

## X20 Quick Facts

Medium pressure open circuit piston pump portfolio

Small pump.  
Big power.



## Eaton X20 open circuit piston pumps

Mobile equipment engineers around the world are experiencing increased power density made possible by [Eaton X20 open circuit piston pumps](#). The reliability, productivity and efficiency of these small, lightweight pumps makes them a heavyweight solution for a wide range of medium-pressure mobile applications operating in harsh environments.

### Reliability and power in a compact package

#### Minimize downtime

- Simple design, fewer parts
- Longer pump life

#### Power efficiently

- Greater fuels savings
- Leak-free system

#### Increase productivity

- High pressure and flow capability
- High power density

# EATON

*Powering Business Worldwide*

## Key markets



Construction



Agriculture



Commercial vehicle



Material handling

### 220 Series

### 420 Series

### 620 Series



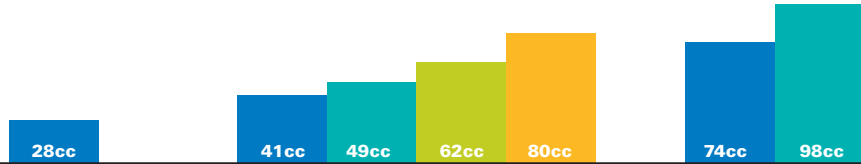
SAE B Mount



SAE B/C Mount



SAE C Mount



## Available options

### Front mount and shaft

	28cc	41cc	49cc	62cc	80cc	74cc	98cc
2 Bolt B	✓	✓	✓	✓	✓		
2/4 Bolt C		✓	✓	✓	✓		
2 Bolt C		✓	✓	✓	✓		
4 Bolt C						✓	✓

### Main ports

	28cc	41cc	49cc	62cc	80cc	74cc	98cc
Side Port	✓	✓	✓	✓	✓	✓	✓
Rear Port	✓	✓	✓	✓	✓	✓	✓

### Aux mount and shaft

	28cc	41cc	49cc	62cc	80cc	74cc	98cc
2 Bolt A	✓	✓	✓	✓	✓	✓	✓
2 Bolt B	✓	✓	✓	✓	✓		
2/4 Bolt B						✓	✓
2/4 Bolt C						✓	✓

### Controls

	28cc	41cc	49cc	62cc	80cc	74cc	98cc
Load sense and pressure control	✓	✓	✓	✓	✓	✓	✓
Pressure control only	✓	✓	✓	✓	✓	✓	✓
Torque control		✓	✓	✓	✓		
Inverse proportional pressure control	✓	✓	✓	✓	✓	✓	✓
Remote pressure control	✓	✓	✓	✓	✓	✓	✓

### Diagnostic pressure ports

	28cc	41cc	49cc	62cc	80cc	74cc	98cc
Diagnostic pressure ports	✓	✓	✓	✓	✓	✓	✓

### Swash position sensor

	28cc	41cc	49cc	62cc	80cc	74cc	98cc
Swash position sensor	✓	✓	✓	✓	✓	✓	✓

### Shaft speed sensor

	28cc	41cc	49cc	62cc	80cc	74cc	98cc
Shaft speed sensor		✓	✓	✓	✓		

### Cold start/ De-stroke valve

	28cc	41cc	49cc	62cc	80cc	74cc	98cc
Cold start/ De-stroke valve	✓	✓	✓	✓	✓	✓	✓

### External manual displacement

	28cc	41cc	49cc	62cc	80cc	74cc	98cc
External manual displacement	✓	✓	✓	✓	✓	✓	✓

### limit adjustment

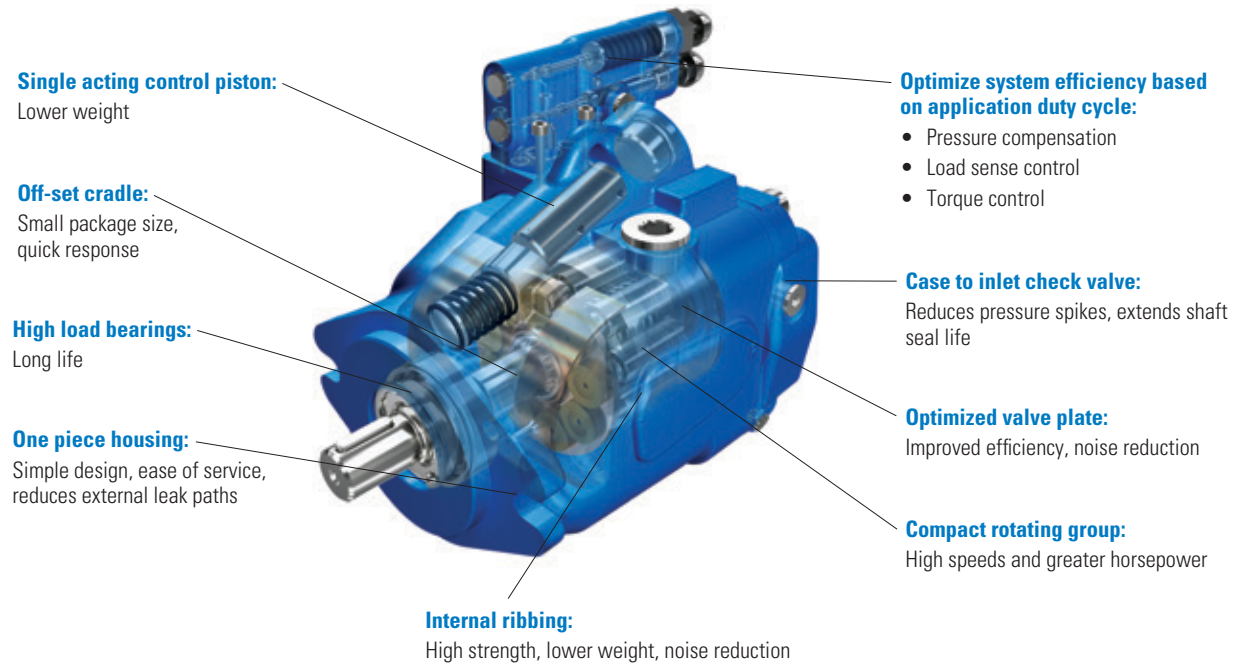
	28cc	41cc	49cc	62cc	80cc	74cc	98cc
limit adjustment	✓	✓	✓	✓	✓	✓	✓

### ATEX certification

	28cc	41cc	49cc	62cc	80cc	74cc	98cc
ATEX certification	✓	✓	✓	✓	✓	✓	✓

# Simple, compact design

## Reliable and efficient



		Units	28cc	41cc	49cc	62cc	80cc	74cc	98cc
Theoretical displacement		cc/ rev	28	41	49.2	62.3	80	74	98
		ln3/ rev	1.71	2.5	3	3.8	4.88	4.54	5.98
Input standby speed	Minimum	rpm	500	600	600	600	600	600	600
	Rated*	rpm	3,000	2,650	2,650	2,600	2,200	2,400	2,200
	Maximum**	rpm	3,600	3,600	3,600	3,600	3,600	2,880	2,640
Maximum pressure		bar	350	350	350	350	250	350	350
		psi	5,076	5,076	5,076	5,076	3,625	5,076	5,076
Continuous pressure		bar	280	280	280	280	210	280	280
		psi	4,061	4,061	4,061	4,061	3,045	4,061	4,061
Theoretical flow at rated speed		lpm	101.1	108.6	130.2	162.0	176.0	178.7	215.7
		gpm	26.7	28.7	34.4	42.8	46.5	47.2	57
Theoretical input torque at max displacement		Nm	125	183	219	278	268	330	436
		ft-lb	92	135	162	205	198	243	322
Theoretical input power		kW	39.2	50.7	60.8	75.6	61.7	82.9	100.6
		HP	52.6	68.0	81.5	101.3	82.7	111.1	135.0
Size – with	Length	mm	187	230	230	230	230	274	288
Load sense pressure controller	Width	mm	134	150	150	150	150	198	198
	Height	mm	210	215	215	215	215	270	270

\*at 1 bar absolute inlet pressure

\*\*pump in standby (minimum displacement)

Need more power density for your construction, mining, agriculture, on-highway or other mobile application? Ask about the X20 experience and how it can help you lower maintenance and fuel costs, improve productivity and minimize downtime. For more information, visit [www.eaton.com/X20](http://www.eaton.com/X20) or [www.eatonpowersource.com](http://www.eatonpowersource.com).

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