



KOLBENSCHMIDT

**TRW**

EngineComponents



# PREMIUMQUALITY

**VALVES AND VALVE ACCESSORIES**  
PREMIUM QUALITY SPARE PARTS –  
EXACT FIT AND TEMPERATURE RESISTANT

PASSION FOR **TECHNOLOGY.**



**RHEINMETALL**



# PRODUCT EXPERTISE

Motorservice is the global sales partner of TRW Engine Components for the aftermarket.  
Proven quality which provides security when needed.

Product	Article number	OE number	Manufacturer	Vehicle	Engine
Valve IN	261152	A 654 053 02 00	Mercedes-Benz (PC / LCV)	A-Class (W177), B-Class (W247), C-Class (W205), E-Class (W213), G-Class (C253) , Sprinter (910)	2,0 - 3,0 D; OM 654, 656
Valve EX	261153	A 654 050 10 00			
Valve IN	105-35660	1814671, 1982634	DAF	CF, XF -Serie	MX-11
Valve EX	105-35661	1814672, 1982635			
Valve IN	291133	12636317, 642101	OPEL	Adam (M13), Astra (B16), Corsa (X15), Insignia (Z18)	1,0 - 1,5 L / B10, B15
Valve EX	291134	12637241, 641122			
Valve IN	105-35662	C2Z18659, LR041678	Jaguar / Land Rover	F-TYPE (X152), XE (X760), XF (X260) / Discovery IV, Range Rover IV	3,0 L; AJ 126
Valve EX	105-35663	C2Z29182, LR054852			
Valve IN	181122	0949C6, JD61428, LR008130	PSA / Jaguar / Land Rover	607, C5 / XF (X250), XJ (X351) / Discovery IV, Range Rover IV	2,7 - 3,0 - 3,6 - 4,4 D; DT 17 / AJD / 306, 448 DT
Valve EX	181123	0948E1, JD61430, 1311281			
Valve IN	539042	9801960980	PSA / OPEL	208 - 508, 2008 - 5008, C3 - C5 / Crossland	1,2 L; EB 2 / B12, D12, F12
Valve IN	16211	A 471 050 13 26	Mercedes-Benz (HCV)	Actros IV, Antos, Arocs	OM 471
Valve EX	16212	A 471 050 09 27			
Valve IN	162180	A 472 050 02 26, A 473 050 06 26	Mercedes-Benz (HCV)	Actros IV, Arocs	OM 472, 473
Valve EX	162190	A 473 050 05 27			
Valve IN	331163	04E 109 601 P	VAG	A3, Caddy, Golf VII, Octavia III	1,4 CNG, Multi Fuel
Valve EX	331164	04C 109 611 C, 04E 109 611 AJ			
Valve IN	331165	04L 109 601 H	VAG	Arteon, Crafter, Golf VIII, Transporter VI, Passat	2,0 TDI
Valve EX	331166	04L 109 611			
Valve IN	179000	162000050703	Steyr, SISU	885, 1880 S	420, 620 D
Valve EX	179001	162000050702			
Valve IN	300100	996 105 271 02	Porsche	911 (996)	3,6 L; M 96.03
Valve EX	300101	996 105 273 03, 996 105 273 04			
Valve IN	300102	987 105 115 00	Porsche	Boxster, Cayman (987)	2,7 - 3,4 L; M 97.20, .21, .22
Valve EX	300103	987 105 116 00			
Valve EX	539052	1320 272 23R, A 281 053 02 00	Renault / Smart	Captur I, Clio IV, Megane IV / Fortwo (453)	0,9 - 1,2 TCe; H4B, H5F / M 281
Valve IN	111234	11 34 7 633 699	BMW	1 (F20), 2 (F46), 3 (G81), 4 (F83), 5 (F90), 6 (G32), 7 (G12), X1 (F48), X2 (F39), X3 (F97), X4 (F98)	1,5 L - 2,0 L - 3,0 L; B38, B46, B48, B58
Valve EX	111233	11 34 8 621 264			
Valve IN	111229	11 34 7 570 163	BMW	5 (E61), 6 (F12), 7 (F01 - 04)	4,4 L; N63 B44
Valve EX	111230	11 34 7 570 164			
Valve IN	471202	31375602	Volvo (PC)	S60 II, S90 II; V40, V60 II, V70 III, V90 II; XC40, XC60 II, XC70 II, XC90 II	2,0 D; D4204
Valve EX	471203	31375168			
Valve IN	48335	21528642, 22583038	Volvo (HCV)	Bus 7000 - 9000 Serie	D5K, D8K
Valve EX	48336	21528644, 21528645			

# VALVES AND VALVE ACCESSORIES

## TEMPERATURE-RESISTANT PRECISION

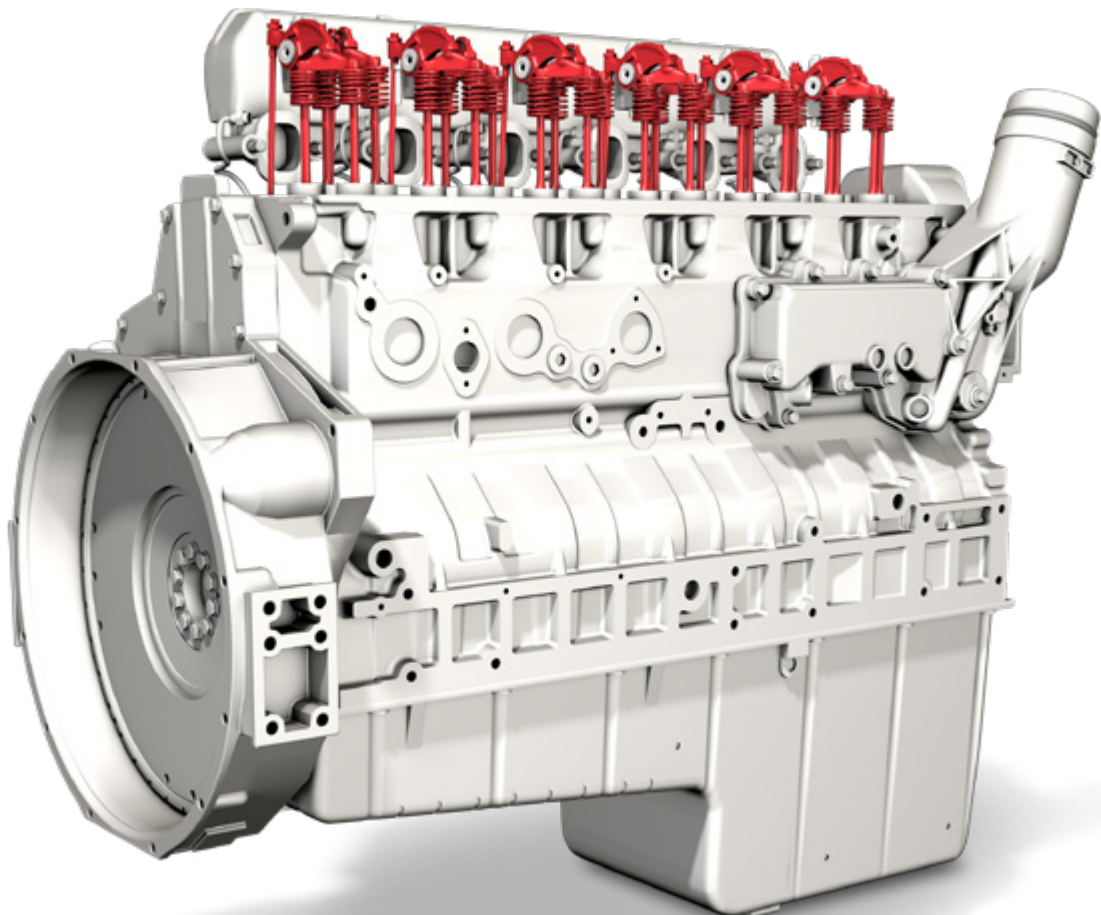
Motorservice products are synonymous with meticulously tested quality and excellent reliability. Our extensive product range provides ideal solutions for reconditioning and repairing engines based on the current market value.

### PRODUCT RANGE

- Valves
- Valve cotters
- Valve seat inserts
- Valve guides

#### Valve control elements:

- Valve push rods
- Rocker arms
- Rocker arm bridges
- Valve tappets
- Finger type rockers
- Hydraulic tappets



## PERFECTION IN EVERY DETAIL

### TRW ENGINE COMPONENTS – VALVES

### KOLBENSCHMIDT – VALVE ACCESSORIES



#### VALVES

Valves are primarily used in four-stroke engines, to control the charge exchange process. The valve head seals off the inlet or outlet duct of the closed valve from the valve seat in the cylinder head.

Valves feature a diverse range of additional equipment, depending on the engine load and type of use, such as hardening and armouring for the valve heads and valve stem faces. This ensures reliable engine running and durability, even under extreme conditions.

Motorservice has a constantly growing product range with over 1,100 valves designed for more than 8,000 applications.



#### VALVE GUIDES

The valve guide has the task of absorbing the lateral forces acting on the valve stem. The valve guide centres the valve on the valve seat insert, and conveys some of the heat from the valve head through the valve stem to the cylinder head.

Motorservice has a wide range of over 800 valve guide types for more than 3,500 applications.



#### VALVE COTTERS

Valve cotters are employed as retaining and locking components. They connect the valve-spring retainer to the valve by friction locking, and thus keep the valve-spring preloaded. Valve cotters are wear parts, and must always be replaced at the same time as valves.

Motorservice has the right cotters in its range for all common valve stem faces.



#### VALVE SEAT INSERTS

Together with the valves, valve seat inserts seal off the combustion chamber of the cylinder head. The valve seat inserts are made from grey cast iron or sintered metal and prevent the valve from knocking/burying into the cylinder head. They also convey the heat from the valve.

With over 400 different dimensions available, Motorservice offers virtually unlimited use in all conventional engines.



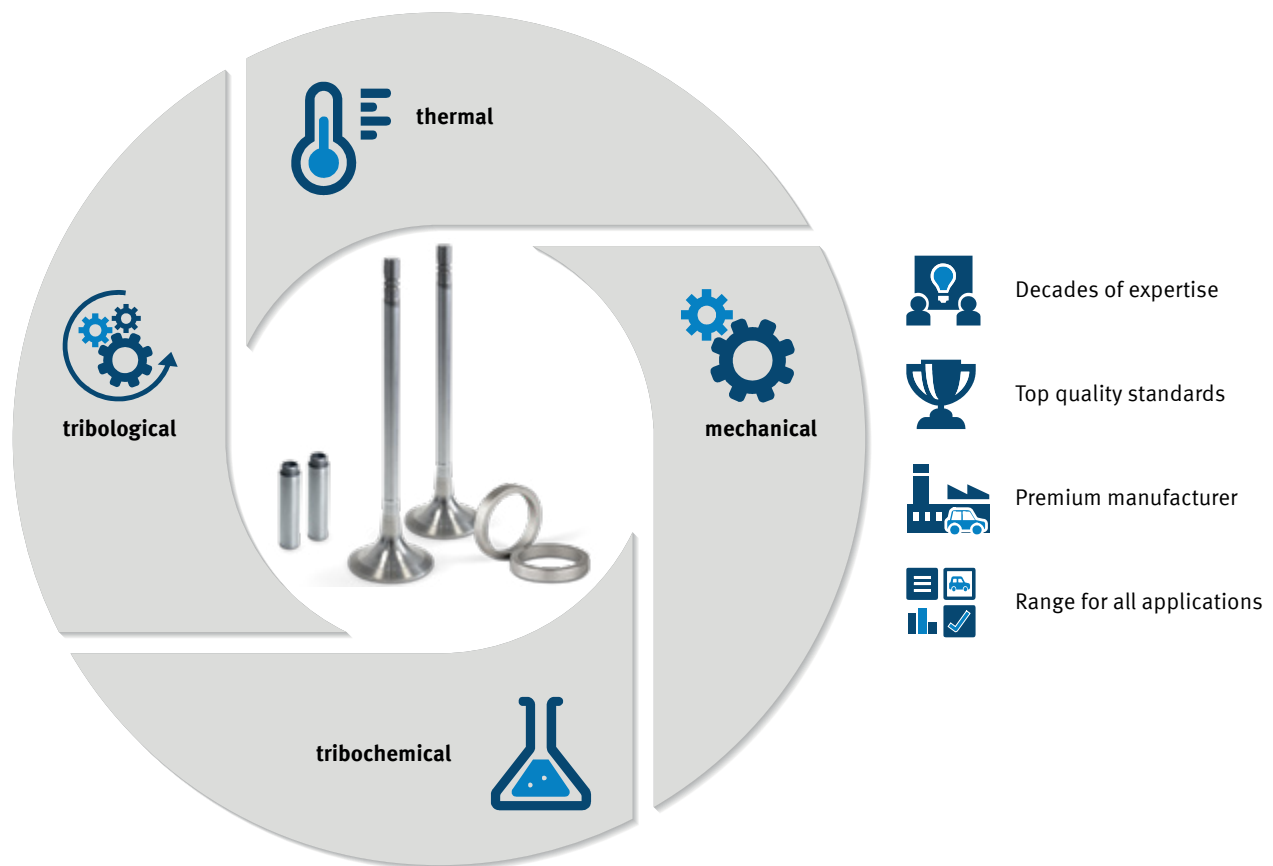
#### VALVE CONTROL ELEMENTS

In order to ensure valve train reconditioning is carried out flawlessly, the control elements such as rocker arms, tappets or hydraulic tappets or valve push rods often also need to be replaced. All valve control elements are available separately from Motorservice.

## ALL VALVE TRAIN COMPONENTS FROM A SINGLE SOURCE

Individual valve train components must be perfectly coordinated to the necessary requirements and applications to ensure they are ideally suited to handling the loads in engine operation. This is why Motorservice offers valve train components in different materials and versions in their range.

### OPTIMUM INTERACTION – PRODUCTS THAT ARE PERFECTLY COORDINATED WITH EACH OTHER



#### Low-volume production and special designs

If desired, we can manufacture valve train components for your application in low-volume production and as special designs:

- Configuration of valves, valve guides and valve seat inserts
- Based on drawings or samples
- Production of the components in the desired dimensions and quantities

We will support you with our expertise:

- All your requirements will be taken into account
- Coordinated configuration of the valve train components
- Perfect solutions for your applications

**HEADQUARTERS:**

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