

CUSTOMER NAME

CUSTOMER SIGNATURE

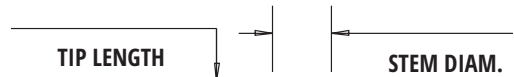
DATE / /

A WEAR CAP IS NOT NECESSARY WITH GEN II\*

PLEASE FILL IN ALL DIMENSIONS AND ORDER INFORMATION

USE BLANK P/N \_\_\_\_\_

CYLINDER HEAD \_\_\_\_\_



GROOVE TYPE

- CONVENTIONAL SQUARE
- BEAD LOC® ( STD. R.055" )
- CHEVY LS (R.060")
- OTHER - SPECIFY \_\_\_\_\_
- ROOT DIAMETER \_\_\_\_\_
- RADIUS \_\_\_\_\_
- GROOVE WIDTH \_\_\_\_\_

OVERALL LENGTH

1ST BACK CUT

WIDTH \_\_\_\_\_

ANGLE \_\_\_\_\_

SEAT

WIDTH \_\_\_\_\_

ANGLE \_\_\_\_\_

EDGE

- SHARP
- BREAK \_\_\_\_\_
- CORNER RADIUS \_\_\_\_\_

DISH

ANGLE \_\_\_\_\_

RIM WIDTH \_\_\_\_\_

MARGIN \_\_\_\_\_

HEAD DIAM.

By signing this form I accept the goods are nonreturnable for credit and that Manley takes no responsibility for incorrectly ordered items.

\* Provided that the overall length is within the minimum length parameter of the Gen II blank that is machined.



PHONE: 732-905-3366

FAX: 732-905-3010

EMAIL: sales@manleyperformance.com

ORDER INFORMATION

CUST. #: \_\_\_\_\_

CUST. NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

P.O.#: \_\_\_\_\_

W.O.#: \_\_\_\_\_

QTY.: \_\_\_\_\_

DUE DATE: \_\_\_\_\_

SHIP VIA: \_\_\_\_\_

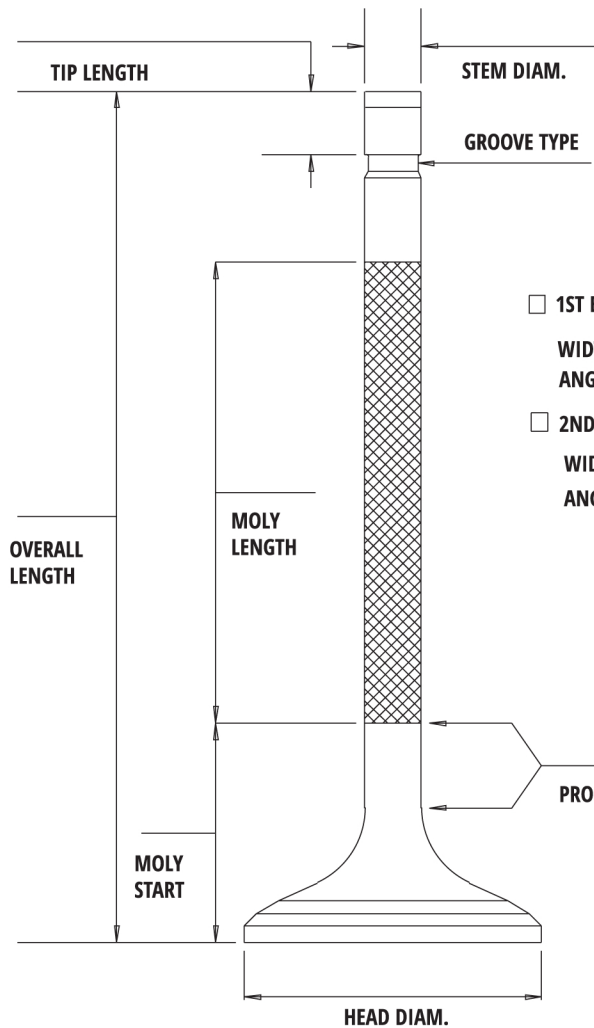
# Titanium CUSTOM VALVE FORM

- WITH HARD TIP P/N \_\_\_\_\_
- WITHOUT HARD TIP \_\_\_\_\_

USE BLANK P/N \_\_\_\_\_  
CYLINDER HEAD \_\_\_\_\_

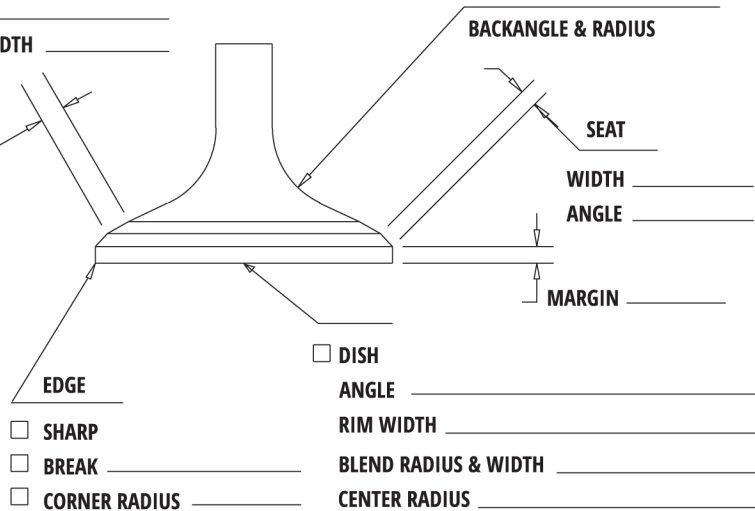
**CrN COATING OPTIONS**

- PREMIUM (CALICO)     STANDARD
- SEAT FACE
- TIP
- STEM (PREMIUM ONLY)



- CONVENTIONAL SQUARE
- BEAD LOC® ( STD. R.055" )
- CHEVY LS (R.060")
- OTHER - SPECIFY \_\_\_\_\_
- ROOT DIAMETER \_\_\_\_\_
- RADIUS \_\_\_\_\_
- GROOVE WIDTH \_\_\_\_\_

- 1ST BACK CUT
- WIDTH \_\_\_\_\_
- ANGLE \_\_\_\_\_
- 2ND BACK CUT
- WIDTH \_\_\_\_\_
- ANGLE \_\_\_\_\_



- SHARP
- BREAK \_\_\_\_\_
- CORNER RADIUS \_\_\_\_\_

- STRAIGHT LENGTH \_\_\_\_\_
- TAPER ANGLE \_\_\_\_\_
- MZ LENGTH \_\_\_\_\_
- BLEND RADIUS \_\_\_\_\_
- UNDERCUT DIAM. \_\_\_\_\_

PROFILE



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PLEASE FILL IN ALL DIMENSIONS AND ORDER INFORMATION

**ORDER INFORMATION**

CUST. #: \_\_\_\_\_  
CUST. NAME: \_\_\_\_\_  
DATE: \_\_\_\_\_  
P.O.#: \_\_\_\_\_  
W.O.#: \_\_\_\_\_  
QTY.: \_\_\_\_\_  
DUE DATE: \_\_\_\_\_  
SHIP VIA: \_\_\_\_\_

By signing this form I accept the goods are nonreturnable for credit and that Manley takes no responsibility for incorrectly ordered items.

CUSTOMER SIGNATURE

CUSTOMER NAME

DATE

\_\_\_\_ / \_\_\_\_ / \_\_\_\_

## Gen II Valve Blanks

### Extreme Duty & Severe Duty® Series

- ▶ Hard Tips and Hardened Grooves
- ▶ No Need for Inserted Tips or Wear Caps

The procedure for ordering a custom valve is as simple as 1-2-3!

1. Select the blank appropriate for your finished piece based first on stem diameter.
2. Give us your final head diameter along with the seat and margin widths.
3. Specify the length of the valve you want, along with groove type and location.

\* Part numbers with asterisks can be reduced 1.500" or 38mm, except P/N's 11223/11277 which can be reduced 1.800".

All others .800" or 20.32mm.

All Gen II custom stainless valve part numbers are priced to include all machining to render a finished valve provided that no more than .250" of material needs to be removed from the head diameter. If more than .250" of material is to be removed from the head diameter, then an additional machining charge P/N 04007 must be added to the price of the valve.



Part No.	Type	Maximum Head Diameter	Stem Diameter	Maximum Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Material
<b>XTREMEALLOY GEN II CUSTOM EXHAUST VALVES</b>									
11225-8*	Exh.	41.3mm / 1.625	.3415	142.2mm / 5.600	15° x 1/2"	.080	.100	9° Dish	XtremeAlloy
11223-8*	Exh.	52.3mm / 2.060	.3415	170.2mm / 6.700	15° x 1/2"	.080	.100	9° Dish	XtremeAlloy
11277-8*	Exh.	52.3mm / 2.060	.3415	170.2mm / 6.700	18° x 1/2"	.080	.100	Flat Face	XtremeAlloy
11275-8*	Exh.	42.0mm / 1.654	8.0mm / .3136	142.2mm / 5.600	25° x 7/16"	.065	.100	18° Dish	XtremeAlloy
11257-8	Exh.	44.5mm / 1.750	.3095	137.2mm / 5.400	25° x 3/8"	.060	.100	20° Dish	XtremeAlloy
11281-8*	Exh.	38.0mm / 1.496	6.96mm / .2740	127.0mm / 5.000	15° x 1/2"	.080	.100	9° Dish	XtremeAlloy
11265-8*	Exh.	39.0mm / 1.535	5.96mm / .2345	121.9mm / 4.800	25° x 11/32"	.080	.100	20° Dish	XtremeAlloy
<b>SEVERE DUTY® GEN II CUSTOM VALVES</b>									
11251-8	Exh.	49.3mm / 1.940	.3715	143.5mm / 5.650	12° x 3/8"	.085	.100	7° Dish	XH-428
11252-8*	Int.	58.4mm / 2.300	.3720	142.2mm / 5.600	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	NK-844
11252H-8*	Int.	58.4mm / 2.300	.3720 Hollow Stem	142.2mm / 5.600	Pro Flo: 12° x 7/16"	.065	.080	7° Dish	NK-844
Pro Flo start is 1.600" from the top of the head.									
11245-8	Exh.	41.3mm / 1.625	.3415	143.3mm / 5.640	15° x 1/2"	.090	.100	9° Dish	XH-428
11255-8	Exh.	41.3mm / 1.625	.3415	143.3mm / 5.640	30° x 1/2"	.070	.100	25° Dish	XH-428
11253-8	Exh.	49.3mm / 1.940	.3415	143.5mm / 5.650	12° x 3/8"	.075	.080	7° Dish	XH-428
11221-8	Exh.	50.8mm / 2.000	.3415	170.2mm / 6.700	25° x 3/8"	.080	.100	20° Dish	XH-428
11219-8	Exh.	52.3mm / 2.060	.3415	170.2mm / 6.700	15° x 1/2"	.080	.100	9° Dish	XH-428
11256-8*	Int.	52.8mm / 2.080	.3415	143.3mm / 5.640	10° x 3/8"	.065	.080	5° Dish	NK-844
11254-8*	Int.	54.6mm / 2.150	.3415	143.3mm / 5.640	12° x 3/8"	.065	.080	7° Dish	NK-844
11254H-8*	Int.	54.6mm / 2.150	.3415 Hollow Stem	143.3mm / 5.640	12° x 3/8"	.065	.080	7° Dish	NK-844
11242-8*	Int.	54.6mm / 2.150	.3415	143.6mm / 5.655	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	NK-844
Pro Flo start is 1.600" from the top of the head.									
11258-8*	Int.	61.6mm / 2.425	.3415	144.8mm / 5.700	12° x 3/8"	.065	.080	7° Dish	NK-844
11220-8*	Int.	63.5mm / 2.500	.3415	172.7mm / 6.800	10° x 3/8"	.050	.080	5° Dish	NK-844
11222-8*	Int.	61.6mm / 2.425	.3415	170.2mm / 6.700	20° x 3/8"	.050	.080	15° Dish	NK-844
11279-8*	Exh.	42.0mm / 1.654	8.0mm / .3136	142.2mm / 5.600	25° x 7/16"	.065	.100	18° Dish	XH-428
11274-8*	Int.	57.2mm / 2.250	8.0mm / .3133	142.2mm / 5.600	Pro Flo: 12° x 3/8"	.060	.095	7° Dish	NK-844
11274H-8*	Int.	57.2mm / 2.250	8.0mm / .3133 Hollow Stem	142.2mm / 5.600	Pro Flo: 12° x 3/8"	.060	.095	7° Dish	NK-844
Pro Flo start is 1.300" from the top of the head.									
11227-8	Exh.	41.3mm / 1.625	.3110	146.1mm / 5.750	15° x 1/2"	.080	.100	9° Dish	XH-428
11263-8	Exh.	49.3mm / 1.940	.3110	154.9mm / 6.100	12° x 3/8"	.085	.100	7° Dish	XH-428
11224-8*	Int.	55.9mm / 2.200	.3110	146.1mm / 5.750	12° x 3/8"	.050	.080	7° Dish	NK-844
11224H-8*	Int.	55.9mm / 2.200	.3110 Hollow Stem	146.1mm / 5.750	12° x 3/8"	.050	.080	7° Dish	NK-844
11264-8*	Int.	61.0mm / 2.400	.3110	160.0mm / 6.300	10° x 3/8"	.065	.080	5° Dish	NK-844
11264H-8*	Int.	61.0mm / 2.400	.3110 Hollow Stem	160.0mm / 6.300	10° x 3/8"	.065	.080	5° Dish	NK-844
11229-8	Exh.	41.3mm / 1.625	6.96mm / .2740	142.2mm / 5.600	15° x 1/2"	.080	.100	9° Dish	XH-428
11226-8*	Int.	55.9mm / 2.200	6.96mm / .2740	142.2mm / 5.600	10° x 3/8"	.050	.080	5° Dish	NK-844

Part numbers 11274 and 11274H have a 50° seat angle, all others are 45°.

## Gen II Valve Blanks

### Race Series

- ▶ Hard Tips and Hardened Grooves
- ▶ No Need for Inserted Tips or Wear Caps

The procedure for ordering a custom valve is as simple as 1-2-3 !

1. Select the blank appropriate for your finished piece based first on stem diameter.
2. Give us your final head diameter along with the seat and margin widths.
3. Specify the length of the valve you want, along with groove type and location.

\* Part numbers with asterisks can be reduced 1.500" or 38mm. All others .800" or 20.32mm.

All Gen II custom stainless valve part numbers are priced to include all machining to render a finished valve provided that no more than .250" of material needs to be removed from the head diameter. If more than .250" of material is to be removed from the head diameter, then an additional machining charge P/N 04007 must be added to the price of the valve.



Part No.	Type	Maximum Head Diameter	Stem Diameter	Maximum Length	Underhead Angle / Radius	Margin	Seat Width	Top of Head	Material
11215-8	Exh.	49.3mm / 1.940	.3715	143.5mm / 5.650	15° x 1/2"	.080	.100	9° Dish	XH-426
11214-8	Int.	61.6mm / 2.425	.3715	143.5mm / 5.650	12° x 3/8"	.050	.080	7° Dish	NK-842
11203-8	Exh.	41.3mm / 1.625	.3415	139.7mm / 5.500	15° x 1/2"	.090	.100	9° Dish	XH-426
11217-8	Exh.	41.9mm / 1.650	.3415	143.3mm / 5.640	Pro Flo: 15° x 1/2"	.090	.100	9° Dish	XH-426
Pro Flo start is 1.600" from the top of the head.									
11243-8	Exh.	48.3mm / 1.900	.3415	144.8mm / 5.700	25° x 3/8"	.080	.100	20° Dish	XH-426
11201-8	Exh.	49.3mm / 1.940	.3415	162.9mm / 6.415	25° x 3/8"	.080	.100	20° Dish	XH-426
11241-8	Exh.	49.3mm / 1.940	.3415	152.4mm / 6.000	10° x 3/8"	.075	.100	5° Dish	XH-426
11218-8	Int.	54.0mm / 2.125	.3415	140.7mm / 5.540	12° x 3/8"	.065	.080	7° Dish	NK-842
11216-8	Int.	54.6mm / 2.150	.3415	143.6mm / 5.655	Pro Flo: 12° x 3/8"	.065	.080	7° Dish	NK-842
Pro Flo start is 1.600" from the top of the head.									
11200-8	Int.	60.3mm / 2.375	.3415	144.8mm / 5.700	10° x 3/8"	.050	.080	5° Dish	NK-842
11244-8	Int.	61.6mm / 2.425	.3415	167.6mm / 6.600	10° x 3/8"	.050	.080	5° Dish	NK-842
11211-4	Exh.	38.5mm / 1.516	8.0mm / .3130	114.3mm / 4.500	15° x 3/8"	.060	.090	10° Dish	XH-426
11205-4	Exh.	40.0mm / 1.575	8.0mm / .3130	127.0mm / 5.000	15° x 1/2"	.080	.100	9° Dish	XH-426
11210-4	Int.	48.5mm / 1.909	8.0mm / .3130	114.3mm / 4.500	10° x 11/32"	.060	.080	5° Dish	NK-842
11204-4	Int.	52.0mm / 2.047	8.0mm / .3130	127.0mm / 5.000	10° x 3/8"	.050	.080	5° Dish	NK-842
11269-8*	Exh.	42.0mm / 1.654	8.0mm / .3136	142.2mm / 5.600	25° x 7/16"	.065	.100	18° Dish	XH-426
11270-8*	Int.	56.5mm / 2.225	8.0mm / .3133	142.2mm / 5.600	Pro Flo: 12° x 3/8"	.060	.095	7° Dish	NK-842
11270H-8*	Int.	56.5mm / 2.225	8.0mm / .3133 Hollow Stem	142.2mm / 5.600	Pro Flo: 12° x 3/8"	.060	.095	7° Dish	NK-842
Pro Flo start is 1.300" from the top of the head.									
11271-8	Exh.	42.6mm / 1.675	.3125	134.6mm / 5.300	25° x 1/2"	.080	.100	20° Dish	XH-426
11272-8	Int.	56.5mm / 2.225	.3125	134.6mm / 5.300	Pro Flo: 10° x 5/16"	.065	.095	5° Dish	NK-842
11272H-8	Int.	56.5mm / 2.225	.3125 Hollow Stem	134.6mm / 5.300	Pro Flo: 10° x 5/16"	.065	.095	5° Dish	NK-842
Pro Flo start is 1.300" from the top of the head.									
11207-8	Exh.	41.3mm / 1.625	.3110	144.8mm / 5.700	15° x 1/2"	.080	.100	9° Dish	XH-426
11261-8	Exh.	41.3mm / 1.625	.3110	162.6mm / 6.400	18° x 1/2"	.080	.100	12° Dish	XH-426
11206-8	Int.	55.9mm / 2.200	.3110	144.8mm / 5.700	10° x 3/8"	.050	.080	5° Dish	NK-842
11262-8	Int.	53.3mm / 2.100	.3110	162.6mm / 6.400	12° x 3/8"	.050	.080	7° Dish	NK-842
11249-8	Exh.	53.3mm / 2.100	.3100	137.2mm / 5.400	22° x 1/4"	.050	.100	17° Dish	XH-426
11248-8*	Int.	58.4mm / 2.300	.3100	149.9mm / 5.900	24° x 3/4"	.060	.080	19° Dish	NK-842
11247-8	Exh.	37.0mm / 1.457	6.96mm / .2740	121.9mm / 4.800	15° x 1/2"	.080	.100	9° Dish	XH-426
11246-8	Int.	48.0mm / 1.890	6.96mm / .2740	121.9mm / 4.800	10° x 3/8"	.050	.080	5° Dish	NK-842
11267-8	Exh.	41.9mm / 1.650	7.0mm / .2755	119.4mm / 4.700	30° x 1/2"	.060	.100	24° Dish	XH-426
11250-8*	Int.	48.0mm / 1.890	7.0mm / .2750	137.9mm / 5.430	10° x 3/8"	.065	.080	5° Dish	NK-842
11268-8	Int.	50.8mm / 2.000	7.0mm / .2755	116.8mm / 4.600	28° x 7/16"	.050	.100	22° Dish	NK-842
11213-8	Exh.	33.0mm / 1.299	6.0mm / .2362	113.5mm / 4.469	25° x 11/32"	.065	.080	20° Dish	XH-426
11212-8	Int.	39.0mm / 1.535	6.0mm / .2362	113.5mm / 4.469	Pro Flo: 22° x 5/16"	.065	.080	17° Dish	NK-842
11266-8*	Int.	35.0mm / 1.378	5.98mm / .2355	121.9mm / 4.800	12° x 5/16"	.065	.100	7° Dish	NK-842
11276-4	Int.	40.0mm / 1.575	5.97mm / .2350	113.0mm / 4.449	25° x 11/32"	.065	.100	Flat Face	NK-842
11209-8	Exh.	32.0mm / 1.260	5.46mm / .2150	121.0mm / 4.764	25° x 11/32"	.065	.080	Flat Face	XH-426
11208-8	Int.	37.0mm / 1.457	5.48mm / .2157	121.0mm / 4.764	Pro Flo: 22° x 5/16"	.065	.080	Flat Face	NK-842

**Manley Performance** can manufacture titanium valves for just about any application imaginable. Servicing your custom requirements is our specialty; we do it every single day and typically 8 pieces at a time.

We inventory an extensive selection of blanks in varying stem sizes with the stem coating correctly positioned to properly fit the multitude of aftermarket cylinder heads available. This allows us to maintain reliable and very reasonable turnaround times (typically 10 working days) throughout the year. If by chance we don't have a blank in stock to match your particular application, then don't worry. We'll simply make it from one of our raw forgings. This will lengthen the lead-time to 6 weeks.

For any stem size, groove type, machined (dished) combustion face or special head shape or seat cut, we're here to service your needs. Our customers' prints are proprietary and confidential.



Fluted Dish

## Ordering Manley Custom Titanium Valves is as easy as 1-2-3!

1. Refer to the blank valve print on page 45 of this catalog or on our website under the custom valve tab and fill in your desired specifications.
2. Please contact your inside or outside Manley salesperson to review your order.
3. Fax or email your approved prints to the factory for processing, specifying your account number, a purchase order number and quantity.

## Custom Hollow Stem Titanium Intake Valves

- ▶ Precision gun drilling
- ▶ Smooth surface finish
- ▶ Full radius at end of bore, no stress raisers
- ▶ Able to utilize a hard tool steel tip on 5/16" and larger stem diameter valves
- ▶ Extremely lightweight - 10-12% weight reduction

## Titanium Valve CrN Seat Face Coating

- ▶ High hardness and lubricity prevents valve seat face wear
- ▶ Prevents "trenching" of the seat face which maintains combustion seal
- ▶ Provides greater resistance to wear typically seen when valve float or dirt is present in the engine
- ▶ Better seal between the valve seat face and the seat in the cylinder head equals more horsepower

Manley Performance offers two CrN seat coating options: standard and premium (Calico). Both function perfectly; but the premium incorporates an advanced superpolish process rendering a jewel-like surface finish.



We offer certain shelf stock part numbers with CrN seat coating; look for the "C" suffix.

Titanium valve "tip" coating is also available for applications not utilizing a "press in" hard tip (prevents tip wear from lash cap).

Custom titanium valves with a premium CrN stem coating (in lieu of moly) are also available.

Contact your salesperson for ordering details