PRODUCT DATA SHEET

STOKES 6” MECHANICAL BOOSTER PUMPS

edwardsvacuum.com

The Stokes 6” Series features a rugged design for robust and reliable operation. Available in sizes from 1040 to 6630 m^3/hr, it is one of the most versatile and flexible range of boosters.

Robust

Increased lifetime, reliability and simple to use - Large diameter shafts, ring feeder keyless gear locking system and dynamically balanced impellers.

Reliable

Improved design available - 5 mechanical seal variants for optimum protection against dust and particles in arduous applications.

Versatile

Configured for your needs - Bare shaft or direct drive, 1800-3600 rpm. Vertical or horizontal gas flow orientation with by-pass versions available.

Technical Data

	Units	607	607 PIB (Process Isolation)	615	615 PIB (Process Isolation)	615 BP (By-pass)	615 BP PIB (By-pass) Process Isolation	622	622 (Process Isolation)
Displacement 1800 rpm	m3h-1/CFM	1040/612	n/a	2210/1300	n/a	2210/2000	n/a	n/a	n/a
Displacement 2750 rpm	m^3h^{-1}/CFM	1589/935	1589/935	3375/2000	3375/2000	3375/2000	3375/2000	5100/3000	5100/3000
Displacement 3000 rpm	m^3h^{-1}/CFM	1733/1020	1733/1020	3685/2170	3685/2170	3685/2170	3685/2170	5525/2350	5525/2350
Displacement 3600 rpm	m^3h^{-1}/CFM	2080/1224	2080/1224	4420/2600	4420/2600	4420/2600	4420/2600	6630/3900	6630/3900
Inlet connection/Outlet connection		6 inch ASA /ANSI	6 inch ASA /ANSI	8 inch ASA /ANSI	8 inch ASA /ANSI	8 inch ASA /ANSI	8 inch ASA /ANSI	8 inch ASA /ANSI	8 inch ASA /ANSI
Max pressure differential	mbar/torr	506/380	506/380	506/380	506/380	n/a	n/a	333/250	333/250
Max temperature rise	°C/F	135/275	135/275	135/275	135/275	135/275	135/275	121/250	121/250
Max discharge temperature	°C/F	191/375	191/375	191/375	191/375	191/375	191/375	177/350	177/350
Weight bare shaft	kg/lb	215/475	215/475	234/515	234/515	284/625	284/625	335/740	335/740
Weight TEFC direct drive	kW/hp	408/900	345/760	390/860	297/875	530/1170	538/1185	617/1360	625/1370
Motor Power 50 Hz	kW/hp	7.5/10 @ 3000 rpm	7.5/10 @ 3000 rpm	7.5/10 @ 3000 rpm	11/15 @ 3000 rpm	18/25 @ 3000 rpm	18/25 @ 3000 rpm	18/25 @ 3000 rpm	18/25 @ 3000 rpm
Motor Power 60 Hz	kW/hp	3.7/5 15 /20	7.5/10	7.5/10 @ 1800 rpm 11/15 @ 3600 rpm	11/15 @ 3600 rpm	7.5/10 @ 1800 rpm 18 /25 @ 3600rpm	18/25 @ 3600rpm	18/25 @ 3600rpm	18/25 @ 3600rpm
Oil capacity (horizontal flow)	litre/gal	1.9/0.51	1.9/0.51	1.9/0.51	1.9/0.51	1.9/0.51	1.9/0.51	1.9/0.51	1.9/0.51
Oil capacity (vertical flow)	litre/gal	4.1/1.1	4.1/1.1	4.1/1.1	4.1/1.1	4.1/1.1	4.1/1.1	4.1/1.1	4.1/1.1
Water cooling req @ 30°C/85° F	$lmin^{-1}$/$galmin^{-1}$	air cooled	7.6-11.4/2-3	air cooled	7.6-11.4/2-3	air cooled	7.6-11.4/2-3	air cooled	7.6-11.4/2-3
Water inlet connection	NPT								
Recommended oil		V Lube H	V Lube H	V Lube H	V Lube H	V Lube H	V Lube H	V Lube H	V Lube H

Ordering information

Part Number	Product Description	Part Number	Product Description
900607MHR934	607 MHR IE3 ASIA 50/60HZ	90061B5HR940	61B 5HR IE3 EU/US/CN 50/60HZ
900607MHR940	607 MHR IE3 EU/US/CN 50/60HZ	90061B5HR934	61B 5HR IE3 ASIA 50/60HZ
900607MVR934	607 MVR IE3 ASIA 50/60HZ	90061B5VR940	61B 5VR IE3 EU/US/CN 50/60HZ
900607MVR940	607 MVR IE3 EU/US/CN 50/60HZ	90061B5VR934	61B 5VR IE3 ASIA 50/60HZ
9006075HR940	607 5HR IE3 EU/US/CN 50/60HZ	900-61B-MVR	61B BP VGF Bare Shaft
9006075HR934	607 5HR IE3 ASIA 50/60HZ	900-61B-MHR	61B BP HGF Bare Shaft
9006075VR940	607 5VR IE3 EU/US/CN 50/60HZ	90061BMV10EE	61B BP VGF 10hp EE 230/460V 60Hz
9006075VR934	607 5VR IE3 ASIA 50/60HZ	90061BMV25EE	61B BP VGF 25hp EE 230/460V 60Hz
900-607-MVR	607MVR VGF Bare Shaft	90061B5V25EE	61B PIB BP VGF 25hp 230-460V 60Hz
900-607-MHR	607MHR HGD Bare Shaft	90061BMH10EE	61B BP HGF 10hp EE 230/460V 60Hz
900607MV05EE	607 VGF 5hp EE 230-460V 60Hz	90061BMH25EE	61B BP HGF 25hp EE 230/460V 60Hz
900607MV20EE	607 VGF 20hp EE 230-460V 60Hz	90061B5H25EE	61B PIB BP HGF 25hp 230-460V 60Hz
9006075V10EE	607 PIB VGF 10hp 230-460V 60Hz	90061BMHR934	61B MHR IE3 ASIA 50/60HZ
900607MH05EE	607 HGF 5hp EE 230-460V 60Hz	90061BMHR940	61B MHR IE3 EU/US/CN 50/60HZ
900607MH20EE	607 HGF 20hp EE 230-460V 60Hz	90061BMVR934	61B MVR IE3 ASIA 50/60HZ
9006075H10EE	607 PIB HGF 10hp 230-460V 60Hz	90061BMVR940	61B MVR IE3 EU/US/CN 50/60HZ
900615MHR934	615 MHR IE3 ASIA 50/60HZ	9006225HR940	622 5HR IE3 EU/US/CN 50/60HZ
900615MHR940	615 MHR IE3 EU/US/CN 50/60HZ	9006225HR934	622 5HR IE3 ASIA 50/60HZ
900615MVR934	615 MVR IE3 ASIA 50/60HZ	9006225VR940	622 5VR IE3 EU/US/CN 50/60HZ
900615MVR940	615 MVR IE3 EU/US/CN 50/60HZ	9006225VR934	622 5VR IE3 ASIA 50/60HZ
9006155HR940	615 5HR IE3 EU/US/CN 50/60HZ	900-622-MVR	622 VGF Bare Shaft
9006155HR934	615 5HR IE3 ASIA 50/60HZ	900-622-MHR	622 HGF Bare Shaft
9006155VR940	615 5VR IE3 EU/US/CN 50/60HZ	900622MV25EE	622 VGF 25hp 230-460 60Hz
9006155VR934	615 5VR IE3 ASIA 50/60HZ	9006225V25EE	622 PIB VGF 25hp 230-460 60Hz
900-615-MVR	615MVR VGF Bare Shaft	900622MH25EE	622 HGF 25hp 230-460V 60Hz
900-615-MHR	615MHR HGF Bare Shaft	9006225H25EE	622 PIB HGF 25hp 230-460V 60Hz
900615MV10EE	615 VGF 10hp EE 230-460V 60Hz	900622MHR934	622 MHR IE3 ASIA 50/60HZ
900615MV15EE	615 VGF 15hp EE 230-460V 60Hz	900622MHR940	622 MHR IE3 EU/US/CN 50/60HZ
9006155V15EE	615 PIB VGF 15hp EE 230-460V 60Hz	900622MVR934	622 MVR IE3 ASIA 50/60HZ
900615MH10EE	615 HGF 10hp EE 230-460V 60Hz	900622MVR940	622 MVR IE3 EU/US/CN 50/60HZ
900615MH15EE	615 HGF 15hp EE 230-460V 60Hz		
9006155H15EE	615 PIB HGF 15hp 230-460V 60Hz		

Note: for PFPE variants please contact Edwards

VGF - Vertical Gas Flow | HGF - Horizontal Gas Flow | EE - Energy Efficient Motor

Applications

- Automotive
- Chemical processing
- Heat treatment
- Leak detection
- Metallurgy
- PET processing
- Pharmaceuticals
- Thermal processing
- Transformer drying and cable fluid conditioning
- Vacuum coating
- Vacuum melting

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