



PRODUCT DATA

STOKES 412J

Piston Vacuum Pump



Highly Efficient, Space-Saving

The 412J is a tough, reliable rotary piston pump that offers significant improvements over its reputable predecessor, the 412H. The 412J, which features an integral oil distribution system with a larger oil sight glass and oil flow indicator, eliminates external oil piping. Additionally, the gas ballast valves are now integrated into the side covers for added protection against damage, while allowing for easier operating and maintenance access. The modern look achieved from the integral piping has not changed the footprint, inlet, outlet connections or mounting dimensions, which are all identical to the previous 412H pump.

Features & Benefits

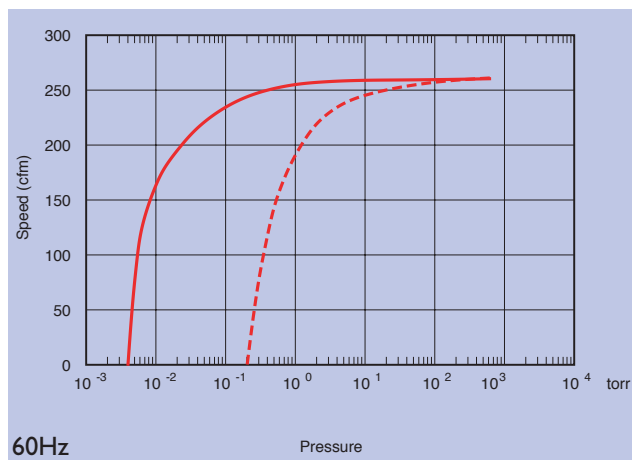
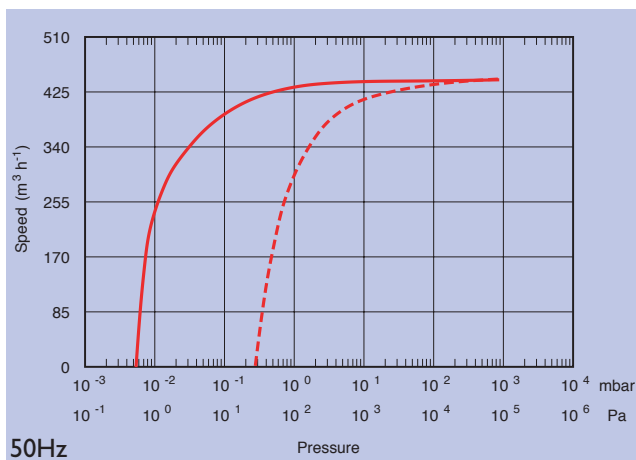
- **Same connections as existing 412H**
 - No changes to existing pipe work
- **Same footprint as previous 412H**
 - Drop in replacement
- **Integral gas ballast valve**
 - Ease of facilitating automatic gas ballast
 - No external valve to damage
- **Integral oil piping**
 - Leak-free performance in a modern, attractive design
- **Improved motor mounting platform**
 - Solid design minimises belt wear
- **Improved positive sealing**
 - O-ring sealing eliminates oil leaks
- **Integral gas ballast valve**
 - Quick adaptation to automatic gas ballast
 - No external valve to snag
- **Computer aided shaft design**
 - Fine tuned for improved balance and vibration

TECHNICAL DATA - 412J

SPECIFICATIONS

• Displacement	m ³ /h	510
	cfm	300
• Rotational speed	rpm	490
• Motor	kW	7.5/11
	hp	10/15
• Connections		
Inlet	mm	103
	in	4 FLG
Exhaust	mm	76
	in	3 FLG / 3 NPT
• Oil capacity	ltr	46
	gal (US)	12
• Weight		
Net	kg	794
	lb	1750
Shipping	kg	896
	lb	1975
• Dimensions		
Height x length x depth	mm	1314 x 1022 x 651
	in	51 3/4 x 40 1/4 x 25 5/8
• Cooling method water		
Water consumption	ltr / min	7.6
	gpm (US)	2
Water inlet	mm	13
	in	1/2 NPT
Water outlet	mm	13
	in	1/2 NPT

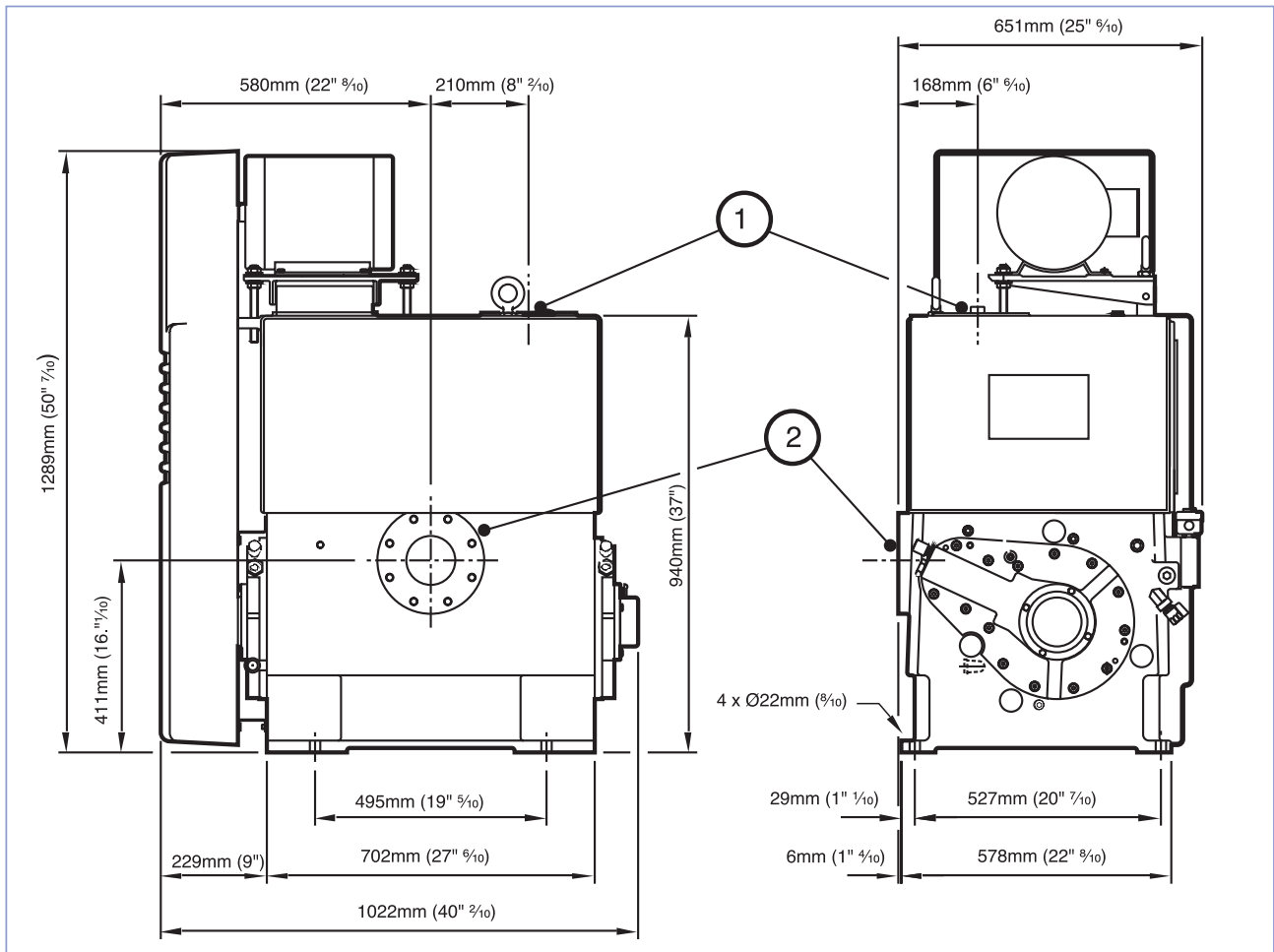
PUMPING PERFORMANCE CURVES



— Without Gas Ballast - - - With Gas Ballast

TECHNICAL DATA - 412J

DIMENSIONS



- 1 OUTLET CONNECTION
- 2 INLET CONNECTION

ORDERING INFORMATION

Product Description

412J piston vacuum pump

Accessories

Oil mist separator 291-300J
 Replacement element
 Water miser (supplied loose, not fitted)
 Oil purifier
 Inlet gasket (4")
 Outlet gasket (2")
 Inlet dust filter 333-330A
 Replacement element (Polyester)
 Replacement element (Glastex)
 Gas ballast inlet filter / silencer (151 1 req'd)

Part Number

On application

900-291-J25
 085-052-264
 900-412-124
 On application
 900-318-008
 900-318-007
 900-333-035
 085-039-014
 085-032-585
 900-151-002

APPLICATIONS - 412J

By combining over a century of technical experience with a global sales and service network, BOC Edwards adds value to your process. Our applications specialists can offer advice on a single pump or component through to a complete bespoke pumping system, custom tailored to your specification.

Applications for which the Stokes 412j is suitable include:

- Automotive
- Refrigeration dehydration
- Brake line evacuation
- Transformer drying and cable fluid conditioning
- Chemical processing
- Heat treatment
- Leak detection
- Metallurgy
- Pharmaceuticals
- Coating
- Melting

The Stokes range of piston pumps complements BOC Edwards' other industrial vacuum and pressure products, including pumps, blowers, systems, boosters, valves and coupling components. Product technologies include rotary vane, vapour diffusion, liquid ring, steam ejector and turbo molecular.

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