1   | 2.33   |
| *VWV-                    | M508-xx | P488 | 103.5  | 3.26   |
| *VWV-                    | M638-xx |      | 128.8  | 4.04   |

**PMAFIX metal female thread adapter metric**  
*PMAFIX Metall-Innengewinde-Adapter metrisch*

| Order No.<br>Bestell-Nr. |       |  | polyamide weight<br>Polyamidgewicht<br>[g/pcs]<br>[g/Stk.] | nom. calorific value<br>nom. Heizwert<br>[MJ/pcs]<br>[MJ/Stk.] |
|--------------------------|-------|--|--|--|
|                          | metr. |  |  |  |
| NVIR-                    | M120  |  | 4.9  | 0.15   |
| NVIR-                    | M162  |  | 7.4  | 0.23   |
| NVIR-                    | M207  |  | 10.9   | 0.34   |
| NVIR-                    | M253  |  | 22.7   | 0.71   |
| NVIR-                    | M329  |  | 23.5   | 0.74   |
| NVIR-                    | M406  |  | 47.7   | 1.50   |
| NVIR-                    | M508  |  | 68.3   | 2.14   |
| NVIR-                    | M638  |  | 68.3   | 2.14   |

**PMAFIX metal female thread adapter PG**  
*PMAFIX Metall-Innengewinde-Adapter PG*

| Order No.<br>Bestell-Nr. |      |  | polyamide weight<br>Polyamidgewicht<br>[g/pcs]<br>[g/Stk.] | nom. calorific value<br>nom. Heizwert<br>[MJ/pcs]<br>[MJ/Stk.] |
|--------------------------|------|--|--|--|
|                          | PG   |  |  |  |
| NVIZR-                   | P07M |  | 4.2  | 0.13   |
| NVIZR-                   | P090 |  | 4.9  | 0.15   |
| NVIZR-                   | P110 |  | 6.5  | 0.20   |
| NVIZR-                   | P112 |  | 7.4  | 0.23   |
| NVIZR-                   | P167 |  | 10.9   | 0.34   |
| NVIZR-                   | P213 |  | 22.7   | 0.71   |
| NVIZR-                   | P299 |  | 23.5   | 0.74   |
| NVIZR-                   | P366 |  | 47.7   | 1.50   |
| NVIZR-                   | P488 |  | 68.3   | 2.14   |

\* stands for "N" (black with metal thread) or "M" (grey with metal thread)

\* steht für "N" (schwarz mit Metallgewinde) oder "M" (grau mit Metallgewinde)

## INFO

## Enthalpy of combustion (calorific value)

of PMA fittings with metal thread



## Verbrennungsenthalpie (Heizwert)

von PMA-Verschraubungen mit Metallgewinde

## PMAFIX straight with metal thread and strain relief

## PMAFIX gerade mit Metall-Gewinde und -Zugentlastung

| Order No.<br>Bestell-Nr. |          |          | polyamide weight<br>Polyamidgewicht<br>[g/pcs]<br>[g/Stk.] | nom. calorific value<br>nom. Heizwert<br>[MJ/pcs]<br>[MJ/Stk.] |
|--------------------------|----------|----------|--|--|
|                          | metr.    | PG       |  |  |
| NVNZ-                    | M120x/Px | P090x/Px | 4.9  | 0.15   |
| NVNZ-                    | M160x/Px |          | 6.5  | 0.20   |
| NVNZ-                    |          | P110x/Px | 6.5  | 0.20   |
| NVNZ-                    | M162x-xx |          | 7.4  | 0.23   |
| NVNZ-                    |          | P112x/Px | 7.4  | 0.23   |
| NVNZ-                    | M202x/Px | P132x/Px | 8.4  | 0.26   |
| NVNZ-                    | M207x/Px |          | 10.9   | 0.34   |
| NVNZ-                    | M257x/Px | P167x/Px | 10.9   | 0.34   |
| NVNZ-                    | M253x-xx |          | 22.7   | 0.71   |
| NVNZ-                    | M323x/Px | P213x/Px | 22.7   | 0.71   |
| NVNZ-                    | M329x-xx |          | 23.5   | 0.74   |
| NVNZ-                    | M409x/Px | P299x/Px | 23.5   | 0.74   |
| NVNZ-                    | M406x-xx |          | 47.7   | 1.50   |
| NVNZ-                    | M506x/Px | P366x/Px | 47.7   | 1.50   |
| NVNZ-                    | M508x/Px |          | 68.3   | 2.14   |
| NVNZ-                    | M638x/Px | P488x/Px | 68.3   | 2.14   |

## EMCFIX straight with metal thread and strain relief

## EMVFIX gerade mit Metall-Gewinde und -Zugentlastung

| Order No.<br>Bestell-Nr. |          |       | polyamide weight<br>Polyamidgewicht<br>[g/pcs]<br>[g/Stk.] | nom. calorific value<br>nom. Heizwert<br>[MJ/pcs]<br>[MJ/Stk.] |
|--------------------------|----------|-------|--|--|
|                          | metr.    | PG    |  |  |
| NVEZ-                    | M120V-xx | P090V | 4.9  | 0.15   |
| NVEZ-                    | M160V-xx | P110V | 6.5  | 0.20   |
| NVEZ-                    | M162V-xx | P112V | 7.4  | 0.23   |
| NVEZ-                    | M207V-xx | P167V | 10.9   | 0.34   |
| NVEZ-                    | M253V-xx | P213V | 22.7   | 0.71   |
| NVEZ-                    | M257V-xx |       | 10.9   | 0.34   |
| NVEZ-                    | M323V-xx |       | 22.7   | 0.71   |
| NVEZ-                    | M329V-xx | P299V | 23.5   | 0.74   |
| NVEZ-                    | M406V-xx | P366V | 47.7   | 1.50   |
| NVEZ-                    | M409V-xx |       | 23.5   | 0.74   |
| NVEZ-                    | M506V-xx |       | 47.7   | 1.50   |
| NVEZ-                    | M508V-xx | P488V | 68.3   | 2.14   |
| NVEZ-                    | M638V-xx |       | 68.3   | 2.14   |

## EMCFIX / EMVFIX

| Order No.<br>Bestell-Nr. |         |      | polyamide weight<br>Polyamidgewicht<br>[g/pcs]<br>[g/Stk.] | nom. calorific value<br>nom. Heizwert<br>[MJ/pcs]<br>[MJ/Stk.] |
|--------------------------|---------|------|--|--|
|                          | metr.   | PG   |  |  |
| •VEMV-                   | M120-xx | P090 | 11.0   | 0.35   |
| •VEMV-                   | M162-xx | P112 | 13.8   | 0.43   |
| •VEMV-                   | M207-xx | P167 | 18.4   | 0.58   |
| •VEMV-                   | M253-xx | P213 | 25.9   | 0.81   |
| •VEMV-                   | M329-xx | P299 | 35.7   | 1.12   |
| •VEMV-                   | M406-xx | P366 | 53.6   | 1.68   |
| •VEMV-                   | M508-xx | P488 | 61.2   | 1.92   |
| •VEMV-                   | M638-xx |      | 61.2   | 1.92   |

## EMCFIX female thread / EMVFIX Innengewinde

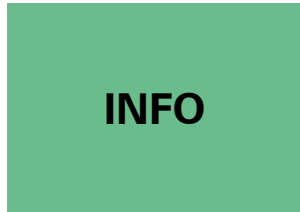
| Order No.<br>Bestell-Nr. |      |  | polyamide weight<br>Polyamidgewicht<br>[g/pcs]<br>[g/Stk.] | nom. calorific value<br>nom. Heizwert<br>[MJ/pcs]<br>[MJ/Stk.] |
|--------------------------|------|--|--|--|
|                          | UNEF |  |  |  |
| •VIMV-                   | U182 |  | 13.8   | 0.43   |
| •VIMV-                   | U212 |  | 13.8   | 0.43   |
| •VIMV-                   | U247 |  | 18.4   | 0.58   |
| •VIMV-                   | U357 |  | 18.4   | 0.58   |
| •VIMV-                   | U433 |  | 25.9   | 0.81   |
| •VIMV-                   | U569 |  | 35.7   | 1.12   |
| •VIMV-                   | U566 |  | 53.6   | 1.68   |
| •VIMV-                   | U568 |  | 61.2   | 1.92   |

- stands for "B" (polyamide black) or "S" (polyamide grey)
- steht für "B" (Polyamid schwarz) oder "S" (Polyamid grau)

According to DIN 51900 the enthalpy of combustion for PA6 is between 30 - 32 MJ/kg. The figures quoted for PMA PA6 and PA12 components are calculated with 31,4 MJ/kg. For weight indications of fittings with polyamide thread and for conduit weights please see the relevant data sheets.

Die Verbrennungsenthalpie beträgt gem. DIN 51900 für PA6 30 - 32 MJ/kg. Unsere Werte für PA6 und PA12 sind mit 31,4 MJ/kg gerechnet.

Bei Verschraubungen mit Kunststoffgewinden und bei Rohren können die Gewichtsangaben direkt den entsprechenden Datenblättern entnommen werden.



**Enthalpy of combustion (calorific value)**  
of PMA fittings with metal thread



**Verbrennungsenthalpie (Heizwert)**  
von PMA-Verschraubungen mit Metallgewinde

**PMAFIX Pro straight with metal thread**  
*PMAFIX Pro gerade mit Metallgewinde*

| Order No.<br>Bestell-Nr. |         | polyamide weight<br>Polyamidgewicht<br>[g/pcs]<br>[g/Stk.] | nom. calorific value<br>nom. Heizwert<br>[MJ/pcs]<br>[MJ/Stk.] |
|--------------------------|---------|--|--|
| metr.                    |         |  |  |
| *KNH-                    | M120-10 | 8.2  | 0.26   |
| *KNH-                    | M160-10 | 8.1  | 0.26   |
| *KNH-                    | M162-10 | 10.1   | 0.32   |
| *KNH-                    | M202-10 | 9.8  | 0.31   |
| *KNH-                    | M207-10 | 15.7   | 0.49   |
| *KNH-                    | M253-11 | 20.1   | 0.63   |
| *KNH-                    | M257-11 | 16.0   | 0.50   |
| *KNH-                    | M323-13 | 20.2   | 0.63   |
| *KNH-                    | M329-13 | 32.4   | 1.02   |
| *KNH-                    | M406-13 | 58.1   | 1.82   |
| *KNH-                    | M409-13 | 34.9   | 1.10   |
| *KNH-                    | M506-14 | 58.7   | 1.84   |
| *KNH-                    | M508-14 | 71.4   | 2.24   |
| *KNH-                    | M638-14 | 71.8   | 2.26   |

**PMAFIX Pro 45° elbow with metal thread**  
*PMAFIX Pro 45° Winkel mit Metallgewinde*

| Order No.<br>Bestell-Nr. |         | polyamide weight<br>Polyamidgewicht<br>[g/pcs]<br>[g/Stk.] | nom. calorific value<br>nom. Heizwert<br>[MJ/pcs]<br>[MJ/Stk.] |
|--------------------------|---------|--|--|
| metr.                    |         |  |  |
| *KAH-                    | M120-10 | 7.8  | 0.25   |
| *KAH-                    | M160-10 | 7.8  | 0.25   |
| *KAH-                    | M162-10 | 10.9   | 0.34   |
| *KAH-                    | M202-10 | 10.7   | 0.34   |
| *KAH-                    | M207-10 | 18.0   | 0.57   |
| *KAH-                    | M253-11 | 26.2   | 0.82   |
| *KAH-                    | M257-11 | 18.2   | 0.57   |
| *KAH-                    | M323-13 | 26.1   | 0.82   |
| *KAH-                    | M329-13 | 46.1   | 1.45   |
| *KAH-                    | M406-13 | 71.3   | 2.24   |
| *KAH-                    | M409-13 | 48.3   | 1.52   |
| *KAH-                    | M506-14 | 67.2   | 2.11   |
| *KAH-                    | M508-14 | 110.4  | 3.47   |
| *KAH-                    | M638-14 | 97.0   | 3.05   |

**PMAFIX Pro 90° curved elbow with metal thread**  
*PMAFIX Pro 90° Bogenwinkel mit Metallgewinde*

| Order No.<br>Bestell-Nr. |         | polyamide weight<br>Polyamidgewicht<br>[g/pcs]<br>[g/Stk.] | nom. calorific value<br>nom. Heizwert<br>[MJ/pcs]<br>[MJ/Stk.] |
|--------------------------|---------|--|--|
| metr.                    |         |  |  |
| *KBH-                    | M120-10 | 9.7  | 0.31   |
| *KBH-                    | M160-10 | 9.1  | 0.29   |
| *KBH-                    | M162-10 | 14.2   | 0.45   |
| *KBH-                    | M202-10 | 12.8   | 0.40   |
| *KBH-                    | M207-10 | 23.7   | 0.74   |
| *KBH-                    | M253-11 | 37.3   | 1.18   |
| *KBH-                    | M257-11 | 20.3   | 0.64   |
| *KBH-                    | M323-13 | 30.2   | 0.95   |
| *KBH-                    | M329-13 | 62.6   | 1.97   |
| *KBH-                    | M406-13 | 104.8  | 3.29   |
| *KBH-                    | M409-13 | 63.4   | 1.99   |
| *KBH-                    | M506-14 | 83.3   | 2.62   |
| *KBH-                    | M508-14 | 118.1  | 3.71   |
| *KBH-                    | M638-14 | 126.1  | 3.96   |

**PMAFIX Pro straight with metal thread and strain relief**  
*PMAFIX Pro gerade mit Metall-Gewinde und -Zugentlastung*

| Order No.<br>Bestell-Nr. |          | polyamide weight<br>Polyamidgewicht<br>[g/pcs]<br>[g/Stk.] | nom. calorific value<br>nom. Heizwert<br>[MJ/pcs]<br>[MJ/Stk.] |
|--------------------------|----------|--|--|
| metr.                    |          |  |  |
| NKNZ-                    | M120/Px  | 7.7  | 0.24   |
| NKNZ-                    | M160/Px  | 7.7  | 0.24   |
| NKNZ-                    | M160S-xx | 8.3  | 0.26   |
| NKNZ-                    | M162S-xx | 10.2   | 0.32   |
| NKNZ-                    | M202/Px  | 9.4  | 0.29   |
| NKNZ-                    | M202S-xx | 10.1   | 0.32   |
| NKNZ-                    | M207/Px  | 15.7   | 0.49   |
| NKNZ-                    | M207S-xx | 15.4   | 0.48   |
| NKNZ-                    | M253S-xx | 19.7   | 0.62   |
| NKNZ-                    | M257/Px  | 14.7   | 0.46   |
| NKNZ-                    | M257S-xx | 16.0   | 0.50   |
| NKNZ-                    | M323/Px  | 20.0   | 0.63   |
| NKNZ-                    | M323S-xx | 20.5   | 0.65   |
| NKNZ-                    | M329S-xx | 32.0   | 1.01   |
| NKNZ-                    | M406S-xx | 43.6   | 1.37   |
| NKNZ-                    | M409/Px  | 31.0   | 0.97   |
| NKNZ-                    | M409S-xx | 30.0   | 0.94   |
| NKNZ-                    | M506/Px  | 43.7   | 1.37   |
| NKNZ-                    | M506S-xx | 50.0   | 1.57   |
| NKNZ-                    | M508/Px  | 57.6   | 1.81   |
| NKNZ-                    | M508S-xx | 71.6   | 2.25   |
| NKNZ-                    | M638/Px  | 63.0   | 1.98   |
| NKNZ-                    | M638S-xx | 67.0   | 2.10   |

\* stands for "N" (black with metal thread) or "M" (grey with metal thread)  
\* steht für "N" (schwarz mit Metallgewinde) oder "M" (grau mit Metallgewinde)

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