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Materials Of Construction Metal Parts

This is not a bill of materials and should be used for guideline purposes only.

Wetted Metal Parts

Components	Pump Range	Production Method	Standard	
			AISI	Deutsche Stoff Nummer
Pump cover (casing)	H, CH, D1X, D071, D2, D121, D3, D4, D5, D6, GP, TWO-WAY	Fabricated from raw materials	316L	1.4404
Impeller key ¹		Machined from key steel		
Impeller lock nut and stub shaft ¹		Machined from a single billet of solid bar		
Pump housing plate	H, CH, D2, D121, D3, D4, D5, D6			
Flanged adaptor	D1X, D071, GP, TWO-WAY			
Impeller back plate	H, CH, D3, D4, D5, D6			
Impeller vane plate	H, CH, D071, D2, D121, D3, D4, D5, D6, GP, TWO-WAY			
	D1X	Fabricated from raw materials		
All	CR, CF	Investment cast		
Mechanical seal	All	Bought in	316 ²	1.4401 ²
All	CA	Investment cast		

¹Strictly speaking, where sealed with an impeller joint ring, the stub shaft and the impeller key do not normally come into contact with the product during operation, but such contact is likely during seal replacement, for example.

²We shall advise customers in circumstances where a mechanical seal is supplied whose *wetted* metal parts are *not* of stainless steel 316 (1.4401). Alloys such as Carpenter (Alloy 20Cb-3), Hastelloy (Alloy C-276) and Monel (Alloy 400) are available on request.

Non-wetted Metal Parts (excluding motor³)

			Standard	
Components	Pump Range	Production Method	AISI	Deutsche Stoff Nummer
Motor adaptor plate	H, CH, D2, D121, D3, D4	Machined from a single billet of solid bar	316L	1.4404
Flanged adaptor	(C)H141, (C)H160, (C)H161, (C)H190, (C)H191, D2, D121			
	(C)H220, (C)H221, (C)H240, (C)H241, (C)H260, (C)H261	Assembled from two components, each of which machined from a single billet of solid bar		
	D3, D4, D5, D6	Fabricated from raw materials		
Clamp ring handle	H, CH, D			
Clamp lugs and studs	GP	Machined from a single billet of solid bar		
All	CR, CF	Investment cast		
Clamp ring washer	H, CH, D	Bought in	316	1.4401
Mechanical seal ⁴	All			
Flanged adaptor bolts	H, CH, D			
Wing nuts	GP			
All	CA			
Clamp ring	H, CH, D	Fabricated from flat bar (316L) and threaded bar (304).	304	1.4301
Motor adaptor plate	D5, D6	Machined from a single billet of solid bar		
Motor adaptor plate screws	H, CH, D, GP	Bought in		
Outer cowl	All	Fabricated from sheet ⁵		
Free-Standing Base (or cowl pedestal)		Fabricated from flat bar or box section (304), and feet machined from solid bar (316L).		

³The shaft clamp, where applicable, is also excluded.

⁴We do *not* advise customers in circumstances where a mechanical seal is supplied whose *non-wetted* metal parts are *not* of stainless steel 316 (1.4401), unless this information is requested.

⁵Where a repeat of an old-style cowl is supplied for a D, GP or TWO-WAY pump, this may also include a spinning.