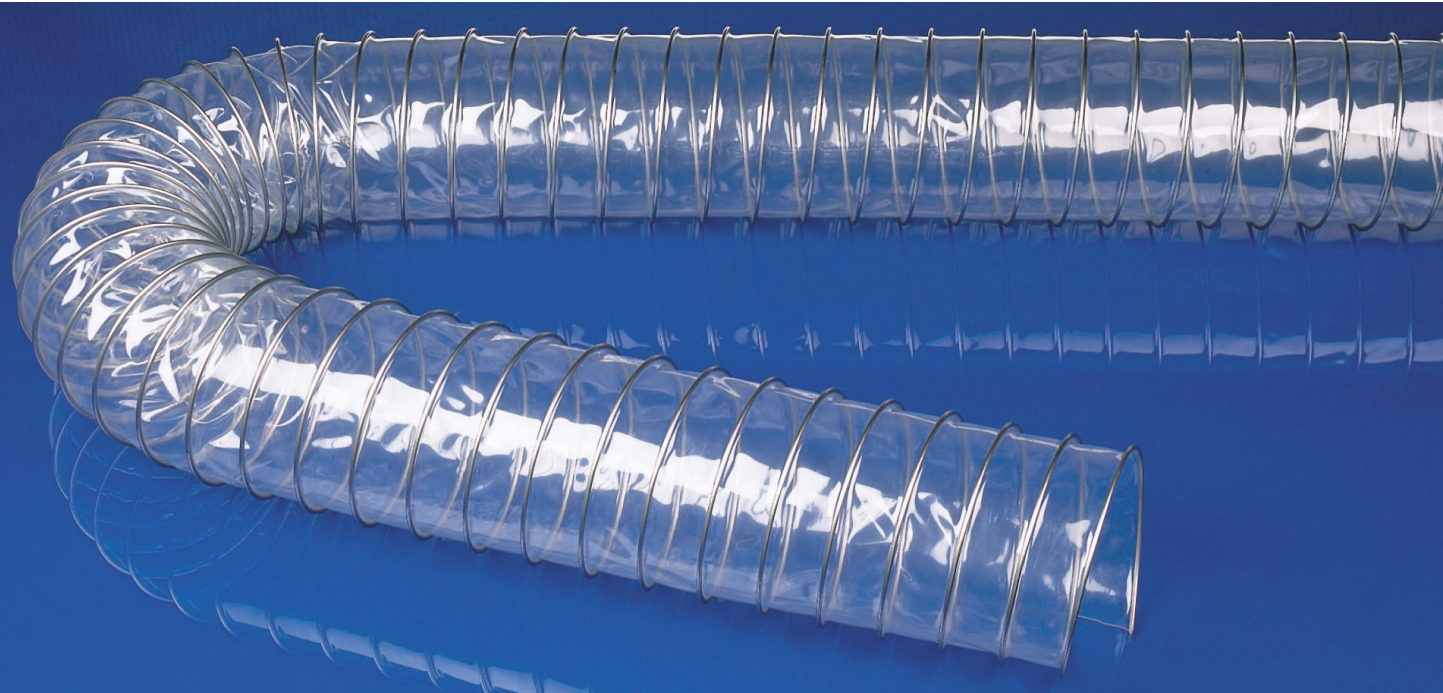


# SUCTION AND TRANSPORT HOSE WITH EXTERNAL HELIX



1.6.1

## MASTER-CLIP PUR

### Material

**hose wall:** pure polyurethane film, free from plastizisers  
**external helix:** galvanized steel

### Applications

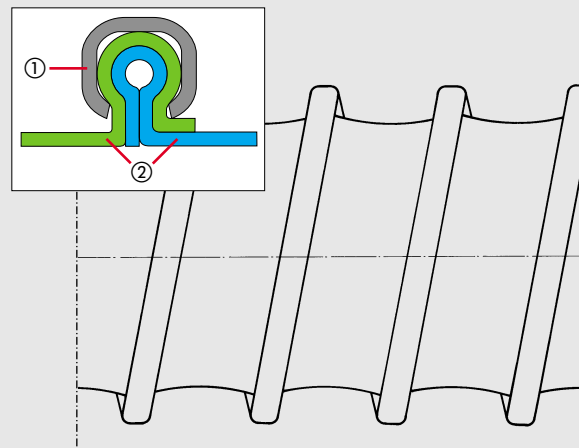
- air conditioning/ventilation
- extraction of abrasive media
- grass collectors and lawn mowers
- low pressure applications

### Properties

- highly abrasion-resistant
- good resistance to mechanical damage
- good resistance to oil and gas vapors
- improved vacuum characteristics
- highly resilient
- resistant to aging
- resistant to low temperatures
- very flexible
- extreme compressibility 1:6
- small bend radius
- external steel helix protects against abrasion
- environmentally sound alternative to PVC
- much higher temperature rating than PVC-hoses
- special clamping method guarantees high tensile strength between hose material and external helix

### Construction

- ① external helix
- ② hose wall: pure polyurethane film, wall thickness .0118"



### Temperature Range

- -40°F up to +195°F
- intermittent to +260°F

### Chem. Resistance

see resistance table section no. 15

Technical Data, custom designs and forms of delivery see back page



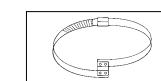
# MASTER-CLIP PUR

| Dia (in.) | Positive (in. w.c.) | Negative (in. w.c.) | *Bending radius (in.) | Weight (lbs./ft.) | Product code |
|-----------|---------------------|---------------------|-----------------------|-------------------|--------------|
| 1.6       | 253                 | 60                  | 0.96                  | 0.2684            | 214-040-101  |
| 1.8       | 249                 | 58                  | 1.08                  | 0.2684            | 214-045-101  |
| 2.0       | 241                 | 54                  | 1.20                  | 0.2684            | 214-050-101  |
| 2.2       | 231                 | 52                  | 1.32                  | 0.2684            | 214-055-101  |
| 2.4       | 221                 | 50                  | 1.44                  | 0.3355            | 214-060-101  |
| 2.6       | 201                 | 45                  | 1.56                  | 0.3355            | 214-065-101  |
| 2.8       | 161                 | 44                  | 1.68                  | 0.3355            | 214-070-101  |
| 3.0       | 141                 | 40                  | 1.80                  | 0.4026            | 214-075-101  |
| 3.2       | 121                 | 36                  | 1.92                  | 0.4026            | 214-080-101  |
| 3.6       | 104                 | 32                  | 2.16                  | 0.4026            | 214-090-101  |
| 4.0       | 92                  | 27                  | 2.40                  | 0.4026            | 214-100-101  |
| 4.4       | 80                  | 23                  | 2.64                  | 0.4026            | 214-110-101  |
| 4.8       | 72                  | 21                  | 2.88                  | 0.4697            | 214-120-101  |
| 5.0       | 68                  | 20                  | 3.00                  | 0.4697            | 214-125-101  |
| 5.2       | 60                  | 19                  | 3.12                  | 0.4697            | 214-130-101  |
| 5.6       | 56                  | 18                  | 3.36                  | 0.5368            | 214-140-101  |
| 6.0       | 54                  | 18                  | 3.60                  | 0.5368            | 214-150-101  |
| 6.4       | 52                  | 16                  | 3.84                  | 0.6039            | 214-160-101  |
| 6.8       | 48                  | 14                  | 4.08                  | 0.6039            | 214-170-101  |
| 7.0       | 44                  | 13                  | 4.20                  | 0.6710            | 214-175-101  |
| 7.2       | 42                  | 12                  | 4.32                  | 0.6710            | 214-180-101  |
| 8.0       | 40                  | 10                  | 4.80                  | 0.7381            | 214-200-101  |
| 8.6       | 36                  | 9                   | 6.04                  | 0.8052            | 214-215-101  |
| 9.0       | 32                  | 8                   | 6.32                  | 0.8723            | 214-225-101  |
| 10.0      | 30                  | 6                   | 7.00                  | 0.9394            | 214-250-101  |
| 11.0      | 28                  | 5                   | 7.72                  | 1.1407            | 214-275-101  |
| 12.0      | 24                  | 4                   | 8.40                  | 1.2749            | 214-300-101  |
| 12.6      | 22                  | 4                   | 8.84                  | 1.3420            | 214-315-101  |
| 13.0      | 21                  | 4                   | 9.12                  | 1.4091            | 214-325-101  |
| 14.0      | 20                  | 3                   | 9.80                  | 1.5433            | 214-350-101  |
| 15.0      | 16                  | 3                   | 10.52                 | 1.8117            | 214-375-101  |
| 16.0      | 12                  | 3                   | 11.20                 | 1.9459            | 214-400-101  |
| 18.0      | 11                  | 2                   | 14.40                 | 2.3485            | 214-450-101  |
| 20.0      | 10                  | 2                   | 16.00                 | 2.6169            | 214-500-101  |
| 22.0      | 10                  | 1                   | 17.60                 | 2.9524            | 214-550-101  |
| 24.0      | 9                   | 1                   | 19.20                 | 3.2879            | 214-600-101  |
| 28.0      | 8                   | 1                   | 22.40                 | 3.8918            | 214-700-101  |
| 32.0      | 6                   | 1                   | 25.60                 | 4.4957            | 214-800-101  |
| 36.0      | 4                   | 1                   | 28.80                 | 5.0996            | 214-900-101  |

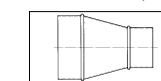
\* Referring to the inner side of the elbow of hose.

The above mentioned data refers to an average and ambient temperature of 68°F. Subject to technical changes and color variations. Please refer to technical data sheet when selecting hose.

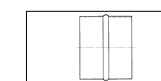
Installation and connection possibilities (see register no. 11 and 12):



CLIP-GRIP special hose clamp for MASTER-CLIP hoses



hose reducer, symmetrical



hose connector

### Delivery forms:

Standard production:

- Dia. 1.6" - 36"
- Color clear
- Standard lengths 20' and 25'

Available on request:

- special lengths
- special diameters
- custom design with other pitches and helix sizes
- external helix also in stainless or aluminum