

BOLT CHART

Individual Hex Head Bolt Part Number Chart

PART NUMBER	BOLT LENGTH	MATERIAL 7/16-20 THREAD	OPTION CODE	PART NUMBER	BOLT LENGTH	MATERIAL 7/16-20 THREAD	OPTION CODE
P6-057-10	3/4"	CS	WV	P6-086-10	3"	CS	WF
P6-057-C0	[19.05]	316 SS		P6-086-C0	[76.20]	316 SS	
P6-067-10	1"	CS	WG	P6-089-10	3 1/4"	CS	WJ
P6-067-C0	[25.40]	316 SS		P6-089-C0	[82.55]	316 SS	
P6-073-10	1 1/4"	CS	W7	P6-107-10	3 1/2"	CS	WQ
P6-073-C0	[31.75]	316 SS		P6-107-C0	[88.90]	316 SS	
P6-058-10	1 1/2"	CS	WB	P6-149-10	3 3/4"	CS	WS
P6-058-C0	[38.10]	316 SS		P6-149-C0	[95.25]	316 SS	
P6-028-10	1 3/4"	CS	WH	P6-108-10	4"	CS	WN
P6-028-C0	[44.45]	316 SS		P6-108-C0	[101.60]	316 SS	
P6-061-10	2"	CS	WC	P6-102-10	4 1/4"	CS	WP
P6-061-C0	[50.80]	316 SS		P6-102-C0	[107.95]	316 SS	
P6-029-10	2 1/4"	CS	WA	P6-109-10	4 1/2"	CS	WR
P6-029-C0	[57.15]	316 SS		P6-109-C0	[114.30]	316 SS	
P6-080-10	2 1/2"	CS	WE	P6-197-10	4 3/4"	CS	WT
P6-080-C0	[63.50]	316 SS		P6-197-C0	[120.65]	316 SS	
P6-038-10	2 3/4"	CS	WD	P6-002-10	5 1/4"	CS	WU
P6-038-C0	[69.85]	316 SS		P6-002-C0	[133.35]	316 SS	

Bolt Washers

PART NUMBER	MATERIAL
P6-090-C0	316 SS Bolt Washer (For Slotted Flange Manifolds)
P6-090-10	CS Bolt Washer (For Slotted Flange Manifolds)

Materials of Construction and Pressure vs. Temperature Chart

Materials of Construction

MANIFOLDS and SPACERS		
PART DESCRIPTION	CARBON STEEL	316 SS
Body and Bonnet	ASTM A108 CS	ASTM A479-316 SS
Stem	ASTM A479-316 SS	ASTM A479-316 SS
Bonnet Lock Pin	300 Series SS	300 Series SS
Seal and Cone Retainer	ASTM A479-316 SS	ASTM A479-316 SS
Thrust Washer	ASTM A564-630 (17-4PH)	ASTM A564-630 (17-4PH)
Handle Assembly	ASTM A108 CS	ASTM A581-300 SS

AK-700 and AK-701 ADAPTERS		
PART DESCRIPTION	CARBON STEEL	316 SS
Body	AISI 1018 CS	ASTM A479-316 SS
Bonnet	ASTM A108 CS	ASTM A479-316 SS
Stem	ASTM A479-316 SS	ASTM A479-316 SS
Bonnet Lock Pin	300 Series SS	300 Series SS
Seal and Cone Retainer	ASTM A479-316 SS	ASTM A479-316 SS
Handle Assembly	ASTM A108 CS	ASTM A581-300 SS

AK-022-C0 AND AK-024-C0 STABILIZED CONNECTORS	
10,000 PSI @ 200° F 8,000 PSI @ 450° F Max	
AK-022-C0 PART DESCRIPTION	
Stabilizing Foot	ASTM A743-316
1-1/2" Stabilizing Hex Nut	300 Series SS
Stabilizing Connector	ASTM A743-316
7/16-20 x 1" LG Mounting Bolt	ASTM 449-Type 1
Flange Seal	Teflon®
AK-024-C0 PART DESCRIPTION	
Stabilizing Foot	ASTM A743-CF3M
1-1/2" Stabilizing Hex Nut	300 Series SS
Stabilizing Connector	ASTM A743-CF3M
7/16-20 x 1" LG Mounting Bolt	ASTM 449-Type 1
Flange Seal	Teflon®

- PGI Carbon Steel Products are Alkaline Zinc plated for corrosion prevention.
- PGI 316 SS Products meet the requirements of NACE MR0175/ISO 15156-3.

Pressure and Process Temperature Ratings

STANDARD BODY MATERIAL CODES		
CODE	DESCRIPTION	PRESSURE & PROCESS TEMPERATURES
S	ASTM A479-316 Stainless Steel	10,000 PSI Max. @ 200° to -100° F Min. 1,500 PSI Max. @ 1,000° F Max.
		689 bar Max. @ 93° to -73° C Min. 103 bar Max. @ 538° C Max.
C	ASTM A108 Carbon Steel	10,000 PSI Max. @ 200° to -20° F Min. 1,500 PSI Max. @ 500° F Max.
		689 bar Max. @ 93° to -29° C Min. 103 bar Max. @ 260° C Max.
P	ASTM A105 Carbon Steel	10,000 PSI Max. @ 200° to -20° F Min. 1,500 PSI Max. @ 800° F Max.
		689 bar Max. @ 93° to -29° C Min. 103 bar Max. @ 426° C Max.
T	ASTM A395 GR 60-40-18 Ductile Iron	3,000 PSI Max. @ 200° to -20° F Min. 1,500 PSI Max. @ 650° F Max.
		207 bar Max. @ 93° to -29° C Min. 103 bar Max. @ 343° C Max.
W	ASTM A479-304 Stainless Steel	10,000 PSI Max. @ 200° to -100° F Min. 1,500 PSI Max. @ 1,000° F Max.
		689 bar Max. @ 93° to -73° C Min. 103 bar Max. @ 538° C Max.

Pressure and Process Temperature Ratings (cont.)

STANDARD STEM SEAL MATERIAL CODES			
CODE	DESCRIPTION	ORIFICE SIZES	PRESSURE & PROCESS TEMPERATURES
T	Teflon® Pressure-Core®	.187"	10,000 PSI Max. @ 200° to -40° F Min. 8,000 PSI Max. @ 450° F Max.
		.250"	689 bar Max. @ 93° to -40° C Min. 552 bar Max. @ 232° C Max.
		.375"	6,000 PSI Max. @ 200° to -40° F Min. 4,000 PSI Max. @ 450° F Max.
			414 bar Max. @ 93° to -40° C Min. 276 bar Max. @ 232° C Max.
J	Teflon® Pressure-Core® Low Temperature	.187"	10,000 PSI Max. @ 200° to -50° F Min. 1,000 PSI Max. @ 450° F Max.
		.250"	689 bar Max. @ 93° to -46° C Min. 69 bar Max. @ 232° C Max.
		.375"	6,000 PSI Max. @ 200° to -50° F Min. 4,000 PSI Max. @ 450° F Max.
			414 bar Max. @ 93° to -46° C Min. 276 bar Max. @ 232° C Max.
P	Teflon® Packed Style	.187"	10,000 PSI Max. @ 200° to -80° F Min. 4,000 PSI Max. @ 500° F Max.
		.250"	689 bar Max. @ 93° to -62° C Min. 276 bar Max. @ 260° C Max.
		.375"	6,000 PSI Max. @ 200° to -40° F Min. 4,000 PSI Max. @ 500° F Max.
			414 bar Max. @ 93° to -40° C Min. 276 bar Max. @ 260° C Max.
G	Grafoil® Packed Style	.187"	A105 Carbon Steel Bonnet 6,000 PSI Max. @ 200° to -20° F Min. 1,500 PSI Max. @ 800° F Max.
		.375"	414 bar Max. @ 93° to -29° C Min. 103 bar Max. @ 427° C Max.
			A108 Carbon Steel Bonnet 6,000 PSI Max. @ 200° to -20° F Min. 1,500 PSI Max. @ 500° F Max.
			414 bar Max. @ 93° to -29° C Min. 103 bar Max. @ 260° C Max.
			SS Bonnet 6,000 PSI Max. @ 200° to -100° F Min. 1,500 PSI Max. @ 1,000° F Max.
			414 bar Max. @ 93° to -73° C Min. 103 bar Max. @ 538° C Max.
V	Viton® O-Ring	.187"	10,000 PSI Max. @ 200° to -15° F Min. 8,000 PSI Max. @ 400° F Max.
		.250"	689 bar Max. @ 93° to -26° C Min. 552 bar Max. @ 204° C Max.
		.375"	6,000 PSI Max. @ 200° to -15° F Min. 4,000 PSI Max. @ 400° F Max.
			414 bar Max. @ 93° to -40° C Min. 276 bar Max. @ 204° C Max.

STANDARD SOFT SEAT MATERIAL CODES			
CODE	DESCRIPTION	ORIFICE SIZES	PRESSURE & PROCESS TEMPERATURES
L	Rylon™ Cone		1,500 PSI Max. @ 200° F Max. to -40° F Min.
			103 bar Max. @ 93° C Max. to -40° C Min.
D & K	Delrin® and Kel-F® Cone		6,000 PSI Max. @ 200° F Max. to -40° F Min.
			414 bar Max. @ 93° C Max. to -40° C Min.
P	PEEK® Cone	.375"	6,000 PSI Max. @ 200° to -40° F Min. 3,000 PSI Max. @ 400° F Max.
			414 bar Max. @ 93° to -40° C Min. 207 bar Max. @ 204° C Max.
T	Teflon® Cone		1,000 PSI Max. @ 200° to -80° F Min. 500 psi Max. @ 450° F Max.
			69 bar Max. @ 93° to -62° C Min. 34 bar Max. @ 232° C Max.

STANDARD HARD SEAT MATERIAL CODES			
CODE	DESCRIPTION	ORIFICE SIZES	PRESSURE & PROCESS TEMPERATURES
C	Carbide Ball	.187"	10,000 PSI Max. @ 1,000° F Max. to -100° F Min.
R	Ceramic Ball		689 bar Max. @ 538° C Max. to -73° C
6	316 SS Ball		

NOTES

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