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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

Part	Pump range	Production method	Material
Pump cover (casing)	H, CH, D1X, 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, GP, TWO-WAY		
Impeller back plate	H, CH, D3, D4, D5, D6		
Impeller vane plate	H, CH, D2, D121, D3, D4, D5, D6, GP, TWO-WAY		
	D1X	Fabricated from raw materials	
All	CR	Investment cast	
Mechanical seal	All	Bought in	316 ² / 1.4401

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)

Part	Pump range	Production method	Material
Motor adaptor plate	H, CH, D2, D121, D3, D4	Machined from a single billet of solid bar	316L / 1.4404
Flanged adaptor	H141, H161, H191, D2, D121	Assembled from two components, each of which machined from a single billet of solid bar	
	H221, H241, H261		
	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	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		
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	
Free-Standing Base (or cowl pedestal)		Fabricated from flat bar (316L) 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.