

# PENBERTHY

## application report

Section 2000  
 Application Report 2800.1  
 Issued 05/05  
 Replaces NEW

For: **FLAT GLASS GAGECOCK PRESSURE/TEMPERATURE RATINGS USING STANDARD PACKING MATERIAL<sup>A</sup>**

FOR 100, 200, 300, AND 400 SERIES GAGECOCKS										
MAXIMUM WORKING PRESSURE PSIG [kPa] AT TEMPERATURES UP TO:										
Material of Construction	-300°F [-184°C]	-150°F [-101°C]	-20°F [-29°C]	100°F [38°C]	200°F [93°C]	300°F [149°C]	400°F [204°C]	500°F [260°C]	550°F [288°C]	750°F [399°C]
Forged Steel			4000 [27580]	4000 [27580]	3900 [26890]	3815 [26300]	3730 [25720]	3525 [24300]	3355 [23130]	2620 [18060]
Stainless Steel	4000 [27580]	4000 [27580]	4000 [27580]	4000 [27580]	3900 [26890]	3815 [26300]	3730 [25720]	3525 [24300]	3355 [23130]	2755 [18990]

FOR 520, 530, 720, AND 730 SERIES GAGECOCKS										
MAXIMUM WORKING PRESSURE PSIG [kPa] AT TEMPERATURES UP TO:										
Material of Construction			-20°F [-29°C]	100°F [38°C]	200°F [93°C]	300°F [149°C]	400°F [204°C]	500°F [260°C]	550°F [288°C]	750°F [399°C]
Forged Steel			4000 [27580]	4000 [27580]	3900 [26890]	3815 [26300]	3730 [25720]	3525 [24300]	3355 [23130]	2620 [18060]
Stainless Steel Wetted			4000 [27580]	4000 [27580]	3900 [26890]	3815 [26300]	3730 [25720]	3525 [24300]	3355 [23130]	2755 [18990]

FOR 630 SERIES GAGECOCKS										
MAXIMUM WORKING PRESSURE PSIG [kPa] AT TEMPERATURES UP TO:										
Material of Construction			-20°F [-29°C]	100°F [38°C]	250°F [121°C]					
Forged Steel			6000 [41370]	6000 [41370]	6000 [41370]					
Stainless Steel			6000 [41370]	6000 [41370]	6000 [41370]					

FOR 550 AND 750 SERIES GAGECOCKS										
MAXIMUM WORKING PRESSURE PSIG [kPa] AT TEMPERATURES UP TO:										
Material of Construction			-20°F [-29°C]	100°F [38°C]	200°F [93°C]	300°F [149°C]	400°F [204°C]			
Forged Steel			4000 [27580]	4000 [27580]	3900 [26890]	3815 [26300]	3730 [25720]			
Stainless Steel Wetted			4000 [27580]	4000 [27580]	3900 [26890]	3815 [26300]	3730 [25720]			

<sup>A</sup>optional packing material may result in a derated maximum pressure for the gagecock

# PENBERTHY

## application report

Section 2000  
 Application Report 2800.2  
 Issued 05/05  
 Replaces NEW

For: **FLAT GLASS GAGECOCK PRESSURE/TEMPERATURE RATINGS USING STANDARD PACKING MATERIAL<sup>A</sup>**

FOR 780 SERIES GAGECOCKS										
MAXIMUM WORKING PRESSURE PSIG [kPa] AT TEMPERATURES UP TO:										
Material of Construction			-20°F [-29°C]	100°F [38°C]	200°F [93°C]	300°F [149°C]	400°F [204°C]	500°F [260°C]	550°F [288°C]	750°F [399°C]
Forged Steel			850 [5860]	850 [5860]	850 [5860]	850 [5860]	850 [5860]	850 [5860]	850 [5860]	850 [5860]
Stainless Steel Wetted			850 [5860]	850 [5860]	850 [5860]	850 [5860]	850 [5860]	850 [5860]	850 [5860]	850 [5860]
Forged Steel w/locking collar			1800 [12410]	1800 [12410]	1800 [12410]	1800 [12410]	1800 [12410]	1800 [12410]	1800 [12410]	1800 [12410]
Stainless Steel Wetted w/locking collar			1800 [12410]	1800 [12410]	1800 [12410]	1800 [12410]	1800 [12410]	1800 [12410]	1800 [12410]	1800 [12410]

<sup>A</sup> optional packing material may result in a derated maximum pressure for the gagecock

# PENBERTHY

## application report

Section 2000  
 Application Report 2800.3  
 Issued 05/05  
 Replaces NEW

For: **TUBULAR GAGECOCK PRESSURE/TEMPERATURE RATINGS USING STANDARD PACKING MATERIAL<sup>A</sup>**

FOR N2A AND K2A SERIES GAGECOCKS								
MAXIMUM WORKING PRESSURE PSIG [kPa] AT TEMPERATURES UP TO:								
Material of Construction	-300°F [-184°C]	-20°F [-29°C]	100°F [38°C]	300°F [149°C]	400°F [204°C]	500°F [260°C]	750 °F [399°C]	
STEEL	675 [4650]	675 [4650]	675 [4650]	610 [4200]	590 [4070]	555 [3830]	400 [2760]	
316 STS	675 [4650]	675 [4650]	675 [4650]	610 [4200]	590 [4070]	555 [3830]	400 [2760]	

FOR N2B,C AND K2B,C SERIES GAGECOCKS								
MAXIMUM WORKING PRESSURE PSIG [kPa] AT TEMPERATURES UP TO:								
Material of Construction	-300°F [-184°C]	-20°F [-29°C]	100°F [38°C]	300°F [149°C]	400°F [204°C]	500°F [260°C]	750 °F [399°C]	
STEEL	750 [5170]	750 [5170]	750 [5170]	675 [4650]	655 [4520]	610 [4210]	450 [3100]	
316 STS	750 [5170]	750 [5170]	750 [5170]	675 [4650]	655 [4520]	610 [4210]	450 [3100]	

FOR K3 SERIES GAGECOCKS									
MAXIMUM WORKING PRESSURE PSIG [kPa] AT TEMPERATURES UP TO:									
Gagecock Model		-20°F [-29°C]	100°F [38°C]	200°F [93°C]	300°F [149°C]	400°F [204°C]	500°F [260°C]	550°F [288°C]	MAX. STEAM PRESS.
K3A		225 [1550]	225 [1550]	215 [1480]	190 [1310]	170 [1170]	150 [1030]		175 [1210]
K3B		500 [3450]	500 [3450]	475 [3270]	425 [2930]	375 [2580]	325 [2240]	300 [2070]	360 [2480]

FOR N6A SERIES GAGECOCKS									
MAXIMUM WORKING PRESSURE PSIG [kPa] AT TEMPERATURES UP TO:									
		-20°F [-29°C]	100°F [38°C]	200°F [93°C]	300°F [149°C]	400°F [204°C]			MAX. STEAM PRESS.
Gagecock Model		WITH STANDARD NEOPRENE GLASS PACKING					OPTIONAL TEFLON GLASS PACKING		
N6A		200 [1380]	200 [1380]	190 [1310]	165 [1100]	125 [860]			125 [860]

<sup>A</sup>optional packing material may result in a derated maximum pressure for the gagecock  
 all ratings are subject to limitations of tubular glass

# PENBERTHY

## application report

Section 2000  
 Application Report 2800.4  
 Issued 05/05  
 Replaces NEW

For: **TUBULAR GAGECOCK PRESSURE/TEMPERATURE RATINGS USING STANDARD PACKING MATERIAL<sup>A</sup>**

FOR N7 SERIES GAGECOCKS									
MAXIMUM WORKING PRESSURE PSIG [kPa] AT TEMPERATURES UP TO:									
		-20°F [-29°C]	100°F [38°C]	200°F [93°C]	300°F [149°C]	400°F [204°C]	450°F [232°C]	500°F [260°C]	MAX. STEAM PRESS.
Gagecock Model		WITH STANDARD NEOPRENE GLASS PACKING				WITH OPTIONAL TEFLON GLASS PACKING			
N7A BRONZE		200 [1380]	200 [1380]	190 [1310]	165 [1140]	125 [860]			125 [860]
N7B BRONZE		400 [2800]	400 [2800]	385 [2700]	335 [2300]	250 [1700]			250 [1700]
N7A IRON		500 [3450]	500 [3450]	460 [3170]	375 [2580]	290 [2000]	250 [1720]		350 [2410]
N7B IRON		500 [3450]	500 [3450]	460 [3170]	375 [2580]	290 [2000]	250 [1720]		350 [2410]
N7A, N7B STL, STS		500 [3450]	500 [3450]	500 [3450]	500 [3450]	500 [3450]	500 [3450]	500 [3450]	350 [2410]

<sup>A</sup> optional packing material may result in a derated maximum pressure for the gagecock  
 all ratings are subject to limitations of tubular glass

# PENBERTHY

## application report

Section 2000  
 Application Report 2800.5  
 Issued 05/05  
 Replaces NEW

For: **GLASS UNION AND HYDRAULIC ADAPTER  
 PRESSURE/TEMPERATURE RATINGS USING STANDARD PACKING MATERIAL<sup>A</sup>**

FOR GLASS UNION					
MAXIMUM WORKING PRESSURE PSIG [kPa] AT TEMPERATURES UP TO:					
MATERIAL	-325°F [-198°C]	-20°F [-29°C]	100°F [38°C]	400°F [204°C]	500°F [260°C]
CARBON STEEL		500 [3450]	500 [3450]	500 [3450]	500 [3450]
316 STS	500 [3450]	500 [3450]	500 [3450]	500 [3450]	500 [3450]
5/8" BRASS	200 [1380]	200 [1380]	200 [1380]	125 [860]	
3/4" BRASS	400 [2760]	400 [2760]	400 [2760]	250 [1720]	

FOR HYDRAULIC ADAPTER					
MAXIMUM WORKING PRESSURE PSIG [kPa] AT TEMPERATURES UP TO:					
MATERIAL	-325°F [-198°C]	-20°F [-29°C]	100°F [38°C]	400°F [204°C]	500°F [260°C]
CARBON STEEL		500 [3450]	500 [3450]	500 [3450]	500 [3450]
316 STS	500 [3450]	500 [3450]	500 [3450]	500 [3450]	500 [3450]
5/8" BRASS	200 [1380]	200 [1380]	200 [1380]	125 [860]	
3/4" BRASS	400 [2760]	400 [2760]	400 [2760]	250 [1720]	

<sup>A</sup>optional packing material may result in a derated maximum pressure  
 all ratings are subject to limitations of tubular glass