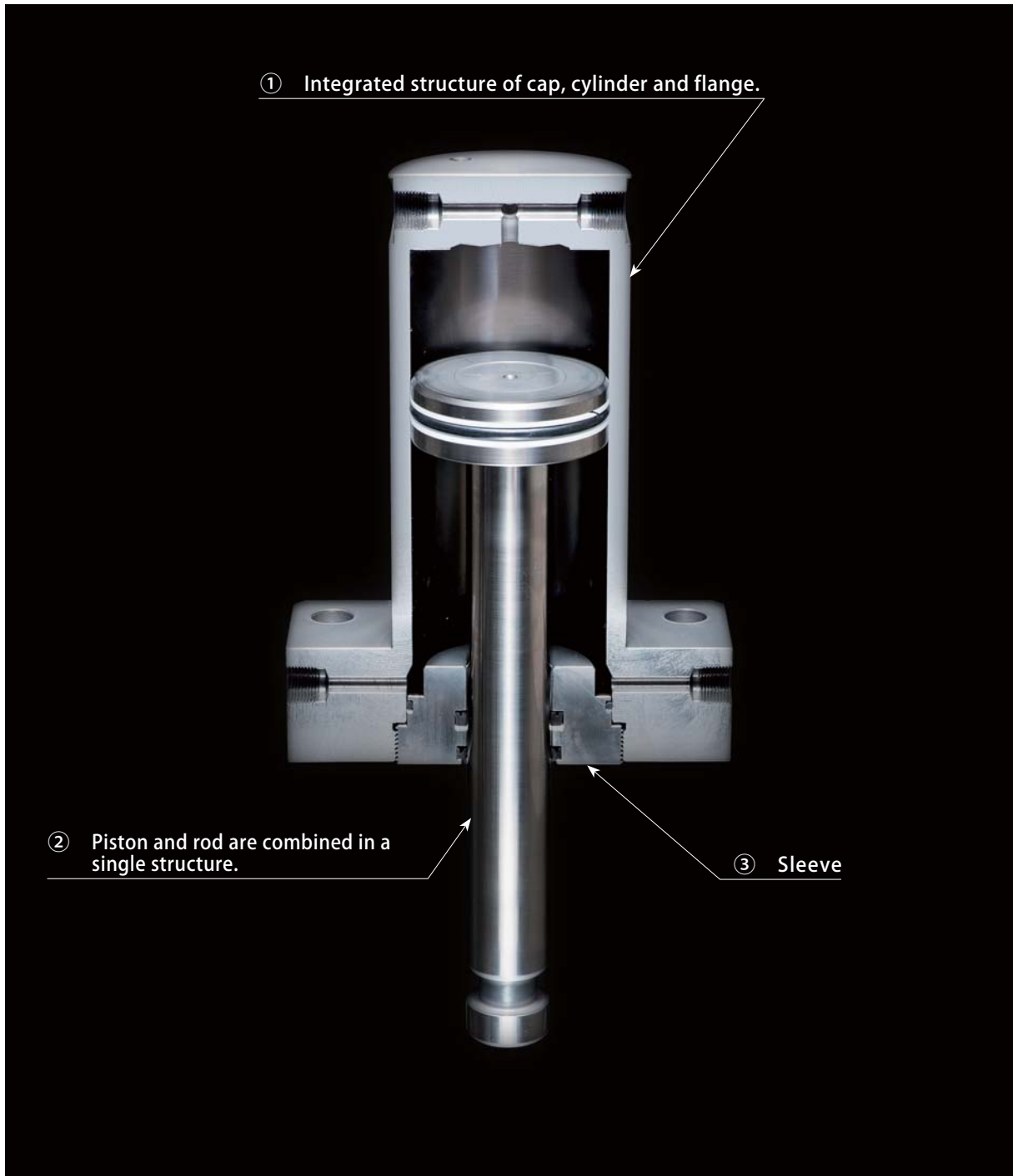


Three piece cylinder

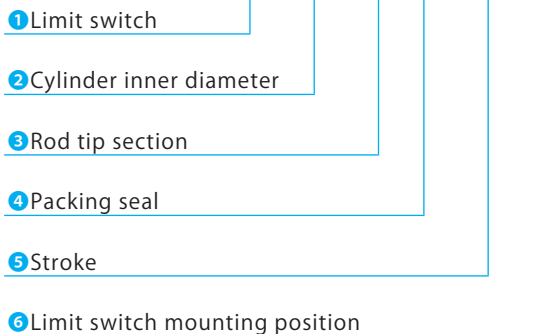
30% shorter in overall length 30% lighter of mass
(Compared with standard type of cylinder)



Excellent durability and maintenance.

Model designation

Model designation **KC S 080 S N 150 L**



| Specifications | |
|------------------------------------|---|
| Maximum allowable working pressure | 16 MPa |
| Proof pressure | 24 MPa |
| Operating temperature range | Standard 0~70°C |
| | Thermal resistant specification 5~120°C *1 |
| Cushion | None |
| Fluid used | General mineral based hydraulic oil (ISO-VG32 equivalent) Water glycol system working oil *2 |

*1: The heatproof temperature is limited according to the specification of limit switch.

*2: Set the temperature range as 0-70°C when using water glycol hydraulic oil.

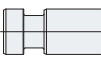
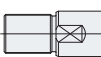
1 Limit switch (Refer to page 1)

| Symbol | L | B | S | C |
|--------------|----------------------|---------------|---------------|---------------|
| Limit switch | Without limit switch | B-type switch | S-type switch | C-type switch |

2 Cylinder inner diameter

| Symbol | 040 | 050 | 063 | 080 | 100 | 125 |
|------------------------------|-----|-----|-----|-----|------|------|
| Cylinder inner diameter (mm) | ø40 | ø50 | ø63 | ø80 | ø100 | ø125 |

3 Rod tip section

| Symbol | S | F | M |
|-----------------|--|--|---|
| Rod tip section | Stepped (standard)  | Female thread  | Male thread  |

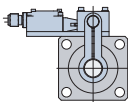
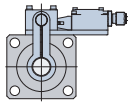
4 Packing seal

| Symbol | N | V |
|------------------|---|--|
| Packing Material | NBR (Standard) Operating temperature: 0~70°C | Fluorocarbon (Thermal resistant specification) Operating temperature: 5~120°C |

5 Stroke (The allowable stroke varies according to the inner diameter of cylinder. Refer to each page of cylinder for details.)

| Symbol | 010 | 015 | 020 | 025 | 050 | 065 | 080 | 100 | 125 | 150 | 200 |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Stroke (mm) | 10 | 15 | 20 | 25 | 50 | 65 | 80 | 100 | 125 | 150 | 200 |

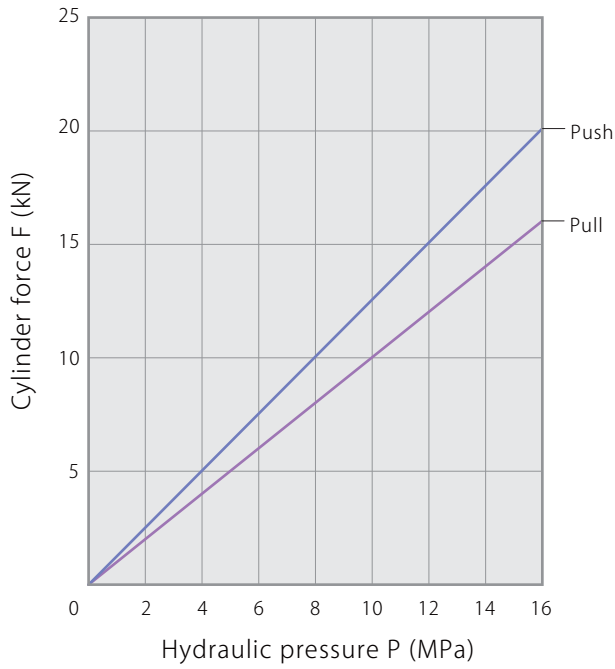
6 Limit switch mounting position (S-type switch, C-type switch only)

| Symbol | L | R |
|--------------------------------|--|---|
| Limit switch mounting position | Left  | Right  |

Performance diagram

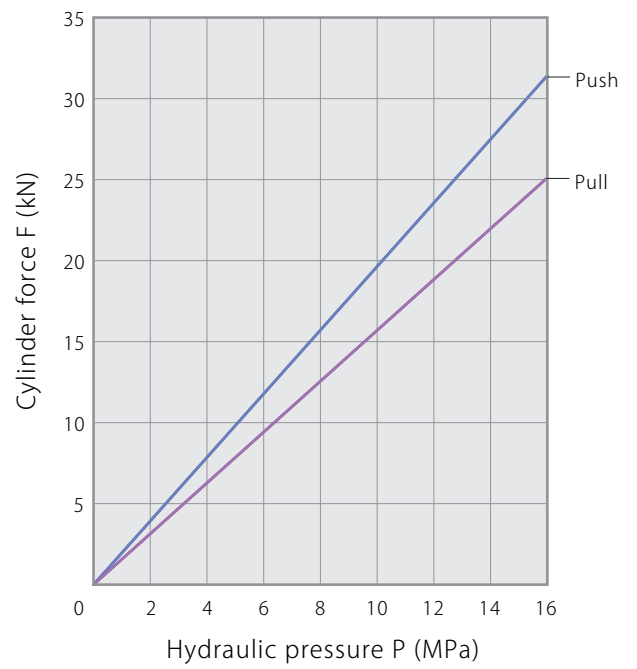
KC□040

$F(\text{Push}) = 1.257 \times P$
 $F(\text{Pull}) = 1.002 \times P$



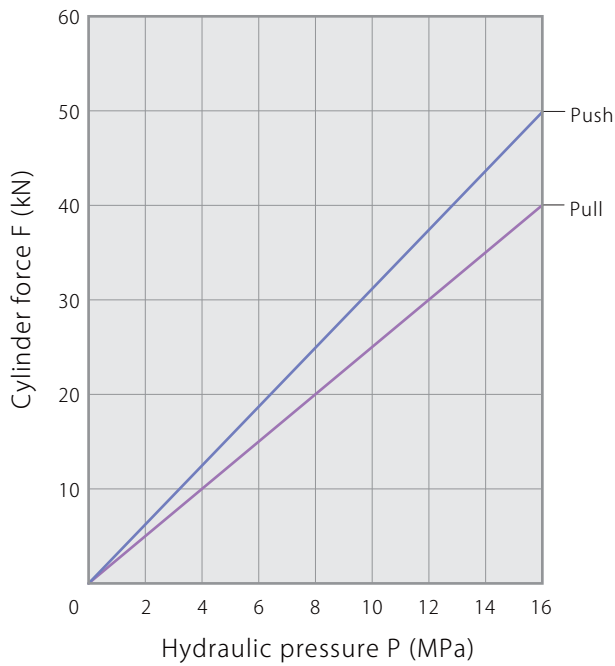
KC□050

$F(\text{Push}) = 1.963 \times P$
 $F(\text{Pull}) = 1.569 \times P$



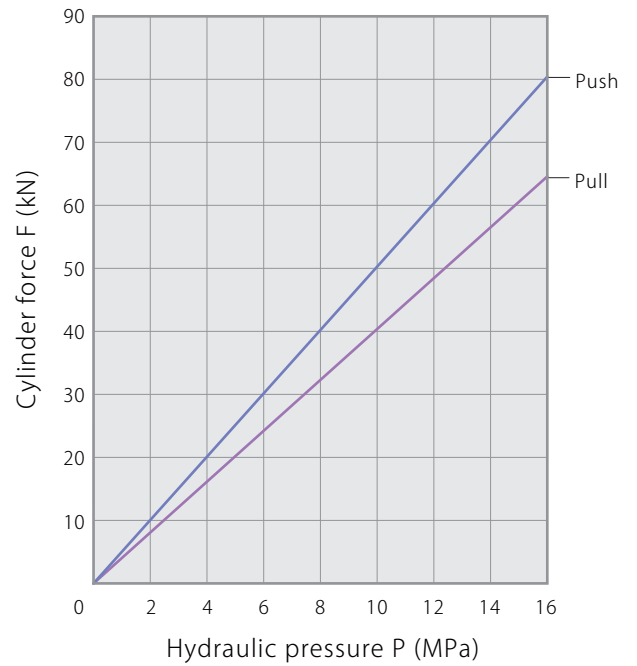
KC□063

$F(\text{Push}) = 3.117 \times P$
 $F(\text{Pull}) = 2.501 \times P$



KC□080

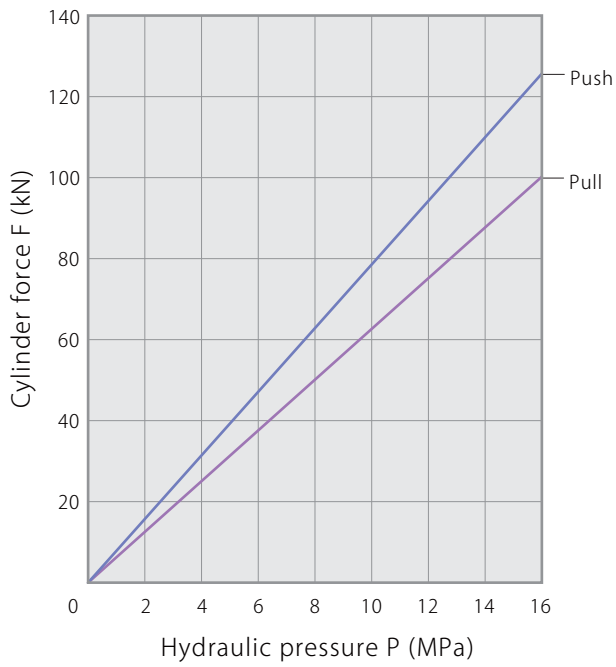
$F(\text{Push}) = 5.027 \times P$
 $F(\text{Pull}) = 4.037 \times P$



Performance diagram

KC□100

$$F (\text{Push}) = 7.854 \times P$$
$$F (\text{Pull}) = 6.264 \times P$$



KC□125

$$F (\text{Push}) = 12.272 \times P$$
$$F (\text{Pull}) = 9.809 \times P$$

