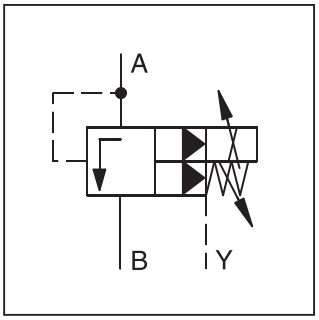
General Description

Series RE*E*T proportional pressure relief valves consist of a proportional pilot stage with onboard electronics and a slip-in cartridge main stage. A mechanical maximum pressure stage is optionally available. For sizes NG25 and NG32 a screw-in cartridge is used; for sizes NG40, NG50 and NG63 an additional sandwich unit is used.

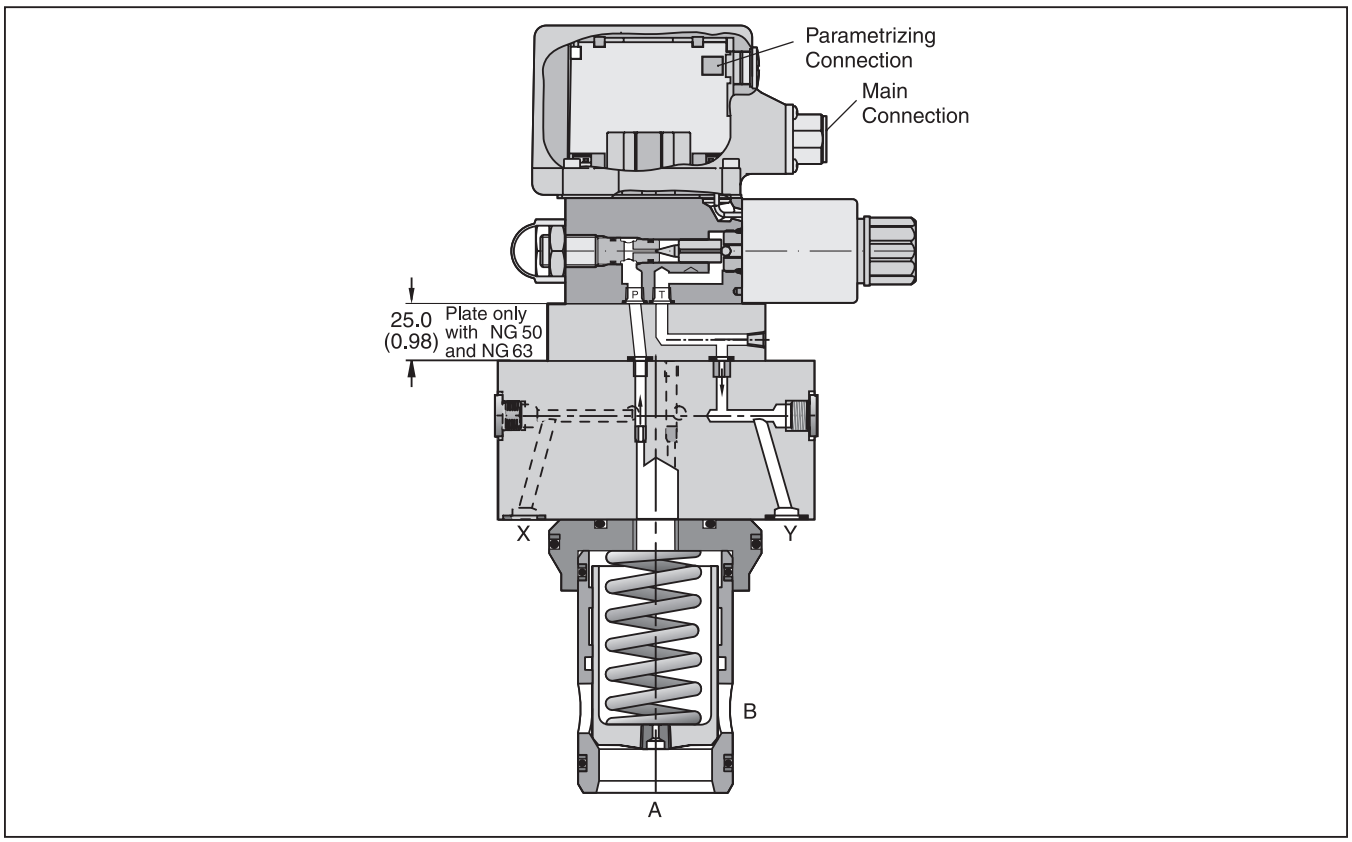
The valve comes factory set with linearized characteristics.

The RE*T model code embraces the pilot valves, covers and cartridges that are also offered as separate items. The pilot valve with onboard electronics (RE06M*T) is not shown in the combination examples



Features

- Pilot operated with proportional solenoid.
- Onboard electronics.
- Optional mechanical maximum pressure stage.
- Factory setting.
- Ramp time adjustment.
- Linearized characteristics.
- 4 pressure ranges.
- Cavity and mounting pattern according to ISO 7368.
- 6 sizes, NG16 to NG63.



⚠ **WARNING:** This product can expose you to chemicals including Lead, Nickel (Metallic), or 1,3-Butadiene which are known to the State of California to cause cancer, and Lead or 1,3-Butadiene which is known to the State of California to cause birth defects and other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Cat3200_02.indd, ddp, 04/19

Parker Hannifin Corporation
Hydraulic Valve Division
Elyria, Ohio, USA

Specifications

General						
Size	**NG16**	**NG25**	**NG32**	**NG40**	**NG50**	**NG63**
Interface	Slip-in mounting according to ISO 7368					
Mounting Position	As desired, horizontal mounting preferred					
Ambient Temperature	-20 to +80°C (-4 to +176°F)					
Hydraulic						
Maximum Operating Pressure	Ports A and X: 350 Bar (5075 PSI), ports B and Y: depressurized					
Pressure Range	105, 175, 250, 350 Bar (1523, 2538, 3625, 5075 PSI)					
Nominal Flow	220 LPM (58 GPM)	500 LPM (132 GPM)	950 LPM (251 GPM)	1400 LPM (370 GPM)	2300 LPM (609 GPM)	4000 LPM (1058 GPM)
Fluid	Hydraulic oil according to DIN 51524 ... 525					
Viscosity Recommended	30 to 50 cSt (mm^2/s)					
Viscosity Permitted	20 to 380 cSt (mm^2/s)					
Fluid Temperature	-20 to +70°C (-4 to +158°F)					
Filtration	ISO 4406 (1999); 18/16/13 (meet NAS 1638:7)					
Electrical (Proportional Solenoid)						
Duty Ratio	100% ED					
Protection Class	IP65 in accordance with EN 60529 (plugged and mounted)					
Supply Voltage	14.5 VDC to 30 VDC					
Ripple in Supply Voltage	5% maximum					
Current Consumption	2.8 amps maximum					
Input Range **Voltage Input** **Current Input**	0 to +10V maximum / 10k Ohm 4 to +20mA / 500 Ohm					
Adjustment Range of Ramp Time	0 to 5s					
Installation Cross-section	1 mm^2 minimum, shielded					
Cable Length	50 m (164 ft.) maximum					
Electrical Connection	No. 5004072; 6 pole + PE / Connector as per EN 175201-804 / cable - 8 to 10 mm					

Ordering Information

RE		E		T	1	S		1		0			
Proportional Pressure Relief Valve w/Electric Unloading	Nominal Size	Slip-in Mounting ISO 7368	Pressure Range	Offboard Electronics	Pilot Oil Pilot Internal Drain External	Poppet Spring	Seals	Normally Open	Command Signal	Electrical Attachments	Options	Design Series	Spool Type

NOTE: Not required when ordering.

Code	Description
16	NG16
25	NG25
32	NG32
40	NG40
50	NG50
63	NG63

Code	Description
10	up to 105 Bar (1523 PSI)
17	up to 175 Bar (2538 PSI)
25	up to 250 Bar (3625 PSI)
35	up to 350 Bar (5075 PSI)

Code	Description
N	Nitrile
V	Fluorocarbon

Code	Description
F	Voltage input 0 to +10V with ref. output +10V
R	Current input 4 to 20mA

Code	Description
Omit	Standard
M	Mechanical Maximum Adjustment

Code	Description
Omit	Standard
S07 [1]	With Poppet Seals

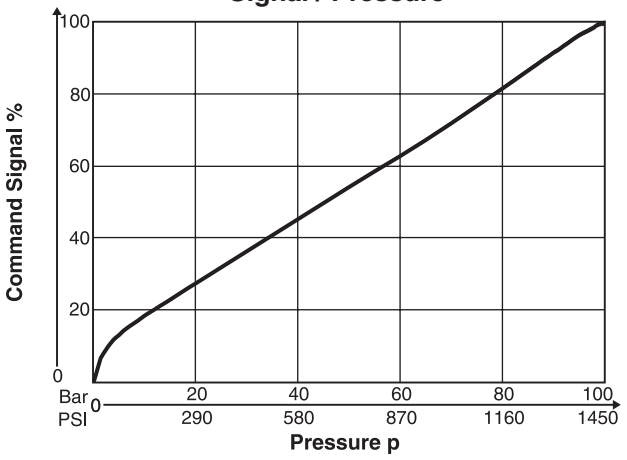
[1] Not for NG16

Weight:

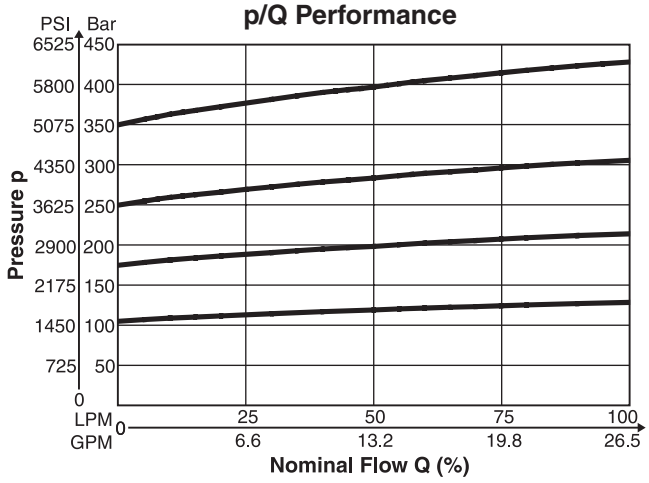
RE16E*T	2.7 kg (6.0 lbs.)	RE40E*T	9.5 kg (20.9 lbs.)
RE25E*T	5.2 kg (11.5 (lbs.)	RE50E*T	15.2 kg (33.5 lbs.)
RE32E*T	6.4 kg (14.1 lbs.)	RE63E*T	24.3 kg (53.6 lbs.)

The performance curves are measured with external drain. For internal drain the tank pressure has to be added to curve.

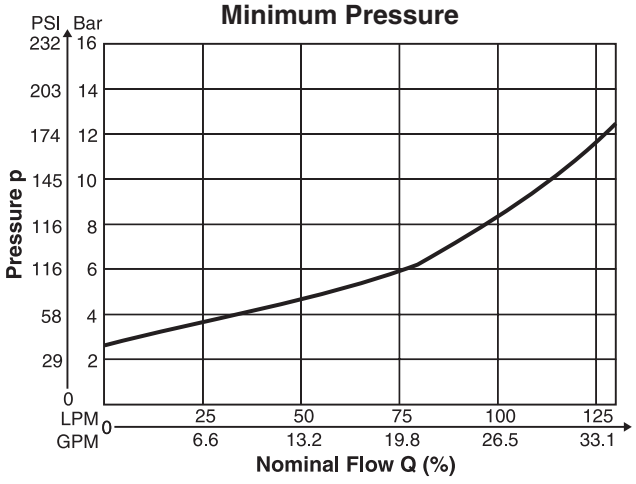
Signal / Pressure



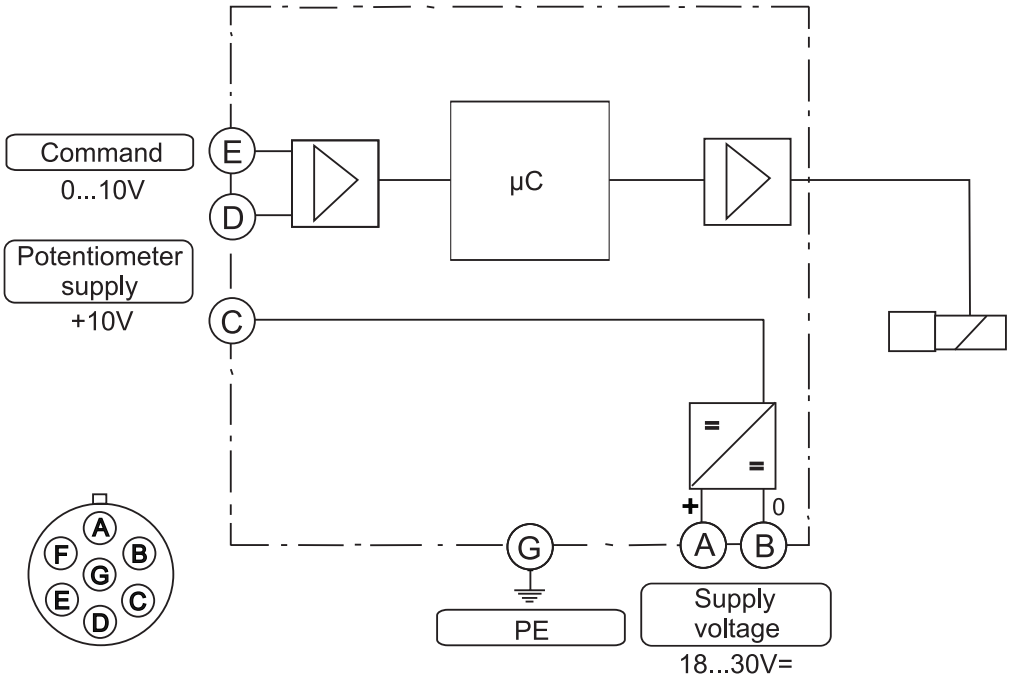
p/Q Performance



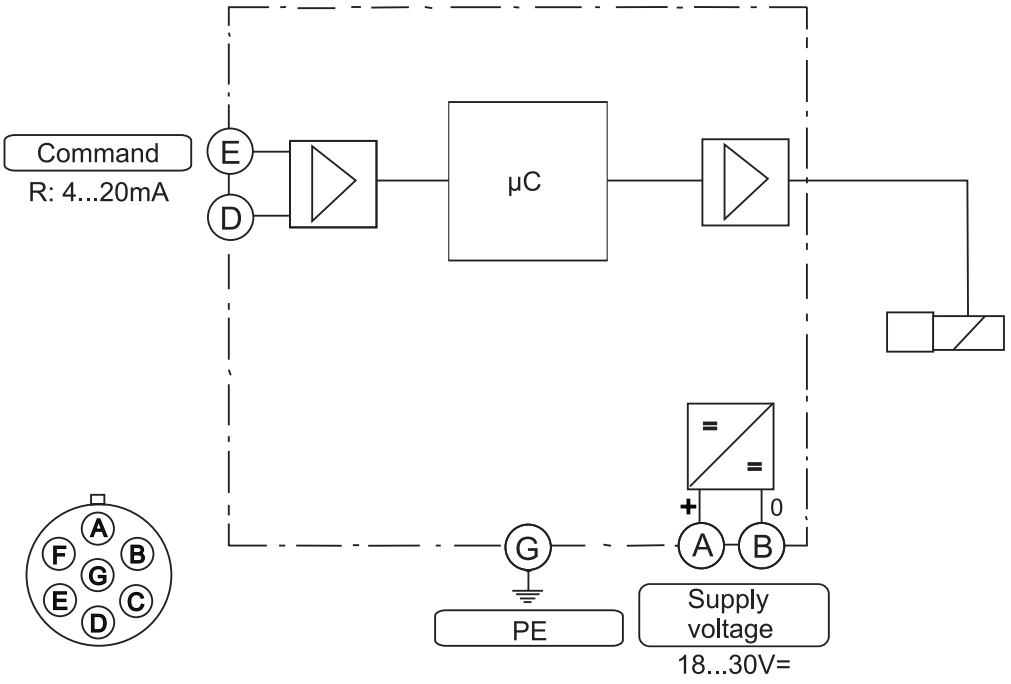
Minimum Pressure



Code F
6 + PE acc. EN 175201-804



Code R
6 + PE acc. EN 175201-804



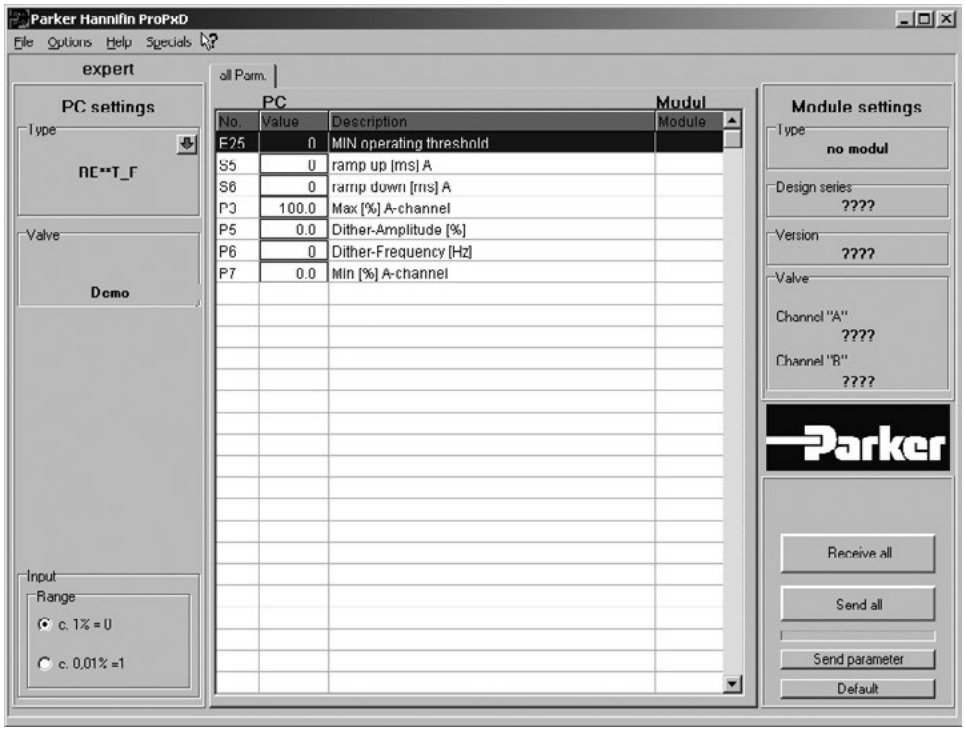
ProPxD Interface Program

The ProPxD software permits comfortable parameter setting for the electronic modules Series PCD, PWD, PZD, PID and PWDXX.

Via the clearly arranged entry mask the parameters can be displayed and modified. Storage of complete parameter sets is possible as well as printout or record as a text file for further documentation. Stored parameter sets may be loaded anytime and transmitted to the electronic module in the same manner as the basic parameters which are available for all usable valve series. Inside the electronics a nonvolatile memory stores the data with the option for recalling or modification.

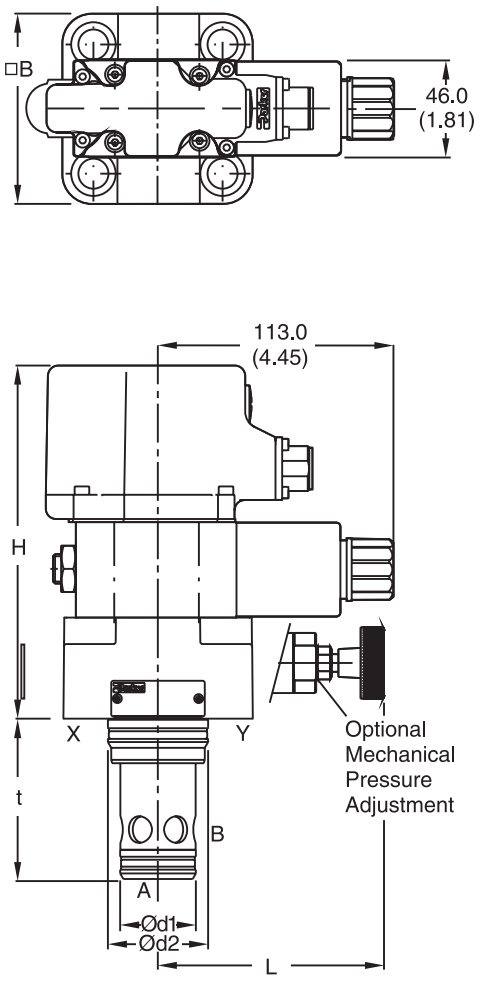
Features

- Simple editing of all parameters.
- Depiction and documentation of parameter sets.
- Storage and loading of optimized parameter adjustments.
- Executable with all Windows® operating systems from Windows® 95 upwards.
- Communication between PC and electronic via serial interface RS-232C and null modem cable.
- Simple to use PC user software, free of charge: www.parker.com/euro_hcd – see “Software Downloads”

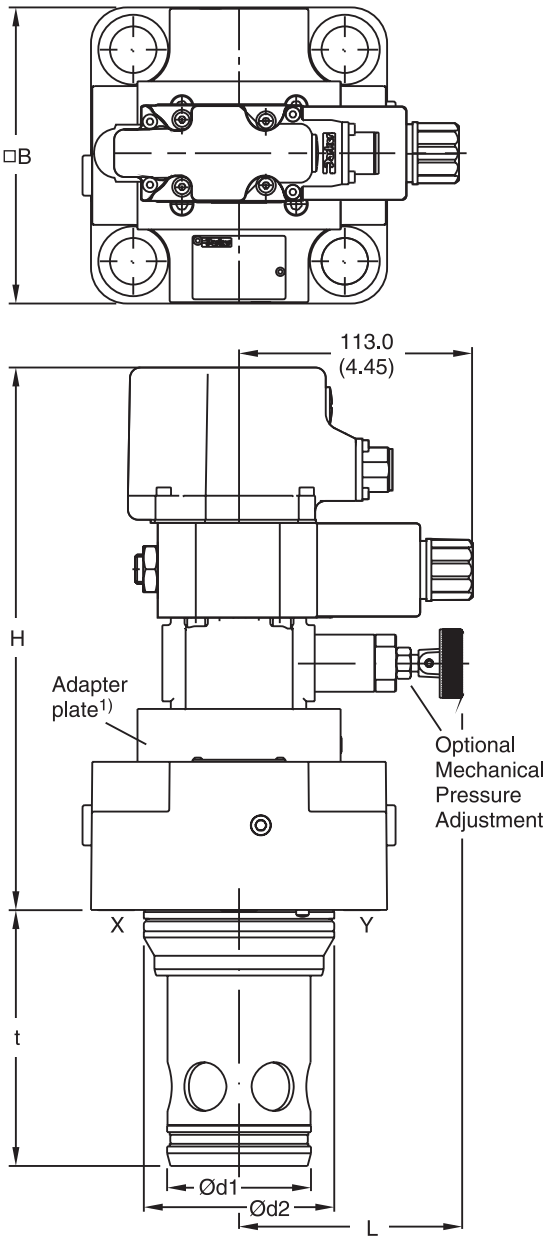


The parametrizing cable may be ordered under item no. 40982923.

NG16 - NG32



NG40 - NG63

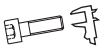


1) NG40 without Adapter Plate

Inch equivalents for millimeter dimensions are shown in (**)

Size	H	B	d1	d2	t
NG16	177.0 (6.97)	79.0 [1] (3.11)	32.0 (1.26)	25.0 (0.98)	56.0 (2.20)
NG25	122.0 (4.80)	85.0 (33.5)	45.0 (1.77)	34.0 (1.34)	72.0 (2.83)
NG32	127.0 (5.00)	102.0 (4.02)	60.0 (2.36)	45.0 (1.77)	85.0 (3.35)
NG40	137.0 (5.39) [2] 179.0 (7.05) [2]	125.0 (4.92)	75.0 (2.95)	55.0 (2.17)	105.0 (4.13)
NG50	172.0 (6.77) [2] 214.0 (8.43) [2]	140.0 (5.51)	90.0 (3.54)	68.0 (2.68)	122.0 (4.80)
NG63	187.0 (7.36) [2] 229.0 (9.02) [2]	180.0 (7.09)	120.0 (4.72)	90.0 (3.54)	155.0 (6.10)

[1] Width 65mm (2.56 in.)
[2] With mechanical maximum adjustment

NG	Bolt Kit - 		Kit	
			Nitrile	Fluorocarbon
16	BK414 (BK84)	33 Nm (24.3 lb.-ft.)	SK-RE16E	SK-RE16EV
25	BK391 (BK77)	115 Nm (84.8 lb.-ft.)	SK-RE25E	SK-RE25EV
32	BK415 (B K85)	281 Nm (207.2 lb.-ft.)	SK-RE32E	SK-RE32EV
40	BK416 (BK86)	553 Nm (407.8 lb.-ft.)	SK-RE40E	SK-RE40EV
50	BK417 (BK87)	553 Nm (407.8 lb.-ft.)	SK-RE50E	SK-RE50EV
63	BK418 (BK88)	1910 Nm (1408.6 lb.-ft.)	SK-RE63E	SK-RE63EV