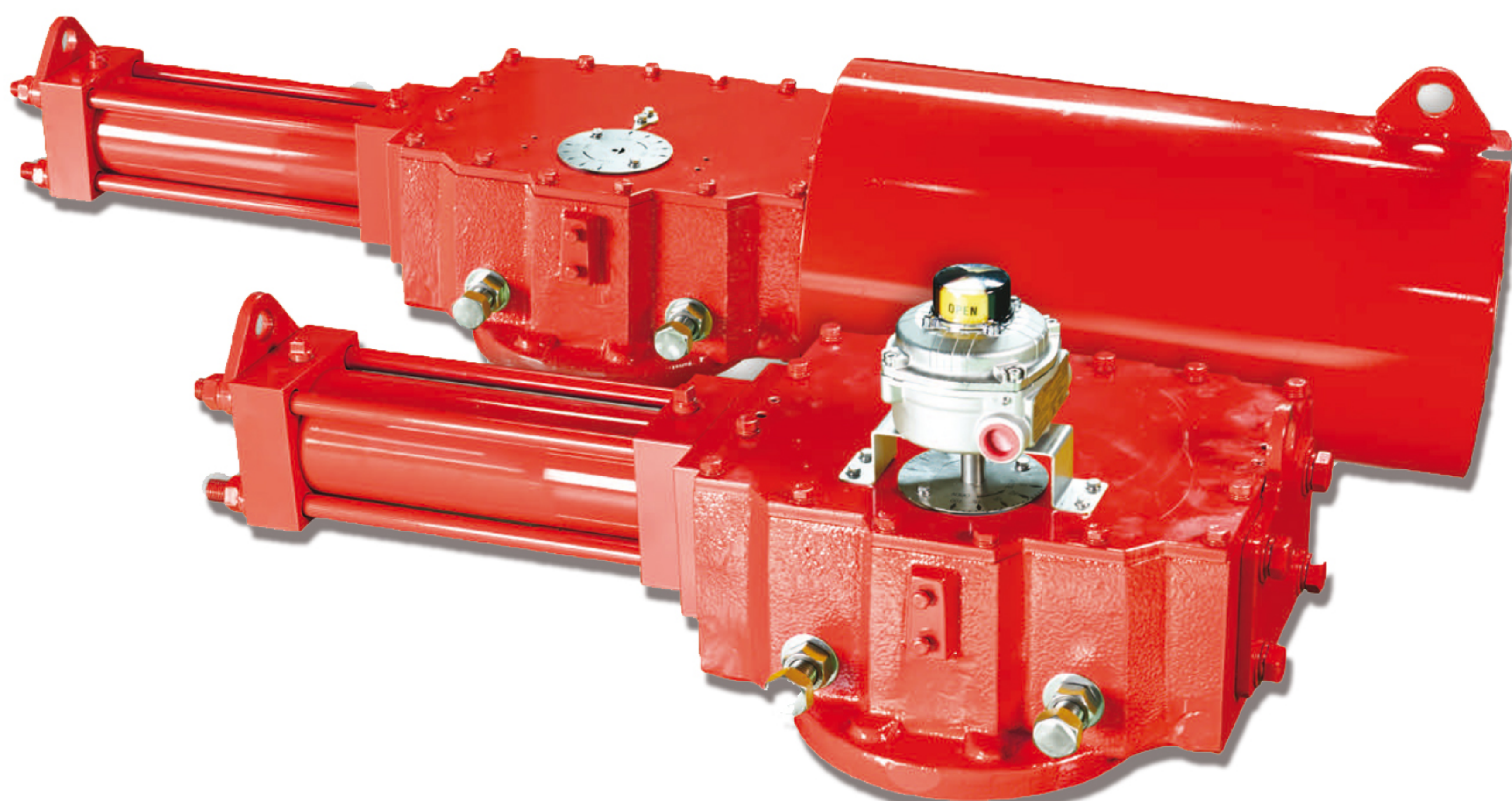

TECHNICAL DATA FOR HYDRAULIC ACTUATOR

HEAVY DUTY ACTUATOR SIZING TABLE



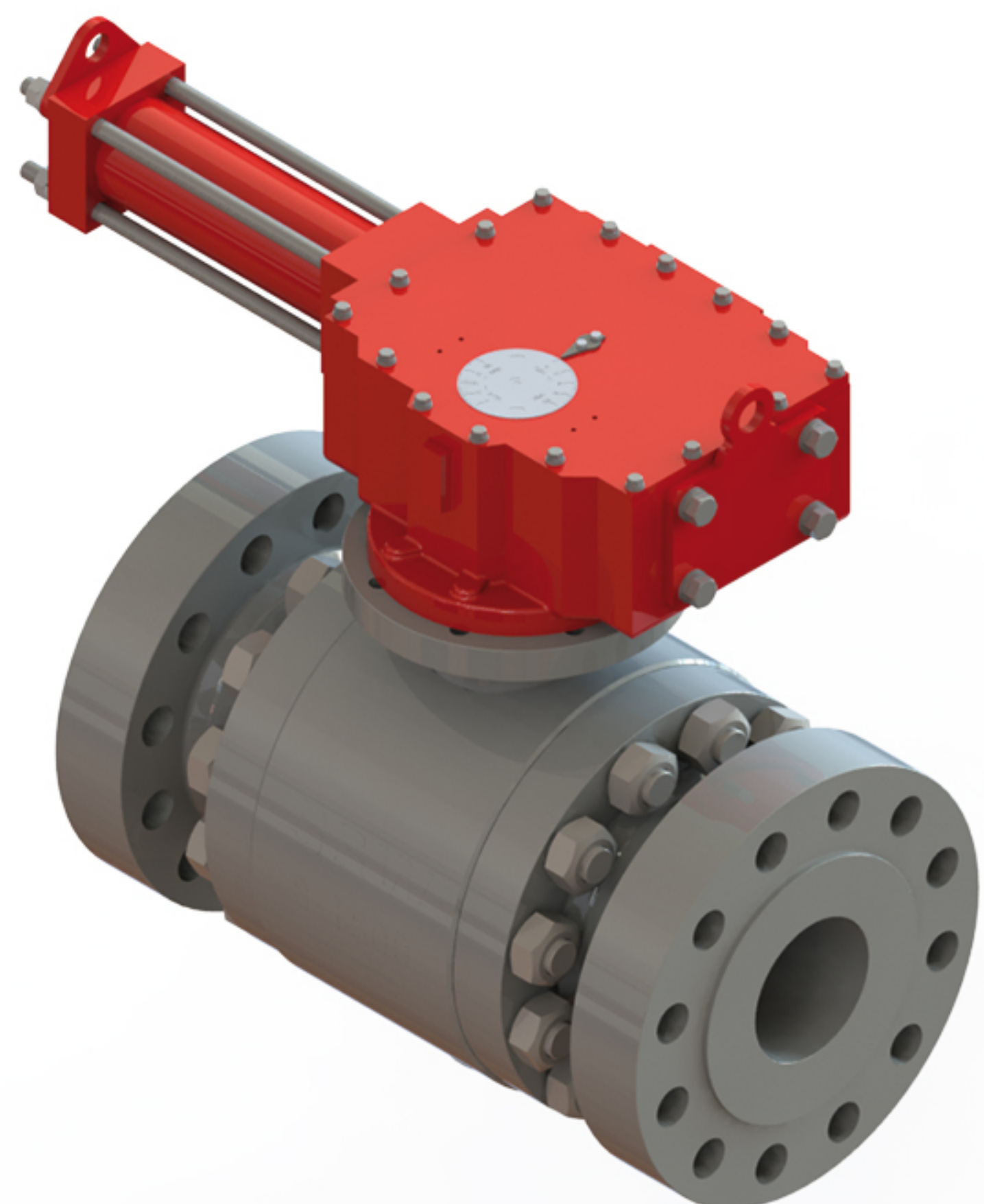
S&W IND

1. DOUBLE ACTING TORQUE TABLE(60 / 80 / 100 Bar.g)

2. SPRING RETURN TORQUE TABLE(60Bar.g)

3. SPRING RETURN TORQUE TABLE(80Bar.g)

4. SPRING RETURN TORQUE TABLE(100Bar.g)



DOUBLE ACTING TORQUE TABLE(60 / 80 / 100 Bar.g)



(Nm)

MODEL	60 Bar.g OIL TORQUE			80 Bar.g OIL TORQUE			100 Bar.g OIL TORQUE		
	BRAKE	RUN	END	BRAKE	RUN	END	BRAKE	RUN	END
SWHR 08DA 60	1,555	918	1,512	2,074	1,224	2,016	2,592	1,530	2,520
SWHR 08DA 70	2,304	1,360	2,240	3,073	1,814	2,987	3,841	2,267	3,734
SWHR 08DA 80	3,169	1,870	3,081	4,225	2,494	4,107	5,281	3,117	5,134
SWHR 10DA 90	4,405	2,600	4,283	5,874	3,467	5,711	7,342	4,334	7,138
SWHR 10DA 100	5,693	3,361	5,535	7,591	4,481	7,380	9,489	5,601	9,225
SWHR 10DA 110	7,117	4,201	6,919	9,489	5,601	9,225	11,861	7,001	11,531
SWHR 13DA 120	10,485	6,189	10,194	13,980	8,252	13,592	17,475	10,315	16,990
SWHR 13DA 130	12,688	7,489	12,335	16,917	9,986	16,447	21,146	12,482	20,559
SWHR 13DA 140	15,067	8,894	14,648	20,089	11,858	19,531	25,111	14,823	24,414
SWHR 16DA 150	21,119	12,466	20,532	28,159	16,622	27,377	35,198	20,777	34,221
SWHR 16DA 160	24,481	14,451	23,801	32,641	19,267	31,734	40,801	24,084	39,668
SWHR 16DA 170	28,059	16,563	27,280	37,413	22,084	36,373	46,766	27,605	45,467
SWHR 20DA 170	33,448	19,744	32,518	44,597	26,325	43,358	55,746	32,906	54,197
SWHR 20DA 180	38,192	22,544	37,131	50,923	30,059	49,508	63,653	37,573	61,885
SWHR 20DA 200	48,494	28,625	47,147	64,659	38,167	62,862	80,823	47,709	78,578
SWHR 20DA 250	78,993	46,628	76,799	105,324	62,171	102,399	131,655	77,714	127,998

MODEL	60 Bar.g					
	SPRING TORQUE			OIL TORQUE		
	BRAKE	RUN	END	BRAKE	RUN	END
SWHR 08SR 60	938	454	574	981	464	575
SWHR 08SR 70	1,384	670	847	1,457	690	856
SWHR 08SR 80	1,910	925	1,170	1,999	945	1,170
SWHR 10SR 90	2,645	1,285	1,632	2,773	1,316	1,638
SWHR 10SR 100	3,418	1,660	2,109	3,584	1,700	2,117
SWHR 10SR 110	4,287	2,082	2,646	4,471	2,118	2,631
SWHR 13SR 120	6,441	3,063	3,754	6,731	3,126	3,753
SWHR 13SR 130	7,823	3,721	4,560	8,128	3,769	4,512
SWHR 13SR 140	9,288	4,417	5,414	9,653	4,476	5,360
SWHR 16SR 150	13,113	6,192	7,493	13,626	6,274	7,419
SWHR 16SR 160	15,113	7,137	8,636	15,845	7,314	8,688
SWHR 16SR 170	17,320	8,179	9,897	18,162	8,384	9,960
SWHR 20SR 170	21,028	9,798	11,569	21,879	9,946	11,491
SWHR 20SR 180	24,007	11,186	13,208	24,984	11,358	13,124
SWHR 20SR 200	30,521	14,221	16,791	31,703	14,404	16,626
SWHR 20SR 250	49,639	23,130	27,310	51,683	23,499	27,160

MODEL	80 Bar.g					
	SPRING TORQUE			OIL TORQUE		
	BRAKE	RUN	END	BRAKE	RUN	END
SWHR 08SR 60	1,253	607	767	1,307	617	763
SWHR 08SR 70	1,801	872	1,103	1,970	941	1,186
SWHR 08SR 80	2,552	1,236	1,562	2,662	1,258	1,555
SWHR 10SR 90	3,543	1,721	2,187	3,687	1,746	2,168
SWHR 10SR 100	4,563	2,217	2,816	4,775	2,264	2,817
SWHR 10SR 110	5,705	2,771	3,521	5,968	2,830	3,520
SWHR 13SR 120	8,564	4,073	4,991	8,988	4,179	5,028
SWHR 13SR 130	10,371	4,932	6,045	10,872	5,053	6,076
SWHR 13SR 140	12,328	5,863	7,186	12,903	5,995	7,203
SWHR 16SR 150	17,416	8,224	9,952	18,207	8,397	9,961
SWHR 16SR 160	20,229	9,552	11,559	21,082	9,715	11,506
SWHR 16SR 170	23,141	10,928	13,224	24,189	11,156	13,232
SWHR 20SR 170	27,970	13,033	15,388	29,209	13,292	15,388
SWHR 20SR 180	31,965	14,894	17,586	33,336	15,165	17,543
SWHR 20SR 200	40,627	18,930	22,352	42,307	19,237	22,235
SWHR 20SR 250	66,123	30,810	36,379	68,946	31,361	36,275

MODEL	100 Bar.g					
	SPRING TORQUE			OIL TORQUE		
	BRAKE	RUN	END	BRAKE	RUN	END
SWHR 08SR 60	1,557	754	953	1,639	776	964
SWHR 08SR 70	2,318	1,123	1,419	2,421	1,144	1,416
SWHR 08SR 80	3,191	1,545	1,954	3,327	1,572	1,943
SWHR 10SR 90	4,417	2,145	2,726	4,616	2,189	2,721
SWHR 10SR 100	5,708	2,772	3,522	5,966	2,829	3,518
SWHR 10SR 110	7,131	3,464	4,401	7,460	3,537	4,400
SWHR 13SR 120	10,739	5,108	6,259	11,216	5,208	6,250
SWHR 13SR 130	12,996	6,181	7,575	13,572	6,302	7,563
SWHR 13SR 140	15,423	7,335	8,989	16,122	7,487	8,991
SWHR 16SR 150	21,821	10,304	12,469	22,729	10,473	12,400
SWHR 16SR 160	25,253	11,925	14,430	26,371	12,159	14,415
SWHR 16SR 170	28,979	13,685	16,559	30,206	13,920	16,488
SWHR 20SR 170	34,971	16,295	19,240	36,506	16,611	19,227
SWHR 20SR 180	39,933	18,607	21,970	41,684	18,967	21,952
SWHR 20SR 200	50,707	23,627	27,897	52,926	24,081	27,871
SWHR 20SR 250	82,626	38,500	45,458	86,197	39,214	45,372

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