

# Polyurethane re-coil hosepart

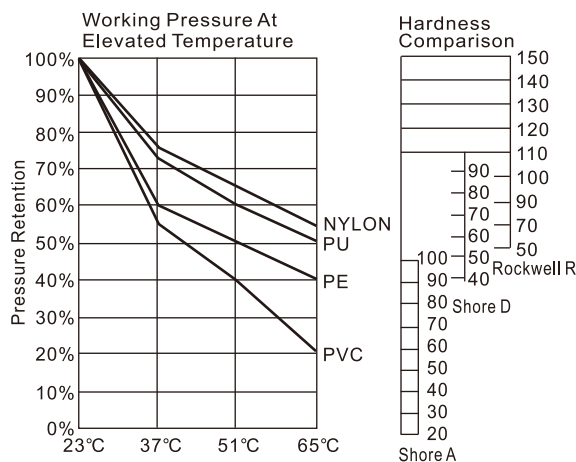
## UCS Series



### Product feature

1. Plastic polyurethane material conforms to the ROHS environment protection requirement.
2. High elasticity: small bend radius enables PU tube to pass through the tight space.
3. Anti-knot: better anti-knot effect than other plastic tube.
4. Excellent flexibility: it can bear repeated expansion.
5. Anti-abrasion: long working life and suitable for the environment in which it is easy to be worn.
6. Low permeability of gas: relieve the problems of leakage and pollution.
7. Good anti-solubility: no solvent leaks, therefore it will not pollute the environment.
8. Low compression: maintain excellent physical character.
9. Wide resistance: it has certain resistance to chemicals, water, fuel, oil and bacterium.

### Technical chart



### Specification(Standard pressure type)

| Type [Note1]    | Tube OD (mm) | Tube ID (mm) | Working Pressure at 23°C(MPa)[Note2] | Burst pressure at 23°C(MPa) | Bend radius(mm) | Length(m) [Note3] | Temp. (°C) |
|-----------------|--------------|--------------|--------------------------------------|-----------------------------|-----------------|-------------------|------------|
| UCS060040□030□□ | 6.0          | 4.0          | 1.0                                  | 3.0                         | 38              | 3                 | -20~70     |
| UCS060040□060□□ | 6.0          | 4.0          | 1.0                                  | 3.0                         | 38              | 6                 |            |
| UCS060040□090□□ | 6.0          | 4.0          | 1.0                                  | 3.0                         | 38              | 9                 |            |
| UCS060040□120□□ | 6.0          | 4.0          | 1.0                                  | 3.0                         | 38              | 12                |            |
| UCS060040□150□□ | 6.0          | 4.0          | 1.0                                  | 3.0                         | 38              | 15                |            |
| UCS080050□060□□ | 8.0          | 5.0          | 1.0                                  | 3.0                         | 38              | 6                 |            |
| UCS080050□090□□ | 8.0          | 5.0          | 1.0                                  | 3.0                         | 38              | 9                 |            |
| UCS080050□120□□ | 8.0          | 5.0          | 1.0                                  | 3.0                         | 38              | 12                |            |
| UCS080050□150□□ | 8.0          | 5.0          | 1.0                                  | 3.0                         | 38              | 15                |            |
| UCS100065□060□□ | 10.0         | 6.5          | 1.0                                  | 3.0                         | 50              | 6                 |            |
| UCS100065□090□□ | 10.0         | 6.5          | 1.0                                  | 3.0                         | 50              | 9                 |            |
| UCS100065□120□□ | 10.0         | 6.5          | 1.0                                  | 3.0                         | 50              | 12                |            |
| UCS100065□150□□ | 10.0         | 6.5          | 1.0                                  | 3.0                         | 50              | 15                |            |
| UCS120080□060□□ | 12.0         | 8.0          | 1.0                                  | 3.0                         | 60              | 6                 |            |
| UCS120080□090□□ | 12.0         | 8.0          | 1.0                                  | 3.0                         | 60              | 9                 |            |
| UCS120080□120□□ | 12.0         | 8.0          | 1.0                                  | 3.0                         | 60              | 12                |            |
| UCS120080□150□□ | 12.0         | 8.0          | 1.0                                  | 3.0                         | 60              | 15                |            |

### Specification(Lower pressure type)

| Type [Note1]    | Tube OD (mm) | Tube ID (mm) | Working Pressure at 23°C(MPa)[Note2] | Burst pressure at 23°C(MPa) | Bend radius(mm) | Length(m) [Note3] | Temp. (°C) |
|-----------------|--------------|--------------|--------------------------------------|-----------------------------|-----------------|-------------------|------------|
| UCS080055□060□□ | 8.0          | 5.5          | 0.8                                  | 2.0                         | 38              | 6                 | -20~70     |
| UCS080055□090□□ | 8.0          | 5.5          | 0.8                                  | 2.0                         | 38              | 9                 |            |
| UCS080055□120□□ | 8.0          | 5.5          | 0.8                                  | 2.0                         | 38              | 12                |            |
| UCS080055□150□□ | 8.0          | 5.5          | 0.8                                  | 2.0                         | 38              | 15                |            |

[Note1] "□" in the type column is for "color", and "□□" is for "coupling type" and "coupling mode".

[Note2] Working pressure: 3 to 1 safety factor.

[Note3] Material length: length of operating status=(0.8~0.9)xMaterial length.

### Ordering code

UCS 080 050 BU 090M A 1

① ② ③ ④ ⑤ ⑥ ⑦

| ①Model          | ②Tube OD      | ③Tube ID     | ④Standard color  | ⑤Material length | ⑥Coupling type                                 | ⑦Coupling form               |
|-----------------|---------------|--------------|------------------|------------------|------------------------------------------------|------------------------------|
| UCS: Ester Base | 060 : Φ6.0mm  | 040 : Φ4.0mm | BU: Blue         | 030M : 3m        | A: one end is 30cm and the other end is 10cm   | 1: Without coupling          |
|                 | 080 : Φ8.0mm  | 050 : Φ5.0mm | BK: Black        | 060M : 6m        | B: Both of the tubes of the couplings are 10cm | 2: With female-male coupling |
|                 | 100 : Φ10.0mm | 055 : Φ5.5mm | GE: Orange       | 090M : 9m        |                                                | 3: With male-male coupling   |
|                 | 120 : Φ12.0mm | 065 : Φ6.5mm | C: Clear         | 120M : 12m       | C: Both of the tubes of the couplings are 0cm  |                              |
|                 |               | 080 : Φ8.0mm | GN: Green        | 150M : 15m       |                                                |                              |
|                 |               |              | BR: Brown        |                  |                                                |                              |
|                 |               |              | CR: Clear Red    |                  |                                                |                              |
|                 |               |              | CG: Clear Green  |                  |                                                |                              |
|                 |               |              | CB: Clear Blue   |                  |                                                |                              |
|                 |               |              | R: Red           |                  |                                                |                              |
|                 |               |              | CY: Clear Yellow |                  |                                                |                              |
|                 |               |              | CE: Clear Orange |                  |                                                |                              |
|                 |               |              | Y: Yellow        |                  |                                                |                              |

### Pipe end coupling

| Name          | Male quick coupling  | Female quick coupling | Male quick coupling  | Female quick coupling | Male quick coupling     | Female quick coupling | Male quick coupling   | Female quick coupling |
|---------------|----------------------|-----------------------|----------------------|-----------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Ordering code | GX-400-10PP          | GX-230-10SP           | GX-400-20PP          | GX-230-20SP           | GX-400-30PP             | GX-230-30SP           | GX-400-40PP           | GX-230-40SP           |
| Photo         |                      |                       |                      |                       |                         |                       |                       |                       |
| Type          | Φ6×Φ4 quick coupling |                       | Φ8×Φ5 quick coupling |                       | Φ10×Φ6.5 quick coupling |                       | Φ12×Φ8 quick coupling |                       |