



# CTP Engine Valves

## CTP Bimetallic & Trimetallic Valves

CTP Engine Valves are manufactured to specifications. The CTP bimetallic operation for the engine valves is extremely important. The valves are welded using a friction-welding machine that merges the two pieces of material (Austenitic on the head and Martensitic on the stem). The process gives the valves a higher resistance to withstand the extreme temperatures of the engine. This is especially necessary for the exhaust engine valves, which are always stressed by higher temperatures compared to the intake valves.

The valve seats, especially on the exhaust valves, are subject to a chemical and a mechanical corrosion. For this reason, for the CTP trimetallic valves, Stellite (metal alloy) is welded on the seat of the valve to improve its endurance. The Stellite gives the seat a higher hardness for better resistance to the mechanical stress. The type of Stellite (cobalt base Stellite) used gives the seat a higher resistance to the chemical corrosion. We emphasize on the concentricity of the bottom of the valve to guarantee the perfect adjustment with the insert.

The measurements of the valves are also verified with a laser instrument to ensure its precision.

## Engine Valves:

Engine Model/ Application	Part No. In-Take Valve	Part No. Exhaust
621	7S2514	1S2903
1673	7M7358	9M4163
3046	2335469	2335470
3054	2W6988	7W2522
3066	5I7738	5I7739
3116	1614280	1360819
3116	7W8064	1360819
3208	9L7682	1196772
3208	9L7682	9L7683
3406	1152368	1152367
3408	1220322	1220321
3500	1047184	1047184
3500	7E4609	7E4609
3508	2102542	2102529
1674/6	2S8143	1S2903
3054, 3056	1382052	1382050
3054, 3056	1456855	1382050
3054, 3056	1456855	1456857
3054, 3056	1004626	7W4602
3054, 416B	6I0282	7W4602

Engine Model/ Application	Part No. In-Take Valve	Part No. Exhaust
3054C	1763134	1763137
3054C	2255495	2255499
3066MHI 320C	2128477	517739
3116, 3126	N/A	1632432
3126E	1457390	1478211
3126E	2527801	1478211
3204, 910, 953	9N0180	9N0185
3304, 3306	1007860	1487455
3304, 3306	2W2621	8N0875
3306 Gas	7W7490	7W7491
3406E	1528380	1527585
3406E	1537023	1537024
3412C, 3412E, C32	1642543	1642542
3512E	2102542	1944897
416C, 3054	6I1196	7W4602
C10, C12	1929213	1337029
C10, C12	7E9578	1337029
C13	2243028	2243030
C13	2527802	2243030
C4.4	3096678	3096678
C6.4	2941684	2941685
C6.6	3399637	3096678
C9	1632442	1883122
C9	2418382	2418383
D315, D318	6H3026	4F0212
D320	9H4811	2M7727
D342	1W1818	1W1819
D342	8H1993	8H1994
D343, D346	1P0407	7E7830
D353	7M7817	8N3723
D379, D398, D399	1W8606	2W3211
G3306	2W2621	2W2877
G3406 / 8	1227353	1018314
G3408	4W5374	2W2443
G3408C	2120932	2120933



\* Other part no. not included in the list are available. Please contact your sales representative if you have any questions.  
Part Numbers are used for reference purposes only