

油壓缸 Hyd.Cylinder

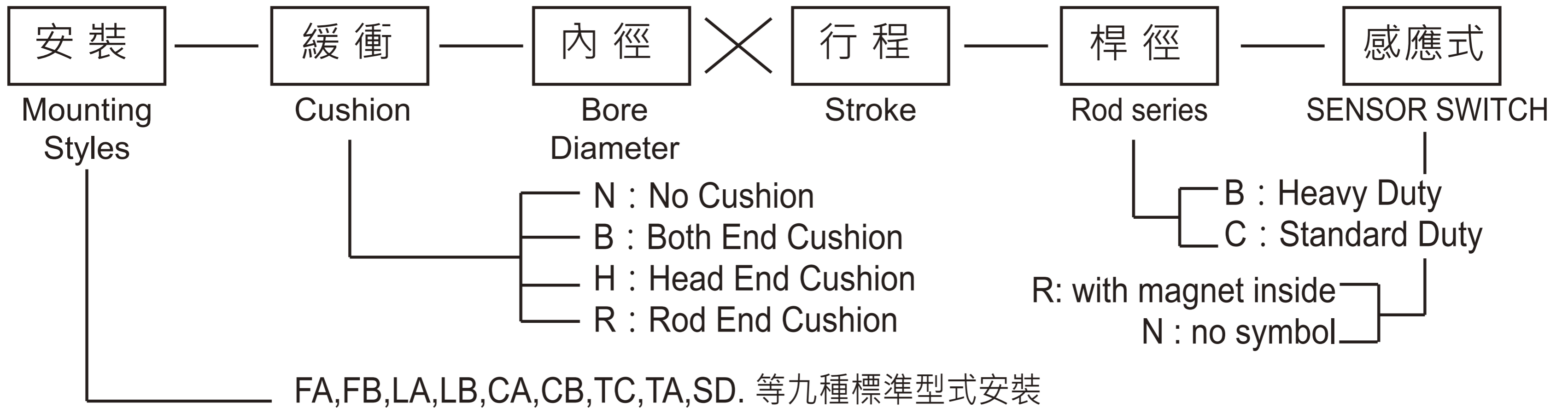
常用計算式

General Calculating Formula

$F = P \times A$	F : 理論出力/Theoretical Output(kgf/cm ²)	P : 動作壓力/Action Pressure(kgf/cm ²)
$Q = A \times V$	Q : 幫浦流量/Pump Delivery(l/min)	A : 受壓面積/Under Press Area(cm ²)
$HP = P \times Q$	V : 活動速度/Piston Speed(cm/min)	D : 缸管內徑/Dia.of Cylinder Bore(mm)
450	HP : 馬達馬力/Motor Power(HP)	n : 油壓泵效率/Eff.of Hyd.Pump
$t = P \times D$	t : 缸管內厚/Cylinder Bore Thickenss(mm)	S : 抗張強度/Tension-Resistant Strength(kgf/cm ²)
2000S	S : /5	

型式表示法

The Illustration For Order System



※緩衝方式，標準型為無緩衝，但如油壓缸速度在6-10m/min以上時，請考慮附加緩衝裝置，請於訂購時註明。

※當油壓缸速度要求快速或特慢速時，請特別註明，以便製作時配合之。

※The cushioning style which standard is no cushion but the hyd. cylinder action speed is at 6-10m/min and over.

That must considered install cushion, installation please specified at order.

※During the hyd. cylinder action speed must implied rapid speed or much slow speed and then,specified at order and accompanied with our manufactured.

油壓缸理論出力參照表 Theoretical Output Refer Data

缸徑 Bore dia.	活塞桿 Rod size	使用壓力 Operating Pressure kgf/cm ²																	
		20kg		30kg		50kg		70kg		100kg		120kg		140kg		160kg		210kg	
		in	out	in	out	in	out	in	out	in	out	in	out	in	out	in	out	in	out
Ø40	20	188	252	282	378	470	630	658	882	940	1260	1128	1512	1316	1764	1504	2016	1974	2646
Ø50	25	294	392	441	588	435	980	1029	1372	1470	1960	1764	2352	2058	2744	2352	3136	3087	4116
Ø63	30	482	624	723	936	1205	1560	1687	2184	2410	3120	2890	3744	3374	4368	3856	4992	5061	6552
Ø80	40	754	1006	1131	1509	1885	2515	2633	3521	3770	5030	4524	6030	5278	7042	6032	8248	7917	10563
Ø100	50	1178	1570	1767	2356	2946	3927	4124	5498	5891	7854	7069	9425	8247	11000	9425	12566	12370	16493
Ø125	60	1889	2454	2833	3682	4722	6136	6611	8590	9444	12272	11333	14736	13222	17180	15110	19635	19830	25770
Ø150	70	2764	3534	4147	5301	6911	8835	9675	12369	13822	17670	16586	21204	19351	24738	22115	28272	29026	37107
Ø180	80	4084	5089	6126	7634	10210	12724	14295	17813	20421	25447	24505	30536	28589	35626	32674	40715	42884	53439
Ø200	100	4712	6283	7067	9425	11781	15708	16493	21991	23562	31416	28274	37699	32987	43982	37699	50266	49480	65974
Ø250	140	6739	9018	10108	14726	16847	22544	23586	31562	33694	49088	40433	58906	47172	68723	53910	72141	70757	94685
Ø300	180	9048	14137	13572	21206	22620	35343	31667	49480	45239	70686	54187	84823	63335	98960	72382	113097	95002	118440

例：實際出力計算例

- 1.若使用壓力為50kgf/cm²，而油壓缸內徑為Ø80時，查理論出力參考表，得油壓缸推力為2515kgf/cm²
- 2.但實際出力則為2515×0.8=2012kgf/cm²

For Example : The calculating for practical output

- 1.If the operating pressure is 50kgf/cm² and the bore dia.of hyd.cylinder is Ø80mm we can from the refering data and achieve the output of hyd. cylinder is 2515 kgf/cm².
- 2.But the practical output which is 2515×0.8=2012kgf/cm².