

HR (High Retention)

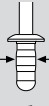
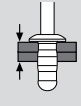
Domed Head

Carbon Steel

Mandrel: Carbon Steel



- Excellent pull-up capability
- Excellent mandrel head retention
- Increased blind side expansion

 <i>d</i> mm	 <i>l</i> mm	 <i>g</i> mm	DESCRIPTION	 <i>d_h</i> mm	 <i>d_k</i> mm	 <i>k</i> mm	 <i>d_m</i> mm	 <i>S</i> N	 <i>T</i> N	BULK PACK		SMALL PACK		 kg
										ARTICLE	BOX QTY	ARTICLE	BOX QTY	
3.2 3.15 - 3.37	8.0	1.6 - 3.2	SD42HR	3.4 - 3.6	6.10 - 6.70	1.30	2.20	1,450	1,700	75250	1,000			1.70
	9.6	3.2 - 4.8	SD43HR							89686	1,000			1.75
	11.2	4.8 - 6.4	SD44HR							89687	1,000			1.80
4.0 3.95 - 4.17	9.0	1.6 - 3.2	SD52HR	4.2 - 4.4	7.70 - 8.30	1.70	2.80	2,000	2,600	89688	1,000			2.80
	10.6	3.2 - 4.8	SD53HR							78501	1,000			3.00
	12.2	4.8 - 6.4	SD54HR							89689	1,000			3.20
4.8 4.75 - 4.97	9.2	1.6 - 3.2	SD62HR	5.0 - 5.4	9.20 - 10.00	2.10	3.40	3,100	3,400	89690	1,000			4.30
	10.8	3.2 - 4.8	SD63HR							89691	1,000			4.60
	12.4	4.8 - 6.4	SD64HR							89692	1,000			4.90
	14.0	6.4 - 8.0	SD65HR							89693	500			5.32
6.4 6.35 - 6.57	11.3	1.2 - 4.8	SD83HR	6.6 - 7.0	12.50 - 13.50	2.70	4.60	3,900	5,350	89694	1,000			10.10
	14.5	4.8 - 8.0	SD85HR							89695	500			10.90

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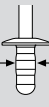
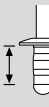
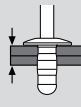
Large Flange

Carbon Steel

Mandrel: Carbon Steel



- Excellent pull-up capability
- Excellent mandrel head retention
- Increased blind side expansion
- **Large flange increases bearing surface for weaker, thinner materials**
- Suitable for oversized holes or slots under the head

 <i>d</i> mm	 <i>l</i> mm	 <i>g</i> mm	DESCRIPTION	 <i>d_h</i> mm	 <i>d_k</i> mm	 <i>k</i> mm	 <i>d_m</i> mm	 <i>S</i> N	 <i>T</i> N	BULK PACK		SMALL PACK		 kg
										ARTICLE	BOX QTY	ARTICLE	BOX QTY	
4.8 4.75 - 4.97	9.2	1.6 - 3.2	SD62HRLF	5.0 - 5.4	15.40 - 16.40	2.20	3.40	3,100	3,400	89696	500			5.60
	10.8	3.2 - 4.8	SD63HRLF							89697	500			5.90
	12.4	4.8 - 6.4	SD64HRLF							89698	500			6.20
	14.0	6.4 - 8.0	SD65HRLF							89699	500			6.50
6.4 6.35 - 6.57	11.3	1.2 - 4.8	SD83HRLF	6.6 - 7.0	15.50 - 16.50	3.20	4.60	3,900	5,350	89700	1,000			11.10
	19.2	4.8 - 8.0	SD85HRLF							89701	1,000			11.90

d=Nominal Diameter, Min - Max Diameter; *l*=Body Length (+/- 0.5mm); *g*=Grip Range (Min - Max); *d_h*=Hole Size (Min - Max); *d_k*=Flange Diameter (Min - Max); *k*=Flange Thickness (Max); *d_m*=Nominal Mandrel Diameter; *S*=Nominal Shear Strength; *T*=Nominal Tensile Strength