

Data sheet

Sheet No.: HHI 1.01 RevB

Date: August 2010

HD-Series

Torque Ratings – (Hydraulic)

All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

HD-Series

Actuator Model	See Bettis' Definitions	Operating Pressure (PSIG)									
		500	750	1000	1200	1400	1500	1800	2000	2500	3000
		Pressure Torque Output Start/Min./End (lb-in)									
H251.5	Start/End		5068	6757	8108	9459	10135	12162	13514	16892	20270
	Minimum		2962	3949	4739	5528	5923	7108	7898	9872	11846
H352.1	Start/End	9200	13799	18399	22079	25759	27599	33118	36798	45998	55197
	Minimum	5376	8065	10753	12903	15054	16129	19355	21506	26882	32258

Spring-Return Actuators

HD-Series

Actuator Model	Spring Torque Start/Min./End (lb-in)	Operating Pressure (PSIG)										
		500	750	1000	1200	1400	1500	1800	2000	2500	3000	
		Pressure Torque Output Start/Min./End (lb-in)										
H251.5-SR540	Start	1578	2269	3936	5604	6937	8271	8938	10939	12273	15607	18942
	Min.	737	1131	2124	3114	3904	4695	5090	6276	7066	9041	11016
	End	964	1591	3258	4925	6259	7593	8260	10261	11594	14929	18263
H251.5-SR560	Start	2372		3398	5065	6399	7733	8400	10400	11734	15069	18403
	Min.	1109		1693	2687	3480	4271	4667	5853	6644	8620	10595
	End	1451		2380	4048	5381	6715	7382	9383	10717	14051	17386
H251.5-SR580	Start	3072		2923	4590	5924	7258	7925	9925	11259	14594	17928
	Min.	1437		1301	2307	3102	3896	4292	5479	6271	8247	10224
	End	1881		1606	3274	4607	5941	6608	8609	9943	13277	16612
H251.5-SR5100	Start	3837			4083	5417	6751	7418	9419	10752	14087	17421
	Min.	1791			1885	2688	3485	3882	5072	5864	7843	9819
	End	2339			2428	3761	5095	5762	7763	9097	12431	15766
H251.5-SR5125	Start	4863			3409	4743	6077	6744	8744	10078	13413	16747
	Min.	2264			1276	2119	2928	3328	4524	5318	7300	9279
	End	2949			1294	2628	3962	4629	6630	7963	11298	14632
H251.5-SR5150	Start	5827				4077	5410	6077	8078	9412	12746	16081
	Min.	2719				1534	2379	2787	3993	4791	6778	8759
	End	3552				1563	2897	3564	5564	6898	10233	13567
H251.5-SR780	Start	6095						5443	7444	8778	12112	15447
	Min.	2850						2253	3482	4286	6280	8264
	End	3732						2555	4556	5890	9224	12559
Actuator Model	Spring Torque Start/Min./End (lb-in)	Pressure Torque Output Start/Min./End (lb-in)										
		500	750	1000	1200	1400	1500	1800	2000	2500	3000	
		Operating Pressure (PSIG)										



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EMERSON
Process Management

Data sheet

Sheet No.: HHI 1.02 RevB

Date: August 2010

HD-Series

Torque Ratings – (Hydraulic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators

HD-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (lb-in)		Operating Pressure (PSIG)										
			500	750	1000	1200	1400	1500	1800	2000	2500	3000	
			Pressure Torque Output Start/Min./End (lb-in)										
H251.5-SR7100	Start	7638								6285	7619	10953	14288
	Min.	3572								2484	3323	5345	7340
	End	4678								2671	4005	7340	10674
H251.5-SR7125	Start	9470										9593	12928
	Min.	4427										4204	6229
	End	5795										5098	8432
H251.5-SR7150	Start	11221											11727
	Min.	5214											5162
	End	6775											6293
H352.1-SR740	Start	8902		8197	12737	16369	20001	21817	27265	30897	39978	49058	
	Min.	3786		2739	5770	7965	10140	11224	14468	16626	22015	27399	
	End	4437		2739	7279	10912	14544	16360	21808	25440	34520	43600	
H352.1-SR760	Start	13380				13638	17270	19086	24534	28166	37246	46326	
	Min.	5692				5226	7524	8638	11931	14108	19524	24923	
	End	6672				5438	9070	10886	16334	19966	29046	38126	
H352.1-SR780	Start	17826						16349	21797	25429	34510	43590	
	Min.	7592						5452	9285	11518	17000	22427	
	End	8911						5453	10901	14533	23613	32693	
H352.1-SR7100	Start	22314							19055	22687	31767	40847	
	Min.	9504							5415	8695	14379	19868	
	End	11155							5417	9049	18129	27210	
H352.1-SR7125	Start	27882									28455	37535	
	Min.	11847									10893	16614	
	End	13865									11322	20402	
Actuator Model	Spring Torque Start/Min./End (lb-in)		Pressure Torque Output Start/Min./End (lb-in)										
			500	750	1000	1200	1400	1500	1800	2000	2500	3000	
			Operating Pressure (PSIG)										



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