

WATER PUMP

E

Fluid-o-Tech Water Pumps (Procon Type)	E1
PA(brass)	E1
PA(stainless)	E4
MK200-300(Driving Magnet Type)	E6



The rotary vane pumps, manufactured by Fluid-o-Tech and sold worldwide under the trademark Rotoflow, are volumetric pumps designed for pumping water and moderate aggressive liquids with low flow at high pressure.

Technical features and manufacturing characteristics

The rotary vane pump is brass made with a stainless steel AISI 303 rotor, while the pumping chamber and the vanes are in carbon graphite.

The inlet and outlet ports are 3/8" GAS or NPT threaded.

The pumps are designed to be directly mounted to the motor with a stainless steel clamp.

For different mounting arrangements see our technical info "optional mountings".

Maximum operative temperature: 70 °C (158 °F).

Main Applications

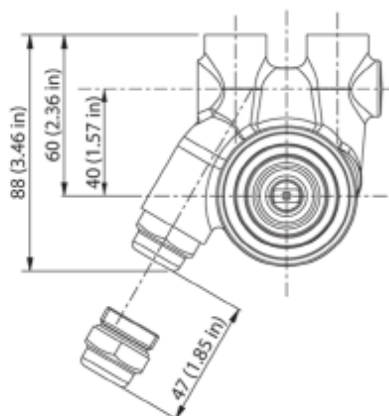
- Beverage vending machines
- Post mix drink dispensers
- Espresso coffee machines
- Cooling systems
- Fuel injection systems
- Reverse osmosis
- Ultra-filtration
- Water dispensers

Available upon request:

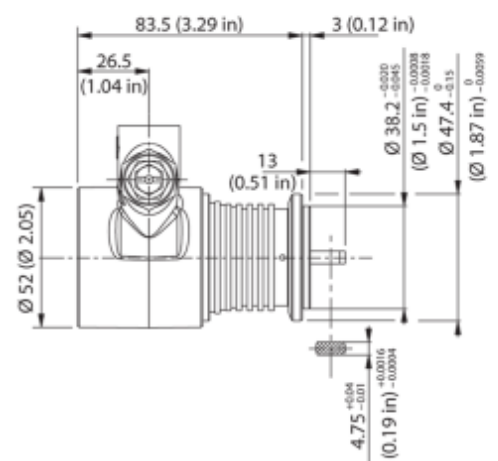
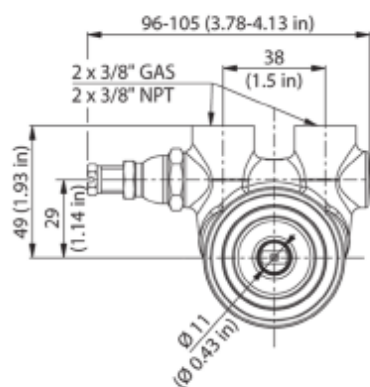
- Viton®/EPDM seals (suffix - V/E)
- built-in relief valve
- built-in 70 mesh filter
- flange mount



FILTER VERSION

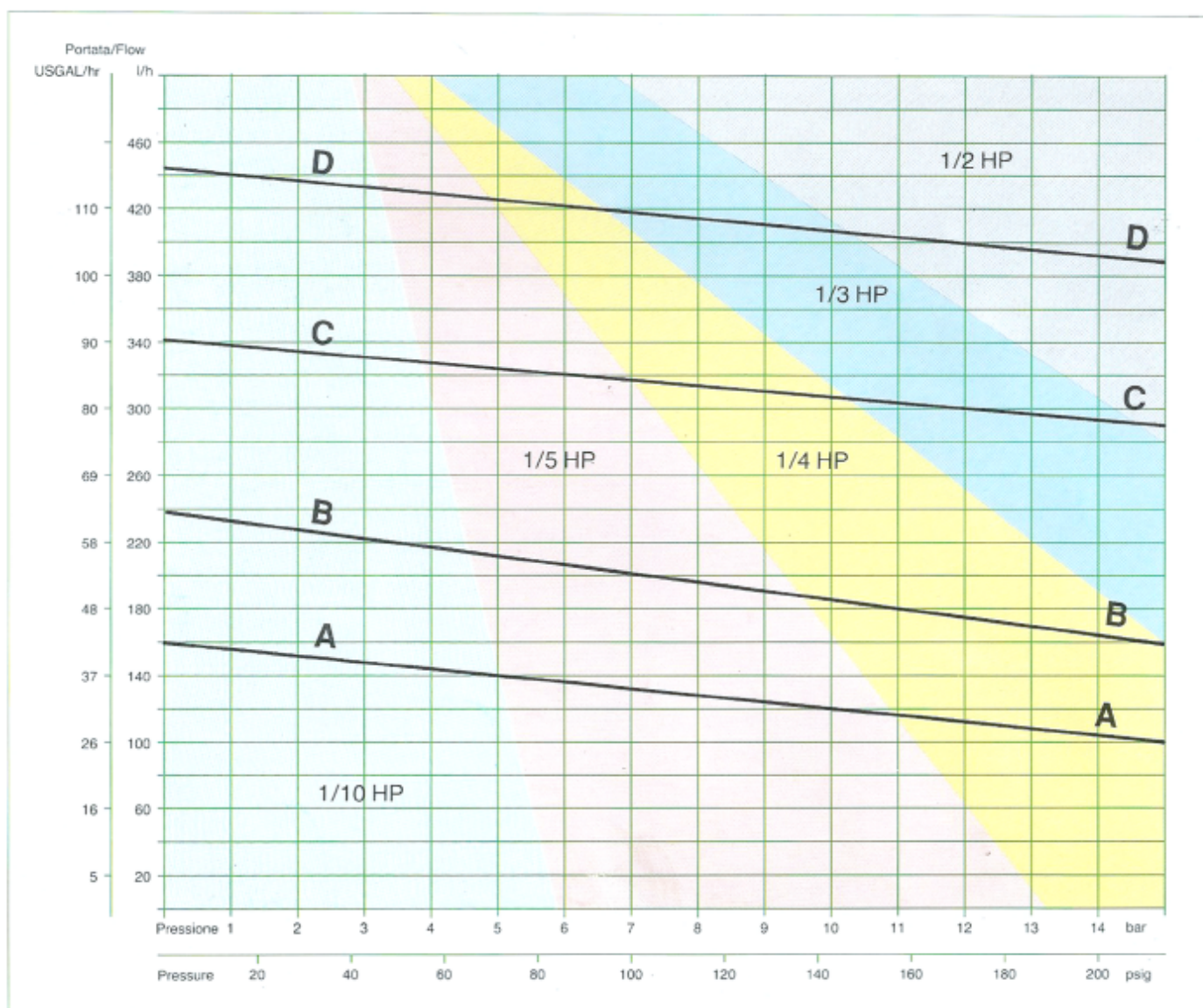


STD VERSION



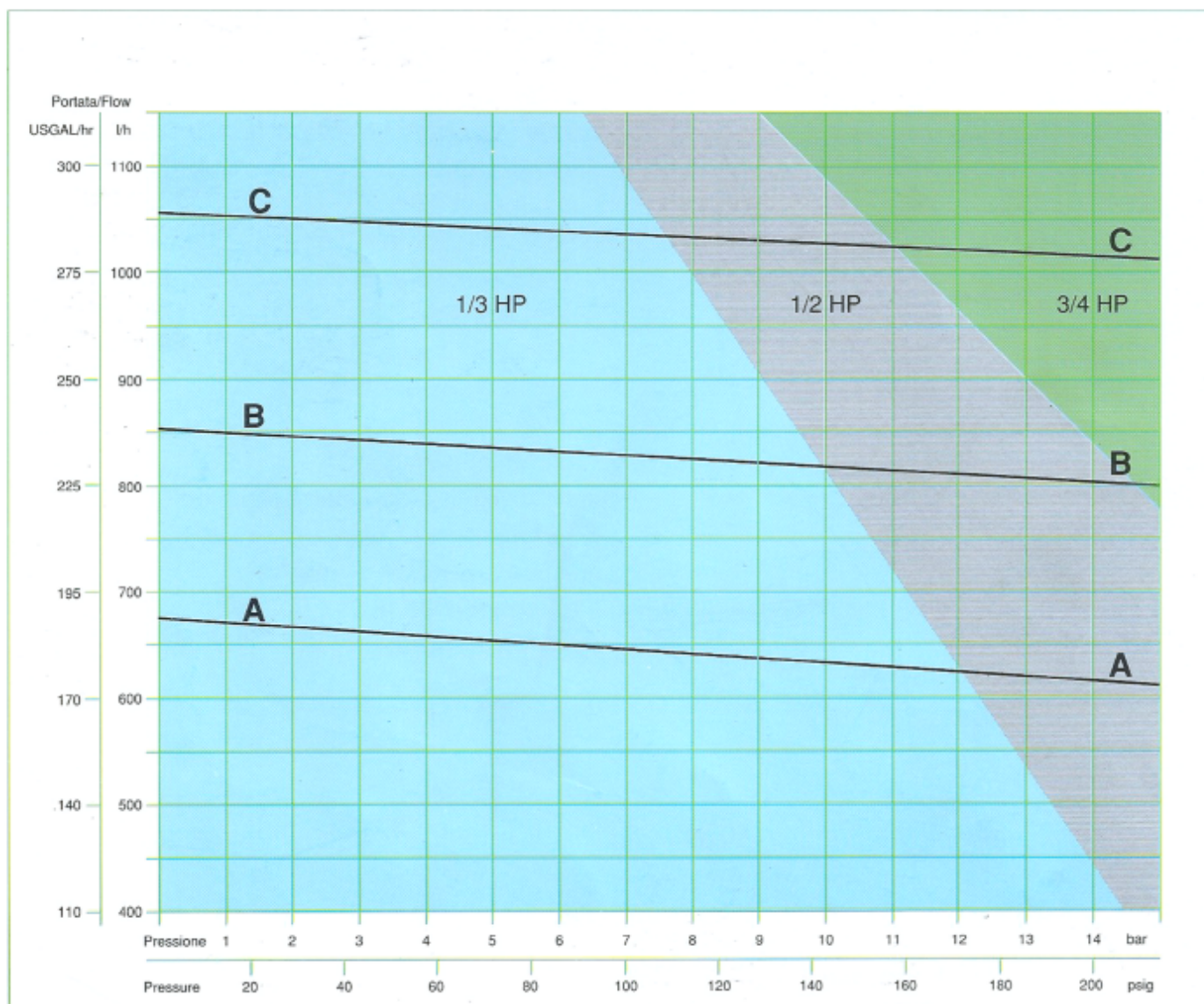
Dimensions in mm/inches

MODEL	FLOW l/h (USG/h)	BY-PASS	BUILT-IN FILTER	FIGURE	WEIGHT KGS
PO 101	100 (35)	STANDARD	NO	A - A	1,1
PO 104	100 (35)	BALANCED	NO	A - A	1,1
PO 104X	100 (35)	BALANCED	YES	A - A	1,3
PO 201	200 (55)	STANDARD	NO	B - B	1,1
PO 204	200 (55)	BALANCED	NO	B - B	1,1
PO 204X	200 (55)	BALANCED	YES	B - B	1,3
PO 301	300 (85)	STANDARD	NO	C - C	1,1
PO 301X	300 (85)	STANDARD	YES	C - C	1,3
PO 401	400 (110)	STANDARD	NO	D - D	1,1
PO 401X	400 (110)	STANDARD	YES	D - D	1,3



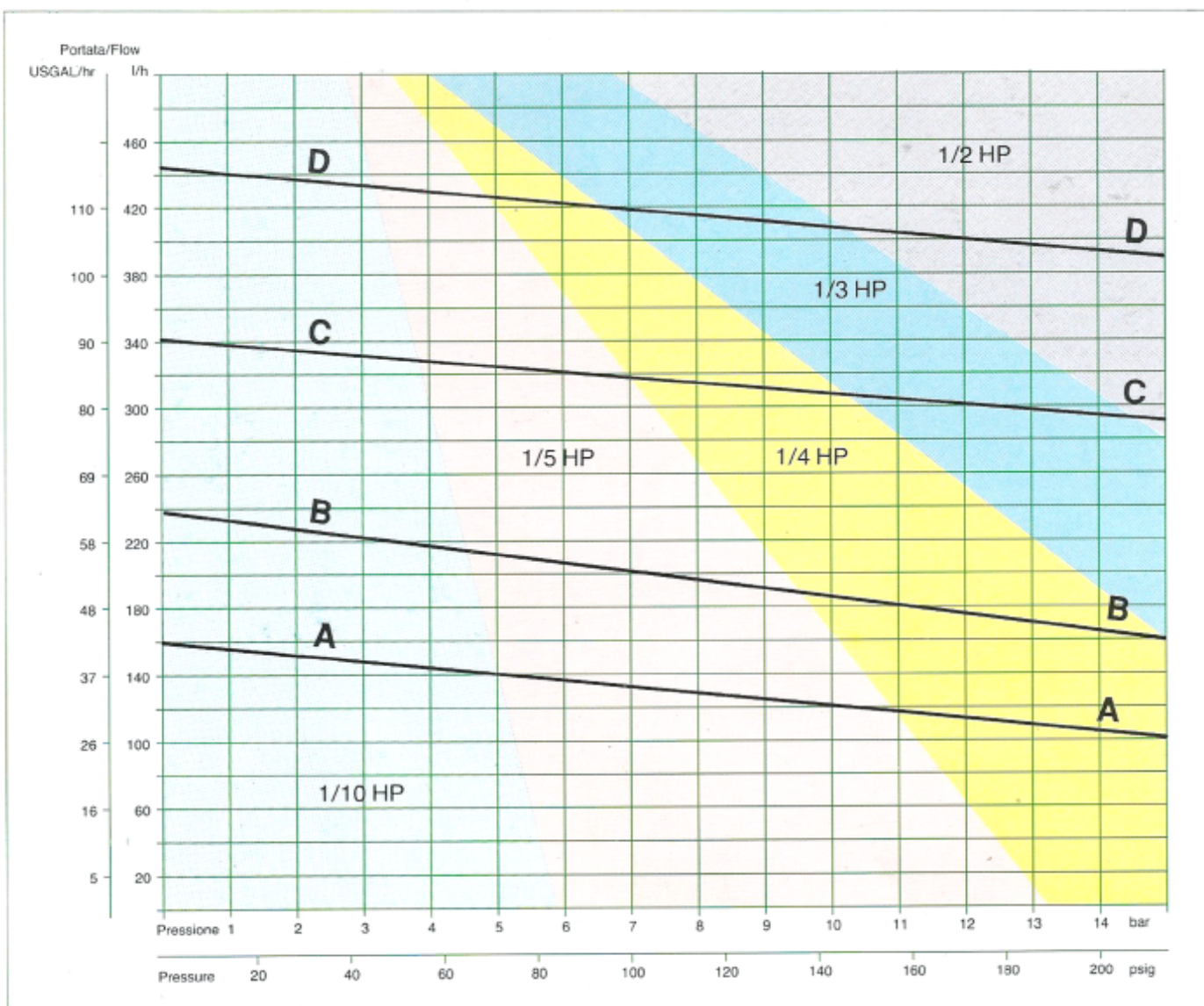
Characteristics at constant motor speed (1400 rpm) with water at 20°C and by-pass blocked

MODEL	FLOW l/h (USGAL/hr)	BODY	FIGURE	WEIGHT KGS
PO 601	600 (170)	BRASS	A - A	1,95
PO 801	800 (220)	BRASS	B - B	1,95
PO 1001	1000 (275)	BRASS	C - C	1,95
PO 611	600 (170)	STAINLESS STEEL	A - A	1,95
PO 811	800 (220)	STAINLESS STEEL	B - B	1,95
PO 1011	1000 (275)	STAINLESS STEEL	C - C	1,95



Characteristics at constant motor speed (1400 rpm) with water at 20°C and by-pass blocked.

MODEL	FLOW l/h (USG/h)	MOUNT	FIGURE	WEIGHT KGS
PO 111	100 (35)	CLAMP	A - A	1,1
PO 111F	100 (35)	FLANGE	A - A	1,2
PO 211	200 (55)	CLAMP	B - B	1,1
PO 211F	200 (55)	FLANGE	B - B	1,2
PO 311	300 (85)	CLAMP	C - C	1,1
PO 311F	300 (85)	FLANGE	C - C	1,2
PO 411	400 (110)	CLAMP	D - D	1,1
PO 411F	400 (110)	FLANGE	D - D	1,2



Characteristics at constant motor speed (1400 rpm) with water at 20°C and by-pass blocked



Main applications

- Medical and surgical equipment
- Hemodialysis apparatus
- Laser apparatus
- Lubrication
- Ink-jet printing systems
- Cooling systems
- Laboratory instrumentation
- Water purification and ultra-filtration
- Sampling
- Food processing equipment

The MK200, MK300 and MK300 High Viscosity series pumps are designed to complete the existing MG200 series with improved performances in terms of flow rate, pressure,

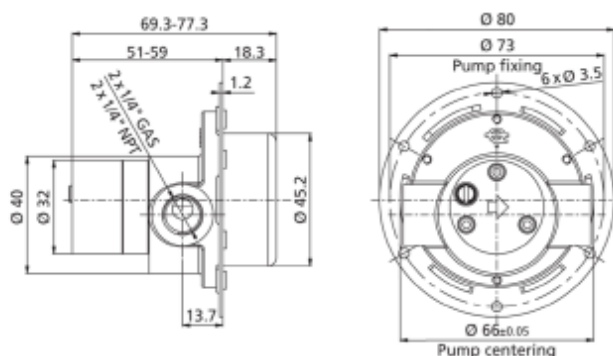
capability to handle high viscosity fluids and a wider offer of materials to suit most applications, from the food to the industrial and chemical markets. The pump's housing and the internal metal parts are available in AISI 303, AISI 316L or SAF 2205.

The gears are available in PTFE™ or Peek™. The driving magnet, available in Ferrite or in rare earths, is capable to drive the pump at high pressure. The quality of the materials of the assembled components allows handling of fluids with temperatures up to 120 °C (248 °F). The low noise and pulsation is the result of precision gears accurately assembled and balanced within the housing combined with the magnetic coupling which grants the perfect alignment. The Sanitary design makes this pump series the preferred candidate for use in medical applications where trouble-free products are needed.

NSF

- Self priming
- 1/4" F GAS or NPT ports
- Temperature range:
PTFE™ -45 to +50 °C / -49 to +122 °F
Peek™ -45 to +120 °C / -49 to +248 °F
- Max system pressure: 20 bar/290 psi
- Relief valve available for MK200 series only
- NSF listed pumps available

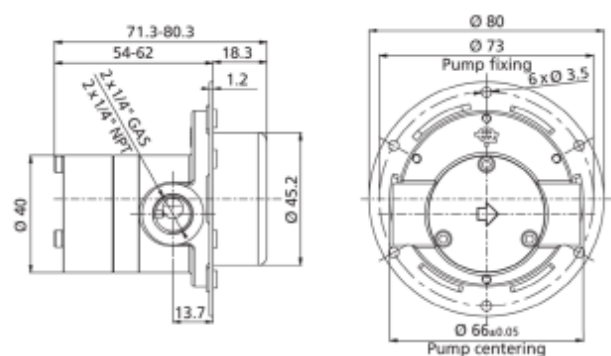
MK200 series

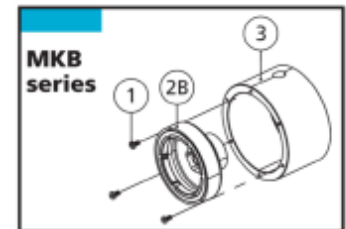
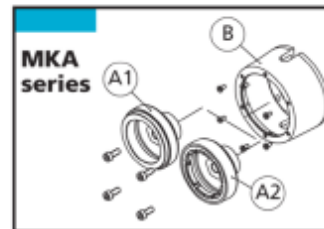
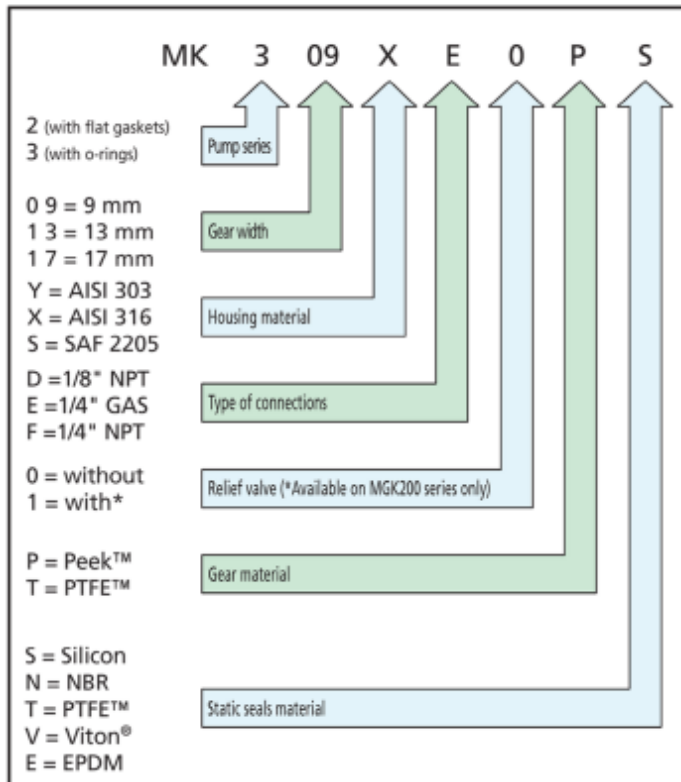


Max pump weight: 720 g (1,58 Lbs).

Fluid-o-Tech reserves the right to alter the specifications indicated in this catalogue at any time and without prior notice.

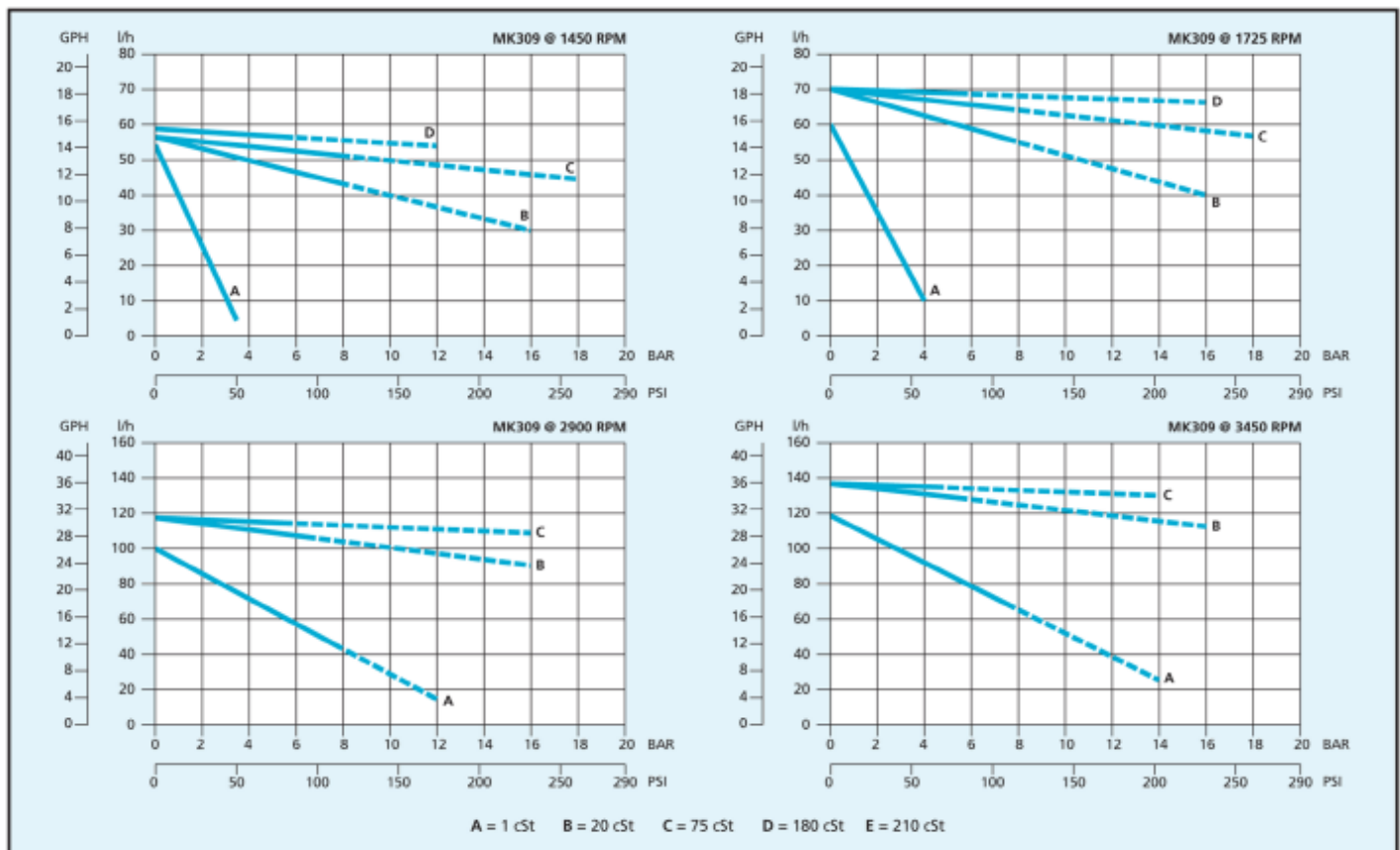
MK300 series





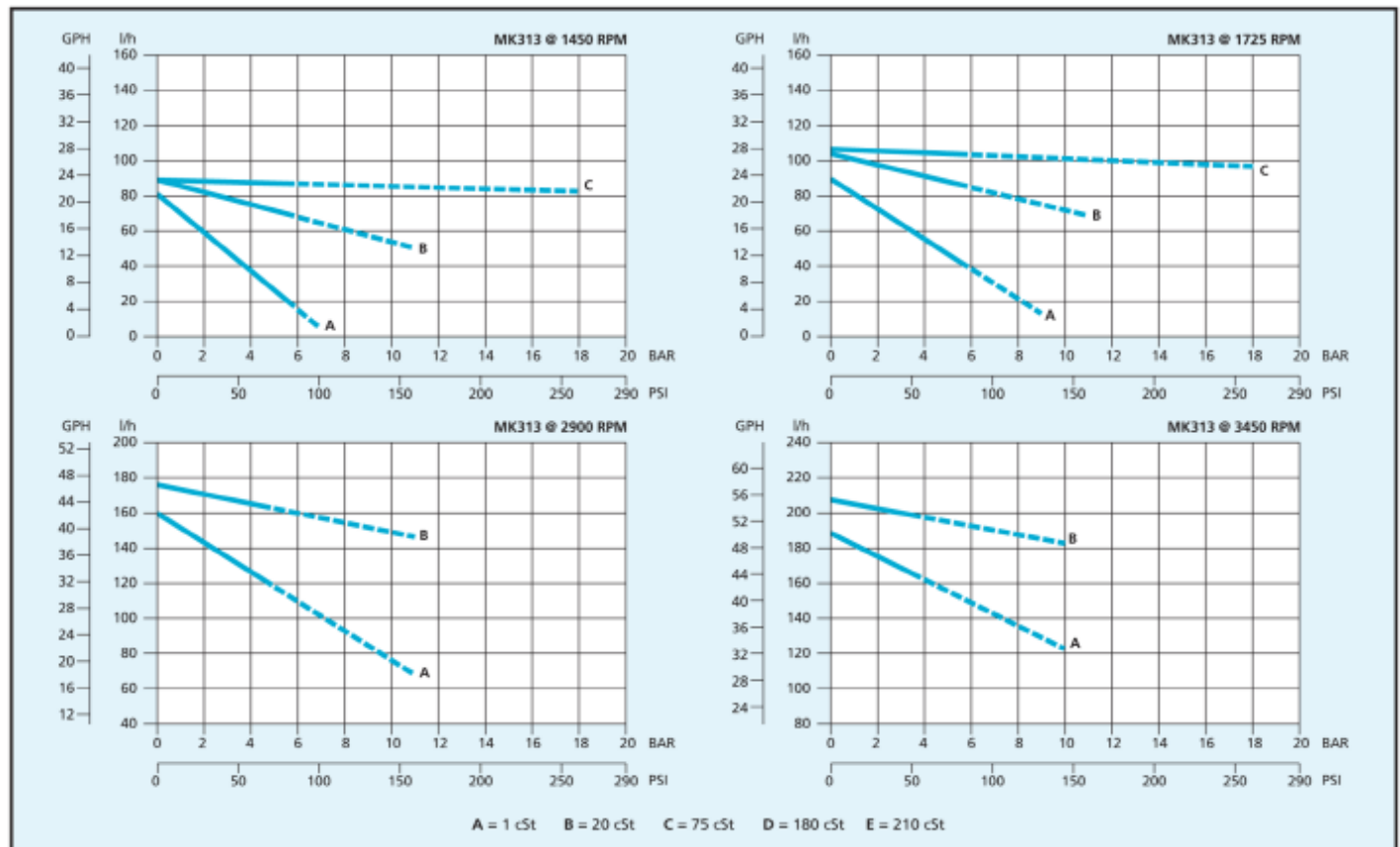
Pos.	Description	Features	Code
A1	Ferrite driving magnet	9 mm bore	MKAF09S
		11 mm bore	MKAF11S
		5/8" mm bore	MKAF58S
A2	Rear earths driving magnet	9 mm bore	MKAS09S
		11 mm bore	MKAS11S
		5/8" mm bore	MKAS58S
A1+B	Complete adapter with ferrite driving magnet	For M56 motor	MKBF56S
		For M63 motor	MKBF63S
A2+B	Complete adapter with rear earths driving magnet	For M56 motor	MKBS56S
		For M63 motor	MKBS63S
		For Nema 56C motor	MKBS58S

MK309 - Performance curves at different viscosities

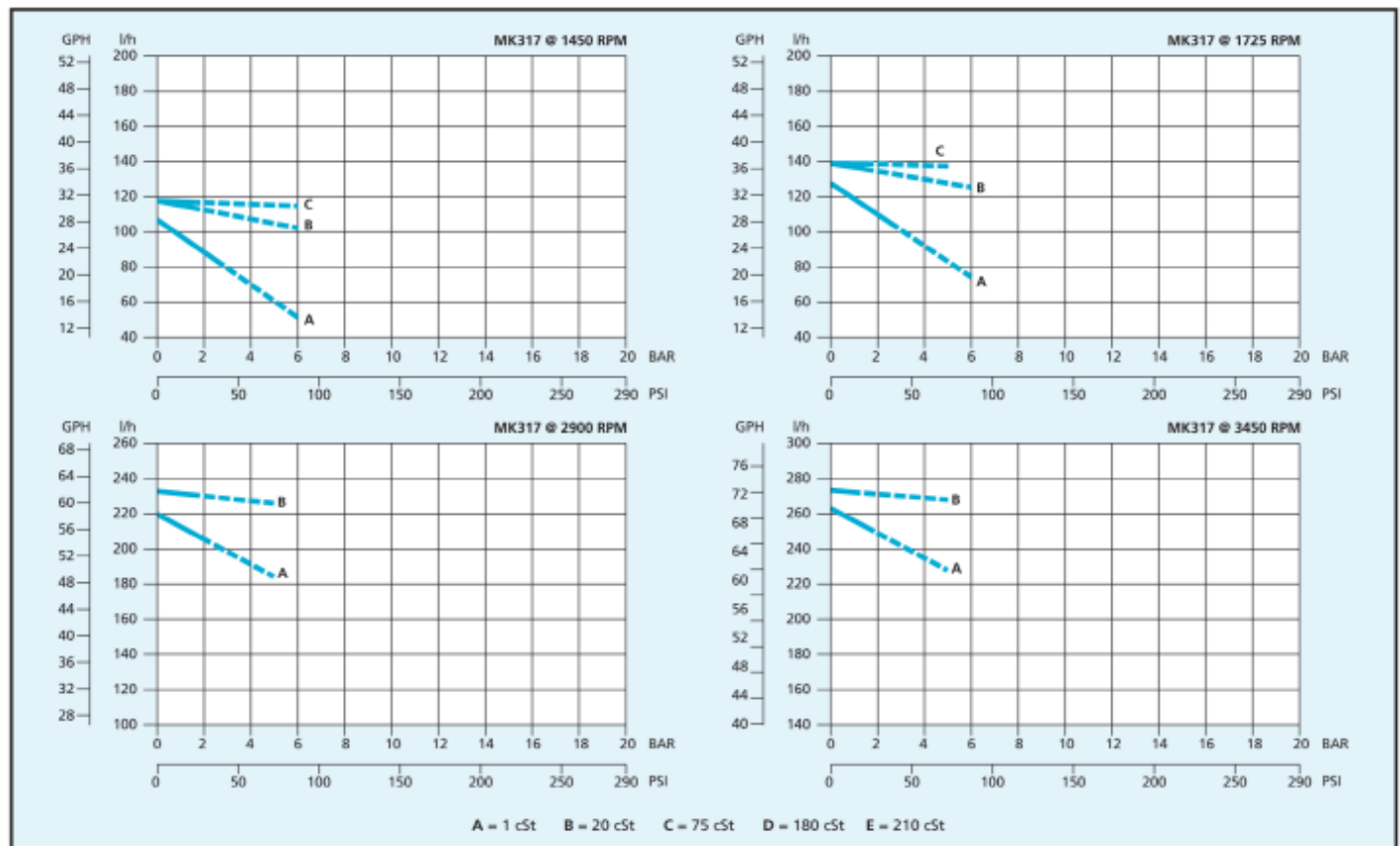


— Operating range with ferrite magnet
- - - Operating range with rare earth magnet

MK313 - Performance curves at different viscosities

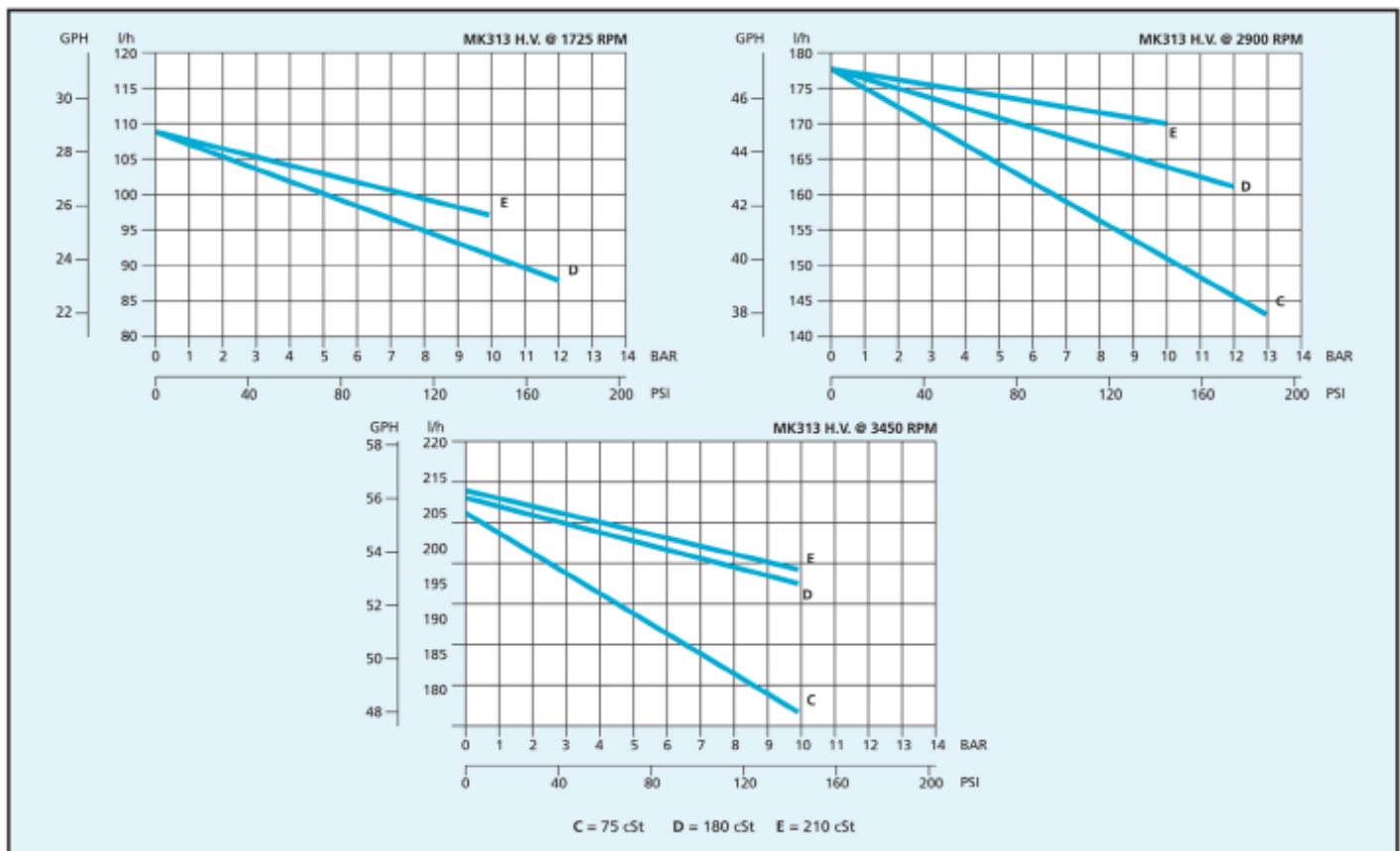


MK317 - Performance curves at different viscosities

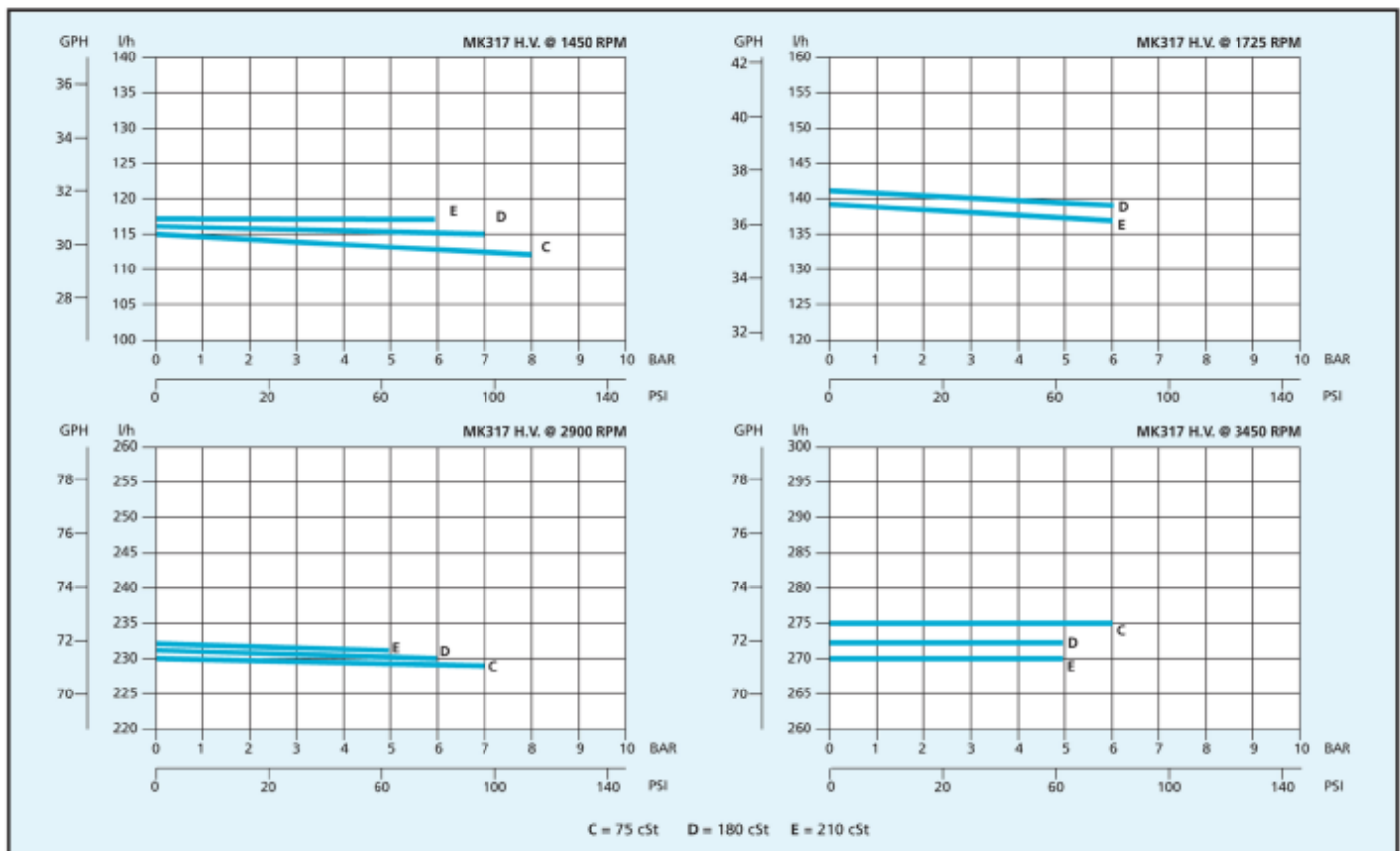


— Operating range with ferrite magnet
 - - - Operating range with rare earth magnet

MK313 High viscosity - Performance curves at different viscosities*



MK317 High viscosity - Performance curves at different viscosities*



For applications involving fluids different from water, high temperatures or unusual processing conditions, please consult the factory or an authorized distributor.

*Note: The inlet pipe diameter must be at least 10 mm.

MK - 03/09 Ed.