

TXH35A



TXH3C Sliding

Vane Pump

Spec Sheet 201-003

Section: 20

Effective: October 2017
Replaces: July 2012

Applications

Blackmer's TXH3C and TXH35A cast-iron rotary vane pumps have been designed for use on tank trucks and transports that handle a wide range of clean, non-abrasive and non-corrosive fluids that are compatible with cast iron.

Design Features

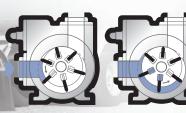
While very similar in the types of fluids that they can handle, the pumps do have a number of design differences that make them unique.

The TXH3C pumps are designed with horizontal parallel porting that can offer installers easier piping connections than pumps with 90-degree ported pumps. TXH3C pumps are also installed using mounting feet, rather than brackets. Other features of the TXH3C models are a large-diameter shaft with low-friction, grease-lubricated ball bearings for smooth, quiet operation. Cartridge-type mechanical seals provide reliable service while preventing external leakage. The double-ended shaft allows for either clockwise or counter-clockwise rotation. Internal safety relief valves are standard with an optional piston air valve for trucks with automatic pressure-control systems also available.

TXH35A pumps feature vertical parallel porting for easy piping. Pumps are installed using a mounting bracket in one of three positions on the pump. Other features are similar to the TXH3C models: grease-lubricated ball bearings; cartridge-type mechanical seals; Duravanes; and a hardened-steel drive shaft with ductile-iron rotor. TXH35A options include 3-inch cast-iron NPT or steel weld pipe flanges and hydraulic motor adaptors.

Performance

The TXH3C pumps offer fast unloading rates up to 240 gpm (908 L/min.) at 1,200 rpm at differential pressures up to 125 psi (8.6 bar). The TXH35A pumps offer speeds up to 1,000 rpm and delivery rates to 300 gpm (1,135 L/min.). They can handle viscosities up to 20,000 ssu (4,250 cSt) at operating temperatures to 240°F (115°C)





How Blackmer's sliding vane action works

Maximum Operating Limits

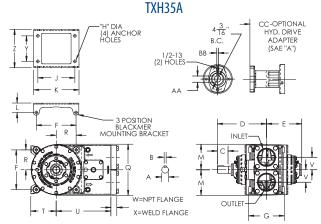
Dumm Madal		Flowrate		Speed	Viscosity		
Pump Model	US gpm	m³/h	L/min	rpm	ssu	cSt	
TXH3C	240	55	908	1,200	20,000	4,250	
TXH35A	300	68	1,135	1,000	20,000	4,250	
Dumm Madal	Differentia	l Pressure	Workin	g Pressure ¹	Tempe	rature	
Pump Model	psi	bar	psi	bar	٥F	٥С	
TXH3C	125	8.6	175	12.1	240	115	
TXH35A	125	8.6	175	12.1	240	115	

¹Maximum Relief Valve Setting

TXH3C OUTLET W-3" NPT FLG. X-3" WELD FLG. (PER 0PTIONAL BLACKMER FLANGES) SHAFT PROTECTOR RIGHT HAND ROTATION. FOR LEFT HAND ROTATION, SHAFT PROJECTION IS OPPOSITE THAT SHOWN

Performance Data

Pump Model	Pump Speed	Flow Rate 50 psi (3.45 bar)				
i unip Model	rpm	gpm	L/min			
	750	145	549			
TXH3C	1,000	195	738			
	1,200	235	890			
	500	137	519			
TXH35A	750	212	802			
	1,000	293	1,109			



Dimensions

Pump Mode	I	Α	В	C	D	E	F	G	Н	J	K	L	М	N	Р
TVII2C	in.	1 1/4	-	2 1/4	8 3/4	6	4	5 1/4	-	4 23/32	6 1/8	5 5/16	4 19/32	3 3/32	6 3/32
TXH3C	mm	-	-	57.15	222.25	152.40	101.60	133.35	-	119.86	155.58	134.94	116.68	78.58	154.70
TVII2CA	in.	1 %	25/64	2 1/8	9 %6	6 1/8	7 25/32	7	17/32	7 1/4	8 %	1 1/8	5	-	-
TXH35A	mm	_	_	54.0	242.9	174.6	197.6	177.8	13.5	184.2	229.4	47.6	127	-	_

Pump Mode	al.	0		_		v	W	v	v	7	AA	ВВ	cc	Approx. Wt.	
rullip would	21	Ų	K	l	U	V	VV	X	Y					lbs.	kg
TVII2C	in.	9 3/16	3 ½	3 1/8	8 13/16	2 1/16	1 1/4	1 3/16	-	-	9 ½	1/4	7/64	00	45
TXH3C	mm	233.36	88.90	98.43	223.82	61.91	28.57	30.16	-	-	241.30	-	-	99	45
TXH35A	in.	10	3 %	4 31/32	10 %	2 1/16	1 1/32	11/4	2 1/16	5	11/4	5/16	12 3/32	170	77
ІЛПЭЭН	mm	254	98.4	126.2	269.9	61.91	29.2	31.81	61.91	127	_	-	307		

Pipe Companion Flanges

Pump Size	Standard	Optional Materials
TXH3C TXH35A	Two 3" NPT Tapped Flanges, Cast Iron: ASTM A48	3" Weld Flanges, Steel: ASTM A216 WCB

Sales Information and Equipment Application Assistance

Blackmer has a world wide distribution network to assist you in specifying any of our family of pumps, compressors and other equipment for your application. For more information, or to find the distributor nearest to you, please contact us at the telephone, fax or internet address listed below.









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