TABLA DE SELECCIÓN DE ACOPLE DE MANGUEA HIDRÁULICA

Style BP
Male BSPP
DIN 3852

PART NUMBER	HOSE I.D.	THREAD	A O.A.L.	B CUT-OFF	C ORIFICE	D HEX	E HEX	F DROP
HY04-04BP	1/4	1/4 - 19	2.40	1.03	.16	13/16		
HY04-06BP	1/4	3/8 - 19	2.54	1.19	.16	7/8		
HY04-08BP	1/4	1/2 - 14	2.64	1.28	.16	1 1/16		
HY05-06BP	5/16	3/8 - 19	2.57	1.28	.20	7/8		
HY06-06BP	3/8	3/8 - 19	2.55	1.19	.27	7/8		
HY06-08BP	3/8	1/2 - 14	2.65	1.28	.27	1 1/16		
HY08-06BP	1/2	3/8 - 19	2.73	1.38	.38	7/8		
HY08-08BP	1/2	1/2 - 14	2.83	1.47	.38	1 1/16		
HY10-10BP	5/8	5/8 - 14	2.98	1.59	.50	1 1/8		
HY10-12BP	5/8	3/4 - 14	2.98	1.59	.50	1 5/16		
HY12-12BP	3/4	3/4 - 14	3.09	1.50	.61	1 5/16		
HY16-16BP	1	1 - 11	3.31	1.69	.81	1 9/16		

Medium Pressure Hose

Working Pressures to 3,000 PSI

D6
Exceeds SAE 100R17

Catalog Number	HOSE SIZE (NOMINAL) I.D. (Inches)	HOSE SIZE (NOMINAL) O.D. (Inches)	PRESSURE Max. Working Pressure (PSI)	PRESSURE Min. Burst Pressure* (PSI)	BEND RADIUS Min. Bend Radius (Inches)	WEIGHT (APPROX.) Per 100 Ft. (pounds)	COUPLING RECOMMENDATIONS PERMANENT Series	PERMANENT Page #	REUSABLE Series	REUSABLE Page #
D604	1/4	.50	3,000	12,000	2.0	12	GB†-HY	132		
D605	5/16	.58	3,000	12,000	2.3	17	HY	132		
D606	3/8	.66	3,000	12,000	2.5	23	GB†-HY	132		
D608	1/2	.80	3,000	12,000	3.5	29	GB†-HY	132		
D610**	5/8	1.00	3,000	12,000	4.0	47	HF-HY	132		
D612**	3/4	1.18	3,000	12,000	4.8	73	HY	132		
D616**	1	1.48	3,000	12,000	6.0	101	HY	132		

Applications: Used in medium pressure hydraulic applications where 3,000 PSI working pressure is required

Temperature Range: -40˚ F to +250˚ F

Tube: Polyester

Reinforcement: One braid of high tensile steel wire
** Two braids of high tensile steel wire

Cover: Neoprene–MSHA approved

TABLA DE SELECCIÓN DE MANGUERE HIDRÁULICA

TABLA DE SELECCIÓN DE ELECTROVÁLVULA

Features of electro-magnetic coil:

Solenoid Classification	Power Source	Voltage (V)	Frequency (Hz)	Inrush Current (A)	Holding Current (A)	Holding Power (W)	Permissible Voltage (%)	Insulation Grade	Coil Insulation Class	Insulation Resistance (M Ω)
AC	A1	110	50	1.6	0.47	23	+10, -15	B	H (108°C)	>50
		120	60	1.5	0.42	24	+10, -15			
	A2	220	50	0.8	0.24	23	+10, -15			
		240	60	0.75	0.21	24	+10, -15			
DC	D1	12	-	-	2.4	29	+10, -15			
	D2	24	-	-	1.16	28	+10, -15			
RF	R1	AC110V, 50/60Hz ↓ DC99V		-	0.33	30	+10, -10			
	R2	AC220V, 50/60 Hz ↓ DC99V		-	0.33	30	+10, -10			

TABLA DE SELECCIÓN DE BOMBA

New!

Sample Applications

- Trash Compactors
- Log Splitters
- Clamping Mechanisms
- Crimping Machinery
- Metal Forming Machinery

Two-Stage Pumps

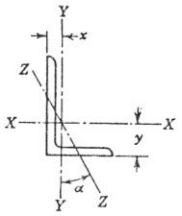
• Compact, two-stage, external gear pumps designed for use at elevated pressures • Ideal for press-type applications requir speeds and slower peak actuator work speeds due to horsepower limitations or safety constraints • Rotation is clockwise v • ½" shafts use 404 woodruff key • ⅝" shafts use ⅜" x 1" straight key • 4,000 RPM max • Maximum pressure 3,000 PSI

CHIEF™ **Two-Stage Pumps**

BAILEY NO.	GPM @ 3500 RPM LO @ 650 PSI	GPM @ 3500 RPM HIGH @ 3000 PSI	RECOMMENDED HP	RECOMMENDED CYL. BORE	PORT SIZE IN	PORT SIZE OUT	OV'ALL LGTH.	MOUNTING FLANGE	SHAFT DIA. X LNG
250-095	4.5	1.0	5	3½"	½" NPT	½" NPT	4.72"	4-bolt	½ x 1½
250-096	6.4	1.0	5	3½"	½" NPT	½" NPT	4.72"	4-bolt	½ x 1½
250-097	8.1	2.7	5	3½"	½" NPT	½" NPT	4.80"	4-bolt	½ x 1½
250-098	10.0	2.7	6	4"	½" NPT	½" NPT	6.54"	4-bolt	½ x 1½
250-092	10.0	2.7	6	4"	1" tube	½" NPT	6.54"	4-bolt	½ x 1½
Take advantage of the above pricing on all orders through 31, Dec. 2009									Regular
250-093	11.8	2.7	7	4"	1" tube	½" NPT	6.91"	4-bolt	½ x 1½
250-094	14.5	3.6	8	4"	1" tube	½" NPT	6.91"	4-bolt	½ x 1½
252-211	19.6	6.5	12	5"	1" NPT	¾" NPT	8.09"	2-bolt A	⅝ x 1½
252-212	26.0	6.5	16	5"	1" NPT	¾" NPT	8.09"	2-bolt A	⅝ x 1½

TABLA PARA SELECCIÓN DE PERFIL DE ESTRUCTURA

TABLA B-5. Propiedades de perfiles L (ángulos) de lados iguales, americanos



Dimensiones (mm)	Masa (aprox.) (kg/m)	Área (mm²)	Eje X–X y eje Y–Y: I (10^6 mm⁴)	$S = \frac{I}{c}$ (10^3 mm³)	$r = \sqrt{I/A}$ (mm)	$\bar{x}$ o $\bar{y}$ (mm)	Eje Z–Z: $r = \sqrt{I/A}$ (mm)
200 × 200 × 30	87.1	11 100	40.3	290	60.3	60.9	39.0
×25	73.6	9 380	34.8	247	60.9	59.2	39.1
×20	59.7	7 600	28.8	202	61.6	57.4	39.3
×16	48.2	6 140	23.7	165	62.1	55.9	39.5
×13	39.5	5 030	19.7	136	62.6	54.8	39.7
×10	30.6	3 900	15.5	106	63.0	53.7	39.9
150 × 150 × 20	44.0	5 600	11.6	110	45.5	44.8	29.3
×16	35.7	4 540	9.63	90.3	46.0	43.4	29.4
×13	29.3	3 730	8.05	74.7	46.4	42.3	29.6
×10	22.8	2 900	6.37	58.6	46.9	41.2	29.8
125 × 125 × 16	29.4	3 740	5.41	61.5	38.0	37.1	24.4
×13	24.2	3 080	4.54	51.1	38.4	36.0	24.5
×10	18.8	2 400	3.62	40.2	38.8	34.9	24.7
×8	15.2	1 940	2.96	32.6	39.1	34.2	24.8
100 × 100 × 16	23.1	2 940	2.65	38.3	30.0	30.8	19.5
×13	19.1	2 430	2.24	31.9	30.4	29.8	19.5
×10	14.9	1 900	1.80	25.2	30.8	28.7	19.7
×8	12.1	1 540	1.48	20.6	31.1	28.0	19.8
×6	9.14	1 160	1.14	15.7	31.3	27.2	19.9
90 × 90 × 13	17.0	2 170	1.60	25.6	27.2	27.2	17.6
×10	13.3	1 700	1.29	20.2	27.6	26.2	17.6
×8	10.8	1 380	1.07	16.5	27.8	25.5	17.7
×6	8.20	1 040	0.826	12.7	28.1	24.7	17.9
75 × 75 × 13	14.0	1 780	0.892	17.3	22.4	23.5	14.6
×10	11.0	1 400	0.725	13.8	22.8	22.4	14.6
×8	8.92	1 140	0.602	11.3	23.0	21.7	14.7
×6	6.78	864	0.469	8.68	23.3	21.0	14.8
×5	5.69	725	0.398	7.32	23.4	20.6	14.9
65 × 65 × 10	9.42	1 200	0.459	10.2	19.6	19.9	12.7
×8	7.66	976	0.383	8.36	19.8	19.2	12.7
×6	5.84	744	0.300	6.44	20.1	18.5	12.8
×5	4.91	625	0.255	5.45	20.2	18.1	12.9
55 × 55 × 10	7.85	1 000	0.268	7.11	16.4	17.4	10.7
×8	6.41	816	0.225	5.87	16.6	16.7	10.7
×6	4.90	624	0.177	4.54	16.9	16.0	10.8
×5	4.12	525	0.152	3.85	17.0	15.6	10.8
×4	3.33	424	0.125	3.13	17.1	15.2	10.9
×3	2.52	321	0.096	2.39	17.3	14.9	11.0
45 × 45 × 8	5.15	656	0.118	3.82	13.4	14.2	8.76
×6	3.96	504	0.094	2.98	13.7	13.4	8.79
×5	3.34	425	0.081	2.53	13.8	13.1	8.82
×4	2.70	344	0.067	2.07	13.9	12.7	8.87
×3	2.05	261	0.052	1.58	14.1	12.4	8.93
35 × 35 × 6	3.01	384	0.042	1.74	10.5	10.9	6.81
×5	2.55	325	0.036	1.49	10.6	10.6	6.83
×4	2.07	264	0.030	1.22	10.7	10.2	6.86
×3	1.58	201	0.024	0.940	10.8	9.86	6.91
25 × 25 × 5	1.77	225	0.012	0.724	7.39	8.06	4.87
×4	1.44	184	0.010	0.599	7.50	7.71	4.87
×3	1.11	141	0.008	0.465	7.63	7.35	4.89

TABLA DE PROPIEDADES FISICAS DE ALGUNOS MATERIALES

TABLA B-1. Propiedades físicas medias de los metales más comunes

METALES	Densidad (kg/m^3)	Coeficiente de dilatación lineal [$\mu m/(m \cdot °C)$]	Límite de proporcionalidad (MPa)[a]		Resistencia última (MPa)			Módulo de elasticidad (GPa)		Elongación %
			Tensión	Cortante	Tensión	Compr.	Cortante	E	G	(en 50 mm)
Acero, 0.2% carbono, laminado en caliente	7 850	Varía de 11.0 a 13.2	240	150	410	*b*	310	200	80	35
0.2% carbono, laminado en frío	7 850		420	250	550	*b*	420	200	80	18
0.6% carbono, laminado en caliente	7 850		420	250	690	*b*	550	200	80	15
0.8% carbono, laminado en caliente	7 850	El valor medio es 11.7	480	290	830	*b*	730	200	80	10
Fundición gris	7 200	10.8	*c*	*d*	140	520	*d*	100	40	Pequeño
Fundición maleable	7 200	11.9	250	160	370	*b*	330	170	90	18
Hierro forjado	7 700	12.1	210	130	350	*b*	240	190	70	35
Aluminio fundido	2 650	23.1	60		90	*b*	70	70	30	20
Aluminio, aleación 17ST	2 700	23.1	220	150	390	*b*	220	71	30	—
Latón, laminado (70% Cu),(30% Zn)	8 500	18.7	170	110	380	*b*	330	100	40	30
Bronce, fundido	8 200	18.0	140		230	390	—	80	35	10
Cobre, estirado	8 800	16.8	260	160	380	*b*	—	120	40	4

NOTAS

a El límite de proporcionalidad y el módulo elástico, a compresión, pueden tomarse los mismos que a tensión, excepto en la fundición o hierro fundido cuyo límite de proporcionalidad es aproximadamente 180 MPa.

b Como resistencia última a compresión en materiales dúctiles puede tomarse el punto de cedencia o fluencia que es ligeramente superior al límite de proporcionalidad a tensión.

c No está bien definido, aproximadamente vale 40 MPa.

d La fundición falla por tensión diagonal.