

Reciprocating Pumps



SNTX5231-01



Completion &
Production Solutions

As the industry leading manufacturer of reciprocating pumps, **we offer a large array of field-proven, reliable pumps backed by a global technical support team.**

National™

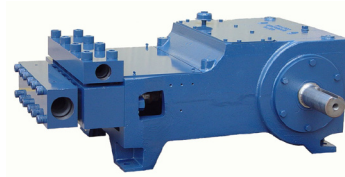
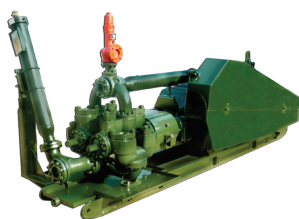
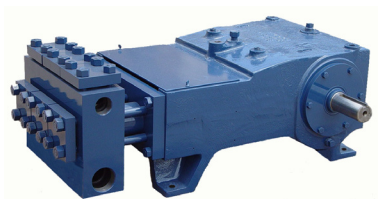
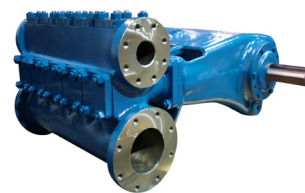
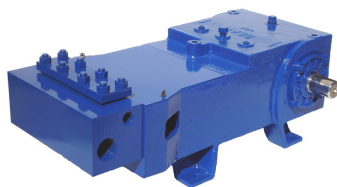
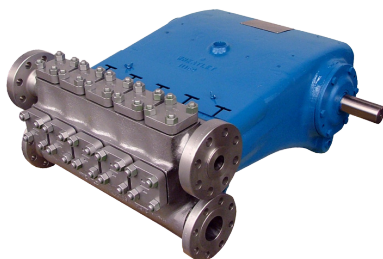
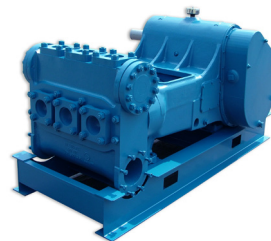
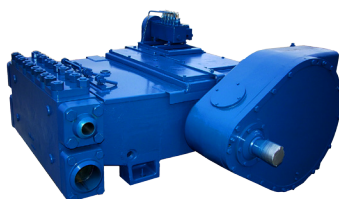
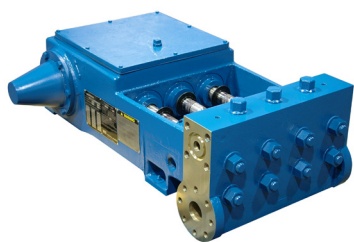
Oilwell™

Wheatley™

Gaso™

Bear™

MSW



Call 918-447-4600 to find a distributor near you.

Reciprocating Pumps

As the industry leading manufacturer of reciprocating pumps, we offer a large array of field-proven, reliable pumps backed by a global technical support team. Our product line includes continuous and intermittent duty pumps available in single-acting and double-acting models. With simplex, duplex, triplex, and quintuplex designs, we have an option that can meet your needs in nearly every application.

Single-Acting, Continuous Duty Pumps: Cast Nickel Aluminum Bronze is the most common stocked cylinder. Other metallurgies may be stocked based on market demands. Secondary models include all other metallurgies aside from Cast Nickel Aluminum Bronze. These pumps will typically have a longer lead time.

Pump Model No.										Maximum Displacement			Maximum Pressure			Metallurgy						
Rated Horsepower	New	Old	Gallons per minute (USGPM)	Liters per second (l/s)	Barrels per Day (BPD)	Cubic Meters per Hour (m³/hr)	Pounds per Square Inch (PSI)	Kilopascals (kPa)	Type	CDI Cast Ductile Iron	CBRZ Cast Nickel/Aluminum Bronze	CSS Cast Stainless Steel	CSTL Cast Carbon Steel	FCSTL Forged Carbon Steel	FSS Forged 15-5 Stainless Steel	CDPLX Cast Duplex Stainless Steel						
2	2S-1L	P50BLS	4.80	0.30	164	1.08	1,149	7,920	Simplex	X	X	X	P									
	2S-1M	P50B	3.60	0.23	125	0.83	2,042	14,081		X	X	X	P									
	2S-1H	P50BH	1.20	0.08	41	0.27	4,595	31,681						X	X							
5	5S-2L	P50ALS	10.41	0.66	357	2.36	1,149	7,920	Simplex	X	X	X	P									
	5S-2M	P50A	7.97	0.50	274	1.81	2,042	14,081		X	X	X	P									
	5S-2H	P50H	2.60	0.16	90	0.59	4,595	31,681						X	X							
11	11D-2L	P100ALS	23.80	1.50	816	5.40	1,149	7,920	Duplex	X	X		P									
	11D-2M	P100A	18.24	1.15	626	4.14	2,042	14,081		X	X		P									
	11D-2H	P100H	5.96	0.38	205	1.35	4,595	31,681						X	X							
22	22T-2L	T225LS	42.70	2.69	1,464	9.69	1,443	9,949	Triplex	X	X	X	P									
	22T-2M	T225M	32.70	2.06	1,121	7.42	2,565	17,688		X	X	X	P									
	22T-2H	T225H	10.70	0.67	366	2.42	4,660	32,130						X	X							
30	30T-2L	J-30-L	51.65	3.26	1,771	11.73	2,000	13,790	Triplex		X	X		X								
	30T-2H	J-30-H	22.95	1.45	787	5.21	5,000	34,474			X	X		X								
31	31Q-2L	5P200A	57.40	3.62	1,968	13.04	2,042	14,081	Quintuplex	X	X		P			X						
32	32T-2L	T225LS	42.69	2.69	1,464	9.69	2,037	14,046	Triplex	X	X	X	P									
	32T-2M	T225M	32.68	2.06	1,121	7.42	2,565	17,685		X	X	X	P									
	32T-2H	T225H	10.67	0.67	366	2.42	4,600	31,716						X	X							
55	55T-3H		23.91	1.51	820	5.43	3300	22750	Triplex		X											
	55T-3L	3364-7	95.62	6.03	3,279	21.72	1,391	9,591		X												
	55T-3SC	3365-SSC	77.46	4.89	2,656	17.59	1,817	12,527					P									
	55T-3LS	3364-6	95.62	6.03	3,279	21.72	1,480	10,204														
	55T-3M	3364-3	46.86	2.96	1,607	10.64	1,817	12,527		X	X											
59	55T-3MS		46.86	2.96	1,607	10.64	2,473	7,050	Triplex													
	59T-3L	T365AL	134.90	8.51	4,627	30.65	970	6,686		X	X		P			X						
	59T-3M	T365AM	93.71	5.91	3,213	21.28	2,295	15,825		X	X		P			X						
	59T-3MS	T365MS	33.74	2.13	1,157	7.66	4,789	33,017						X	X							
	59T-3H	T365H	14.99	0.95	515	3.41	10,000	68,948						X	X							
60	60T-3L	J-60-L	137.7	8.69	4,722	31.27	1,500	10,342	Triplex		X	X		X								
	60T-3M	J-60-M	61.2	3.86	2,099	13.90	3,200	22,063			X	X		X								
	60T-3H	J-60-H	28.95	1.82	992	6.57	5,000	34,474			X											
80	80T-3L	80T-3L	174.3	11.00	5,976	39.58	2,017	13,906	Triplex		X			X								
	80T-3M	80T-3M	61.2	3.86	2,099	13.90	4,267	29,420			X	X										
	80T-3H	80T-3H	28.9	1.82	992	6.57	5,161	35,584			X			X								
100	100T-4L	J-100-L	209.1	13.19	7,171	47.49	1,659	11,436	Triplex		X	X		X								
	100T-4M	J-100-M	82.9	5.23	2,843	18.83	3,180	21,925			X	X		X								
	100T-4H	J-100-H	56.2	3.55	1,928	12.77	5,000	34,474			X			X								
101	101T-4L	T100-4	209.1	13.2	7,171	47.5	1,220	8,408	Triplex	X	X		P			X						
	101T-4M	T100-3	114.7	7.2	3,935	26.1	2,744	18,919		X	X		P			X						
	101T-4H	T100-2	48.5	3.1	1,663	11.0	5,378	37,081						X	X	F						
103	103Q-3L	Q3115AL	232.9	14.70	7,987	52.9	970	6,686	Quintuplex		X		P			X						
	103Q-3M	Q3115AM	161.8	10.21	5,547	36.7	2,295	15,825			X		P			X						
	103Q-3MS	Q3115MS	58.2	3.67	1,997	13.2	4,789	33,017						X								
	103Q-3H	Q3115H	25.9	1.63	888	5.9	10,000	68,948							X							
110	110Q-3L	HP125AL	235.6	14.9	8,079	53.5	1,037	7,149	Quintuplex		X		P			X						
	110Q-3M	HP125AM	163.6	10.3	5,610	37.2	2,454	16,922			X		P			X						
	110Q-3MS	HP125MS	58.9	3.7	2,020	13.4	5,121	35,306						X								
	110Q-3H	HP125H	26.2	1.7	898	5.9	10,000	68,948							X							
125	125T-4L	A344-H	293.8	18.5	10,072	66.7	1,500	10,342	Triplex		X											
	125T-4M	A334-H	165.2	10.4	5,666	37.5	3,180	21,925			X											
	125T-4H	A324-H	92.9	5.9	3,187	21.1	5,000	34,474			X											
130	130T-4L	130T-4L	241.3	15.2	8,272	54.8	1,750	12,065	Triplex		X			X								
	130T-4M	130T-4M	103.6	6.5	3,551	23.5	3,111	21,450			X											
	130T-4H	130T-4H	56.2	3.5	1,928	12.8	5,000	34,474			X											
133	133T-4L	T140-4	209.1	13.2	7,171	47.5	1,440	9,929	Triplex	X	X		P			X						
	133T-4M	T140-3	114.7	7.2	3,935	26.1	3,600	24,821			X		P			X						
	133T-4H	T140-2	48.5	3.1	1,663	11.0	6,000	41,369						X		F						
163	163Q-4L	HP165AL	339.8	21.4	11,652	77.2	1,220	8,408	Quintuplex	X	X		P			X						
	163Q-4M	HP165AM	186.5	11.8	6,394	42.3	2,744	18,919		X	X		P			X						
	163Q-4H	HP165MS	78.8	5.0	2,702	17.9	5,378	37,081						X		F						
165	165T-5L	J-165-L	326.4	20.6	11,191	74.1	1,650	11,376	Triplex		X	X		X								
	165T-5M	J-165-M	154.3	9.7	5,290	35.0	3,120	21,512			X	X		X								
	165T-5H	J-165-H	81.6	5.1	2,798	18.5	5,000	34,474			X	X		X								

Reciprocating Pumps

Single-Acting, Continuous Duty Pumps (continued)

Reciprocating Pumps										Metallurgy						
Single-Acting, Continuous Duty Pumps (continued)										CDI Cast Ductile Iron	CDR Cast Niv	CSS Cast Stainless Steel	CSTL Cast Carbon Steel	FCSTL Forged Carbon Steel	FSS Forged 15-5 Stainless Steel	CDPLX Cast Duplex Stainless Steel
Pump Model No.			Maximum Displacement			Maximum Pressure										
Rated Horsepower	New	Old	Gallons per minute (USGPM)	Liters per second (l/s)	Barrels per Day (BPD)	Cubic Meters per Hour (m³/hr)	Pounds per Square Inch (PSI)	Kilopascals (kPa)								
184	184T-7XL	HP250XL	636.7	40.2	21,832	144.6	728	5,020	Triplex		X		X			X
	184T-7L	HP250BL	347.9	21.9	11,927	79.0	1,204	8,299			X		P			X
	184T-7M	HP250BM	203.4	12.8	6,975	46.2	2,912	20,081			X		P			X
	184T-7H	HP250BH	87.0	5.5	2,982	19.7	6,000	41,369								F
200	200T-5L	J-200-L	326.4	20.6	11,191	74.1	1,680	11,583	Triplex		X	X		X		
	200T-5M	J-200-M	154.3	9.7	5,290	35.0	3,349	23,097			X	X		X		
	200T-5H	J-200-H	81.6	5.1	2,798	18.5	5,000	34,474			X	X		X		
202	202T-6L	A346-H	353.7	22.3	12,127	80.3	1,500	10,342	Triplex		X					
	202T-6M	A336-H	176.3	11.1	6,045	40.0	3,180	21,925			X					
217	217Q-4L	HP200AL	339.8	21.4	11,652	77.2	1,440	9,929	Quintuplex	X	X		P			X
	217Q-4M	HP200AM	186.5	11.8	6,394	42.3	3,600	24,821		X	X		P			X
	217Q-4H	HP200MS	78.8	5.0	2,702	17.9	6,000	41,369						X		F
250	250T-5L	250T-5L	368.5	23.2	12,634	83.7	1,544	10,646	Triplex		X			X		
	250T-5M	250T-5M	215.5	13.6	7,388	48.9	3,026	20,865			X			X		
	250T-5H	250T-5H	103.3	6.5	3,541	23.5	5,000	34,474			X					
267	267Q-6L	A-546	663.3	41.8	22,741	150.7	1,420	9,791	Quintuplex		X					
	267Q-6M	A-536	330.5	20.9	11,331	75.1	3,180	21,925			X					
300	300Q-5L	J-275-L	544.0	34.3	18,651	123.6	1,650	11,376	Quintuplex		X					
	300Q-5M	J-275-M	257.1	16.2	8,816	58.4	3,000	20,684			X	X		X		
	300Q-5H	J-275-H	136.0	8.6	4,663	30.9	5,000	34,474			X	X		X		
308	308T-7XL	HP360XL	636.7	40.2	21,832	144.6	1,220	8,410	Triplex				X			X
	308T-7L	HP360AL	347.9	21.9	11,927	79.0	2,169	14,952			X		P			X
	308T-7M	HP360AM	203.4	12.8	6,975	46.2	3,600	24,821			X		P			X
	308T-7H	HP360H	87.0	5.5	2,982	19.7	6,170	42,542						X	X	
350	350Q-5L	Q350-4	489.6	30.9	16,787	111.2	1,670	11,511	Quintuplex		X		P			X
	350Q-5M	Q350-3	323.2	20.4	11,082	73.4	3,483	24,017			X		P			X
	350Q-5H	Q350-2	154.9	9.8	5,312	35.2	6,000	41,369			F			X		
430	430T-7L		535.5	33.8	18,360	121.6	1,550	10,687	Triplex		X	X		X		
	430T-7M		301.2	19.0	10,328	68.4	3,150	21,719			X					
	430T-7H		192.8	12.2	6,610	43.8	5,000	34,474			X	X		X		
543	543Q-7XL	HP600XL	1121.3	70.7	38,445	254.6	1,220	8,410	Quintuplex				X			X
	543Q-7L	HP600AL	612.6	38.6	21,003	139.1	2,169	14,952			X		P			X
	543Q-7M	HP600AM	358.2	22.6	12,283	81.4	3,600	24,821			X		P			X
	543Q-7H	HP600H	153.1	9.7	5,251	34.8	6,170	42,542						X	X	
550	550T-7D		612	38.6	20,983	139.0	5,000	34,474	Triplex-Piston					X		
622	622T-8XL	T600-7	1039.6	65.6	35,643	236.1	1,640	11,307	Triplex		X		X			X
	622T-8L	T600-5	530.4	33.5	18,186	120.5	2,220	15,307			F			X		F
	622T-8M	T600-4	339.5	21.4	11,639	77.1	3,705	25,546			F			X		F
	622T-8MS	T600-3	190.9	12.0	6,547	43.4	6,170	42,542			F			X		F
625	625Q-7L	J-625-L	850.8	53.7	29,172	193.2	1,550	10,686	Quintuplex		X	X		X		
	625Q-7M	J-625-M	544.5	34.4	18,671	123.7	3,150	21,719			X					
	625Q-7H	J-625-H	306.3	19.3	10,502	69.6	5,000	34,474			X	X		X		
750	D-750LA		560	35.3	19,200	127.2	5,000	34,474	Triplex-Piston						X	
1069	C-1000*	C-1000	929	58.6	31,851	211.0	3,705	25,545	Triplex					X		

*C-1000 is also available in Forged Bronze and Forged Duplex SS

Single-Acting, Continuous Duty Pumps: Steel fluid ends are the standard material for primary pumps. Other metallurgies are available, subject to application.

Single-Acting, Continuous Duty Pumps: Steel fluid ends are the standard material for primary pumps. Other metallurgies are available, subject to application.

									Metallurgy					
Maximum Displacement				Maximum Pressure					CAS Cast Alloy Steel	CDPLX Cast Super Duplex Stainless Steel	PLSS Plate 316 Stainless Steel	PLSTL Plate Carbon Steel	FAST Forged Alloy Steel	Forged Stainless Steel
Rated Horsepower (KW)	Pump Model No.	Gallons per minute (USGPM)	Liters per second (l/s)	Barrels per Day (BPD)	Cubic Meters per Hour (m³/hr)	Pounds per Square Inch (PSI)	Kilopascals (kPa)	Type						
6 (4)	MX-3M & MC	7.07	0.45	243	1.61	2,012	13,873	Simplex	X	X	X		X	
	MX-3H	2.34	0.19	81	0.69	6,000	41,369				X		X	
13 (10)	CX-5M & MC	16.16	1.02	555	3.67	2,012	13,873	Duplex	X	X	X		X	
	CX-5H	6.88	0.43	237	1.56	8,500	58,606				X		X	X
19 (14)	BX-10L & LC	45.90	2.90	1,574	10.42	832	5,733	Triplex	X	X	X	X		
	BX-10M & MC	30.30	1.91	1,039	6.88	2,012	13,873		X	X	X		X	
	BX-10H	11.47	0.72	394	2.61	8,500	58,606				X		X	X
29 (22)	BD-28L & LC	45.90	2.90	1,574	10.42	1,247	8,600	Triplex	X	X	X	X		
	BD-28M & MC	30.30	1.91	1,039	6.88	3,018	20,809		X	X			X	
	BD-28H	11.47	0.72	394	2.61	10,000	68,948				X		X	X
40 (30)	BD-28UH	4.48	0.28	154	1.02	20,000	137,896						X	X
	BD-28UHI	4.93	0.31	170	1.12	20,000	137,896	Triplex					X	X
	BD-30L	71.00	4.48	2,435	16.12	1,362	9,392	Triplex	X	X	X	X		
33 (25)	BD-30M	31.56	1.99	1,082	7.17	3,597	24,800		X	X	X	X		

Reciprocating Pumps

Single-Acting, Continuous Duty Pumps (continued)

Reciprocating Pumps

Single-Acting, Continuous Duty Pumps (continued)

									Metallurgy							
									CAS Cast Alloy Steel	CDPLX Cast Super Duplex Stainless Steel						
											PLSS Plate 316 Stainless Steel		PLSTL Plate Carbon Steel	FAST Forged Alloy Steel	Forged Stainless Steel	
Maximum Displacement					Maximum Pressure											
Rated Horsepower (KW)	Pump Model No.	Gallons per minute (USGPM)	Liters per second (l/s)	Barrels per Day (BPD)	Cubic Meters per Hour (m³/hr)	Pounds per Square Inch (PSI)	Kilopascals (kPa)	Type								
69 (51)	BD-60LC	137.70	8.69	4,722	31.27	1,364	9,407	Triplex	X	X						
	BD-60L	95.62	6.03	3,279	21.72	1,965	13,547				X	X				
	BD-60MC	69.09	4.36	2,369	15.69	3,070	21,167		X	X						
	BD-60M	46.86	2.96	1,607	10.64	4,421	30,480				X	X				
	BD-60H	19.36	1.22	664	4.40	6,907	47,625				X	X				
	BD-60UH	11.70	0.74	402	2.66	17,601	121,357							X	X	
89 (66)	BD-60UHI	11.70	0.74	402	2.66	20,000	137,896	Triplex						X	X	
80 (60)	BD-85LC	160.65	10.14	5,508	36.48	1364	9,407	Triplex	X	X						
	BD-85L	111.56	7.04	3,825	25.34	1,965	13,547				X	X				
	BD-85MC	80.60	5.09	2,764	18.31	3,070	21,167		X	X						
	BD-85M	54.67	3.45	1,875	12.41	4,421	30,480				X	X				
	BD-85H	22.59	1.43	775	5.13	6,907	47,625				X	X				
	BD-85UH	13.70	0.90	469	3.10	17,601	121,357							X	X	
104 (78)	BD-85UHI	13.70	0.90	469	3.10	20,000	137,896	Triplex						X	X	
115 (86)	BQ-100L	159.37	10.05	5,465	36.19	1,965	13,547	Quintuplex	X	X	X	X				
	BQ-100M	78.09	4.93	2,678	17.74	4,421	30,480		X	X	X	X				
	BQ-100H	32.27	2.04	1,107	7.33	6,900	47,574				X	X				
192 (143)	BD-120LC	351.13	22.15	12,039	79.74	1,615	11,137	Triplex	X	X						
	BD-120L	277.44	17.50	9,513	63.01	2,256	15,555				X	X				
	BD-120MC	169.34	10.68	5,806	38.46	3,370	23,237		X	X						
	BD-120M	119.48	7.54	4,097	27.13	6,461	44,548				X	X				
	BD-120H	39.01	2.46	1,338	8.86	10,000	68,948							X	X	
226 (168)	BD-165LC	413.10	26.06	14,164	93.81	1,615	11,137	Triplex	X	X						
	BD-165L	326.40	20.59	11,191	74.13	2,256	15,555				X	X				
	BD-165MC	199.22	12.57	6,831	45.24	3,370	23,237		X	X						
	BD-165M	140.57	8.87	4,820	31.92	6,461	44,548				X	X				
	BD-165H	45.90	2.90	1,574	10.42	10,000	68,948							X	X	

Double-Acting, Continuous Duty Piston Pumps: Cast Ductile Iron and Cast Carbon Steel are the materials available for the double acting duplex piston pumps. Other metallurgies are not available for this product line. For the models 2651 & 2652 only cast steel is available. For model 535 only cast ductile iron is available. All other models are available in either material.

Double-Acting, Continuous Duty Piston Pumps: Cast Ductile Iron and Cast Carbon Steel are the materials available for the double acting duplex piston pumps. Other metallurgies are not available for this product line. For the models 2651 & 2652 only cast steel is available. For model 535 only cast ductile iron is available. All other models are available in either material.									Metallurgy						
Rated Horsepower	Pump Model No.	Gallons per minute (USGPM)	Liters per second (l/s)	Barrels per Day (BPD)	Cubic Meters per Hour (m³/hr)	Pounds per Square Inch (PSI)	Kilopascals (kPa)	Type	CDI Cast Ductile Iron	CBRZ Cast Nickel Aluminum Bronze	CSS Cast Stainless Steel	CSTL Cast Carbon Steel	FCSTL Forged Carbon Steel	FSS Forged 15-5 Stainless Steel	CDPLX Cast Duplex Stainless Steel
12.4	535	69.6	4.4	2,387	15.8	796	5,487	Duplex	X						
33	1847-A	160.0	10.1	5,487	36.3	990	6,826	Duplex	X			X			
38	SP4560	161.0	10.2	5,525	36.6	789	5,449	Duplex	X						
37	SP4560P	57.6	3.6	1976	13.1	1,420	9,807	Duplex	X						
66	SP5080	233.0	14.7	7,992	53.0	1,138	7,859	Duplex	X						
74	1550	281.7	17.8	9,658	64.0	1,440	9,929	Duplex	X			X			
104	1654	233.8	14.7	8,016	53.1	1,800	12,411	Duplex	X			X			
107	SP50100	271.0	17.1	9,297	61.6	1,507	10,407	Duplex	X						
109	SP70100	547.9	34.6	18,797	124.6	469	3,239	Duplex	X						
127	1757	336.8	21.2	11,547	76.5	1,750	12,066	Duplex	X			X			
130	1759	637.2	40.2	21,849	144.7	1,042	7,184	Duplex	X			X			
140	SP50100P	271.1	17.1	9,301	61.6	1,775	12,258	Duplex	X						
140	SP70100P	548.4	34.6	18,815	124.6	678	4,685	Duplex	X						
240	SP75120	793.4	50.1	27,219	180.4	1,065	7,355	Duplex	X						
250	2651	391.9	24.7	13,434	89.0	1,760	12,135	Duplex				X			
258	2652	702.3	44.3	24,079	159.5	1,125	7,757	Duplex				X			

- Applications at pressures above 15,000 PSIG must be approved by Process and Flow Technologies' Engineering Department.
- The maximum displacement (volume) values listed assume 100% volumetric efficiency. Actual "in service" displacement will vary depending on the inlet piping and the fluid being pumped.
- The rated horsepower listed includes allowances for mechanical efficiencies and is the maximum horsepower allowed for the pump model.
- Pumps will not produce the maximum displacement listed at the maximum pressure listed. Consult our sales and service location for details.
- An auxiliary lubrication system may be required for operating speeds below 200 RPM. Consult your Process and Flow Technologies sales and service location for details.

Black: Primary models

Red: Secondary models (typically have longer lead time)

X: Available, P: Available in plate, F: Available forged

Call 918-447-4600 to find a distributor near you.

National Oilwell Varco has produced this brochure for general information only, and it is not intended for design purposes. Although every effort has been made to maintain the accuracy and reliability of its contents, National Oilwell Varco in no way assumes responsibility for liability for any loss, damage or injury resulting from the use of information and data herein. All applications for the material described are at the user's risk and are the user's responsibility.

Corporate Headquarters
7909 Parkwood Circle Drive
Houston, Texas 77036
USA

© 2015 National Oilwell Varco | All Rights Reserved
DPF1000087-MKT-001 Rev 01