



PMC LONE STAR

API OIL COUNTRY GAGES PRODUCT OVERVIEW



QUALITY ★ SERVICE ★ RESPONSIBILITY



Licensed under
Specs 5B 7 & 11B





PMC LONE STAR

PMC Lone Star offers a wide range of products manufactured to the highest quality possible. All of the gages manufactured by PMC Lone Star have one thing in common: unmatched accuracy and durability. Field proven for almost a century, our master and working gages meet and exceed specifications established by the American Petroleum Institute (A.P.I.) and are used as the benchmark for calibration by the National Institute of Standards Technology (N.I.S.T.). PMC Lone Star strives to offer our customers the highest possible value when it comes to their gaging requirements. PMC Lone Star maintains the most complete source of Master Gages outside of N.I.S.T. All of our gages are made of tool steel hardened to Rockwell C 60-62 and are cryogenically frozen to insure their stability. Each gage is put through a series of in-process and final inspections with tolerances to ± 0.0002 of an inch ($\pm 5 \mu\text{m}$). We then qualify each gage using a certified master gage, and provide a calibration report detailing the measured dimensions and the serial number of the master gage used for the inspection. The quality and reliability of our gages have made them the overwhelming choice of coupling shops, pipe and tube mills around the world. PMC Lone Star stands ready with a trained staff of gage experts to help you accomplish all of your gaging needs, whether they are API sanctioned threads or premium proprietary connections. We look forward to serving your needs today and in the future.

A handwritten signature in black ink, appearing to read "NBB", is written over a horizontal line.

Nick Bosworth
President
PMC Lone Star

For more information on what PMC Lone Star can do for your company,
please feel free to contact any one of our technical sales staff at:

Authorized Distributor

SUNRICH Technologies

WWW.SUNRICHTEC.COM



PMC LONE STAR

PROVIDING GAGE SOLUTIONS SINCE 1912

PRODUCTS & SERVICES

API Rotary Tool Joint Plug & Ring Gages

API Numbered Rotary Shouldered Connections

API Standard Casing Gages, Pipe Gages, & Tubing Gages

Thread Profile Gages

Negative Flank (Hook) Thread Gages

Premium Proprietary Thread Gages

Tapered Cylindrical Plug & Ring Gages

Re-certification of API Work & Master Gages

Re-certification of Customer Specials

Re-certification of ANSI/ASME Thread Plug & Ring Gages

Re-certification of Cylindrical Plug & Ring Gages

Re-certification of Tapered Cylindrical Plug & Ring Gages

Authorized Distributor of Gagemaker

Authorized Distributor of Allen Gauge and Tool Company

Custom Made Gage Storage Cases



API SPEC 5B GAGES WORKING/MASTERS

| CASING | | |
|--------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 4-1/2* | 8 | 3/4 |
| 5* | 8 | 3/4 |
| 5-1/2* | 8 | 3/4 |
| 6-5/8* | 8 | 3/4 |
| 7* | 8 | 3/4 |
| 7-5/8* | 8 | 3/4 |
| 8-5/8* | 8 | 3/4 |
| 9-5/8* | 8 | 3/4 |
| 10-3/4 | 8 | 3/4 |
| 11-3/4 | 8 | 3/4 |
| 13-3/8 | 8 | 3/4 |
| 16 | 8 | 3/4 |
| 18-5/8 | 8 | 3/4 |
| 20* | 8 | 3/4 |

(*) Short / Long Casing is available for working rings



| BUTTRASS CASING | | |
|-----------------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 4-1/2 | 5 | 3/4 |
| 5 | 5 | 3/4 |
| 5-1/2 | 5 | 3/4 |
| 5-3/4 | 5 | 3/4 |
| 6-5/8 | 5 | 3/4 |
| 7 | 5 | 3/4 |
| 7-5/8 | 5 | 3/4 |
| 8-5/8 | 5 | 3/4 |
| 9-5/8 | 5 | 3/4 |
| 10-3/4 | 5 | 3/4 |
| 11-3/4 | 5 | 3/4 |
| 13-3/8 | 5 | 3/4 |
| 16 | 5 | 1 |
| 18-5/8 | 5 | 1 |
| 20 | 5 | 1 |



| UPSET (E.U.E) / NON-UPSET (N.U.E) TUBING | | | |
|--|--------------|------------------|--------|
| SIZE | UPSET T.P.I. | NON-UPSET T.P.I. | T.P.F. |
| 1.050 | 10 | 10 | 3/4 |
| 1.315 | 10 | 10 | 3/4 |
| 1.660 | 10 | 10 | 3/4 |
| 1.900 | 10 | 10 | 3/4 |
| 2-3/8* | 8 | 10 | 3/4 |
| 2-7/8* | 8 | 10 | 3/4 |
| 3-1/2* | 8 | 10 | 3/4 |
| 4* | 8 | 8 | 3/4 |
| 4-1/2* | 8 | 8 | 3/4 |



(*) Step blocks are available for working rings

1.315, 1.660 and 1.900 I.J. Tubing Gages are identical to Non-Upset Tubing Gages of the same size and may be used interchangeably. The 2.063 I.J. Tubing Gages are identical to the 1.900 Upset Tubing Gages and may be used interchangeably. The 1.050 Upset Tubing Gages, the 1.315 Non-Upset Tubing Gages, and the 1.315 I.J. Tubing Gages are identical and may be used interchangeably

| EXTREME LINE CASING | | |
|---------------------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 5 | 6 | 1-1/2 |
| 5-1/2 | 6 | 1-1/2 |
| 6-5/8 | 6 | 1-1/2 |
| 7 | 6 | 1-1/2 |
| 7-5/8 | 6 | 1-1/2 |
| 8-5/8 | 5 | 1-1/4 |
| 9-5/8 | 5 | 1-1/4 |
| 10-3/4 | 5 | 1-1/4 |

| LINE PIPE | | |
|-----------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 1/8 | 27 | 3/4 |
| 1/4 | 18 | 3/4 |
| 3/8 | 18 | 3/4 |
| 1/2 | 14 | 3/4 |
| 3/4 | 14 | 3/4 |
| 1 | 11-1/2 | 3/4 |
| 1-1/4 | 11-1/2 | 3/4 |
| 1-1/2 | 11-1/2 | 3/4 |
| 2 | 11-1/2 | 3/4 |
| 2-1/2 | 8 | 3/4 |
| 3 | 8 | 3/4 |
| 3-1/2 | 8 | 3/4 |
| 4 | 8 | 3/4 |
| 5 | 8 | 3/4 |
| 6 | 8 | 3/4 |
| 8 | 8 | 3/4 |
| 10 | 8 | 3/4 |
| 12 | 8 | 3/4 |
| 14 | 8 | 3/4 |
| 16 | 8 | 3/4 |
| 18 | 8 | 3/4 |
| 20 | 8 | 3/4 |

API SPEC 7 GAGES WORKING/MASTERS



| REGULAR ROTARY | | | |
|----------------|--------|--------|----------|
| SIZE | T.P.I. | T.P.F. | THD FORM |
| 1 | 6 | 1.5 | V-0.055 |
| 1-1/4 | 7 | 2 | V-0.020 |
| 1-1/2 | 6 | 1.5 | V-0.055 |
| 2-3/8 | 5 | 3 | V-0.040 |
| 2-7/8 | 5 | 3 | V-0.040 |
| 3-1/2 | 5 | 3 | V-0.040 |
| 4-1/2 | 5 | 3 | V-0.040 |
| 5-1/2 | 4 | 3 | V-0.050 |
| 6-5/8 | 4 | 2 | V-0.050 |
| 7-5/8 | 4 | 3 | V-0.050 |
| 8-5/8 | 4 | 3 | V-0.050 |

| NUMBERED CONNECTIONS (N.C.) | | | |
|-----------------------------|--------|--------|----------|
| SIZE | T.P.I. | T.P.F. | THD FORM |
| NC10 | 6 | 1-1/2 | V-0.055R |
| NC12 | 6 | 1-1/2 | V-0.055R |
| NC13 | 6 | 1-1/2 | V-0.055R |
| NC16 | 6 | 1-1/2 | V-0.055R |
| NC23 | 4 | 2 | V-0.038R |
| NC26 (2-3/8 I.F.) | 4 | 2 | V-0.038R |
| NC31 (2-7/8 I.F.) | 4 | 2 | V-0.038R |
| NC35 | 4 | 2 | V-0.038R |
| NC38 (3-1/2 I.F.) | 4 | 2 | V-0.038R |
| NC40 (4 FH) | 4 | 2 | V-0.038R |
| NC44 | 4 | 2 | V-0.038R |
| NC46 | 4 | 2 | V-0.038R |
| NC50 (4-1/2 IF) (5 XH) | 4 | 2 | V-0.038R |
| NC56 | 4 | 3 | V-0.038R |
| NC61 | 4 | 3 | V-0.038R |
| NC70 | 4 | 3 | V-0.038R |
| NC77 | 4 | 3 | V-0.038R |

| INTERNAL FLUSH (I.F.) | | | |
|-----------------------|--------|--------|----------|
| SIZE | T.P.I. | T.P.F. | THD FORM |
| 2 | 4 | 2 | V-0.065 |
| 2-3/8 (NC26) | 4 | 2 | V-0.065 |
| 2-7/8 (NC31) | 4 | 2 | V-0.065 |
| 3-1/2 (NC38) | 4 | 2 | V-0.065 |
| 4 (NC46) (4-1/2 XH) | 4 | 2 | V-0.065 |
| 4-1/2 (NC50) (5 XH) | 4 | 2 | V-0.065 |
| 5-1/2 | 4 | 2 | V-0.065 |
| 6-5/8 | 4 | 2 | V-0.065 |

| FULL HOLE (F.H.) | | | |
|------------------|--------|--------|----------|
| SIZE | T.P.I. | T.P.F. | THD FORM |
| 2-7/8 | 5 | 3 | V-0.040 |
| 3-1/2 | 5 | 3 | V-0.040 |
| 4 (NC40) | 4 | 2 | V-0.065 |
| 4-1/2 | 5 | 3 | V-0.040 |
| 5-1/2 | 4 | 2 | V-0.050 |
| 6-5/8 | 4 | 2 | V-0.050 |



API SPEC 11B GAGES WORKING/MASTERS



MASTER SUCKER ROD & POLISHED ROD GAGES

| DESCRIPTION | SIZE | | | | | |
|---------------------------|------|-----|-----|-----|---|-------|
| P-1 GO PLUG MASTER | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| P-2 GO RING MASTER | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| P-3 PIN CONE PLUG MASTER | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| P-4 REF. RING FOR PIN | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| P-5 MASTER NO GO PIN PLUG | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| P-6 REF. NO GO PIN RING | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| P-7 MASTER GO PIN PLUG | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| P-8 REF. GO PIN RING | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| B-1 MASTER GO RING | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| B-2 REF. GO PLUG | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| B-3 MASTER CONE RING | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| B-4 REF. PLUG | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| B-5 MASTER NO GO RING | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| B-6 REF. NO GO PLUG | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |

WORKING SUCKER ROD & POLISHED ROD GAGES

| DESCRIPTION | SIZE | | | | | |
|-----------------------------|------|-----|-----|-----|---|-------|
| P-2 GO RING | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| P-4 RING FOR PIN CONE | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| P-6 NO GO RING FOR PIN CONE | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| P-8 GO PIN RING | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| B-2 GO PLUG | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| B-4 PLUG | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |
| B-6 NO GO PLUG | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 |

API SPEC 11AX GAGES WORKING/MASTERS



L-THREAD

| SIZE | T.P.I. | T.P.F. |
|------|--------|--------|
| 3/8 | 18 | 3/4 |
| 1/2 | 14 | 3/4 |
| 3/4 | 14 | 3/4 |

B-THREAD

| SIZE | T.P.I. | T.P.F. |
|------|--------|--------|
| 178 | 11-1/2 | 3/8 |
| 225 | 11-1/2 | 3/4 |
| 275 | 11-1/2 | 3/4 |

MISC. CONNECTIONS

| HUGHES H-90 | | |
|-------------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 2-3/8SL | 3 | 1-1/4 |
| 2-7/8SL | 3 | 1-1/4 |
| 3-1/2SL | 3 | 1-1/4 |
| 3-1/2 | 3-1/2 | 2 |
| 4 | 3-1/2 | 2 |
| 4-1/2 | 3-1/2 | 2 |
| 5 | 3-1/2 | 2 |
| 5-1/2 | 3-1/2 | 2 |
| 6-5/8 | 3-1/2 | 2 |
| 7 | 3-1/2 | 3 |
| 7-5/8 | 3-1/2 | 3 |
| 8-5/8 | 3-1/2 | 3 |

| MACARONI TUBING (M.T.) | | |
|------------------------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 3/4 | 6 | 1-1/2 |
| 1 (1 REG) | 6 | 1-1/2 |
| 1-1/4 | 6 | 1-1/2 |
| 1-1/2 (1-1/2 REG) | 6 | 1-1/2 |
| 2-1/16 | 6 | 1-1/2 |

| WILSON FLUSH JOINT (W.F.J.) | | |
|-----------------------------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 1-13/16 | 7 | 2 |
| 2-3/8 | 6 | 2 |

| BECO | | |
|-------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 3 | 2 | 3 |
| 3-1/2 | 2 | 3 |
| 4 | 2 | 3 |
| 4-1/2 | 2 | 3 |
| 5-1/4 | 2 | 3 |
| 6 | 2 | 3 |
| 7 | 2 | 3 |
| 8 | 2 | 3 |
| 10 | 2 | 3 |

| IMPROVED BUTTRESS | | |
|-------------------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 2 | 8 | 3/4 |
| 2-3/8 | 8 | 3/4 |
| 2-7/8 | 8 | 3/4 |
| 3-1/2 | 8 | 3/4 |
| 4 | 8 | 3/4 |
| 4-1/2 | 8 | 3/4 |
| 5-1/2 | 8 | 3/4 |

| DI-22 | | |
|--------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 4-3/4 | 2 | 1-1/2 |
| 5-1/4 | 2 | 1-1/2 |
| 5-3/4 | 2 | 1-1/2 |
| 6-3/4 | 2 | 1-1/2 |
| 8-1/4 | 2 | 1-1/2 |
| 9-1/4 | 2 | 1-1/2 |
| 9-3/4 | 2 | 1-1/2 |
| 10-1/2 | 1-5/8 | 1-1/2 |

| AMERICAN OPEN HOLE (A.O.H.) | | |
|-----------------------------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 2-3/8 | 4 | 1-1/2 |
| 2-7/8 | 4 | 1-1/2 |
| 3-1/2 | 4 | 1-1/2 |
| 4 | 4 | 1-1/2 |
| 4-1/2 | 4 | 1-1/2 |

| PAC | | |
|-------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 2-3/8 | 4 | 1-1/2 |
| 2-7/8 | 4 | 1-1/2 |
| 3-1/2 | 4 | 1-1/2 |

| MAYHEW | | |
|-----------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 2-3/8 JR | 4 | 2 |
| 2-3/8 REG | 4 | 1-1/2 |
| 2-7/8 FH | 4 | 1-1/2 |

| XTRA HOLE (X.H.) | | |
|------------------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 2-7/8 | 4 | 2 |
| 3-1/2 | 4 | 2 |

| FEDP | | |
|-------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 2-3/8 | 4 | 2TPF |
| 2-7/8 | 4 | 2TPF |

| HUGHES EXTERNAL FLUSH (H.E.F.) | | |
|--------------------------------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 2-3/8 | 6 | 2 |
| 2-7/8 | 6 | 2 |
| 3-1/2 | 4 | 2 |
| 4-1/2 | 4 | 2 |

| SHARP -VEE TUBING UPSET / NON-UPSET | | | |
|-------------------------------------|--------------|-------------------|--------|
| SIZE | UPSET T.P.I. | NON -UPSET T.P.I. | T.P.F. |
| 1-1/4 | 11-1/2 | - | 3/4 |
| 1-1/2 | 11-1/2 | 11-1/2 | 3/4 |
| 2 | 10 | 11-1/2 | 3/4 |
| 2-1/2 | 10 | 11-1/2 | 3/4 |
| 3 | 10 | 11-1/2 | 3/4 |
| 3-1/2 | 10 | 10 | 3/4 |
| 4 | 10 | 10 | 3/4 |

| DI-42 | | |
|--------|--------|--------|
| SIZE | T.P.I. | T.P.F. |
| 9-3/4 | 2 | 1 |
| 10-1/8 | 2 | 1 |

THREAD PROFILE GAGES



| Profile Gage # | Will Check the Following Connections | Thread Form |
|----------------|---|----------------------|
| PG-453 | API REG: 2-3/8" thru 4-1/2" API FULL HOLE: 3-1/2", 4-1/2" | V.040 5TPI 3TPF |
| PG-542 | API REGULAR: 6-5/8" API FULL HOLE: 5-1/2", 6-5/8" | V.050 4TPI 2TPF |
| PG-543 | API REGULAR: 5-1/2", 7-5/8", 8-5/8" | V.050 4TPI 3TPF |
| PG-642 | API INTERNAL FLUSH: 2-3/8" thru 5-1/2" API FULL HOLE: 4" HUGHES EXTRA HOLE : 2-7/8" thru 5" HUGHES SLIM HOLE: 2-3/8" thru 4-1/2" | V.065 4 TPI 2 TPF |
| PG-NC-23-50 | API NUMBERED CONNECTIONS #23 thru #50 | V.038R 4TPI 2TPF |
| PG-NC-56-77 | API NUMBERED CONNECTIONS #56 thru #77 | V.038R 4 TPI 3 TPF |
| PG-NC-10-16 | API NUMBERED CONNECTIONS #10, #12, #13, #16 MACARONI TUBING 3/4", 1-1/4", 1-1/2" | V.055 6TPI 1-1/2TPF |
| PG-076 | AMERICAN OPEN HOLE: 2-3/8" thru 4-1/2" | V.076 4TPI 1-1/2TPF |
| PG-935-2 | HUGHES H-90: 3-1/2" thru 6-5/8" | H-90 3-1/2TPI 2TPF |
| PG-935-3 | HUGHES H-90: 7" thru 8-5/8" | H-90 3-1/2TPI 3TPF |
| PG-931-1/4" | HUGHES SLIM LINE : 2-3/8" thru 3-1/2" | H-90 3 TPI 1-1/4TPF |
| PG-415 | PAC CONNECTIONS: 2-3/8" thru 3-1/2" | V.076 4TPI 1-1/2TPF |
| PG-HEF | HUGHES EXTERNAL FLUSH 2-3/8", 2-7/8" | 6TPI 2TPF |
| PG-1-1/4-REG | 1-1/4" REGULAR | 7TPI 2TPF |
| PG-1-13/16WFJ | 1-13/16" WILSON FLUSH JOINT | 7TPI 2TPF |
| PG-2-3/8-WFJ | 2-3/8" WILSON FLUSH JOINT | 6TPI 2TPF |
| PG-8RF | ALL API 8RF CSG TBG DRILL PIPE | 8RD FORM 3/4TPF |
| PG-10RF | ALL API STANDARD TUBING 10RF THREAD | 10RD FORM 3/4TPF |
| PG-8B75 | IMPROVED BUTTRESS | 8TPI 3/4TPF |
| PG-8V | 8V THREAD API LINE PIPE 2-1/2" thru 20" ALSO FOR AMERICAN STANDARD NPT: thru 20" | 8V 3/4TPF |
| PG-11-1/2V | THREAD API LINE PIPE: 1" thru 2" ALSO FOR AMERICAN STANDARD NPT | 11-1/2TPI 3/4TPF |
| PG-5B75-INT | API BUTTRESS CASING: 4-1/2" thru 13-3/8" INTERNAL | 5TPI BUTTRESS 3/4TPF |
| PG-5B75-EXT | API BUTTRESS CASING: 4-1/2" thru 13-3/8" EXTERNAL | 5TPI BUTTRESS 3/4TPF |
| PG-5B1-INT | API BUTTRESS CASING: 16" AND LARGER INTERNAL | 5TPI BUTTRESS 1TPF |
| PG-5B1-EXT | API BUTTRESS CASING: 16" AND LARGER EXTERNAL | 5TPI BUTTRESS 1TPF |
| PG-6150-INT | EXTREME LINE CASING: 5" thru 7-5/8" INTERNAL | 6TPI 1-1/2TPF |
| PG-6150-EXT | EXTREME LINE CASING: 5" thru 7-5/8" EXTERNAL | 6TPI 1-1/2TPF |
| PG-5125-INT | EXTREME LINE CASING: 8-5/8" thru 10-3/4" INTERNAL | 5TPI 1-1/4TPF |
| PG-5125-EXT | EXTREME LINE CASING: 8-5/8" thru 10-3/4" EXTERNAL | 5TPI 1-1/4TPF |
| PG-BECO | BECO | 2TPI 3TPF |
| PG-DI-22-1.625 | DI-22 CONNECTIONS: 10-1/2" | 1-5/8TPI 1-1/2TPF |
| PG-DI-22-2 | DI-22 CONNECTIONS: 4-3/4" thru 9-1/4" | 2TPI 1-1/2TPF |
| PG-DI-42 | DI-42 CONNECTIONS: 9-3/4", 10-1/8" | 2TPI 1TPF |
| PG-0500 | PROFILE GAGE | V.038R 4TPI 1/2TPF |
| PG-0750 | PROFILE GAGE | V.038R 4TPI 3/4TPF |
| PG-1000 | PROFILE GAGE | V.038R 4TPI 1TPF |
| PG-1250 | PROFILE GAGE | V.038R 4TPI 1-1/4TPF |
| PG-1500 | PROFILE GAGE | V.038R 4TPI 1-1/2TPF |

STANDARD STUB, NATIONAL ACME & UNIFIED AS LISTED

ANY OTHER PITCH IS SPECIAL

PG-2SA, PG-4SA, PG-5SA, PG-6SA, PG-8SA, PG-10SA, PG-12SA

PG-4NA, PG-5NA, PG-6NA, PG-8NA, PG-10NA, PG-12NA, PG-16NA,

PG-6UN, PG-8UN, PG-12UN, PG-16UN