



## PIPES

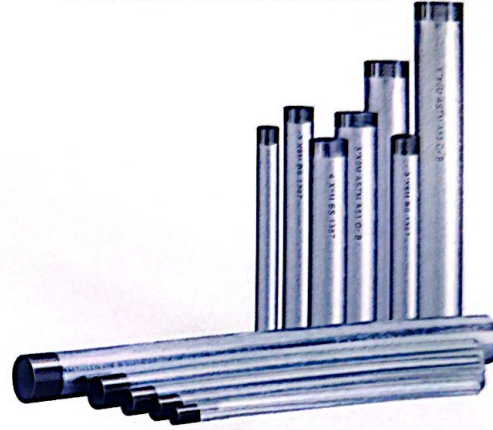
### SEAMLESS STEEL PIPE

SIZE: 1/2" ~ 28"  
 DESCRIPTION: 1/2" ~ 2" PLAIN ENDS, 2-1/2" ~ 28" BEVEL ENDS  
 THICKNESS: SCH40, STD, SCH80, SCH160, XS, XXS ETC  
 MATERIAL: ASTM A106, ASTM A53, API 5L GR.B/X-42/X-52 ETC



### WELDED STEEL PIPE (GALV. & BLACK)

SIZE: 1/2" ~ 24"  
 DESCRIPTION: CLASS A-1, A, B & C, SCH20, SCH40 & SCH80  
 THREADED ENDS, PLAIN ENDS, BEVEL ENDS  
 MATERIAL: BS1387:1985, ASTM A106, ASTM A53,  
 API 5L GR.B/X-42/X-52/X-60, EN10219:1997



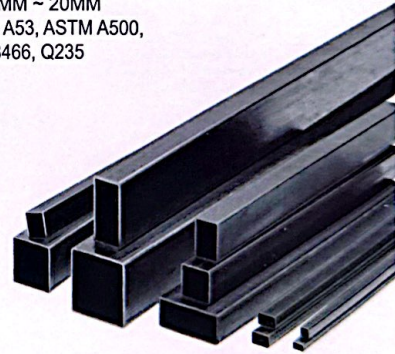
### SPIRAL STEEL PIPE

OUTER DIAMETER: 219MM ~ 3620MM,  
 THICKNESS: 6MM ~ 40MM  
 MATERIAL: ASTM A53, Q235



### SQUARE & RECTANGULAR PIPE

SIZE: 12MM X 12MM ~ 600MM X 600MM  
 THICKNESS: 0.6MM ~ 20MM  
 MATERIAL: ASTM A53, ASTM A500,  
 JIS G3466, Q235



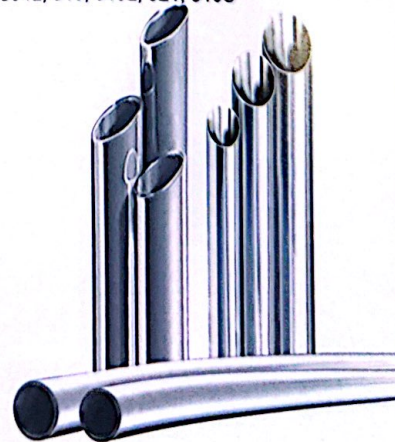
### DUCTILE IRON PIPE FITTING

SIZE: DN80 ~ DN2000  
 STANDARD: ISO2531/EN545/BS4772/AWWAC110  
 PRESSURE: PN10/16/25  
 JOINT TYPE: FLANGED JOINT, SOCKET JOINT: T TYPE & K TYPE  
 FINISHING: INTERNAL WITH CEMENT LINING  
 EXTERNAL WITH ZINC AND BITUMEN PAINTING  
 EPOXY COATING OR PAINTING




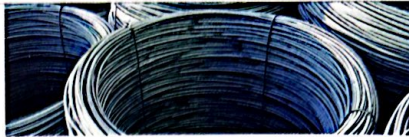
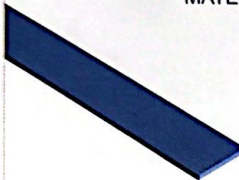

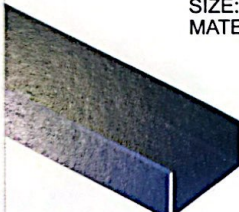



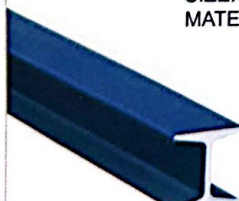
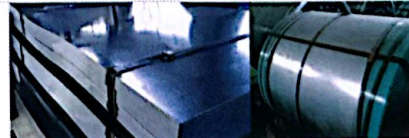


### STAINLESS STEEL PIPE

SIZE: 6MM ~ 530MM  
 THICKNESS: 0.5MM ~ 20MM  
 DESCRIPTION: ASTM A268/A268M-1996, ASTM A269-1996,  
 ASTM 789/A759M-1995, ISO, DIN  
 MATERIAL: 304, 304L, 316, 316L, 321, 310S





## STEEL PRODUCTS

 <p><b>MILD STEEL ANGLE</b>          SIZE: 20MM X 20MM ~ 250MM X 250MM (EQUAL ANGLE)          SIZE: 75MM X 50MM ~ 200MM X 100MM (UNEQUAL ANGLE)          MATERIAL: ASTM A36/JIS SS400/Q235</p>	 <p><b>STEEL WIRE ROD</b>          SIZE: 5.5MM ~ 12MM          MATERIAL: SAE1006, SAE1008, Q195, Q235</p>
 <p><b>MILD STEEL FLAT BAR</b>          SIZE: 12MM X 3MM ~ 200MM X 36MM          MATERIAL: ASTM A36/JIS SS400/Q235</p>	 <p><b>HOT ROLLED PLATE</b>          WIDTH: 510MM ~ 2000MM. THICKNESS: 5MM ~ 20MM          WIDTH: 2000MM ~ 3000MM. THICKNESS: 14MM ~ 100MM          MATERIAL: SS400, Q235B, Q345B</p>
 <p><b>CHANNELS</b>          SIZE: 50MM X 25MM ~ 300MM X 90MM          MATERIAL: ASTM A36/JIS SS400/Q235</p>	 <p><b>HOT ROLLED COIL</b>          WIDTH: 1000MM ~ 2020MM. THICKNESS: 1.5MM ~ 24.5MM          MATERIAL: Q235B, Q345B, SS400, SPHC, A36</p>
 <p><b>I BEAMS</b>          SIZE: 100MM X 55MM ~ 270MM X 135MM(IPE)          SIZE: 78MM X 45MM ~ 196.4MM X 100MM(IPEAA)          MATERIAL: ASTM A36/JIS SS400/ST37/Q235</p>	 <p><b>COLD ROLLED COIL</b>          WIDTH: 920MM ~ 1500MM. THICKNESS: 0.3MM ~ 3.0MM          MATERIAL: DC01, SPCC, SPCD, SPCE, ST12, ST13, ST14, ST15, ST16, AYHS3</p>
 <p><b>H BEAMS</b>          SIZE: 100MM X 100MM ~ 900MM X 300MM          MATERIAL: ASTM A36/JIS SS400/Q235B</p>	 <p><b>HOT DIPPED GALVANIZED PLATE &amp; COIL</b>          WIDTH: 1000MM/1219MM/1250MM/1500MM          THICKNESS: 0.3MM ~ 3.0MM          MATERIAL: DX51D+Z/SGCC/A653 ETC</p>
 <p><b>DEFORMED STEEL BAR</b>          SIZE: 8MM ~ 32MM          MATERIAL: ASTM A-615 GR60, HRB335, HRB400</p>	 <p><b>HOT ROLLED CHEQUERED COILS/SHEETS(TEAR DROP)</b>          WIDTH: 1010MM/1219MM/1250MM/1500MM          THICKNESS: 2.0MM ~ 9.75MM          MATERIAL: SS400/A36/Q235B</p>



## FORGED FLANGES

	<p><b>PLATE</b></p> <p>SIZE: 1/2" ~ 56"</p> <p>DESCRIPTIONS: ANSI B16.5: CLASS150, CLASS300, CLASS600, CLASS900, BS4504: BS10, PN10, PN16, PN25, PN40 DIN: PN6, PN10, PN16, PN25, PN40 JIS: 5K, 10K, 16K, 40K</p> <p>MATERIALS: ASTM A105, C22.8, ST37.2, SS304, 304L, SS316, 316L</p>
	<p><b>SLIP-ON</b></p> <p>SIZE: 1/2" ~ 56"</p> <p>DESCRIPTIONS: ANSI B16.5: CLASS150, CLASS300, CLASS600, CLASS900, BS4504: BS10, PN10, PN16, PN25, PN40 DIN: PN6, PN10, PN16, PN25, PN40 JIS: 5K, 10K, 16K, 40K</p> <p>MATERIALS: ASTM A105, C22.8, ST37.2, SS304, 304L, SS316, 316L</p>
	<p><b>WELD-NECK</b></p> <p>SIZE: 1/2" ~ 56"</p> <p>DESCRIPTIONS: ANSI B16.5: CLASS150, CLASS300, CLASS600, CLASS900, BS4504: BS10, PN10, PN16, PN25, PN40 DIN: PN6, PN10, PN16, PN25, PN40 JIS: 5K, 10K, 16K, 40K</p> <p>MATERIALS: ASTM A105, C22.8, ST37.2, SS304, 304L, SS316, 316L</p>
	<p><b>THREADED</b></p> <p>SIZE: 1/2" ~ 12"</p> <p>DESCRIPTIONS: ANSI B16.5: CLASS150, CLASS300, CLASS600, CLASS900, BS4504: BS10, PN10, PN16, PN25, PN40 DIN: PN6, PN10, PN16, PN25, PN40 JIS: 5K, 10K, 16K, 40K</p> <p>THREADING: BSPT &amp; NPT</p> <p>MATERIALS: ASTM A105, C22.8, ST37.2, SS304, 304L, SS316, 316L</p>
	<p><b>BLIND</b></p> <p>SIZE: 1/2" ~ 56"</p> <p>DESCRIPTIONS: ANSI B16.5: CLASS150, CLASS300, CLASS600, CLASS900, BS4504: BS10, PN10, PN16, PN25, PN40 DIN: PN6, PN10, PN16, PN25, PN40 JIS: 5K, 10K, 16K, 40K</p> <p>MATERIALS: ASTM A105, C22.8, ST37.2, SS304, 304L, SS316, 316L</p>
	<p><b>SOCKET-WELD</b></p> <p>SIZE: 1/2" ~ 56"</p> <p>DESCRIPTIONS: ANSI B16.5, CLASS150, CLASS300, CLASS600, CLASS900</p> <p>MATERIALS: ASTM A105, C22.8, ST37.2, SS304, 304L, SS316, 316L</p>



## BUTT-WELDED SEAMLESS PIPE FITTINGS

	<b>ELBOW 90°</b> SIZE: 1/2" ~ 56" DESCRIPTIONS: ANSI & ASME B16.9 & B16.28 ASTM A234 WPB DIN 2605, 2615, 2616, 2617 & JIS B2311 SGP MATERIALS: ASTM A234, SS304, 304L, SS316, 316L
	<b>ELBOW 45°</b> SIZE: 1/2" ~ 56" DESCRIPTIONS: ANSI B16.9 & B16.28 ASTM A234 WPB DIN & SGP MATERIALS: ASTM A234, SS304, 304L, SS316, 316L
	<b>TEE</b> SIZE: 1/2" ~ 56" DESCRIPTIONS: ANSI B16.9 & B16.28 ASTM A234 WPB DIN & SGP MATERIALS: ASTM A234, SS304, 304L, SS316, 316L
	<b>CAP</b> SIZE: 1/2" ~ 56" DESCRIPTIONS: ANSI B16.9 & B16.28 ASTM A234 WPB DIN & SGP MATERIALS: ASTM A234, SS304, 304L, SS316, 316L
	<b>REDUCING TEE</b> SIZE: 1/2" ~ 56" DESCRIPTIONS: ANSI B16.9 & B16.28 ASTM A234 WPB DIN & SGP MATERIALS: ASTM A234, SS304, 304L, SS316, 316L
	<b>CONCENTRIC REDUCER</b> SIZE: 1/2" ~ 56" DESCRIPTIONS: ANSI B16.9 & B16.28 ASTM A234 WPB DIN & SGP MATERIALS: ASTM A234, SS304, 304L, SS316, 316L
	<b>ECCENTRIC REDUCER</b> SIZE: 1/2" ~ 56" DESCRIPTIONS: ANSI B16.9 & B16.28 ASTM A234 WPB DIN & SGP MATERIALS: ASTM A234, SS304, 304L, SS316, 316L

## CAST STEEL VALVE

	<p><b>GATE VALVE</b></p> <p>SIZE: 2" ~ 48"            MATERIAL: A216 WCB            STANDARD: API 600/API 6D ANSI CLASS 150 TO 1500            BS5150. BS5163. BS3464. BS1218. PN6. PN10.PN16. PN25. PN40            DIN 3352-F4. DIN3352-F5. DIN3202-F1 PN10. PN16. PN25. PN40            JIS 5K. JIS 10K. JIS 16K</p>
	<p><b>GLOBE VALVE</b></p> <p>SIZE: 2" ~ 48"            MATERIAL: A216 WCB            STANDARD: API 600/API 6D ANSI CLASS 150 TO 1500            BS5150. BS5163. BS3464. BS1218. PN6. PN10.PN16. PN25. PN40            DIN 3352-F4. DIN3352-F5. DIN3202-F1 PN10. PN16. PN25. PN40            JIS 5K. JIS 10K. JIS 16K</p>
	<p><b>CHECK VALVE</b></p> <p>SIZE: 2" ~ 48"            MATERIAL: A216 WCB            STANDARD: API 600/API 6D ANSI CLASS 150 TO 1500            BS5150. BS5163. BS3464. BS1218. PN6. PN10.PN16. PN25. PN40            DIN 3352-F4. DIN3352-F5. DIN3202-F1 PN10. PN16. PN25. PN40            JIS 5K. JIS 10K. JIS 16K</p>
	<p><b>Y STRAINER</b></p> <p>SIZE: 2" ~ 48"            MATERIAL: A216 WCB            STANDARD: API 600/API 6D ANSI CLASS 150 TO 1500            BS5150. BS5163. BS3464. BS1218. PN6. PN10.PN16. PN25. PN40            DIN 3352-F4. DIN3352-F5. DIN3202-F1 PN10. PN16. PN25. PN40            JIS 5K. JIS 10K. JIS 16K</p>
	<p><b>BALL VALVE</b></p> <p>SIZE: 2" ~ 48"            MATERIAL: A216 WCB            STANDARD: API 600/API 6D ANSI CLASS 150 TO 1500            BS5150. BS5163. BS3464. BS1218. PN6. PN10.PN16. PN25. PN40            DIN 3352-F4. DIN3352-F5. DIN3202-F1 PN10. PN16. PN25. PN40            JIS 5K. JIS 10K. JIS 16K</p>
	<p><b>TRUNNION MOUNTED BALL VALVE</b></p> <p>SIZE: 2" ~ 48"            MATERIAL: A216 WCB            STANDARD: API 600/API 6D ANSI CLASS 150 TO 1500            BS5150. BS5163. BS3464. BS1218. PN6. PN10.PN16. PN25. PN40            DIN 3352-F4. DIN3352-F5. DIN3202-F1 PN10. PN16. PN25. PN40            JIS 5K. JIS 10K. JIS 16K</p>



## CAST IRON VALVE

			
NON RISING STEM GATE VALVE	RISING STEM GATE VALVE	GLOBE VALVE	GLOBE VALVE DIN 3202-F1
			
BALL VALVE	CHECK VALVE	Y STRAINER	FOOT VALVE
			
BUTTERFLY VALVE(WAFER TYPE)	BUTTERFLY VALVE(LUG TYPE)	BUTTERFLY VALVE(FLANGE TYPE)	CHECK VALVE(WAFER TYPE)
			
NON RISING STEM RESILIENT SOFT SEAT	RISING STEM RESILIENT SOFT SEAT	UNIVERSAL FLANGE ADAPTOR	UNIVERSAL COUPLING

SIZE: 2" ~ 48" MATERIAL: GG25 GGG50  
 STANDARD: API 600/API 6D ANSI CLASS 150, CLASS 300 BS5150, BS5163, BS3464, BS1218, PN6, PN10, PN16, PN25  
 DIN3352-F4, DIN3352-F5, DIN3202-F1 PN10, PN16, PN25 JIS 5K, JIS 10K, JIS 16K



## 'HG' BRAND MALLEABLE IRON PIPE FITTINGS

NO. 1	NO. 2	NO. 3	NO. 40
NO. 41	NO. 42	NO. 1090	NO. 1090R
NO. 90	NO. 90R	NO. 1092	NO. 92
NO. 1120	NO. 120	NO. 1130	NO. 1130R
NO. 130	NO. 130R	NO. 1180	NO. 1180R
NO. 180	NO. 180R	NO. 1221	NO. 221

AMERICAN STANDARD; BRITISH STANDARD; EN STANDARD  
 THREADS: ANSI/ASME B1 20.1-1983; BS21:1985; DIN2999  
 SIZE AVAILABLE: 1/8" ~ 6"



## 'HG' BRAND MALLEABLE IRON PIPE FITTINGS

NO. 1223	NO. 223	NO. 1240	NO. 240
NO. 241	NO. 1270	NO. 270	NO. 280
NO. 290	NO. 291	NO. 301	NO. 310
NO. 321	NO. 320	NO. 330	NO. 331
NO. 340	NO. 341	NO. 342	NO. 529
NO. 529a	NO. 85	NO. 245	NO. 121

AMERICAN STANDARD; BRITISH STANDARD; EN STANDARD  
 THREADS:ANSI/ASMEB1 20.1-1983; BS21:1985; DIN2999  
 SIZE AVAILABLE:1/8" ~ 6"



## STEEL SOCKET & NIPPLE

### SOCKET / COUPLING

AMERICAN STANDARD: ANSI/ASTM A120  
 BRITISH STANDARD: BS EN10241  
 DIN STANDARD: DIN2986



### STEEL PIPE NIPPLES

AMERICAN STANDARD: ASTM A733  
 PIPE: ASTM A53, A120, A312, TP304  
 THREAD: ANSI B1.20.1  
 BRITISH STANDARD: BS EN10241  
 PIPE: BS1507  
 THREAD: ISO 7/1, BS21  
 DIN STANDARD: DIN2982  
 PIPE: DIN2440  
 THREAD: DIN2999






### PIPE NIPPLES

KING NIPPLES, PIPE HOSE, BENDS





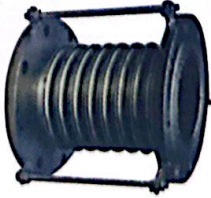



## HIGH PRESSURE FORGED FITTINGS

					
90° ELBOW (SOCKET WELDING)	45° ELBOW (SOCKET WELDING)	TEE (SOCKET WELDING)	CROSS (SOCKET WELDING)	UNION (SOCKET WELDING)	COUPLING (SOCKET WELDING)
					
HALF-COUPLING (SOCKET WELDING)	OUTLET (SOCKET WELDING)	90° ELBOW (THREADED)	45° ELBOW (THREADED)	TEE (THREADED)	CROSS (THREADED)
					
STREET ELBOW (THREADED)	UNION (THREADED)	COUPLING (THREADED)	HALF-COUPLING (THREADED)	HEXAGONAL HEAD BUSHING(THREADED)	HEXAGONAL HEAD PLUG(THREADED)
					
SQUARE HEAD PLUG (THREADED)	ROUND HEAD BUSHING (THREADED)	HEXAGONAL NIPPLE (THREADED)	OUTLET (THREADED)	CONCENTRIC SWAGED NIPPLE(THREADED)	OUTLET

ANSI/ASME B16.11/MSSSP79/83/95/97/BS3799/JIS2316ETC  
 1/8" ~ 4" (DN6-DN100) 2000LB 3000LB 6000LB 9000LB (SCH40 SCH80/XS SCH160/XXS)  
 CARBON STEEL: ASTM A105 STAINLESS STEEL: ASTM A182 F304/F304L/F316/F316L/F321  
 ALLOY STEEL: ASTM A182 F5/F9/F11/F2A350LF2

## RUBBER JOINT

			
RUBBER JOINT SINGLE SIZE: 1-1/2" ~ 12" STANDARD: ANSI DIN BS MATERIAL: CARBON STEEL PRESSURE: PN6 ~ PN40 150LB ~ 300LB	RUBBER JOINT DOUBLE SIZE: 1-1/2" ~ 12" STANDARD: ANSI DIN BS MATERIAL: CARBON STEEL PRESSURE: PN6 ~ PN40 150LB ~ 300LB	COMPENSATOR SIZE: 1-1/2" ~ 12" STANDARD: ANSI DIN BS MATERIAL: CARBON STEEL PRESSURE: PN6 ~ PN40	RUBBER JOINT UNION SIZE: 1" ~ 6" STANDARD: ANSI DIN BS MATERIAL: MALLEABLE STEEL PRESSURE: PN6 ~ PN40



## STAINLESS STEEL PIPE FITTINGS (THREAD)

				
ELBOW 90°	REDUCING ELBOW	ELBOW 45°	STREET ELBOW M & F	HOSE NIPPLE
				
TEE	REDUCING TEE	CROSSES	SOCKET BANDED	COUPLINGS O.D
				
HEXAGON NIPPLE	REDUCING SOCKET	ADAPTERS	HEXAGON CAP	ROUND CAP
				
HEXAGON BUSHING	SQUARE PLUG	REDUCING NIPPLE	HEXAGON PLUG	HEXAGON NUT
				
CONICAL UNION F/F 1	CONICAL UNION F/F 2	UNIONS CONICAL M/F	UNIONS FLAT M/F	UNIONS FLAT F/F
				
UNIONS CONICAL B/W	UNIONS CONICAL F/BW	(KING) HOSE NIPPLE	HOSE NIPPLE	PIPE NIPPLE

AMERICAN STANDARD; BRITISH STANDARD; DIN STANDARD; EN STANDARD  
 THREADS:ANSI/ASME B1 20.1-1983; BS21:1985; DIN2999  
 SIZE AVAILABLE:1/4" ~ 6" MATERIAL:ASTMA182 304/304L/316/316L



## STAINLESS STEEL BUTE WELDED FITTINGS & VALVES








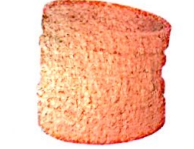




MATERIAL: SS304 & SS316

				
ELBOW 90° L/R	TEE	REDUCER	CAP	ELBOW 180°
				
ELBOW (POLISH)	TEE (POLISH)	REDUCER (POLISH)	CROSS (POLISH)	STUBE
				
WELDING UNION	WELD BUTTERFLY VALVE	SANITATION GRADE EXTERNAL SCREW BUTTERFLY VALVE	SANITATION GRADE QUICK-INSTALLMENT SWING ADAPTER	SANITATION CHECK VALVE
				
1-PC BALL VALVE	2-PC BALL VALVE	3-PC BALL VALVE	REVOLVE-OPEN TYPE CHECK VALVE	GATE VALVE
				
2-PC CARBON STEEL BALL VALVE	3-PC CARBON STEEL BALL VALVE	FLANGED BALL VALVE	Y-STRAINER	PNEUMATIC FLANGED BALL VALVE



## GROOVED COUPLINGS AND FITTINGS



			
LIGHT DUTY RIGID COUPLING (300PSI/2.1MPa)	LIGHT DUTY FLEXIBLE COUPLING (300PSI/2.1MPa)	RIGID COUPLING (500PSI/3.45MPa)	FLEXIBLE COUPLING (500PSI/3.45MPa)
			
HEAVY DUTY RIGID COUPLING (750PSI/5.2MPa)	HEAVY DUTY FLEXIBLE COUPLING (750PSI/5.2MPa)	REDUCING COUPLING (300PSI/2.1MPa)	MECHANICAL TEE (GROOVED)(300PSI/2.1MPa)
			
MECHANICAL TEE (THREADED)(300PSI/2.1MPa)	U-BOLTED MECHANICAL TEE (THREADED)(300PSI/2.1MPa)	90° ELBOW (L/R & S/R)	45° ELBOW (L/R & S/R)
			
22.5° ELBOW (L/R & S/R)	11.25° ELBOW (L/R & S/R)	EQUAL TEE	REDUCING TEE(GROOVED)
			
REDUCING TEE(THREADED)	EQUAL CROSS	REDUCING CROS(THREADED)	REDUCING CROSS(GROOVED)
			
REDUCER(GROOVED)	REDUCER(THREADED)	CAP	ECCENTRIC THREADED CAP
			
FLANGE 150LB(GROOVED)	FLANGE 150LB(THREADED)	FLANGE ADAPTOR 150LB	FLANGE ADAPTOR ANSI 150LB

HOUSING SEGMENTS: ASTM A 536 GRADE 65-45-12  
 BOLTS: ASTM A183, ASTM A446      NUTS: ASTM A194  
 GASKET RING: EPDM/SILICON RUBBER/NITRILE RUBBER