



Actuator Model	MOP [psig]	MAWP [psig]	Stroke Position	Operating Pressure (psig)									
				40	50	60	70	80	90	100	125	150	175
				Output Torque [Lbf.in]									
UPD1/S-*/070/D1	174	174	BREAK	5725	7190	8655	10119	11584	13048	14513	18174	21835	25497
			MID	3462	4316	5170	6024	6879	7733	8587	10723	12859	14995
			END	6045	7583	9120	10658	12196	13734	15272	19116	22960	26805
UPD1/A-*/070/D1	155	174	BREAK	9015	11346	13677	16008	18339	20670	23001	28829	34656	
			MID	3444	4323	5202	6080	6959	7838	8716	10913	13110	
			END	4718	5926	7134	8343	9551	10759	11967	14988	18009	
UPD1/S-*/095/D1	125	174	BREAK	9804	12331	14857	17383	19910	22436	24963	31278	37594	43910
			MID	6014	7539	9065	10590	12116	13642	15167	18981	22795	26609
			END	10474	13159	15845	18530	21215	23900	26585	33297	40010	46772
UPD1/A-*/095/D1	90	174	BREAK	15397	19339	23281	27223	31165	35107				
			MID	5930	7443	8656	10470	11983	13496				
			END	8140	10215	12289	14364	16439	18514				
UPD1/S-*/110/D1	90	174	BREAK	13936	17475	21015	24554	28093	31633				
			MID	8579	10788	12997	15207	17416	19625				
			END	14962	18806	22651	26495	30340	34184				
UPD1/A-*/110/D1	60	174	BREAK	21841	27443	33045							
			MID	10780	10780	10780							
			END	11615	14581	17546							
UPD2/S-*/070/D1	174	174	BREAK	7492	9396	11300	13203	15107	17011	18915	23675	28435	33195
			MID	4501	5672	6844	8016	9187	10359	11531	14460	17389	20318
			END	7860	9874	11888	13902	15915	17929	19943	24977	30012	35046
UPD2/A-*/070/D1	174	174	BREAK	11748	14763	17777	20792	23806	26821	29835	37372	44908	52444
			MID	4465	5612	6759	7907	9054	10201	11348	14216	17085	19953
			END	6125	7712	9298	10885	12471	14058	15645	19611	23578	27544
UPD2/S-*/095/D1	174	174	BREAK	12756	16027	19297	22568	25839	29110	32381	40558	48735	56912
			MID	7811	9813	11815	13816	15818	17819	19821	24825	29829	34832
			END	13626	17116	20607	24097	27588	31078	34569	43295	52021	60748
UPD2/A-*/095/D1	105	174	BREAK	20013	25151	30289	35427	40565	45703	50841			
			MID	7696	9673	11650	13628	15605	17582	19559			
			END	10568	13289	16011	18733	21454	24176	26989			
UPD2/S-*/110/D1	125	174	BREAK	18100	22737	2775	32013	36650	41288	45926	57520		
			MID	11167	14023	16879	19734	22590	25446	28302	35442		
			END	19475	24455	29434	34414	39393	44373	49352	61801		
UPD2/A-*/110/D1	75	174	BREAK	28419	35705	42911	50277						
			MID	10992	13821	16652	19484						
			END	15099	18956	22812	26669						

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				40	50	60	70	80	90	100	125	150	175
				Ouput Torque [Lbf.in]									
UPD3/S-*/130/D1	155	174	BREAK	33474	42066	50658	59250	67842	76434	85026	106506	127986	
			MID	20687	25971	31256	36541	41825	47110	52394	65606	78817	
			END	36066	45317	54568	63819	73070	82321	91572	114700	137828	
UPD3/A-*/130/D1	105	174	BREAK	52563	66050	79536	93022	106508	119994	133480			
			MID	20270	25481	30693	35904	41115	46327	51538			
			END	27846	34974	42101	49228	56356	63483	70611			
UPD3/S-*/150/D1	125	174	BREAK	44379	55717	67055	78393	89731	101069	112407	140752		
			MID	27509	34538	41568	48598	55628	62658	69688	87262		
			END	47974	60239	72505	84770	97036	109302	121567	152231		
UPD3/A-*/150/D1	75	174	BREAK	69677	87483	105290	123096						
			MID	26972	33867	40763	47658						
			END	37038	46496	55955	65413						
UPD3/S-*/170/D1	90	174	BREAK	52931	71067	89203	107339	125475	143611				
			MID	35266	44224	53182	62141	71099	80057				
			END	61470	77141	92811	108482	124153	139823				
UPD3/A-*/170/D1	60	174	BREAK	89284	112022	134759							
			MID	34565	43377	52189							
			END	47454	59636	71619							
UPD3/S-*/190/D1	75	174	BREAK	70688	88690	106692	124693						
			MID	43908	55099	66291	77483						
			END	76595	96098	115601	135104						
UPD3/A-*/190/D1	45	174	BREAK	111159									
			MID	43123									
			END	59208									
UPD5/S-*/150/D1	174	174	BREAK	61173	76807	92441	108075	123709	139343	154977	194063	233148	272233
			MID	37806	47472	57138	66804	76470	86136	95802	119967	144132	168297
			END	64666	82704	100742	118781	136819	154857	172896	217992	263087	308183
UPD5/A-*/150/D1	125	174	BREAK	96075	120570	145064	169559	194054	218548	243043	304279		
			MID	37073	46556	56039	65522	75005	84488	93971	117678		
			END	50807	63902	76998	90093	103189	116284	129380	162118		
UPD5/S-*/170/D1	155	174	BREAK	78380	98346	118313	138280	158246	178213	198180	248096	298013	
			MID	48603	60966	73330	85693	98056	110419	122783	153691	184599	
			END	84753	106331	127908	149486	17164	192641	214219	268163	322107	
UPD5/A-*/170/D1	105	174	BREAK	123086	154415	185744	217073	248403	279732	311061			
			MID	47645	59788	71932	84075	96219	108363	120506			
			END	65416	82075	98734	115393	132052	148712	165374			

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Actuator Model	MOP [psig]	MAWP [psig]	Stroke Position	Operating Pressure (psig)									
				40	50	60	70	80	90	100	125	150	175
				Ouput Torque [Lbf.in]									
UPD5/S-*/190/D1	125	174	BREAK	97455	122255	147054	171854	196654	221453	246253	308252		
			MID	60533	75948	91362	106777	122191	137605	153020	191556		
			END	105573	132460	159346	186233	213120	240006	266893	334109		
UPD5/A-*/190/D1	80	174	BREAK	152982	191952	230921	269890	308859					
			MID	59375	74484	89593	104703	119812					
			END	81482	102242	123002	143762	164522					
UPD5/S-*/210/D1	105	174	BREAK	119011	149192	179374	209556	239738	269920	300102			
			MID	73954	92737	111520	130303	149085	167868	186651			
			END	129152	161909	194666	227423	260180	292937	352694			
UPD5/A-*/210/D1	60	174	BREAK	186858	234260	281663							
			MID	72618	91047	109476							
			END	99691	124979	150267							
UPD5/S-*/230/D1	90	174	BREAK	142802	178904	215005	251106	287207					
			MID	88776	111196	133616	156036	178455					
			END	154963	194115	233267	272419	311572					
UPD5/A-*/230/D1	55	174	BREAK	224247	280913								
			MID	87126	109155								
			END	119591	149834								
UPD6/S-*/190/D1	174	174	BREAK	130316	163488	196660	229832	263004	296176	329348	412278	495208	578138
			MID	81095	100915	120736	140556	160376	180196	200017	249567	299118	348668
			END	140214	175924	211635	247345	283056	318766	354477	443753	533030	622306
UPD6/A-*/190/D1	155	174	BREAK	204604	256693	308782	360871	412960	465049	517138	647361	777583	
			MID	78837	98913	118990	139066	159143	179219	199296	249487	299678	
			END	108218	135788	163358	190929	218499	246069	273639	342564	411489	
UPD6/S-*/210/D1	174	174	BREAK	159145	199518	239891	280263	320636	361009	401382	502313	603245	704177
			MID	98462	123444	148427	173410	198393	223375	248358	310815	377272	435729
			END	171728	215310	258893	302475	346058	389640	433223	542179	651135	760092
UPD6/A-*/210/D1	125	174	BREAK	249862	313253	376643	440034	503424	566815	630205	788682		
			MID	96558	121065	145571	170078	194585	219092	243598	304865		
			END	132539	166187	199835	233483	267130	300778	334426	418546		
UPD6/S-*/230/D1	155	174	BREAK	190979	239248	287517	335786	384055	432324	480593	601266	721938	
			MID	118415	148353	178290	208228	238166	268104	298041	372886	447730	
			END	206526	258737	310948	363159	415370	467581	519792	650320	780848	
UPD6/A-*/230/D1	75	174	BREAK	299856	375658	451461	527263						
			MID	116339	145105	173871	202638						
			END	159410	199710	240009	280308						

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Actuator Model	MOP [psig]	MAWP [psig]	Stroke Position	Operating Pressure (psig)									
				40	50	60	70	80	90	100	125	150	175
				Ouput Torque [Lbf.in]									
UPD6/S-*/250/D1	125	174	BREAK	225847	282720	339593	396467	453340	510213	567086	709270		
			MID	140258	175590	210922	246255	281587	316919	352251	440582		
			END	244638	306246	367855	429464	491072	552681	614290	768311		
UPD6/A-*/250/D1	90	174	BREAK	354610	443911	533212	622512	711813	801114				
			MID	137564	172200	206837	241473	276110	310747				
			END	188829	236390	283951	331512	379073	426635				
UPD6/S-*/270/D1	105	174	BREAK	262812	328997	395783	461368	527553	593739	659924			
			MID	163345	204487	245628	286770	327911	369053	410194			
			END	285038	356838	428637	500437	572236	644035	715835			
UPD6/A-*/270/D1	80	174	BREAK	412647	516557	620466	724376	828286					
			MID	159661	201791	243921	286051	328182					
			END	220015	275424	330822	386241	441650					
UPD6/S-*/290/D1	105	174	BREAK	302577	378770	454964	531157	607350	683543	759736			
			MID	188070	235423	282777	300131	377484	424838	472192			
			END	328514	411249	493983	576718	659453	7421888	824922			
UPD6/A-*/290/D1	60	174	BREAK	475087	594728	714370							
			MID	184732	231231	277731							
			END	253563	317430	381296							
UPD6/S-*/310/D1	90	174	BREAK	345148	432056	518965	605874	692783	779691				
			MID	214530	268547	322564	376582	430599	484617				
			END	375047	469486	563925	658364	752803	847242				
UPD6/A-*/310/D1	60	174	BREAK	541929	678401	814872							
			MID	210886	263988	317090							
			END	289485	362383	435281							
UPD6/S-*/330/D1	80	174	BREAK	390518	488838	587158	685478	783798					
			MID	242729	303850	364970	426091	487211					
			END	418583	531145	643708	756271	868834					
UPD6/A-*/330/D1	55	174	BREAK	613166	767565								
			MID	238753	298897								
			END	327759	410299								
UPD6/S-*/370/D1	90	174	BREAK	489631	612946	736261	859576	982891	1106205	1229520			
			MID	304344	380976	457609	534241	610874	687506	764138			
			END	532995	667209	801423	935656	1069850	1204063	1338277			
UPD6/A-*/370/D1	60	174	BREAK	768832	962421	1156010							
			MID	301690	377663	453637							
			END	411391	514996	618600							

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				40	50	60	70	80	90	100	125	150	175
				Ouput Torque [Lbf.in]									
UPD7/S-*/290/D1	174	174	BREAK	394850	494269	593687	693105	792524	891942	991360	1239906	1488452	1736998
			MID	244833	306515	368197	429879	491561	553243	614925	769129	923334	1077539
			END	427053	534600	642147	749693	857240	964786	1072333	1341200	1610066	1878933
UPD7/A-*/290/D1	130	174	BREAK	619952	776072	932193	1088314	1244435	1400555	1556676	1946978		
			MID	242410	303432	364455	425478	486501	547524	608547	761104		
			END	329654	412670	495685	578701	661716	744732	827747	1035286		
UPD7/S-*/310/D1	174	174	BREAK	450384	563801	677218	790635	904052	1017470	1130887	1414429	1697972	1981514
			MID	279672	350093	420513	490933	561354	631774	702194	878245	1054296	1230347
			END	487771	610610	733449	856288	979127	1101966	1224805	1531902	1839000	2146097
UPD7/A-*/310/D1	110	174	BREAK	707174	885251	1063327	1241404	1419481	1597558	1775635			
			MID	276490	346142	415792	485445	555096	624748	694399			
			END	376041	470724	565407	660090	754773	849456	944139			
UPD7/S-*/330/D1	155	174	BREAK	509593	637912	766231	894550	1022868	1151187	1279506	1600303	1921100	
			MID	316726	396483	476240	555997	635753	715510	795267	994659	1194051	
			END	552483	691615	830747	969879	1109011	1248144	1387276	1735106	2082936	
UPD7/A-*/330/D1	105	174	BREAK	799034	1003704	1208375	1413045	1617716	1822386	2027057			
			MID	312825	391618	470411	549203	627996	706789	785581			
			END	425451	532595	639739	746883	854027	96117	1068314			
UPD7/S-*/370/D1	125	174	BREAK	638934	799851	960768	1121685	1282602	1443519	1604437	2006730		
			MID	397123	497151	597180	697209	797237	897266	997295	1247366		
			END	694070	868278	1042486	1216694	1390902	1565110	1739318	2174838		
UPD7/A-*/370/D1	80	174	BREAK	1003245	1255879	1508514	1761148	2013783					
			MID	392250	491033	589817	688601	787385					
			END	533466	667802	802137	936473	1070808					
UPD7/S-*/371/D1	105	174	BREAK	709109	887674	1066239	1244804	1423369	1601934	1780499			
			MID	440749	551738	662726	773714	884702	995691	1106679			
			END	770581	964634	1158686	1352739	1546791	1740844	1934897			
UPD7/A-*/371/D1	75	174	BREAK	1101310	1378646	1655983	1933319						
			MID	430590	539028	647466	755903						
			END	585588	733080	880572	1028064						
UPD7/S-*/372/D1	105	174	BREAK	805780	1008705	1211631	1414556		1820406	2023332			
			MID	498295	631667	765038	898410		1165153	1298524			
			END	876270	1096904	1317538	1538172		1979441	2200075			
UPD7/A-*/372/D1	60	174	BREAK	1265188	1583836	1902485							
			MID	500806	626928	753050							
			END	681082	852605	1024128							

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				Output Torque [Lbf.in]										
UPD7/S-*/373/D1	80	174	BREAK	966586	1209994	1453402	1696810	1940217						
			MID	600770	752082	903395	1054707	1206019						
			END	1051993	1316930	1581867	1846804	2111740						
UPD7/A-*/373/D1	55	174	BREAK	1518970	1897483	2275995	2654508	3033020	3411532					
			MID	593389	742810	892230	1041651	1191071	1340492					
			END	807005	1010223	1213441	1416659	1619878	1823096					

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