

GROUP	ITEM	NOTE	ITEM DESCRIPTION	ITEM MATERIAL
1	1a	❖	BODY	ASTM A216 gr. WCB
	1b		WELD SURFACING ON SEAT	NICKEL BUFFER + STELLITE 21
	1c	□	BODY HUB TUBING PROTECTION or BODY HUB WELD SURFACING	UNS N10276 (ALLOY C276) or UNS N06686 (ALLOY 686 CPT)
	1d		WELDING FOR TUBING PROTECTION	UNS N06686 (ALLOY 686 CPT)
2	2a		DISC	ASTM A494 M35-1
	2b		RETAINER FLANGE	UNS N04400 (MONEL 400)
	2c		SCREW	ASTM F468 UNS N10276 (ALLOY C276)
3	3a	●	SEAL RING	UNS N10276 (ALLOY C276) + GRAPHITE
	3b	●	DISC SPIRAL WOUND GASKET	UNS N10276 (ALLOY C276) + GRAPHITE
4	4a		SHAFT	ASTM B574 UNS N10276 (ALLOY C276)
	4b		DISC KEY	UNS N10276 (ALLOY C276)
	4c		PIN	UNS N10276 (ALLOY C276)
	4d		PIN RETAINER	UNS N10276 (ALLOY C276)
5	5a	●	PACKING	GRAPHITE
	5b		SPACER	UNS N04400 (MONEL 400)
	5c		PACKING BUSHING	UNS N04400 (MONEL 400)
	5d		STUD NUT	ASTM A194 gr. 7M
	5e		STUD BOLTS	ASTM A193 gr. B7M
6	6a	❖	BOTTOM FLANGE	UNS N04400 (MONEL 400)
	6b		SCREW	ASTM A193 gr. B7M
	6c	●	BOTTOM SPIRAL WOUND GASKET	UNS N10276 (ALLOY C276) + GRAPHITE
7	7a		THRUST BEARING	UNS N04400 (MONEL 400)
	7b		THRUST BEARING WASHER	UNS N05500 (MONEL K500)
	7c	□	KEY	UNS N10276 (ALLOY C276) or UNS N05500 (MONEL K500)
8	8a		BEARING	UNS N05500 (MONEL K500)
9	9a		BRACKET	CARBON STEEL
	9b		SCREW	ALLOY STEEL PTFE COATED

NOTES: □ = The selection between material depends on valve size
● = Suggested spare parts
❖ APPLICABLE SUPPLEMENTARY REQUIREMENTS OF ASTM CODES FOR ALKYLATION SERVICE
Contents may change without notice

FOR APPROVAL

vanessa
tyco valves & controls

SERIES 30,000 VALVE
BILL OF MATERIAL

ASTM A216 gr. WCB BODY
ASTM A 494 M-35-1 (MONEL) TRIM
- ALKILATION SERVICE -