



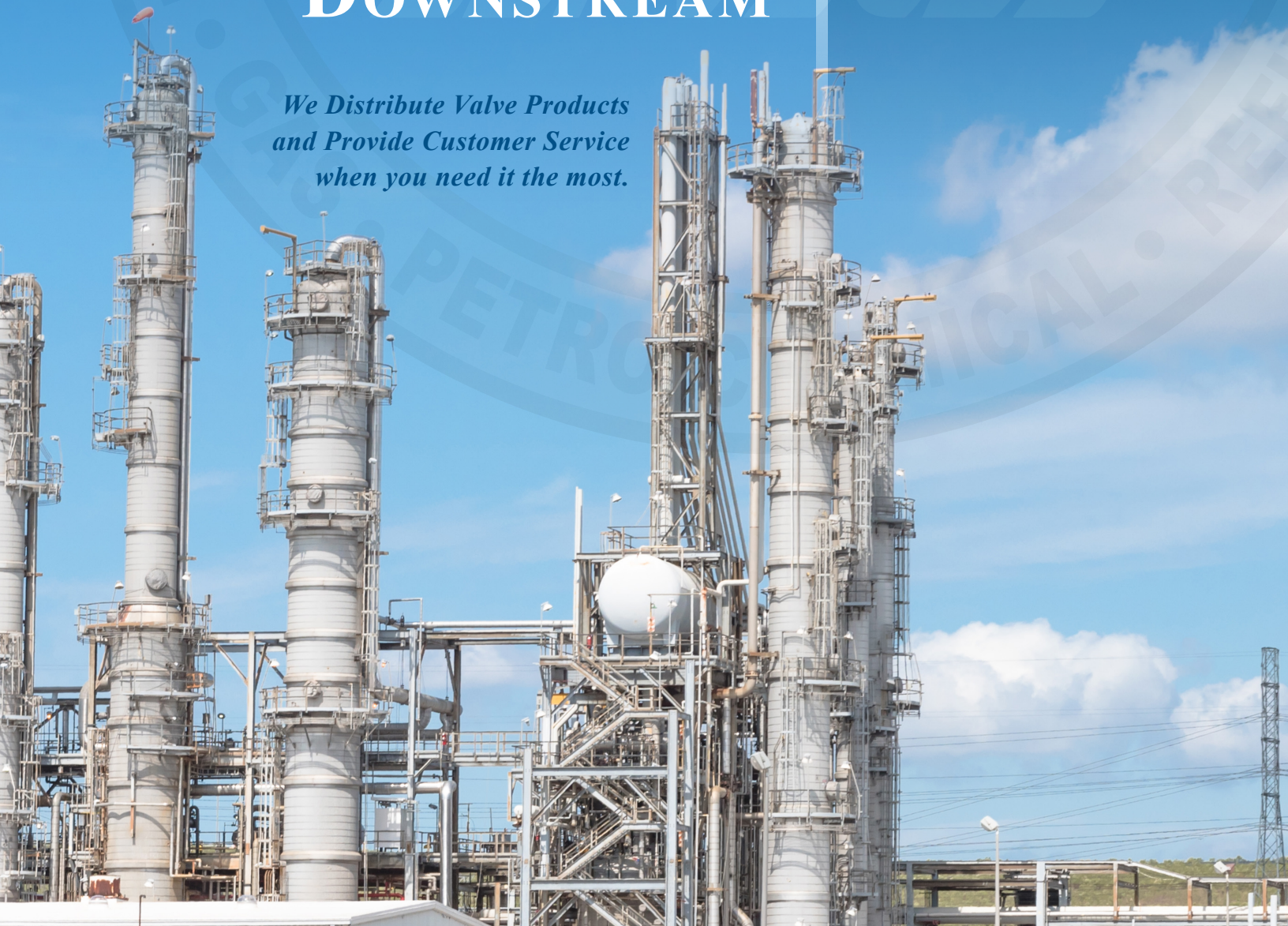
UPSTREAM MIDSTREAM DOWNSTREAM

*We Distribute Valve Products
and Provide Customer Service
when you need it the most.*

Customer Service.

Fast-Track Deliveries.

Special Materials and Designs.



COMPANY PROFILE



Alpine Services LLC is a supplier of recognized valve brands known for dependable quality and craftsmanship. We offer a diverse range of valves from standard steel to exotic metals for special applications and service conditions. Alpine Services provides customers the service they expect and deserve. We are supported with years of valve knowledge & experience both Domestic and International.

The products offered at Alpine Service are produced with cutting edge technology and to the latest revisions and specifications in the Industry.

Our Customers Choose Us Because:

- We acknowledge our customer inquiries, purchases and calls, we don't leave you guessing.
- We pay attention to detail of items requested and thoroughly explain any exceptions. No surprises!
- Available when you need someone the most to help you with urgent requirements.

CERTIFIED BY
WBENC/WECConnect INTERNATIONAL

**WOMEN
OWNED**TM

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PRODUCT DESIGNS , MATERIALS AND BRANDS

- API 6D & 6A TRUNNION BALL VALVES – 3PCS FORGED, FULLY WELDED & TOP ENTRY
- FLOATING BALL VALVES CAST , FORGED, BRONZE & DUCTILE IRON
- CRYOGENIC BALL VALVES
- METAL TO METAL SEATED BALL VALVES FOR SEVERE SERVICE
- RISING STEM BALL VALVES
- CAST, FORGED, BRONZE, CAST IRON & DUCTILE IRON GATE , GLOBE & CHECK (SWING, PISTON , DUAL PLATE & THRU CONDUIT API 6D) VALVES.
- BUTTERFLY, THRU CONDUIT API 6D GATE, KNIFE , NEEDLE & PLUG VALVES
- CLASS 150 – 2500 & 1690, 2680 & 4500 RATINGS. API 6A 5000 – 20,000PSI
- CARBON STEEL A216 WCB/A105, LOW TEMP A352 LCC /A350 LF2
- STAINLESS STEEL A351 CF8M /A182 F316, CF3M/F316L, CF8/F304,CF10/F304H
- WC6 / F11,WC9/F22 ,C5/F5,C12/F9
- DUPLEX CD3MN/F51, CD3MWCuN/F55, CD3MN/F60, FERRALIUM 255
- NICKELL ALLOYS HASTELLOY B/B2/C276, ALLOY 20/M-ALLOY 20, INCONEL 600/625/800 & 400, MONEL, TITANIUM
- FLANGED RAISED FACE OR RTJ, BUTTWELD, THREADED, SOCKET WELD, THD X SW, EXTENDED BONNETS & WELDED BONNETS.

ADVANCE | ANDERSON GREENWOOD | APOLLO | BALON | BETTIS | BRAND X | BRAY | CAMERON | CENTERLINE | CRANE | CROWN JUDD (STREAM FLO) | DELLA FOGLIA | DEMCO | DEZURIK | DURCO | EDWARDS | FLOWSEAL | FLUOROSEAL | FORTUNE | FRANKLIN VALVE | GENERAL TWIN SEAL | GOODWIN | GROVE | HIT VALVE | KITZ | LADISH | LARSEN & TOUBRO (L&T) | LIMITORQUE | METSO (NELES, JAMESBURY) | NEWAY | NEWCO | NIBCO | NORDSTROM | NUTRON | OIC | OMB | ORBIT | PARKER HANNIFIN | PK VALVE CO | POWELL | RITAG | ROTORK | SMITH | SWAGELOK | TOM WHEATLEY | TRUELINE | VELAN | VOGT | WKM | XOMOX

TRIM #	MATERIAL	SEAT	DISC	BACKSEAT	STEM	NOTES
1	410	410	410	410	410	
2	304	304	304	304	304	
3	F310	310	310	310	310	
4	HARD 410	HARD 410	HARD 410	410	410	SEATS 750BHN min.
5	HARDFACE	STELLITE	STELLITE	410	410	
5A	HARDFACE	NI-CR	NI-CR	410	410	
6	410 & CU-NI	CU-NI	410	410	410	
7	410 & HARD 410	HARD 410	HARD 410	410	410	SEATS 750BHN min.
8	410 & HARDFACE	STELLITE	410	410	410	
8A	410 & HARDFACE	NI-CR	410	410	410	
9	MONEL	MONEL	MONEL	MONEL	MONEL	
10	316	316	316	316	316	
11	MONEL & HARDFACE	STELLITE	MONEL	MONEL	MONEL	
12	316 & HARDFACE	STELLITE	316	316	316	
13	ALLOY 20	ALLOY 20	ALLOY 20	ALLOY 20	ALLOY 20	
14	ALLOY 20 & HARDFACE	STELLITE	ALLOY 20	ALLOY 20	ALLOY 20	
15	304 & HARDFACE	STELLITE	STELLITE	304	304	
16	316 & HARDFACE	STELLITE	STELLITE	316	316	
17	347 & HARDFACE	STELLITE	STELLITE	347	347	
18	ALLOY 20 & HARDFACE	STELLITE	STELLITE	ALLOY 20	ALLOY 20	

DBB (Double Block & Bleed) Per API 6D Specifications – “is a single valve with two seating surfaces that, in the closed position, provides a seal against pressure from both ends of the valve with the means of venting/bleeding the cavity between the seating surfaces” API notes in the definition that this valves does not provide positive double isolation when only one side is under pressure.

DIB (Double Isolation & Bleed) Per API Specifications – “is a single valve with two seating surfaces, each of which, in the closed position, provides a seal against pressure from a single source with the means of venting/bleeding the cavity between the seating surfaces”

The difference between DBB and DIB is that a DBB valve seals against pressure from both sides of the valve while a DIB provides an additional seal against pressure from only one side.

VALVE TYPE	SEALING ARRANGEMENT	BLOCK & BLEED	DOUBLE BLOCK & BLEED	DOUBLE ISOLATION & BLEED	OSHA BLOCK & BLEED
Two block vlvs with bleed between	Any valves with Bi-directional Sealing	Yes	Yes	Yes	Yes
Slab and/or Through Conduit Gate	Pressure Energized-Downstream Sealing only/fixed seats(1)	No(2)	No	No	No
Slab and/or Through Conduit Gate DIB-1	Pressure Energized Upstream & Downstream Sealing (1)	Yes	Yes(3)	Yes(3)	No
Trunnion Mounted Ball Valve	Upstream Sealing, Pressure Energized Seats, both self- relieving (1)	Yes	4	No(5)	No
Trunnion Mounted Ball Valve DIB-1	Upstream and Downstream Sealing, Pressure Energized, example, two bi-directional sealing seats (1)	Yes	4	6	No
Trunnion Mounted Ball Valve DIB-2	Upstream and Downstream Sealing, Pressure Energized, example, one bi-directional & one unidirectional sealing seat (1)	Yes	4	Only if the Bi-directional seat is on the downstream side (6)	No
Floating Ball Valve	Pressure Energized	No(2)	No	No	No
Plug	Pressure Energized, Downstream Sealing (1)	No(2)	No	No	No
Expanding Plug DIB-1	Mechanically Energized	Yes	Yes	Yes	No
Expanding Gate DIB-1	Mechanically Energized	Yes	Yes(3)	Yes(3)	No

1 The terms Upstream and Downstream refer to the pressure source and open/end equipment respectfully and do not refer to the flow direction.

2 Not possible to bleed form the valve body, but bleed may be in downstream pipework/pipeline.

3 Depending on the detail design of the valve, some valves can have preferred sealing direction and/or a specified sequence of operation.

4 Depending on detail design.

5 Downstream seat can provide a second barrier at pressures below the cavity relieving pressure, but will not provide a high pressure barrier.

6 Depending on the detail design and ability to achieve testing per section D13.