

MANUFACTURING SUMMARY

AUSTRALIAN PIPELINE VALVE MANUFACTURERS STOCK IN THE FOLLOWING RANGE. SEE OUR WEBSITE FOR A FULL RANGE OF CATALOGUES.

- A. **TORQTURN® ACTUATORS**, PNEUMATIC, QUARTER TURN DOUBLE ACTING AND SPRING RETURN, SCOTCH YOKE AND RACK AND PINION, COMPACT AND PISTON TYPE, WE CAN ALSO SUPPLY APV VALVES FITTED WITH MAJON BRANDS OF ACTUATORS SUCH AS: ACTREG, BETTIS, ROTORK, BIFFI, JC, AIR TORQUE, SFEROVA, TORQTURN, LEEDEN, ETC.

SIZE RANGE API6A (API6B) 1 13/16 INCH, 2 1/16 INCH, 2 9/16 INCH, 3 1/8 INCH, 3 1/16 INCH, 4 1/16 INCH, 7 1/16 INCH.

BODY MATERIAL: - 4130 (60K), API TYPE 2 (API-4), API TYPE 4, A487C.

SPECIFICATION: - PR1, PR2, PSL1, PSL2, TEMPU.

- B. **BALL VALVES, FLOATING BALL**, FIRESAFE, FORGED AND CAST, PTFE AND METAL SEATED, 2 PIECE AND 3 PIECE BODY, WELD BODY, LEVER AND GEAR OPERATED AND WITH PNEUMATIC ACTUATOR.

ANSI END CONNECTIONS: - ANSI RTJ (RING JOINT) FLANGED, SOCKETWELD, ANSI RF FLANGED (SMOOTH FINISH), LONG EXTENDED PUP ENDS, NPT, BSP, PBE, BUTTWELD STANDARD WEIGHT.

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, BUTTWELD SCHEDULE XXS.

OTHER END CONNECTIONS: - FLANGED BS TABLE D (AS TABLE D), FLANGED BS TABLE E (AS TABLE E), FLANGED BS TABLE F (AS TABLE F), FLANGED BS TABLE H (AS TABLE H), FLANGED BS TABLE J (AS TABLE J), FLANGED BS TABLE K (AS TABLE K), FLANGED BS TABLE R (AS TABLE R).

FLANGED: - PN16, PN10, PN25, JIS10, DIN10, DIN16, ANSI 125 CLASS, ANSI 150 CLASS, ANSI 300 CLASS.

NACE MR-01-75, H2S SERVICE.

MATERIAL: - WCB, A105N, LF2, CAST IRON, DUCTILE IRON, F22, F11, WC6, WC5, ALLOY 20 (A20), MONEL, DUPLEX (F51), LF2 (LOW TEMPERATURE), LCB, 304, CF8, CF8M, 316, 304L, 316L, CF3, CF3M, CF8G, 347, CE8M, S31803, SAF2205, F5.

BOLTS: - B7M, L7M, B8, B8M.

OPERATOR: - LOCKABLE, GEN-OPERATED, EXTENDED BONNET, EXTENDED STEM, CHAIN WHEEL OPERATED, PNEUMATIC ACTUATOR, ELECTRIC ACTUATOR, ESD.

SEATS: - TEFLON, RPTFE, PEEK, CARBON PTFE, GRAPHITE, DEVLON, NYLON, TEFZEL, METAL TO METAL.

LOW AND HIGH TEMPERATURE.

O-RINGS/SEALS/PACKING: - VITON B, VITON AED, BUNA GRAPHITE.

BODY OR BONNET SEALS: - GRAPHITE, VITON, 316SS SPIRAL WOUND, GRAPHITE FILLED, 316SS RING JOINT GASKET, TEFLON, PTFE, AND RPTFE.

DIMENSIONS TO ANSI B16.1, END CONNECTIONS TO ANSI B16.34.

ANSI CLASS 125, ANSI CLASS 150, ANSI CLASS 300, ANSI CLASS 600, ANSI CLASS 900, ANSI CLASS 1500, ANSI CLASS 2500, ANSI CLASS 2690.

LONG PATTERN, SHORT PATTERN.

FULL PORT (FULL BORE), REDUCED PORT (REDUCED BORE).

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (⅜ INCH)	200MM NB	8 INCH
15MM NB	.5 INCH (½ INCH)	250MM NB	9 INCH
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100MM NB	4 INCH	750MM NB	30 INCH
125MM NB	5 INCH	800MM NB	36 INCH
150MM NB	6 INCH	900MM NB	40 INCH

SPECIALS

CRYOGENIC, HIGH TEMPERATURE, LOW TEMPERATURE, ESD EMERGENCY SHUTDOWN.

SMALL BORE

NPT, BSP AND WELD ENDS IN: - 1000 PSI - (6900 KPA), 2000 PSI (800 CLASS) - (1400 KPA), 3000 PSI (API3000) - (2800 KPA), 5000 PSI (API5000) - (34500KPA), 6000 PSI - (41400 KPA), 10000 PSI - (69000 KPA).

- C. **BALL VALVES, TRUNNION MOUNTED**, API6D, FULL THROUGH CONDUIT FIRESAFE, FORGED AND CAST, SELF-RELIEVING SEATS, EMERGENCY SEALANT INJECTION, SIDE ENTRY IN 3 PIECE AND 2 PIECE. ALSO TOP ENTRY AND ALL WELDED BODY, SOFT AND METAL SEATED, GEAR OPERATED, DOUBLE BLOCK AND BLEED, LEVER OPERATED, BURIED SERVICE ETC. ALSO TWIN BALL VALVES (TANDEM DOUBLE BLOCK AND BLEED). WE ALSO STOCK PNEUMATIC ACTUATORS, WHICH WE CAN SUPPLY, AND FIT.

ANSI END CONNECTIONS: - ANSI RTJ (RING JOINT) FLANGED, SOCKETWELD, ANSI RF FLANGED (SMOOTH FINISH), LONG EXTENDED PUP ENDS, NPT, BSP, PBE, BUTTWELD STANDARD WEIGHT.

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, BUTTWELD SCHEDULE XXS.

SIZE RANGE API6A (API6B) 1 13/16 INCH, 2 1/16 INCH, 2 9/16 INCH, 3 1/8 INCH, 3 1/16 INCH, 4 1/16 INCH, 7 1/16 INCH.

BODY MATERIAL: - 4130 (60K), API TYPE 2 (API-4), API TYPE 4, A487C.

SPECIFICATION: - PR1, PR2, PSL1, PSL2, TEMPU.

NACE MR-01-75, H2S SERVICE.

MATERIAL: - WCB, A105N, LF2, CAST IRON, DUCTILE IRON, F22, F11, WC6, WC5, ALLOY 20 (A20), MONEL, DUPLEX (F51), LF2 (LOW TEMPERATURE), LCB, 304, CF8, CF8M, 316, 304L, 316L, CF3, CF3M, CF8G, 347, CE8M, S31803, SAF2205, F5.

BOLTS: - B7M, L7M, B8, B8M.

OPERATOR: - LOCKABLE, GEN-OPERATED, EXTENDED BONNET, EXTENDED STEM, CHAIN WHEEL OPERATED, PNEUMATIC ACTUATOR, ELECTRIC ACTUATOR, ESD.

SEATS: - TEFLON, RPTFE, PEEK, CARBON PTFE, GRAPHITE, DEVLON, NYLON, TEFZEL, METAL TO METAL.

LOW AND HIGH TEMPERATURE.

O-RINGS/SEALS/PACKING: - VITON B, VITON AED, BUNA GRAPHITE.

BODY OR BONNET SEALS: - GRAPHITE, VITON, 316SS SPIRAL WOUND, GRAPHITE FILLED, 316SS RING JOINT GASKET, TEFLON, PTFE, AND RPTFE.

DIMENSIONS TO ANSI B16.1. END CONNECTIONS TO ANSI B16.34.

ANSI CLASS 125, ANSI CLASS 150, ANSI CLASS 300, ANSI CLASS 600, ANSI CLASS 900, ANSI CLASS 1500, ANSI CLASS 2500, ANSI CLASS 2690.

API6A 2000 LB (2000 PSI), 3000 LB (3000 PSI), 5000 LB (5000 PSI), 10000 LB (10000 PSI), 15000 LB (15000 PSI).

LONG PATTERN, SHORT PATTERN.

FULL PORT (FULL BORE), REDUCED PORT (REDUCED BORE).

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (⅜ INCH)	200MM NB	8 INCH
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SPECIALS

CRYOGENIC, HIGH TEMPERATURE, LOW TEMPERATURE, ESD EMERGENCY SHUTDOWN.

- D. **BALL VALVES 3 WAY AND 4 WAY**, L PORT, T PORT, CAST IRON, A216 WCB CAST STEEL, A351 CF8 AND CF8M STAINLESS STEEL, LEVER OPERATED GEAR OPERATED AND WITH PNEUMATIC ACTUATOR.

ANSI END CONNECTIONS: - ANSI RTJ (RING JOINT) FLANGED, SOCKETWELD, ANSI RF FLANGED (SMOOTH FINISH), LONG EXTENDED PUP ENDS, NPT, BSP, PBE, BUTTWELD STANDARD WEIGHT.

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, BUTTWELD SCHEDULE XXS.

OTHER END CONNECTIONS: - FLANGED BS TABLE D (AS TABLE D), FLANGED BS TABLE E (AS TABLE E), FLANGED BS TABLE F (AS TABLE F), FLANGED BS TABLE H (AS TABLE H), FLANGED BS TABLE J (AS TABLE J), FLANGED BS TABLE K (AS TABLE K), FLANGED BS TABLE R (AS TABLE R).

FLANGED: - PN16, PN10, PN25, JIS10, DIN10, DIN16, ANSI 125 CLASS, ANSI 150 CLASS, ANSI 300 CLASS.

NACE MR-01-75, H2S SERVICE.

MATERIAL: - WCB, A105N, LF2, CAST IRON, DUCTILE IRON, F22, F11, WC6, WC5, ALLOY 20 (A20), MONEL, DUPLEX (F51), LF2 (LOW TEMPERATURE), LCB, 304, CF8, CF8M, 316, 304L, 316L, CF3, CF3M, CF8G, 347, CE8M, S31803, SAF2205, F5.

OPERATOR: - LOCKABLE, GEN-OPERATED, EXTENDED BONNET, EXTENDED STEM, CHAIN WHEEL OPERATED, PNEUMATIC ACTUATOR, ELECTRIC ACTUATOR, ESD.

SEATS: - TEFLON, RPTFE, PEEK, CARBON PTFE, GRAPHITE, DEVLON, NYLON, TEFZEL, METAL TO METAL.

LOW AND HIGH TEMPERATURE.

FULL PORT (FULL BORE), REDUCED PORT (REDUCED BORE).

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (¾ INCH)	200MM NB	8 INCH
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125MM NB	5 INCH	800MM NB	36 INCH
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- E. **BUTTERFLY VALVES**, RUBBER LINED API609, PTFE (TEFLON) LINED, HIGH PERFORMANCE WITH DOUBLE ECCENTRIC OFFSET DISC OR TRIPLE ECCENTRIC OFFSET DISC, PTFE OR METAL TO METAL SEATED CLASS V AND CLASS V1 SHUTOFF, FIRESAFE, LEVER OR GEAR OPERATED OR WITH PNEUMATIC ACTUATOR. BUNA (NBR SEAT), VITON SEAT, EPDM SEAT. ALSO AVAILABLE IN THE FOLLOWING LINERS: - 2100 KPA, 2500 KPA, 3000 KPA, 4000 KPA.

ANSI END CONNECTIONS: - ANSI RTJ (RING JOINT) FLANGED, SOCKETWELD, ANSI RF FLANGED (SMOOTH FINISH), LONG EXTENDED PUP ENDS, NPT, BSP, PBE, BUTTWELD STANDARD WEIGHT.

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, BUTTWELD SCHEDULE XXS.

OTHER END CONNECTIONS: - FLANGED BS TABLE D (AS TABLE D), FLANGED BS TABLE E (AS TABLE E), FLANGED BS TABLE F (AS TABLE F), FLANGED BS TABLE H (AS TABLE H), FLANGED BS TABLE J (AS TABLE J), FLANGED BS TABLE K (AS TABLE K), FLANGED BS TABLE R (AS TABLE R).

FLANGED: - PN16, PN10, PN25, JIS10, DIN10, DIN16, ANSI 125 CLASS, ANSI 150 CLASS, ANSI 300 CLASS.

NACE MR-01-75, H2S SERVICE.

MATERIAL: - WCB, A105N, LF2, CAST IRON, DUCTILE IRON, F22, F11, WC6, WC5, ALLOY 20 (A20), MONEL, DUPLEX (F51), LF2 (LOW TEMPERATURE), LCB, 304, CF8, CF8M, 316, 304L, 316L, CF3, CF3M, CF8G, 347, CE8M, S31803, SAF2205, F5.

OPERATOR: - LOCKABLE, GEN-OPERATED, EXTENDED BONNET, EXTENDED STEM, CHAIN WHEEL OPERATED, PNEUMATIC ACTUATOR, ELECTRIC ACTUATOR, ESD.

END CONNECTION STYLES: - LUGGED, FULLY LUGGED AND TAPPED, DUAL FLANGED, FLANGELESS.

ANSI CLASS 125, ANSI CLASS 150, ANSI CLASS 300, ANSI CLASS 600, ANSI CLASS 900, ANSI CLASS 1500, ANSI CLASS 2500, ANSI CLASS 2690.

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
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125MM NB	5 INCH	800MM NB	36 INCH
150MM NB	6 INCH	900MM NB	40 INCH

SPECIALS

CRYOGENIC, HIGH TEMPERATURE, LOW TEMPERATURE, ESD EMERGENCY SHUTDOWN.

- F. **CHECK VALVES** CAST AND FORGED, PISTON (LIFT) SWING, BALL TYPE, INLINE AND RIGHT ANGLE, VERTICAL SERVICE C/W SPRING, AXIAL DISC Y-TYPE, PIGGABLE. BS1868, API603, API602, ANSI B16.34. OPTIONAL COUNTERWEIGHT.

ANSI END CONNECTIONS: - ANSI RTJ (RING JOINT) FLANGED, SOCKETWELD, ANSI RF FLANGED (SMOOTH FINISH), LONG EXTENDED PUP ENDS, NPT, BSP, PBE, BUTTWELD STANDARD WEIGHT.

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BOLTS: - B7M, L7M, B8, B8M.

BODY OR BONNET SEALS: - GRAPHITE, VITON, 316SS SPIRAL WOUND, GRAPHITE FILLED, 316SS RING JOINT GASKET, TEFLON, PTFE, AND RPTFE.

DIMENSIONS TO ANSI B16.1. END CONNECTIONS TO ANSI B16.34.

ANSI CLASS 125, ANSI CLASS 150, ANSI CLASS 300, ANSI CLASS 600, ANSI CLASS 900, ANSI CLASS 1500, ANSI CLASS 2500, ANSI CLASS 2690.

WELDED BONNET, PRESSURE SEAL BONNET, BOLTED BONNET, BBOSY (RISING STEM, RISING SPINDLE), BBISY (NON RISING STEM, RISING SPINDLE).

FULL PORT (FULL BORE), REDUCED PORT (REDUCED BORE).

SIZES

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- G. **CHECK WAFER**, API594, DUAL FLAP AND SINGLE FLAP, METAL SEATED AND SOFT SEATED (BUNA, VITON, PTFE), INCONEL X750 SPRING, CONCENTRIC FLOATING, STELLITE SEAT AND DISC, HYUNDAI AND SUPERCHECK. RETAINER TYPE AND RETAINERLESS TYPE. EQUIVALENT TO GOODWIN[®], MISSION[®], STOCKHAM-CRANE[®].

ANSI END CONNECTIONS: - ANSI RTJ (RING JOINT) FLANGED, SOCKETWELD, ANSI RF FLANGED (SMOOTH FINISH), LONG EXTENDED PUP ENDS, NPT, BSP, PBE, BUTTWELD STANDARD WEIGHT.

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, BUTTWELD SCHEDULE XXS.

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FLANGED: - PN16, PN10, PN25, JIS10, DIN10, DIN16, ANSI 125 CLASS, ANSI 150 CLASS, ANSI 300 CLASS.

SIZE RANGE API6A (API6B) 1 13/16 INCH, 2 1/16 INCH, 2 9/16 INCH, 3 1/8 INCH, 3 1/16 INCH, 4 1/16 INCH, 7 1/16 INCH.

BODY MATERIAL: - 4130 (60K), API TYPE 2 (API-4), API TYPE 4, A487C.

SPECIFICATION: - PR1, PR2, PSL1, PSL2, TEMPU.

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MATERIAL: - WCB, A105N, LF2, CAST IRON, DUCTILE IRON, F22, F11, WC6, WC5, ALLOY 20 (A20), MONEL, DUPLEX (F51), LF2 (LOW TEMPERATURE), LCB, 304, CF8, CF8M, 316, 304L, 316L, CF3, CF3M, CF8G, 347, CE8M, CD3MN, S31803, SAF2205, F5.

END CONNECTION STYLES: - LUGGED, FULLY LUGGED AND TAPPED, DUAL FLANGED, FLANGELESS.

ANSI CLASS 125, ANSI CLASS 150, ANSI CLASS 300, ANSI CLASS 600, ANSI CLASS 900, ANSI CLASS 1500, ANSI CLASS 2500, ANSI CLASS 2690.

API6A 2000 LB (2000 PSI), 3000 LB (3000 PSI), 5000 LB (5000 PSI), 10000 LB (10000 PSI), 15000 LB (15000 PSI).

LONG PATTERN, SHORT PATTERN,

SIZES

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150MM NB	6 INCH	900MM NB	40 INCH

- H. **CHECK VALVE SWING TYPE**, RUBBER DISC, AND NX AND N SAUNDERS STYLE. HARD AND SOFT RUBBER LINED, C/W BUTYL 'B' FLAPPER OR VITON.

OTHER END CONNECTIONS: - FLANGED BS TABLE D (AS TABLE D), FLANGED BS TABLE E (AS TABLE E), FLANGED BS TABLE F (AS TABLE F), FLANGED BS TABLE H (AS TABLE H), FLANGED BS TABLE J (AS TABLE J), FLANGED BS TABLE K (AS TABLE K), FLANGED BS TABLE R (AS TABLE R).

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BODY OR BONNET SEALS: - GRAPHITE, VITON, 316SS SPIRAL WOUND, GRAPHITE FILLED, 316SS RING JOINT GASKET, TEFLON, PTFE, AND RPTFE.

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- I. **DIAPHRAGM VALVE** STYLE KB AND A2 SAUNDERS[®]™ EQUIVALENT, STRAIGHT THROUGH AND WEIR, A15, A20, A25, A40, A50, A65, A70, A100, A150, A200, A250, A300, A350, KB15, KB20, KB25, KB40, KB50, KB65, KB80, KB100, KB150, KB200, KB250, KB300, KB350. HARD RUBBER LINED, SOFT RUBBER LINED, HALAR LINED, GLASS LINED C/W BUTYL RUBBER 'B' DIAPHRAGM OR PTFE OR VITON DIAPHRAGM. HANDWHEEL OPERATED OR PNEUMATIC ACTUATOR (ES60, ES64, ES69 ETC). DOUBLE ACTING OR SPRING RETURN.

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J GATE VALVES FLEXIBLE AND SOLID WEDGE FORGED AND CAST, TYPE API600, API603, API602, ANSI B16.34, METAL SEAT, AND PTFE SEAT BLOCK AND BLEED TYPE.

ANSI END CONNECTIONS: - ANSI RTJ (RING JOINT) FLANGED, SOCKETWELD, ANSI RF FLANGED (SMOOTH FINISH), LONG EXTENDED PUP ENDS, NPT, BSP, PBE, BUTTWELD STANDARD WEIGHT.

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, BUTTWELD SCHEDULE XXS.

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NACE MR-01-75, H2S SERVICE.

MATERIAL: - WCB, A105N, LF2, CAST IRON, DUCTILE IRON, F22, F11, WC6, WC5, ALLOY 20 (A20), MONEL, DUPLEX (F51), LF2 (LOW TEMPERATURE), LCB, 304, CF8, CF8M, 316, 304L, 316L, CF3, CF3M, CF8G, 347, CE8M, S31803, SAF2205, F5.

BOLTS: - B7M, L7M, B8, B8M.

OPERATOR: - LOCKABLE, GEN-OPERATED, EXTENDED BONNET, EXTENDED STEM, CHAIN WHEEL OPERATED, PNEUMATIC ACTUATOR, ELECTRIC ACTUATOR, ESD.

BODY OR BONNET SEALS: - GRAPHITE, VITON, 316SS SPIRAL WOUND, GRAPHITE FILLED, 316SS RING JOINT GASKET, TEFLON, PTFE, AND RPTFE.

DIMENSIONS TO ANSI B16.1. END CONNECTIONS TO ANSI B16.34.

ANSI CLASS 125, ANSI CLASS 150, ANSI CLASS 300, ANSI CLASS 600, ANSI CLASS 900, ANSI CLASS 1500, ANSI CLASS 2500, ANSI CLASS 2690.

LONG PATTERN, SHORT PATTERN.

WELDED BONNET, PRESSURE SEAL BONNET, BOLTED BONNET, BBOSY (RISING STEM, RISING SPINDLE), BBISY (NON RISING STEM, RISING SPINDLE).

FULL PORT (FULL BORE), REDUCED PORT (REDUCED BORE).

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (¾ INCH)	200MM NB	8 INCH
15MM NB	.5 INCH (½ INCH)	250MM NB	9 INCH
20MM NB	.75 INCH (¾ INCH)	300MM NB	10 INCH
25MM NB	1 INCH	350MM NB	12 INCH

32MM NB	1.25 INCH (1¼ INCH)	375MM NB	14 INCH
40MM NB	1.5 INCH (1½ INCH)	400MM NB	16 INCH
50MM NB	2 INCH	450MM NB	18 INCH
65MM NB	2.5 INCH (2½ INCH)	600MM NB	22 INCH
80MM NB	3 INCH	700MM NB	26 INCH
100MM NB	4 INCH	750MM NB	30 INCH
125MM NB	5 INCH	800MM NB	36 INCH
150MM NB	6 INCH	900MM NB	40 INCH

SPECIALS

CRYOGENIC, HIGH TEMPERATURE, LOW TEMPERATURE, ESD EMERGENCY SHUTDOWN.

K. GATE VALVE API6D, PIPELINE TYPE, EXPANDING AND SLAB FULL THROUGH CONDUIT.

ANSI END CONNECTIONS: - ANSI RTJ (RING JOINT) FLANGED, SOCKETWELD, ANSI RF FLANGED (SMOOTH FINISH), LONG EXTENDED PUP ENDS, NPT, BSP, PBE, BUTTWELD STANDARD WEIGHT.

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, BUTTWELD SCHEDULE XXS.

NACE MR-01-75, H2S SERVICE.

MATERIAL: - WCB, A105N, LF2, CAST IRON, DUCTILE IRON, F22, F11, WC6, WC5, ALLOY 20 (A20), MONEL, DUPLEX (F51), LF2 (LOW TEMPERATURE), LCB, 304, CF8, CF8M, 316, 304L, 316L, CF3, CF3M, CF8G, 347, CE8M, S31803, SAF2205, F5.

BOLTS: - B7M, L7M, B8, B8M.

ANSI CLASS 125, ANSI CLASS 150, ANSI CLASS 300, ANSI CLASS 600, ANSI CLASS 900, ANSI CLASS 1500, ANSI CLASS 2500.

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (¾ INCH)	200MM NB	8 INCH
15MM NB	.5 INCH (½ INCH)	250MM NB	9 INCH
20MM NB	.75 INCH (¾ INCH)	300MM NB	10 INCH
25MM NB	1 INCH	350MM NB	12 INCH
32MM NB	1.25 INCH (1¼ INCH)	375MM NB	14 INCH
40MM NB	1.5 INCH (1½ INCH)	400MM NB	16 INCH
50MM NB	2 INCH	450MM NB	18 INCH
65MM NB	2.5 INCH (2½ INCH)	600MM NB	22 INCH
80MM NB	3 INCH	700MM NB	26 INCH
100MM NB	4 INCH	750MM NB	30 INCH
125MM NB	5 INCH	800MM NB	36 INCH
150MM NB	6 INCH	900MM NB	40 INCH

L. GATE VALVE PARALLEL SLIDE TYPE, TWIN DISC PARALLEL SPRING, ENERGISED DISCS AND EXPANDING DISCS. STEAM AND HIGH TEMPERATURE APV-STEAMCO.

ANSI END CONNECTIONS: - ANSI RTJ (RING JOINT) FLANGED, SOCKETWELD, ANSI RF FLANGED (SMOOTH FINISH), LONG EXTENDED PUP ENDS, NPT, BSP, PBE, BUTTWELD STANDARD WEIGHT.

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, BUTTWELD SCHEDULE XXS.

OTHER END CONNECTIONS: - FLANGED BS TABLE D (AS TABLE D), FLANGED BS TABLE E (AS TABLE E), FLANGED BS TABLE F (AS TABLE F), FLANGED BS TABLE H (AS TABLE H), FLANGED BS TABLE J (AS TABLE J), FLANGED BS TABLE K (AS TABLE K), FLANGED BS TABLE R (AS TABLE R).

FLANGED: - PN16, PN10, PN25, JIS10, DIN10, DIN16, ANSI 125 CLASS, ANSI 150 CLASS, ANSI 300 CLASS.

NACE MR-01-75, H2S SERVICE.

MATERIAL: - WCB, A105N, LF2, CAST IRON, DUCTILE IRON, F22, F11, WC6, WC5, ALLOY 20 (A20), MONEL, DUPLEX (F51), LF2 (LOW TEMPERATURE), LCB, 304, CF8, CF8M, 316, 304L, 316L, CF3, CF3M, CF8G, 347, CE8M, S31803, SAF2205, F5.

BOLTS: - B7M, L7M, B8, B8M, B16

ANSI CLASS 125, ANSI CLASS 150, ANSI CLASS 300, ANSI CLASS 600, ANSI CLASS 900, ANSI CLASS 1500, ANSI CLASS 2500, ANSI CLASS 2690.

WELDED BONNET, PRESSURE SEAL BONNET, BOLTED BONNET, BBOSY (RISING STEM, RISING SPINDLE), BBISY (NON RISING STEM, RISING SPINDLE).

FULL PORT (FULL BORE), REDUCED PORT (REDUCED BORE).

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (¾ INCH)	200MM NB	8 INCH
15MM NB	.5 INCH (½ INCH)	250MM NB	9 INCH
20MM NB	.75 INCH (¾ INCH)	300MM NB	10 INCH
25MM NB	1 INCH	350MM NB	12 INCH
32MM NB	1.25 INCH (1¼ INCH)	375MM NB	14 INCH
40MM NB	1.5 INCH (1½ INCH)	400MM NB	16 INCH
50MM NB	2 INCH	450MM NB	18 INCH
65MM NB	2.5 INCH (2½ INCH)	600MM NB	22 INCH
80MM NB	3 INCH	700MM NB	26 INCH
100MM NB	4 INCH	750MM NB	30 INCH
125MM NB	5 INCH	800MM NB	36 INCH
150MM NB	6 INCH	900MM NB	40 INCH

- M. **GATE API6A** FULL THROUGH CONDUIT, WKM STYLE IN EXPANDING SLAB AND CAMERON[®]™ STYLE FC FLOATING SOLID SLAB, SOFT PTFE SEAT AND METAL SEAT, XMAS TREE TYPE.

END CONNECTIONS: - RTJ (RING JOINT)

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, BUTTWELD SCHEDULE XXS, NPT (LP) THREADED.

SIZE RANGE API6A (API6B) 1 13/16 INCH, 2 1/16 INCH, 2 9/16 INCH, 3 1/8 INCH, 3 1/16 INCH, 4 1/16 INCH, 7 1/16 INCH.

BODY MATERIAL: - 4130 (60K), API TYPE 2 (API-4), API TYPE 4, A487C.

SPECIFICATION: - PR1, PR2, PSL1, PSL2, TEMPU.

API6A 2000 LB (2000 PSI), 3000 LB (3000 PSI), 5000 LB (5000 PSI), 10000 LB (10000 PSI), 15000 LB (15000 PSI).

- N. **GATE-KNIFE**, METAL SEAT, PTFE SEAT, NBR/BUNA SEAT, VITON SEAT, GENERAL SLURRY AND ABRASIVE SERVICE, HANDWHEEL, GEAR OPERATED PNEUMATIC ACTUATOR. IRON AND STAINLESS BODY.

OTHER END CONNECTIONS: - FLANGED BS TABLE D (AS TABLE D), FLANGED BS TABLE E (AS TABLE E), FLANGED BS TABLE F (AS TABLE F), FLANGED BS TABLE H (AS TABLE H), FLANGED BS TABLE J (AS TABLE J), FLANGED BS TABLE K (AS TABLE K), FLANGED BS TABLE R (AS TABLE R).

FLANGED: - PN16, PN10, PN25, JIS10, DIN10, DIN16, ANSI 125 CLASS, ANSI 150 CLASS, ANSI 300 CLASS.

OPERATOR: - LOCKABLE, GEN-OPERATED, EXTENDED BONNET, EXTENDED STEM, CHAIN WHEEL OPERATED, PNEUMATIC ACTUATOR, ELECTRIC ACTUATOR, ESD.

FULL PORT (FULL BORE)

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (⅜ INCH)	200MM NB	8 INCH
15MM NB	.5 INCH (½ INCH)	250MM NB	9 INCH
20MM NB	.75 INCH (¾ INCH)	300MM NB	10 INCH
25MM NB	1 INCH	350MM NB	12 INCH
32MM NB	1.25 INCH (1¼ INCH)	375MM NB	14 INCH
40MM NB	1.5 INCH (1½ INCH)	400MM NB	16 INCH
50MM NB	2 INCH	450MM NB	18 INCH
65MM NB	2.5 INCH (2½ INCH)	600MM NB	22 INCH
80MM NB	3 INCH	700MM NB	26 INCH
100MM NB	4 INCH	750MM NB	30 INCH
125MM NB	5 INCH	800MM NB	36 INCH
150MM NB	6 INCH	900MM NB	40 INCH

- O. **GATE VALVE IRON**, FIGURE 600, FIGURE 601, SLURRY AND WATER SERVICE. WEDGE GATE AND SLUICE, BRONZE AND STAINLESS TRIM. AS2129 B55150, MSS SP70, PN10, PN16, BS5163, PN10, PN16, 1400KPA, 2100KPA, JIS, JOHNS® EQUIVALENT.

OTHER END CONNECTIONS: - FLANGED BS TABLE D (AS TABLE D), FLANGED BS TABLE E (AS TABLE E), FLANGED BS TABLE F (AS TABLE F), FLANGED BS TABLE H (AS TABLE H), FLANGED BS TABLE J (AS TABLE J), FLANGED BS TABLE K (AS TABLE K), FLANGED BS TABLE R (AS TABLE R).

FLANGED: - PN16, PN10, PN25, JIS10, DIN10, DIN16, ANSI 125 CLASS, ANSI 150 CLASS, ANSI 300 CLASS.

OPERATOR: - LOCKABLE, GEN-OPERATED, EXTENDED BONNET, EXTENDED STEM, CHAIN WHEEL OPERATED, PNEUMATIC ACTUATOR, ELECTRIC ACTUATOR, ESD.

WELDED BONNET, PRESSURE SEAL BONNET, BOLTED BONNET, BBOSY (RISING STEM, RISING SPINDLE), BBISY (NON RISING STEM, RISING SPINDLE).

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (⅜ INCH)	200MM NB	8 INCH
15MM NB	.5 INCH (½ INCH)	250MM NB	9 INCH
20MM NB	.75 INCH (¾ INCH)	300MM NB	10 INCH
25MM NB	1 INCH	350MM NB	12 INCH
32MM NB	1.25 INCH (1¼ INCH)	375MM NB	14 INCH
40MM NB	1.5 INCH (1½ INCH)	400MM NB	16 INCH
50MM NB	2 INCH	450MM NB	18 INCH
65MM NB	2.5 INCH (2½ INCH)	600MM NB	22 INCH
80MM NB	3 INCH	700MM NB	26 INCH
100MM NB	4 INCH	750MM NB	30 INCH
125MM NB	5 INCH	800MM NB	36 INCH
150MM NB	6 INCH	900MM NB	40 INCH

- P. **GLOBE VALVE**, BS1873, API643, ANSI B16.34, API600, TAPERED V STYLE CONTROL DISC, PARABOLIC DISC.

ANSI END CONNECTIONS: - ANSI RTJ (RING JOINT) FLANGED, SOCKETWELD, ANSI RF FLANGED (SMOOTH FINISH), LONG EXTENDED PUP ENDS, NPT, BSP, PBE, BUTTWELD STANDARD WEIGHT.

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, BUTTWELD SCHEDULE XXS.

OTHER END CONNECTIONS: - FLANGED BS TABLE D (AS TABLE D), FLANGED BS TABLE E (AS TABLE E), FLANGED BS TABLE F (AS TABLE F), FLANGED BS TABLE H (AS TABLE H), FLANGED BS TABLE J (AS TABLE J), FLANGED BS TABLE K (AS TABLE K), FLANGED BS TABLE R (AS TABLE R).

FLANGED: - PN16, PN10, PN25, JIS10, DIN10, DIN16, ANSI 125 CLASS, ANSI 150 CLASS, ANSI 300 CLASS.

NACE MR-01-75, H2S SERVICE.

MATERIAL: - WCB, A105N, LF2, CAST IRON, DUCTILE IRON, F22, F11, WC6, WC5, ALLOY 20 (A20), MONEL, DUPLEX (F51), LF2 (LOW TEMPERATURE), LCB, 304, CF8, CF8M, 316, 304L, 316L, CF3, CF3M, CF8G, 347, CE8M, S31803, SAF2205, F5.

BOLTS: - B7M, L7M, B8, B8M, B16.

OPERATOR: - LOCKABLE, GEN-OPERATED, EXTENDED BONNET, EXTENDED STEM, CHAIN WHEEL OPERATED, PNEUMATIC ACTUATOR, ELECTRIC ACTUATOR, ESD.

BODY OR BONNET SEALS: - GRAPHITE, VITON, 316SS SPIRAL WOUND, GRAPHITE FILLED, 316SS RING JOINT GASKET, TEFLON, PTFE, AND RPTFE.

DIMENSIONS TO ANSI B16.1. END CONNECTIONS TO ANSI B16.34.

ANSI CLASS 125, ANSI CLASS 150, ANSI CLASS 300, ANSI CLASS 600, ANSI CLASS 900, ANSI CLASS 1500, ANSI CLASS 2500, ANSI CLASS 2690.

LONG PATTERN, SHORT PATTERN.

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (⅜ INCH)	200MM NB	8 INCH
15MM NB	.5 INCH (½ INCH)	250MM NB	9 INCH
20MM NB	.75 INCH (¾ INCH)	300MM NB	10 INCH
25MM NB	1 INCH	350MM NB	12 INCH
32MM NB	1.25 INCH (1¼ INCH)	375MM NB	14 INCH
40MM NB	1.5 INCH (1½ INCH)	400MM NB	16 INCH
50MM NB	2 INCH	450MM NB	18 INCH
65MM NB	2.5 INCH (2½ INCH)	600MM NB	22 INCH
80MM NB	3 INCH	700MM NB	26 INCH
100MM NB	4 INCH	750MM NB	30 INCH
125MM NB	5 INCH	800MM NB	36 INCH
150MM NB	6 INCH	900MM NB	40 INCH

SPECIALS

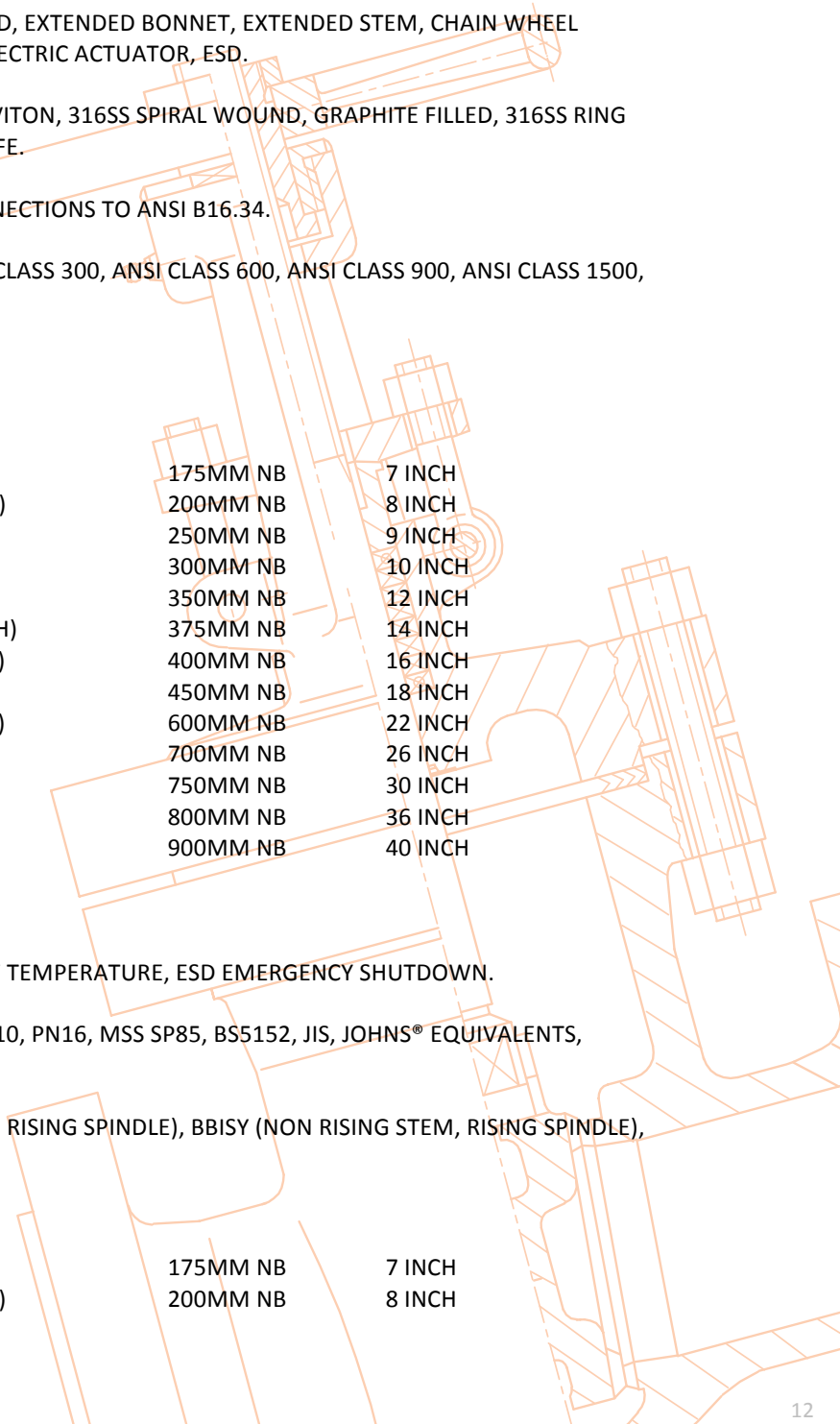
CRYOGENIC, HIGH TEMPERATURE, LOW TEMPERATURE, ESD EMERGENCY SHUTDOWN.

P1 **GLOBE VALVE, CAST IRON**, AS2129, PN10, PN16, MSS SP85, BS5152, JIS, JOHNS® EQUIVALENTS, 2100KPA, 1400KPA.

BOLTED BONNET, BBO5Y (RISING STEM, RISING SPINDLE), BBI5Y (NON RISING STEM, RISING SPINDLE), BELLOWS SEALED.

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (⅜ INCH)	200MM NB	8 INCH



15MM NB	.5 INCH (½ INCH)	250MM NB	9 INCH
20MM NB	.75 INCH (¾ INCH)	300MM NB	10 INCH
25MM NB	1 INCH	350MM NB	12 INCH
32MM NB	1.25 INCH (1¼ INCH)	375MM NB	14 INCH
40MM NB	1.5 INCH (1½ INCH)	400MM NB	16 INCH
50MM NB	2 INCH	450MM NB	18 INCH
65MM NB	2.5 INCH (2½ INCH)	600MM NB	22 INCH
80MM NB	3 INCH	700MM NB	26 INCH
100MM NB	4 INCH	750MM NB	30 INCH
125MM NB	5 INCH	800MM NB	36 INCH
150MM NB	6 INCH	900MM NB	40 INCH

Q. GLOBE – STOP CHECK (SCREWDOWN NON RETURN) IN LINE AND RIGHT ANGLE, APV STEAMCO.

ANSI END CONNECTIONS: - ANSI RTJ (RING JOINT) FLANGED, SOCKETWELD, ANSI RF FLANGED (SMOOTH FINISH), LONG EXTENDED PUP ENDS, NPT, BSP, PBE, BUTTWELD STANDARD WEIGHT.

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, BUTTWELD SCHEDULE XXS.

OTHER END CONNECTIONS: - FLANGED BS TABLE D (AS TABLE D), FLANGED BS TABLE E (AS TABLE E), FLANGED BS TABLE F (AS TABLE F), FLANGED BS TABLE H (AS TABLE H), FLANGED BS TABLE J (AS TABLE J), FLANGED BS TABLE K (AS TABLE K), FLANGED BS TABLE R (AS TABLE R).

FLANGED: - PN16, PN10, PN25, JIS10, DIN10, DIN16, ANSI 125 CLASS, ANSI 150 CLASS, ANSI 300 CLASS.

NACE MR-01-75, H2S SERVICE.

MATERIAL: - WCB, A105N, LF2, CAST IRON, DUCTILE IRON, F22, F11, WC6, WC5, ALLOY 20 (A20), MONEL, DUPLEX (F51), LF2 (LOW TEMPERATURE), LCB, 304, CF8, CF8M, 316, 304L, 316L, CF3, CF3M, CF8G, 347, CE8M, S31803, SAF2205, F5.

BOLTS: - B7M, L7M, B8, B8M.

ANSI CLASS 125, ANSI CLASS 150, ANSI CLASS 300, ANSI CLASS 600, ANSI CLASS 900, ANSI CLASS 1500, ANSI CLASS 2500, ANSI CLASS 2690.

WELDED BONNET, PRESSURE SEAL BONNET, BOLTED BONNET, BBOSY (RISING STEM, RISING SPINDLE),

BBISY (NON RISING STEM, RISING SPINDLE)

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (¾ INCH)	200MM NB	8 INCH
15MM NB	.5 INCH (½ INCH)	250MM NB	9 INCH
20MM NB	.75 INCH (¾ INCH)	300MM NB	10 INCH
25MM NB	1 INCH	350MM NB	12 INCH
32MM NB	1.25 INCH (1¼ INCH)	375MM NB	14 INCH
40MM NB	1.5 INCH (1½ INCH)	400MM NB	16 INCH
50MM NB	2 INCH	450MM NB	18 INCH
65MM NB	2.5 INCH (2½ INCH)	600MM NB	22 INCH
80MM NB	3 INCH	700MM NB	26 INCH
100MM NB	4 INCH	750MM NB	30 INCH
125MM NB	5 INCH	800MM NB	36 INCH
150MM NB	6 INCH	900MM NB	40 INCH

R. NEEDLE VALVES, GLOBE PATTERN AND STRAIGHT THROUGH, SOCKET WELD, NPT AND BSP MALE X FEMALE, FEMALE X FEMALE, V-TIP, PLUG TYPE, NEEDLE POINT TIP, ROTATING AND FIXED PLUG, LARGE ORIFICE AND STANDARD ORIFICE, C/W SIDE PORT AND BLEEDER PLUG, BLOCK AND BLEED STYLE,

ANDERSON GREENWOOD[®]™ EQUIVALENT, SIDE OUTLETS/MULTIPOINT METAL SEAT, PTFE SOFT SEAT, NYLON OR DELRIN SOFT SEAT.

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (⅜ INCH)	200MM NB	8 INCH
15MM NB	.5 INCH (½ INCH)	250MM NB	9 INCH
20MM NB	.75 INCH (¾ INCH)	300MM NB	10 INCH
25MM NB	1 INCH	350MM NB	12 INCH
32MM NB	1.25 INCH (1¼ INCH)	375MM NB	14 INCH
40MM NB	1.5 INCH (1½ INCH)	400MM NB	16 INCH
50MM NB	2 INCH	450MM NB	18 INCH
65MM NB	2.5 INCH (2½ INCH)	600MM NB	22 INCH
80MM NB	3 INCH	700MM NB	26 INCH
100MM NB	4 INCH	750MM NB	30 INCH
125MM NB	5 INCH	800MM NB	36 INCH
150MM NB	6 INCH	900MM NB	40 INCH

NPT, BSP AND WELD ENDS IN:

- 1000 PSI (6900 KPA), 2000 PSI (800 CLASS) (1400 KPA), 3000 PSI (API3000) (2800 KPA)
- 5000 PSI (API5000) (34500KPA), 6000 PSI (41400 KPA), 10000 PSI (69000 KPA)

- S. **PLUG VALVES LUBRICATED** API6D FIRESAFE, PRESSURE BALANCED (DYNAMIC BALANCED) AUDCO[®] AND NORDSTROM[®] STYLE, INVERTED PLUG, TAPERED PLUG, REGULAR PATTERN, SHORT PATTERN AND VENTURI PATTERN, (AND TRUE FULL CIRCULAR PORT FOR SLURRY SERVICE).

ANSI END CONNECTIONS: - ANSI RTJ (RING JOINT) FLANGED, SOCKETWELD, ANSI RF FLANGED (SMOOTH FINISH), LONG EXTENDED PUP ENDS, NPT, BSP, PBE, BUTTWELD STANDARD WEIGHT.

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, BUTTWELD SCHEDULE XXS.

NACE MR-01-75, H2S SERVICE.

BOLTS: - B7M, L7M, B8, B8M.

OPERATOR: - LOCKABLE, GEN-OPERATED, EXTENDED BONNET, EXTENDED STEM, CHAIN WHEEL OPERATED, PNEUMATIC ACTUATOR, ELECTRIC ACTUATOR, ESD.

DIMENSIONS TO ANSI B16.1. END CONNECTIONS TO ANSI B16.34.

ANSI CLASS 125, ANSI CLASS 150, ANSI CLASS 300, ANSI CLASS 600, ANSI CLASS 900, ANSI CLASS 1500, ANSI CLASS 2500.

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (⅜ INCH)	200MM NB	8 INCH
15MM NB	.5 INCH (½ INCH)	250MM NB	9 INCH
20MM NB	.75 INCH (¾ INCH)	300MM NB	10 INCH
25MM NB	1 INCH	350MM NB	12 INCH
32MM NB	1.25 INCH (1¼ INCH)	375MM NB	14 INCH
40MM NB	1.5 INCH (1½ INCH)	400MM NB	16 INCH
50MM NB	2 INCH	450MM NB	18 INCH
65MM NB	2.5 INCH (2½ INCH)	600MM NB	22 INCH
80MM NB	3 INCH	700MM NB	26 INCH
100MM NB	4 INCH	750MM NB	30 INCH
125MM NB	5 INCH	800MM NB	36 INCH

150MM NB

6 INCH

900MM NB

40 INCH

T. **PLUG VALVES PTFE/PFA/TEFLON SLEEVED** AND LINED, NON-LUBRICATED, 2 WAY AND 3 WAY, TAPER STYLE, SHORT PATTERN, REGULAR PATTERN.

OTHER END CONNECTIONS: - FLANGED BS TABLE D (AS TABLE D), FLANGED BS TABLE E (AS TABLE E), FLANGED BS TABLE F (AS TABLE F), FLANGED BS TABLE H (AS TABLE H), FLANGED BS TABLE J (AS TABLE J), FLANGED BS TABLE K (AS TABLE K), FLANGED BS TABLE R (AS TABLE R).

FLANGED: - PN16, PN10, PN25, JIS10, DIN10, DIN16, ANSI 125 CLASS, ANSI 150 CLASS, ANSI 300 CLASS.

NACE MR-01-75, H2S SERVICE.

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (⅜ INCH)	200MM NB	8 INCH
15MM NB	.5 INCH (½ INCH)	250MM NB	9 INCH
20MM NB	.75 INCH (¾ INCH)	300MM NB	10 INCH
25MM NB	1 INCH	350MM NB	12 INCH
32MM NB	1.25 INCH (1¼ INCH)	375MM NB	14 INCH
40MM NB	1.5 INCH (1½ INCH)	400MM NB	16 INCH
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65MM NB	2.5 INCH (2½ INCH)	600MM NB	22 INCH
80MM NB	3 INCH	700MM NB	26 INCH
100MM NB	4 INCH	750MM NB	30 INCH
125MM NB	5 INCH	800MM NB	36 INCH
150MM NB	6 INCH	900MM NB	40 INCH

U. **GEAR BOXES – VALVES:** - UP TO 33000NM (NEWTON METRES) TO SUIT BALL VALVE, PLUG VALVE ETC. UP TO 6000NM (NEWTON METRES) TO SUIT GATE VALVE, GLOBE VALVE ETC. EQUIVALENT TO ROTORK IB.

U1. **OILFIELD WELLHEAD GATE VALVES AND CHRISTMAS TREES (XMAS TREES),** MUD GATE VALVES DEMO EQUIVALENT, EXPANDING SLAB GATE VALVE WKM® 'M' EQUIVALENT AND CAMERON® FC EQUIVALENT FLOATING SLAB.

END CONNECTIONS: - RTJ (RING JOINT).

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, NPT (LP) THREADED.

SIZE RANGE API6A (API6B) 1 13/16 INCH, 2 1/16 INCH, 2 9/16 INCH, 3 1/8 INCH, 3 1/16 INCH, 4 1/16 INCH, 7 1/16 INCH.

BODY MATERIAL: - 4130 (60K), API TYPE 2 (API-4), API TYPE 4, A487C.

SPECIFICATION: - PR1, PR2, PSL1, PSL2, TEMPU.

API6A 2000 LB (2000 PSI), 3000 LB (3000 PSI), 5000 LB (5000 PSI), 10000 LB (10000 PSI), 15000 LB (15000 PSI).

U2. **OILFIELD CHOKES** RIGHT ANGLE AND INLINE, VARIABLE FIXED, BARREL TYPE BODY, MERLA™ AND CAMERON™ H2 EQUIVALENT, NEEDLE AND SEAT AND MULTIPLE ORIFICE TYPE, WATERFLOOD TYPE. 1 INCH ORIFICE, 1.5 INCH ORIFICE ETC. 1 INCH 64/64 INCH TRIM AND ALL OTHER SIZES. FCV-2 T TYPE ETC.

END CONNECTIONS: - RTJ (RING JOINT).

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, NPT (LP) THREADED.

SIZE RANGE API6A (API6B) 1 13/16 INCH, 2 1/16 INCH, 2 9/16 INCH, 3 1/8 INCH, 3 1/16 INCH, 4 1/16 INCH, 7 1/16 INCH.

BODY MATERIAL: - 4130 (60K), API TYPE 2 (API-4), API TYPE 4, A487C.

SPECIFICATION: - PR1, PR2, PSL1, PSL2, TEMPU.

API6A 2000 LB (2000 PSI), 3000 LB (3000 PSI), 5000 LB (5000 PSI), 10000 LB (10000 PSI), 15000 LB (15000 PSI).

U3. **SIGHT GLASSES:** - SINGLE SIDED, DOUBLE SIDED.

OTHER END CONNECTIONS: - FLANGED BS TABLE D (AS TABLE D), FLANGED BS TABLE E (AS TABLE E), FLANGED BS TABLE F (AS TABLE F), FLANGED BS TABLE H (AS TABLE H), FLANGED BS TABLE J (AS TABLE J), FLANGED BS TABLE K (AS TABLE K), FLANGED BS TABLE R (AS TABLE R).

FLANGED: - PN16, PN10, PN25, JIS10, DIN10, DIN16, ANSI 125 CLASS, ANSI 150 CLASS, ANSI 300 CLASS.

NACE MR-01-75, H2S SERVICE.

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (⅜ INCH)	200MM NB	8 INCH
15MM NB	.5 INCH (½ INCH)	250MM NB	9 INCH
20MM NB	.75 INCH (¾ INCH)	300MM NB	10 INCH
25MM NB	1 INCH	350MM NB	12 INCH
32MM NB	1.25 INCH (1¼ INCH)	375MM NB	14 INCH
40MM NB	1.5 INCH (1½ INCH)	400MM NB	16 INCH
50MM NB	2 INCH	450MM NB	18 INCH
65MM NB	2.5 INCH (2½ INCH)	600MM NB	22 INCH
80MM NB	3 INCH	700MM NB	26 INCH
100MM NB	4 INCH	750MM NB	30 INCH
125MM NB	5 INCH	800MM NB	36 INCH
150MM NB	6 INCH	900MM NB	40 INCH

U4. **STRAINERS** Y TYPE, T-TYPE, BASKET TYPE (BUCKET TYPE), SIMPLEX DUPLEX TYPE.

ANSI END CONNECTIONS: - ANSI RTJ (RING JOINT) FLANGED, SOCKETWELD, ANSI RF FLANGED (SMOOTH FINISH), LONG EXTENDED PUP ENDS, NPT, BSP, PBE, BUTTWELD STANDARD WEIGHT.

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, BUTTWELD SCHEDULE XXS.

OTHER END CONNECTIONS: - FLANGED BS TABLE D (AS TABLE D), FLANGED BS TABLE E (AS TABLE E), FLANGED BS TABLE F (AS TABLE F), FLANGED BS TABLE H (AS TABLE H), FLANGED BS TABLE J (AS TABLE J), FLANGED BS TABLE K (AS TABLE K), FLANGED BS TABLE R (AS TABLE R).

FLANGED: - PN16, PN10, PN25, JIS10, DIN10, DIN16, ANSI 125 CLASS, ANSI 150 CLASS, ANSI 300 CLASS.

NACE MR-01-75, H2S SERVICE, CLAM[®]™ EQUIVALENT.

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (⅜ INCH)	200MM NB	8 INCH
15MM NB	.5 INCH (½ INCH)	250MM NB	9 INCH
20MM NB	.75 INCH (¾ INCH)	300MM NB	10 INCH
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32MM NB	1.25 INCH (1¼ INCH)	375MM NB	14 INCH

40MM NB	1.5 INCH (1½ INCH)	400MM NB	16 INCH
50MM NB	2 INCH	450MM NB	18 INCH
65MM NB	2.5 INCH (2½ INCH)	600MM NB	22 INCH
80MM NB	3 INCH	700MM NB	26 INCH
100MM NB	4 INCH	750MM NB	30 INCH
125MM NB	5 INCH	800MM NB	36 INCH
150MM NB	6 INCH	900MM NB	40 INCH

U5. **WELLHEAD EQUIPMENT.** OCT (FMC®™) AND CAMERON®™ (CIW) STYLE, BRADEN HEADS (CASING HEADS), CASING SPOOLS, TUBING SPOOLS, CHRISTMAS TREES, ADAPTER FLANGES, ADAPTOR SPOOLS, VALVES AND CHOKES. X-BUSHINGS, FBBEN AND TCIA TUBING HANGERS, CA AND CW CASING SLIPS, NIPPLES, LUBRICATES BPV VALVES ETC.

1 13/16 INCH, 2 1/16 INCH 2 9/16 INCH, 3 1/8 INCH, 3 1/16 INCH, 4 1/16 INCH, 7 1/16 INCH, 9 INCH, 11 INCH, 13 5/8 INCH, 16 3/4 INCH, 21 1/4 INCH, 20 3/4 INCH.

API6A 2000 LB (2000 PSI), 3000 LB (3000 PSI), 5000 LB (5000 PSI), 10000 LB (10000 PSI), 15000 LB (15000 PSI).

U6. **OILFIELD PLUG VALVES.** FMC®™/SPM®™/HALLIBURTON®™ STYLE. LUBRICATED AND NON-LUBRICATED OILFIELD PLUG VALVE, VITON SLEEVED/SEGMENTS, WECO UNION ENDS 1002, 15002 AND NPT/LP THREADED ENDS.

END CONNECTIONS: - RTJ (RING JOINT).

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, NPT (LP) THREADED.

SIZE RANGE API6A (API6B) 1 13/16 INCH, 2 1/16 INCH, 2 9/16 INCH, 3 1/8 INCH, 3 1/16 INCH, 4 1/16 INCH, 7 1/16 INCH.

BODY MATERIAL: - 4130 (60K), API TYPE 2 (API-4), API TYPE 4, A487C.

SPECIFICATION: - PR1, PR2, PSL1, PSL2, TEMPU.

API6A 2000 LB (2000 PSI), 3000 LB (3000 PSI), 5000 LB (5000 PSI), 10000 LB (10000 PSI), 15000 LB (15000 PSI).

U7. **SAFETY RELIEF VALVES.** FARRIS®™ STYLE.

ANSI END CONNECTIONS: - ANSI RTJ (RING JOINT) FLANGED, SOCKETWELD, ANSI RF FLANGED (SMOOTH FINISH), LONG EXTENDED PUP ENDS, NPT, BSP, PBE, BUTTWELD STANDARD WEIGHT.

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, BUTTWELD, SCHEDULE XXS.

NACE MR-01-75, H2S SERVICE.

ANSI CLASS 125, ANSI CLASS 150, ANSI CLASS 300, ANSI CLASS 600, ANSI CLASS 900, ANSI CLASS 1500, ANSI CLASS 2500.

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (⅜ INCH)	200MM NB	8 INCH
15MM NB	.5 INCH (½ INCH)	250MM NB	9 INCH
20MM NB	.75 INCH (¾ INCH)	300MM NB	10 INCH
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40MM NB	1.5 INCH (1½ INCH)	400MM NB	16 INCH
50MM NB	2 INCH	450MM NB	18 INCH

65MM NB	2.5 INCH (2½ INCH)	600MM NB	22 INCH
80MM NB	3 INCH	700MM NB	26 INCH
100MM NB	4 INCH	750MM NB	30 INCH
125MM NB	5 INCH	800MM NB	36 INCH
150MM NB	6 INCH	900MM NB	40 INCH

U8. **CONTROL VALVES:** - GLOBE TYPE, PNEUMATIC ACTUATED FISHER®™ STYLE, V PORT CONTROL VALVES, BUTTERFLY CONTROL VALVES.

ANSI END CONNECTIONS: - ANSI RTJ (RING JOINT) FLANGED, SOCKETWELD, ANSI RF FLANGED (SMOOTH FINISH), LONG EXTENDED PUP ENDS, NPT, BSP, PBE, BUTTWELD STANDARD WEIGHT.

BUTTWELD SCHEDULE 40, BUTTWELD SCHEDULE 80, BUTTWELD SCHEDULE 160, BUTTWELD SCHEDULE XXS.

NACE MR-01-75, H2S SERVICE.

ANSI CLASS 125, ANSI CLASS 150, ANSI CLASS 300, ANSI CLASS 600, ANSI CLASS 900, ANSI CLASS 1500, ANSI CLASS 2500, ANSI CLASS 2690.

SIZES

8MM NB	.25 INCH (¼ INCH)	175MM NB	7 INCH
10MM NB	.375 INCH (⅜ INCH)	200MM NB	8 INCH
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