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Custom Design Reservoirs





HYDRO-CRAFT*, WHERE QUALITY RESERVOIRS ARE THE STANDARD

Hydro-Craft has been the leading manufacturer of hydraulic reservoirs and accessories for over 59 years. Excellent service and high quality have been a part of the Hydro-Craft package from the start, meeting the hydraulic needs of many diverse industries and applications.

Hydro-Craft offers a complete line of standard reservoirs, designed for most popular applications. We are the leader in manufacturing customized reservoirs. Our advanced engineering department has designed thousands of custom reservoirs to customer specifications and our expert manufacturing and production department has produced them all at a cost-effective rate in any quantity. We may already have a nonstandard design on file that will fit your application, or we can modify an existing standard design, saving you time and money. We will work with you to develop the best design for your application and situation.

Our commitment to quality, our on-time performance record, and our experienced staff all contribute to the reputation Hydro-Craft has built. A reputation for excellence that our competitors can't match. We are committed to a continuous process of training for our staff and updating our manufacturing equipment and processes, so that we maintain our reputation for quality products. You can count on that.

Whether you require a standard or customized reservoir, contact Hydro-Craft for a quality product at a reasonable cost.

At Hydro-Craft, quality reservoirs, whether they are stock or custom, are the standard!





"Industry Accepted" Hydraulic Reservoirs

IMPORTANT FEATURES

- Hydro-Craft® Reservoirs meet or exceed all J.I.C. and ASLE Standards
- Scale-free welding process is used
- All Hydro-Craft Reservoirs are carefully fabricated from hot rolled steel plate and sheet, pickled and oiled, which eliminates the need for sand blasting and subsequent residue. Stainless steel also available.
- Fixed baffle properly slotted for correct oil circulation
- Single bolt end caps sized for maximum cleanout opening
- 3/4 NPT drain standard on one end cover
- Hydro-Craft Sight Level Gauge is plated and has extra large sight area with nonbreakable 2X magnifier
- Combination oil level and temperature gauge is standard. Temperature gauge features readings in Centigrade and Fahrenheit.
- Hydro-Craft Filler Breather Assembly is plated and guarded. It has a non-corrosive nylon strainer. Ten times the amount of air flow as comparable units now available.
- Four 2-1/4" diameter lift holes
- "L" Shaped Reservoirs come equipped with a full length piano hinge for opening lid and secure T-handle closure

AVAILABLE OPTIONS:

- Mounting Plates Blank or Drilled & Tapped
- Coupling Guards
- Additional Sight Gauge
- Special duty and high temperature level gauge
- Additional Filler Breather
- Pipe Couplings Whole or Half, SAE or NPT
- Down Lines
- Interior Paint
- Extra Drain
- Drip Pans, Stands, & Overhead Stands
- Lift Rings
- Removable Baffle

NOTE: These are non-pressurized reservoirs





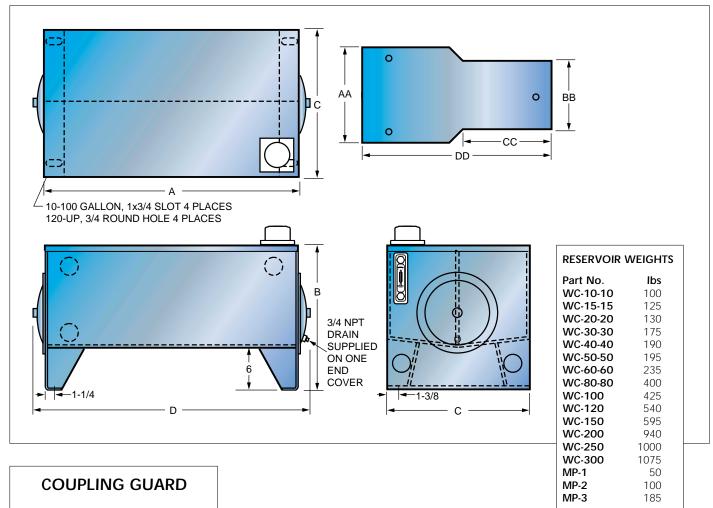


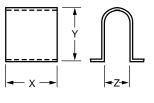
Photos show just a few of the hundreds of standard and custom reservoirs fabricated by Hydro-Craft® each year.





J.I.C. Reservoir Dimensional Data





X, Y and Z dimensions to be supplied by customer

MOUNTING PLATES

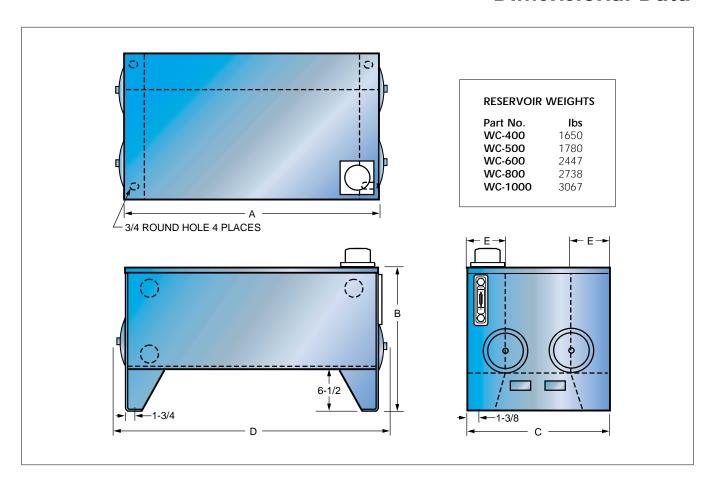
PART NO.	AA	ВВ	СС	DD	THICKNESS	MAX FR	HOLES
MP-1	12.0	7.0	9.50	24.0	3/4	254	3
MP-2	13.0	9.0	11.50	30.0	1	286	3
MP-3	16.0	11.0	15.0	36.0	1-1/4	365	5

J.I.C. RESERVOIR SPECIFICATIONS

PART NO.				WC-30-30	WC-40-40		WC-60-60	WC-80-80	WC-100	WC-120		WC-200	WC-250	WC-300
GALLON	10	15	20	30	40	50	60	80	100	120	150	200	250	300
A (L)	22	26	30	36	36	36	48	60	60	60	60	72	72	72
B (H)	20	20	20	20	22	23	21	21-1/4	24-1/4	25-5/8	30-5/8	29-3/8	32-3/8	36-5/8
C (W)	18	18	18	24	24	24	27	27	27	30	30	36	36	36
D	26	30	34	40-3/4	40-3/4	40-3/4	52-3/4	64-3/4	64-3/4	66	66	78	78	78
END COVER	12	12	12	14	14	14	14	14	14	18	18	18	18	18
ENDS	7 ga.	7 ga.	7 ga.	7 ga.	7 ga.	7 ga.	7 ga.	7 ga.	7 ga.	3/8	3/8	3/8	3/8	3/8
TOP	7 ga.	7 ga.	7 ga.	7 ga.	7 ga.	7 ga.	7 ga.	3/8	3/8	3/8	3/8	3/8	3/8	3/8
SIDES	12 ga.	12 ga.	12 ga.	12 ga.	12 ga.	12 ga.	12 ga.	12 ga.	12 ga.	12 ga.	12 ga.	7 ga.	7 ga.	7 ga.
BOTTOM	12 ga.	12 ga.	12 ga.	12 ga.	12 ga.	12 ga.	12 ga.	12 ga.	12 ga.	12 ga.	12 ga.	7 ga.	7 ga.	7 ga.



Large J.I.C. Reservoir Dimensional Data



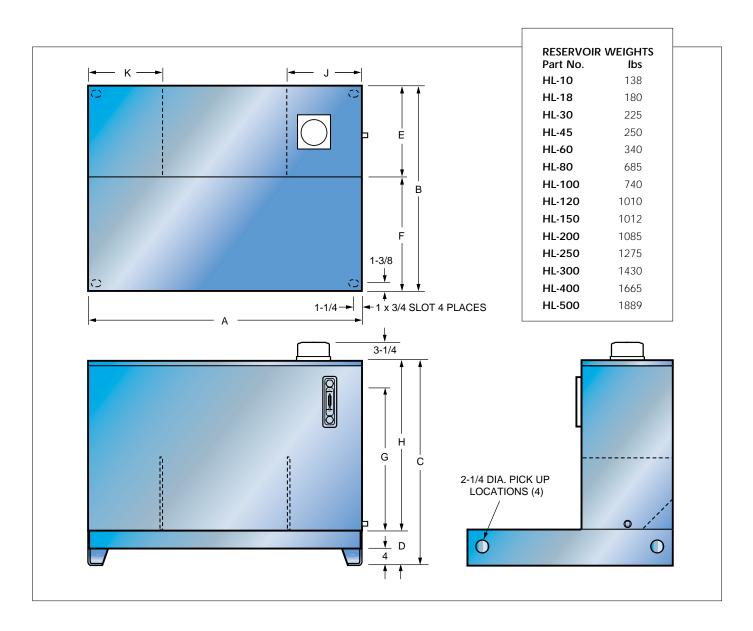
LARGE J.I.C. RESERVOIR SPECIFICATIONS

PART NO.	WC-400	WC-500	WC-600	WC-800	WC-1000
GALLON	400	500	600	800	1000
A (L)	72	72	96	96	96
B (H)	37	43	36	44	53
C (W)	48	48	60	60	60
D	78	78	102	102	102
E	13	13	17	17	17
END COVER	18	18	18	18	18
ENDS	1/2	1/2	1/2	1/2	1/2
TOP	1/2	1/2	1/2	1/2	1/2
SIDES	7 Gauge				
BOTTOM	7 Gauge	7 Gauge	1/4	1/4	1/4





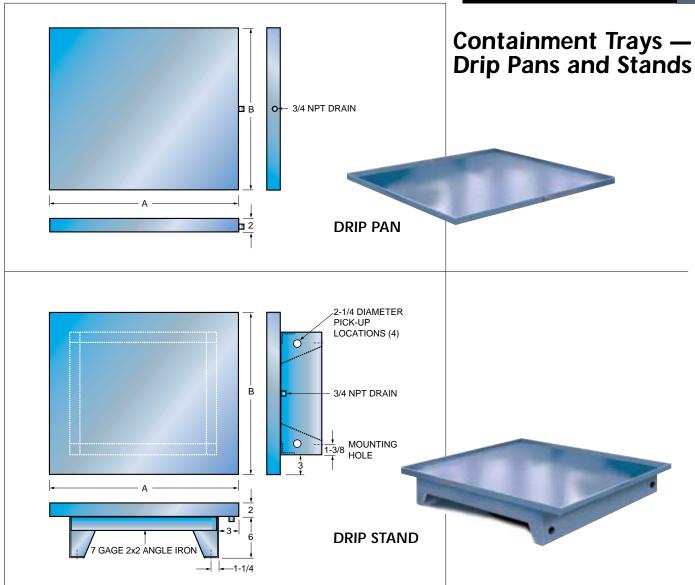
"L" Shaped Reservoir Dimensional Data



"L" SHAPED RESERVOIR SPECIFICATIONS

PART NO.	HL-10	HL-18	HL-30	HL-45	HL-60	HL-80	HL-100	HL-120	HL-150	HL-200	HL-250	HL-300	HL-400	HL-500
GALLON	10	18	30	45	60	80	100	120	150	200	250	300	400	500
A (L)	24	30	36	40	48	66	60	72	72	72	72	72	72	72
B (W)	25	30	30	30	36	36	48	48	48	48	48	48	60	60
C (H)	23	25	30	31	36	36	36	36	36	42	48	54	54	66
D	6-3/16	6-3/16	6-3/16	6-3/16	6-3/16	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2
E	12-1/4	13-1/4	14-1/4	14-1/4	16-1/4	16-1/4	19-1/2	22-1/2	24-1/2	24-1/2	24-1/2	24-1/2	30	30
F	12-3/4	16-3/4	15-3/4	15-3/4	19-3/4	19-3/4	28-1/2	25-1/2	23-1/2	23-1/2	23-1/2	23-1/2	30	30
G	10	12	17	18	23	23	23	23	23	29	35	41	43	54
Н	17	19	24	25	30	30	30	30	30	36	42	48	48	60
J	12	15	18	20	24	22	20	24	24	24	24	24	24	24
K	_	_	_	_	_	22	20	24	24	24	24	24	24	24





DRIP PANS AND STANDS

DRIP PAN	WC-DP-10	WC-DP-15	WC-DP-20	WC-DP-30 WC-DP-40 WC-DP-50	WC-DP-60	WC-DP-80 WC-DP-100	WC-DP-120 WC-DP-150	WC-DP-200 WC-DP-250 WC-DP-300
DRIP STAND	WC-DS-10	WC-DS-15	WC-DS-20	WC-DS-30 WC-DS-40 WC-DS-50	WC-DS-60	WC-DS-80 WC-DS-100	WC-DS-120 WC-DS-150	WC-DS-200 WC-DS-250 WC-DS-300
A (LENGTH) B (WIDTH)	28 24	32 24	36 24	42 30	54 33	66 33	66 36	78 42

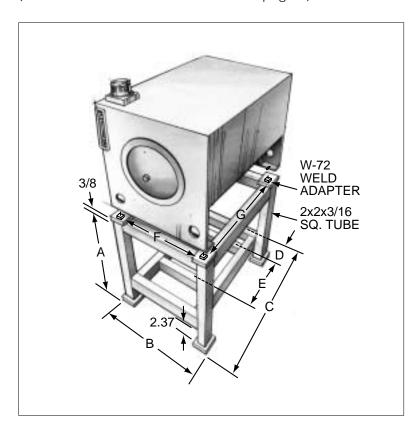
DRIP PAN	HL-DP-10	HL-DP-18	HL-DP-30	HL-DP-45	HL-DP-60	HL-DP-80	HL-DP-100	HL-DP-120 HL-DP-150 HL-DP-200
DRIP STAND	HL-DS-10	HL-DS-18	HL-DS-30	HL-DS-45	HL-DS-60	HL-DS-80	HL-DS-100	HL-DS-120 HL-DS-150 HL-DS-200
A (LENGTH) B (WIDTH)	30 31	36 36	42 36	46 36	54 42	72 42	66 54	78 54







(For dimensions, see A, B, C and D on page 4).



The WCE Series Econoline Reservoir

...Quality Reservoirs at up to 17% less than our Standard Line.

These reservoirs are built with the same quality steel and attention to construction as all Hydro-Craft® reservoirs.

The WCE series reservoir is identical to our WC series with the following exceptions:

WCE-10 thru WCE-50

10 ga. ends and top, end cover on one end only.

WCE-60, WCE-80, WCE-100 7 ga. ends, 10 ga. top, end cover on both ends.

WCS Elevated Reservoir Stands

- Hydraulic reservoir stands for mounting standard J.I.C. type reservoirs over the pump and motor
- Provides a positive feed to the pump
- May be stacked for greater floor space saving. Standard units available for Hydro-Craft J.I.C. type reservoirs from 10 to 300 gallon capacity. Industry proven design
- · Easy reservoir mounting
- Motor/pump mounting plate supports located per your requirements
- Drip pans available
- Custom frameworks available

SPECIFICATIONS

PART NO.	WCS-10	WCS-15	WCS-20	WCS-30	WCS-40	WCS-50	WCS-60	WCS-80	WCS-100	WCS-120	WCS-150	WCS-200
Α	24	24	24	24	24	24	32	32	32	32	32	32
В	18	18	18	24	24	24	27	27	27	30	30	36
С	22	26	30	36	36	36	48	60	60	60	60	72
D					Custon	ner to supp	oly dimens	sions				
Ε						ner to supp						
F	12	12	12	18	18	18	21	21	21	24	24	30
G	16	20	24	30	30	30	42	54	54	54	54	66

hydro-craft

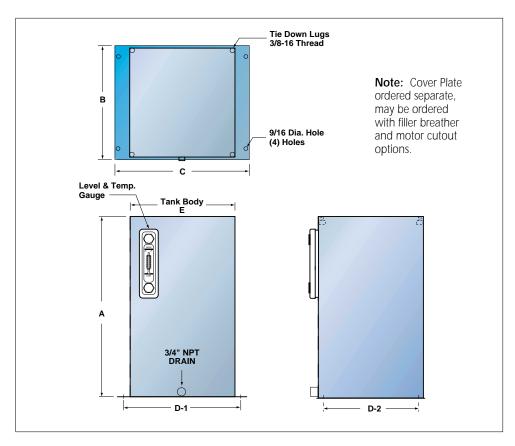




EACH NON-J.I.C. VERTICAL RESERVOIR INCLUDES:

- (1) Oil level with temperature gauge
- (4) Cover mounting bolts
- Buna-N seal for cover plate
- 3/4" NPT drain
- Steel construction with customer's choice of top
- Primer-painted exteriors
- · Reservoir interiors coated with rust-inhibiting oil





SPECIFICATIONS

PART NO.	WEIGHT (lbs.)	А	В	С	D-1	D-2	E
HV-5 (5 gallon)	22	10	12-1/2	14-1/2	13-1/2	10	12
HV-10-A (10 gallon)	38	20	12-1/2	14-1/2	13-1/2	10	12
HV-10-B (10 gallon)	36	12	16-1/2	19	17-1/2	14	16
HV-20 (20 gallon)	64	24	16-1/2	19	17-1/2	14	16
HV-30 (30 gallon)	86	36	16-1/2	19	17-1/2	14	16





Cover Plates FOR VERTICAL RESERVOIRS

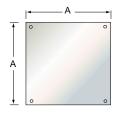
HV-5 and HV-10-A

ORDERING INFORMATION

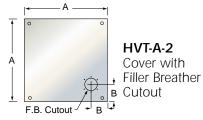
Hydro-Craft® Non-JIC Vertical Reservoirs allow you to choose the cover plate style you need. Reservoir and Cover Plate must be ordered as separate items.

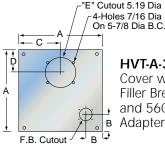
Example: Part number HVT-A-2 is cover with filler breather cutout and fits on reservoirs HV-5 or HV-10-A.

Note: Filler Breathers are included with Cover Plates A-2, A-3, and A-4

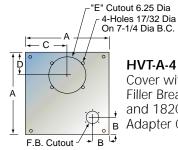


HVT-A-1 Blank Cover





HVT-A-3 Cover with Filler Breather and 56C/145TC **Adapter Cutouts**



HVT-A-4 Cover with Filler Breather and 182C/256TC **Adapter Cutouts**

SPECIFICATIONS

RESEF PAI NO	RT	r stani A (SQ)	DARD DI B	MENSIO C	NS FOR D	VERTICAL TOPS E (ADAPTER CUTOUT)	COVER PART NO.	COVER PLATE WEIGHT (LBS)
HV	-5						HVT-A-1 HVT-A-2	10.75 10.50
HV-1	0.4	12-1/2"	2-1/2"	6-1/4"	5"	56C/145TC	HVT-A-3	9
11V-1	U-A					182C/256TC	HVTA-4	8.25





Cover Plates FOR VERTICAL RESERVOIRS

HV-10-B, HV-20 and HV-30

ORDERING INFORMATION

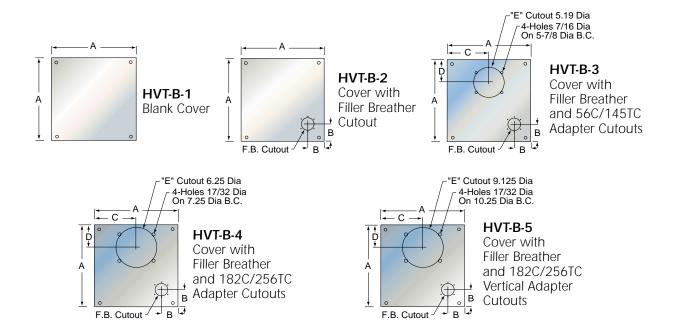
Hydro-Craft® Non-JIC Vertical Reservoirs allow you to choose the cover plate style you need. Reservoir and Cover Plate must be ordered as separate items.

Example: Part number HVT-B-3 is cover with filler breather and

56C/145TC adapter cutouts and fits on reservoirs

HV-10-B, HV-20 or HV-30.

Note: Filler Breathers are included with Cover Plates B-2, B-3, B-4, and B-5



SPECIFICATIONS

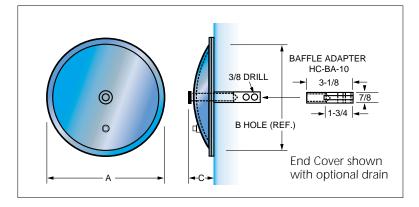
RESERVOIR PART NO.	STAI A (SQ)	NDARD D B	DIMENSI C	ONS FOR D	VERTICAL TOPS E (ADAPTER CUTOUT)	COVER PART NO.	COVER PLATE WEIGHT (LBS)
HV-10-B						HVT-B-1 HVT-B-2	18.75 18.50
HV-20	16-1/2"	2-1/2"	8-1/4"	5"	56C/145TC	HVT-B-3	17
HV-30					182C/256TC	HVT-B-4	16.25
				6-1/4"	182C//256TC VERTICAL	HVT-B-5	13.75



End Covers

Hydro-Craft® end covers for replacement or retrofit are available in 12-, 14-, and 18-inch diameters. Available in steel and stainless steel. Steel end covers are zinc plated for corrosion protection. All end covers are available with optional drain. All have a unique formed on Buna-N lip seal which has excellent resistance to cutting and abrasion, and is compatible with all standard hydraulic fluids. Replacement seals, if required, are readily available.

The end cover is attached to the reservoir by the unique Hydro-Craft baffle adapter. The design of the HC-BA-10 allows it to be attached to the baffle with press pins or standard bolts, assuring a tight, shockproof installation, and eliminating the need for welding and subsequent weld splatter, warping and stressing of the baffle. The Hydro-Craft baffle adapter is also available in 304 stainless steel.



SPECIFICATIONS

PART NO.				MATERIAL	WEIGHT
HC-EC-12	11-7/8	10	1-5/8	7 GA	6-1/4
HC-EC-14	14	12	2	7 GA	8
HC-EC-18	18	16	2-5/8	7 GA	14-1/2
HC-EC-12SS	12	10	1-5/8	12 GA	4
HC-EC-14SS	14-5/8	12	2-1/8	7 GA	9-3/4
HC-EC-18SS	18	16	.2-5/8	.194	8

NOTE: Add E or V to End Cover part number for EP Seal or Viton. Add D at end of part number for drain.

The Buna-N Lip Seal is the standard seal used on end covers.

END COVER REPLACEMENT SEALS

PART NO.	DESCRIPTION	COVER SIZE	
HC-LIP-S-12-E	EP Seal Kit	12	
HC-LIP-S-14-E	EP Seal Kit	14	
HC-LIP-S-18-E	EP Seal Kit	18	
HC-LIP-S-12	Buna-N Lip Seal	12	
HC-LIP-S-14	Buna-N Lip Seal	14	
HC-LIP-S-18	Buna-N Lip Seal	18	
HC-LIP-S-12-V	Viton Lip Seal	12	
HC-LIP-S-14-V	Viton Lip Seal	14	
HC-LIP-S-18-V	Viton Lip Seal	18	

SELF ALIGNING COVER BAR

The Hydro-Craft self aligning cover bar is available for 12- and 14-inch end covers. Installed by placing a bolt through the end cover and turning a few threads into the cover bar, it can then be angled through the reservoir access hole. Allowing the cover bar to rest on the bottom of the reservoir, it will automatically align itself to the proper height to be torqued firmly into place. This durable self aligning cover bar is fabricated from 3/8-inch hot rolled, pickled and oiled steel plate. More than ample torque can be applied to insure a perfect seal on the reservoir end cover.

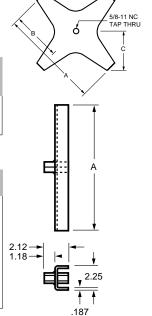
SPECIFICATIONS

PART	END	HOLE	DII	MENSIO	NS
NO.	COVER	HOLE DIA.			
HC-X-BAR-12 HC-X-BAR-14	12 14	10 12	12 14-1/4	6 7-1/8	4-3/8 5-3/8

OPTIONS

PART NO.	DESCRIPTION			
HC-BA-10*	Baffle Adapter			
HC-BA-P*	Baffle Adapter Pin			
HC-EC-CW	Crush Washer			
HC-EC-CB-*	End Cover Bolt			
	DIMENSION A			
HC-C-BAR-12	12			
HC-C-BAR-14	14			
HC-C-BAR-18	18			

*Available in stainless steel





S.A.E. Adapters

3/8 INCH TO 2 INCH

Hydro-Craft[®] S.A.E. Weld Boss Flanges and Weld Couplings are precision manufactured from 12L14 Leadloy steel. They will save time and labor when mounting S.A.E. components. Used as a downline coupling, they eliminate the need for expensive straight-thread downlines...simply attach the S.A.E. component to the topside, and thread an inexpensive pipe nipple to the NPT side in the reservoir. Adapters are shipped unplated but oiled to prevent corrosion.





WELD DOSS I EMALE S.A.E

WE ARE NOW OFFERING: WELD BOSS FLANGES IN BSPP THREADS. ALSO BSPP TO NPT AND BSPP TO BSPP FULL COUPLINGS. PLEASE CONTACT US!



FEMALE S.A.E. TO N.P.T.

PART NO.	FEMALE PIPE	FEMALE S.A.E.	L ±.03	D DIA.	PSI
WCF-6-6	3/8	9/16-18	1.41	7/8	4000
WCF-8-8	1/2	3/4-16	1.72	1-1/8	3000
WCF-12-12	3/4	1-1/16-12	1.98	1-3/8	2500
WCF-16-16	1	1-5/16-12	2.17	1-5/8	2000
WCF-20-20	1-1/4	1-5/8-12	2.25	2-1/8	1150
WCF-24-24	1-1/2	1-7/8-12	2.26	2-1/2	1000
WCF-32-32	2	2-1/2-12	2.41	3	1000

Add "SS" to the end of part number for 316 stainless steel adapters.



FEMALE S.A.E. BOSS

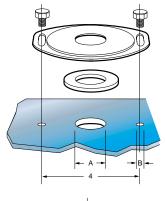
PART NO.	FEMALE S.A.E.	L ±.03	D DIA.	INSTALLATION HOLE SIZE	PSI
WBF-6	9/16-18	.70	.87	.625	5000
WBF-8	3/4-16	.85	1.1	.875	4500
WBF-10	7/8-14	.96	1.375	1.0	3500
WBF-12	1-1/16-12	.96	1.375	1.0	3500
WBF-14	1-3/16-12	1.1	1.6	1.25	3000
WBF-16	1-5/16-12	1.1	1.6	1.375	3000
WBF-20	1-5/8-12	1.1	2.1	1.75	2500
WBF-24	1-7/8-12	1.1	2.5	2.0	2000
WBF-32	2-1/2-12	1.2	3.0	2.5	1500

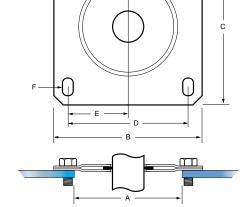
Add "SS" to the end of part number for 316 stainless steel adapters. SAE to SAE or custom adapters are available, contact Hydro-Craft.











Flange Kits

Hydro-Craft® flange kits are available for either tube or pipe, Suction Line or Return Line. The Return Line kit consists of: 2 bolts, 1 rubber gasket, 1 metal flange. The Suction Line kit consists of: 4 bolts, 1 cardboard gasket, 1 rubber gasket, and the top and bottom metal flanges. (Only the top plate is ribbed.)

SPECIFICATIONS-RETURN LINE

PART NO.	TUBE or PIPE SIZE	DIA. A	DIA. B
HA-00-28-8	1/2	1	7/32
HA-00-28-12	3/4	1-1/4	7/32
HA-00-28-16	1	1-1/2	7/32
HA-00-28-20	1-1/4	1-3/4	7/32
HA-00-28-24	1-1/2	2	7/32
HA-00-28-32	2	2-1/2	7/32
NOTE: Add "T" to the	ne end of the part number to	indicate tube kit or "P" t	o indicate pipe kit.

SPECIFICATIONS-SUCTION LINE

PART NO.	TUBE or PIPE SIZE	A	В	С	D	E	F
HA-00-40-6*	3/8	4.00	5.25	5.50	4.250	2.125	.38 x .62
HA-00-40-8	1/2	4.00	5.25	5.50	4.250	2.125	.38 x .62
HA-00-40-10*	5/8	4.00	5.25	5.50	4.250	2.125	.38 x .62
HA-00-40-12	3/4	4.00	5.25	5.50	4.250	2.125	.38 x .62
HA-00-40-16	1	4.00	5.25	5.50	4.250	2.125	.38 x .62
HA-00-40-20	1-1/4	4.00	5.25	5.50	4.250	2.125	.38 x .62
HA-00-40-24	1-1/2	4.00	5.25	5.50	4.250	2.125	.38 x .62
HA-00-40-32	2	4.00	5.25	5.50	4.250	2.125	.38 x .62
HA-00-60-24*	* 1-1/2	6.62	7.50	7.50	6.250	3.125	.44 x .88
HA-00-60-32*	* 2	6.62	7.50	7.50	6.250	3.125	.44 x .88
HA-00-60-40*	* 2-1/2	6.62	7.50	7.50	6.250	3.125	.44 x .88
HA-00-60-48*	* 3	6.62	7.50	7.50	6.250	3.125	.44 x .88
NOTE: Add "T"	to the end of th	e part nu	ımber to ir	ndicate tu	be kit or "P	" to indicate	e pipe kit.

^{*} Available in tube only. **Available in pipe only.

Weld Risers

FILLER BREATHER & RETURN LINE WELD RISERS

Hydro-Craft risers are designed to raise fillers and return line openings 1" above the surface of the tank top. This low-cost riser eliminates costly repairs brought on by contamination being swept into the reservoir. The filler riser fits most Hydro-Craft fillers and filler breathers. The return riser fits all Hydro-Craft return line flange kits.

NOTE: Also available in stainless steel.

4 Bolt Solid Flanges

NPT OR STRAIGHT THREAD (SAE) FOR USE AS CONNECTIONS ON FILTER & PUMP

Hydro-Craft® steel-constructed solid flanges meet or exceed all SAE standards. They are compatible with any SAE pump or valve. They provide extra convenience for servicing — allow for removing pump or filter without disturbing piping.

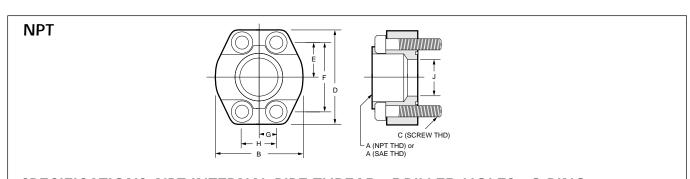
"O" ring and bolt kit included.





SPECIFICATIONS-SAE INTERNAL STRAIGHT THREAD - DRILLED HOLES - O-RING

PART NO.	SAE BOSS DASH NO.						D			G	Н			THREAD UN-2B	PSI
F-SAE-12-12	—12	.75	.75	2.06	2.56	.875	1.875	1.25	.84	.75	1.250	.406	.594	1-1/16-12	5000
F-SAE-16-16	—16	1.00	1.00	2.32	2.75	1.031	2.062	1.38	.97	1.00	1.560	.406	.594	1-5/16-12	5000
F-SAE-20-20	 20	1.25	1.25	2.88	3.12	1.188	2.312	1.50	1.03	1.25	1.75	.469	.688	1-5/8-12	4000
F-SAE-24-24	—24	1.50	1.50	3.25	3.69	1.406	2.75	1.62	1.09	1.50	2.115	.531	.781	1-7/8-12	3000



SPECIFICATIONS-NPT INTERNAL PIPE THREAD - DRILLED HOLES - O-RING

PART NO.				D			G	Н				PSI
HCFT-12-12	3/4	2.06	3/8-16	2.56	.93	1.875	.43	.875	3/4	.53	1.25	5000
HCFT-16-16	1	2.31	3/8-16	2.75	1.03	2.062	.52	1.032	1	.66	1.38	5000
HCFT-20-20	1-1/4	2.88	7/16-14	3.12	1.16	2.312	.59	1.188	1-1/4	.84	1.50	4000
HCFT-24-24	1-1/2	3.25	1/2-13	3.69	1.38	2.75	.70	1.406	1-1/2	.73	1.62	3000
HCFT-32-32	2	3.81	1/2-13	4.00	1.53	3.062	.84	1.688	2	.73	1.62	3000
HCFT-40-40	2-1/2	4.28	1/2-13	4.50	1.75	3.50	1.00	2.00	2.50	.86	2.00	2500
HCFT-48-48	3	5.16	5/8-11	5.31	2.09	4.188	1.22	2.438	3.00	.98	2.25	2500

hydro-craft



Shock Mounts

Α

B C D

G

The Hydro-Craft® Shock Mount is simple in design, engineered for rugged service and long life. They have an inner cylinder attached to the stud, which is insulated from the outer shell by a wall of

mechanically bonded rubber. They have an ample safety margin:

Overloaded to destruction they will allow a drop of less than 1/2".

- Cut down vibration
- Helps subdue shock and noise
- Easy to install
- Inexpensive
- No maintenance required
- Allows precision leveling

				-	G -	-
				/	/	/ /
Part Number	łkc;	3N.31 HC.5	W.35 HC:SN	hcsN	1.35 HC:511	HC.SM.AC
Load Capacity* of Each Mount (lbs)	100	200	300	500	750	1000
Shipping Weight Each	10oz.	1lb. 6oz.	1lb. 14oz.	1lb. 10oz.	9 lb.	9 lb.
Maximum (Average) Deflection						
Under Rated Load (in.)	.0625	.0625	.0625	.0625	.0625	.0625
Height Floor to Top of Lower						
Face (Min. Ht. Above Floor) (in.)	1-3/4	2-1/4	4-3/4	3-1/2	4-3/4	4-3/4
Height Overall, Including Stud (in.)	3	3-3/4	4-3/4	6	8-3/8	8-3/8
Height of Stud above Lower Face (in.)	1-1/8	1-3/8	2	2-1/2	4	4
Diameter of Stud (in.)	3/8	1/2	1/2	1/2	1	1
Diameter of Housing (in.)	1-1/2	1-3/4	2	2-1/8	4-1/2	4-1/2
Bolt Hole Centers (in.)	2-7/16	2-3/4	3	3-1/2	6-1/2	6-1/2
Diameter of Base (in.)	3	3-1/2	4	4-7/16	7-3/4	7-3/4
Flange Height (in.)	11/64	11/64	3/16	3/16	3/8	3/8

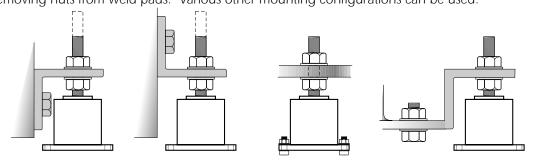
3/8

NOTE: *Each mount is rated at load capacity (Ex.: If 2,000 lbs. are to be supported, use 10 200 lb shock mounts). Determine the mass to be supported and position mounts in a pattern which will best support load in a balanced condition. Bottom shock mount hex nut must be adjusted up from base to properly suspend mass.

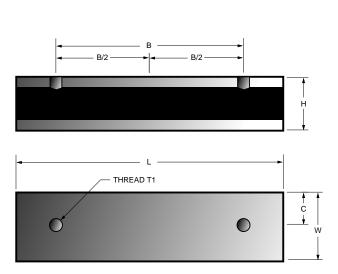
MOUNTING METHODS

Diameter of Bolt Holes in Base (in.)

Place plate through shock mount stud, lock both nuts into proper level position. Weld adapters can be inserted into shock mount base and welded into position. Shock mounts can easily be removed by removing nuts from weld pads. Various other mounting configurations can be used.









Motor Dampening Bars

WELDABLE TYPE

Benefits and Features:

- Reduces both noise levels and vibrations
- Fully machined for NEMA motors
- Vulcanized bonding not bolted together

SPECIFICATIONS

PART NO.			DIMENS	SIONS		
MOTOR SIZE	L	W	Н	В	С	T1
HC-56C-W	4-3/4"	2"	1-9/16"	3"	7/8"	5/16-18NC
HC-143TC-W	5-1/2"	2	1-9/16"	4"	13/16"	5/16-18NC
HC-145TC-W	6-1/2"	2	1-9/16"	5"	13/16"	5/16-18NC
HC-182TC-W	6"	2"	1-9/16"	4-1/2"	15/16"	3/8-16NC
HC-184TC-W	7-3/4"	2"	1-9/16"	5-1/2"	15/16"	3/8-16NC
HC-213TC-W	7-3/4"	2"	1-9/16"	5-1/2"	15/16"	3/8-16NC
HC-215TC-W	9"	2"	1-9/16"	7"	15/16"	3/8-16NC
HC-254TC-W	10-1/2"	2"	1-3/4"	8-1/4"	15/16"	1/2-13NC
HC-256TC-W	12-1/4"	2"	1-3/4"	10"	15/16"	1/2-13NC
HC-284TC-W	12"	2-3/4"	2-3/8"	9-1/2"	1-1/8"	1/2-13NC
HC-286TC-W	13-1/4"	2-3/4"	2-3/8"	11"	1-1/8"	1/2-13NC
HC-324TC-W	12-1/2"	3-3/16"	2-3/8"	10-1/2"	1-9/16"	5/8-11NC
HC-326TC-W	14"	3-3/16"	2-3/8"	12"	1-9/16"	5/8-11NC
HC-364TC-W	13-1/2"	3-3/16"	2-3/8"	11-1/4"	1-9/16"	5/8-11NC
HC-365TC-W	14-1/2"	3-3/16"	2-3/8"	12-1/4"	1-9/16"	5/8-11NC
HC-404TC-W	15-1/2"	4"	2-3/8"	12-1/4"	2"	3/4-10NC
HC-405TC-W	17"	4"	2-3/8"	13-3/4"	2"	3/4-10NC
HC-444TC-W	21"	4-3/4"	2-3/8"	14-1/2"	2-3/8"	3/4-10NC
HC-445TC-W	21"	4-3/4"	2-3/8"	16-1/2"	2-3/8"	3/4-10NC

^{*}Note: Normal mount requires 2 pieces.







SPECIFICATIONS

PART NO.	HEX SIZE	CFM	THREAD SIZE
HCBP-2 HCBP-4	1/2 3/4	2.5 3	1/8 NPT 1/4 NPT
HCBP-6	7/8	3.25	3/8 NPT
HCBP-8 HCBP-12	1 1-1/4	4 6	1/2 NPT 3/4 NPT
HCBP-16	1-1/2	10	1 NPT



SPECIFICATIONS

PART NO.	UN 2A THREAD	HEX SOCKET
HCZLP-6	9/16"-18	.25
HCZLP-8	3/4"-16	.313
HCZLP-12	1-1/16"-12	.563
HCZLP-16	1-5/16"-12	.625
HCZLP-20	1-5/8"-12	.75
HCZLP-24	1-7/8"–12	.75
HCZLP-32	2-1/2"–12	.75

NOTE: For magnet style, add "M" to part number, as follows: HCZLMP-6

Breather Plugs

Hydro-Craft® breather plugs permit free flow of air and provide filtering and oil separation for gear cases which are vented to atmosphere.

Rugged and durable, they are machined from steel bar stock to precise standards and are finished with a zinc-dichromate plating to resist corrosion.

Hydro-Craft breather plugs contain a porous stainless steel disc micro filter and are especially suited to areas with a high occurrence of fine dust particles, providing filtration down to 35 micron. By breathing from the underside, they are not prone to clogging found in top-breathing plugs.

Hydro-Craft[®] breather plugs are available in six different sizes.

Zero-Leak Gold Plugs

Zero-Leak Gold Plugs make affordable zero leak performance a reality. You can replace the standard SAE J514 plugs with the Zero-Leak Gold Plug without engineering or retooling. They're interchangeable and they won't back out. Zero-Leak Gold combines the high integrity of a metal-to-metal seal with an O-ring below the taper as a secondary back-up seal. Plugs are also available in stainless steel.

- Effective in vibration, temperature variation and pressure spike situations
- No chemical sealant required
- Reseal repeatedly without loss of effectiveness
- Regular, magnet and custom styles available
- Interchangeable for standard SAE J514 plugs in SAE J1926 ports

Hydro-Craft® magnetic tank traps and plugs are designed to maintain hydraulic systems by picking up ferrous particles that can clog ordinary filters. They are easily installed, and easily cleaned. The Hydro-Craft® AS series Mag Trap features a wipe-clean aluminum shield, eliminating the need for shop air to clean the ferrous particles from the unit.

The magnetic plug is available in 3/4" NPT.

Valuable pump and component protection is provided by these efficient, easily maintained units.



SPECIFICATIONS

PART NO.	A*
HC-MT-10	10
HC-MT-12	12
HC-MT-16	16
HC-MT-20	20
HC-MT-22	22
HC-MP-12 Drain Plug	

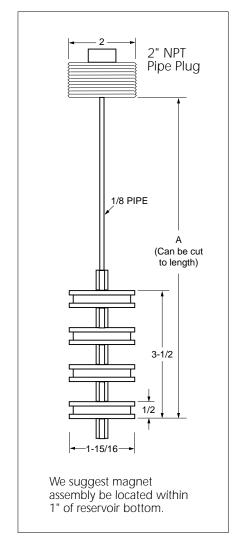
*Can be cut to length

Add "AS" to end of part number when ordering with aluminum shield

Example: HC-MT-22AS



Hydro-Craft® Magnetic Filtration







Plastic Fluid Level Sight Plug - SAE/METRIC/BSP

Has a transparent polyamid lens, for use with solvents, oils with additives, grease, acids, and alkali*.

- Anodized aluminum reflector and central level sight dot
- NBR synthetic rubber packing ring
- Maximum continuous operating temperature is 230°F (110°C)

SPECIFICATIONS - Order By Part Number



PART NUMBER A	В	С	D Inch		
Thread			(MM)		
SAE					
HC-SP-PR- SAE-3/4x16	0.51 (13)	1.02 (26)	0.59 (15)	0.31 (8)	0.86 (22)
HC-SP-PR- SAE-1-1/16x12	0.75 (19)	1.38 (35)	0.59 (15)	0.39 (10)	1.18 (30)
METRIC					
HC-SP-PR- M-16x1.5	0.43 (11)	0.87 (22)	0.31 (8)	0.28 (7)	0.75 (19)
HC-SP-PR- M-20x1.5	0.55 (14)	1.02 (26)	0.37 (9.5)	0.31 (8)	0.87 (22)
HC-SP-PR- M-25x1.5	0.71 (18)	1.24 (31.5)	0.31 (8)	0.35 (9)	1.06 (27)
HC-SP-PR- M-26x1.5	0.71 (18)	1.24 (31.5)	0.35 (9)	0.35 (9)	1.06 (27)
HC-SP-PR- M-27x1.5	0.79 (29)	1.24 (31.5)	0.51 (13)	0.35 (9)	1.06 (27)
HC-SP-PR- M-30x1.5	0.87 (22)	1.38 (35)	0.35 (9)	0.39 (10)	1.18 (30)
HC-SP-PR- M-35x1.5	0.98 (25)	1.57 (40)	0.43 (11)	0.39 (10)	1.34 (34)
HC-SP-PR- M-40x1.5	1.18 (30)	1.85 (47)	0.47 (12)	0.51 (13)	1.61 (41)
BSP	(= =)	()	()	(-)	(*)
HC-SP-PR- BSP-9x1/4	0.35 (9)	0.71 (18)	0.39 (10)	0.24 (6)	0.59 (15)
HC-SP-PR- BSP-12x3/8	0.43 (11)	0.87 (22)	0.31 (8)	0.28 (7)	0.75 (19)
HC-SP-PR- BSP-15x1/2	0.55 (14)	1.02 (26)	0.39 (10)	0.31 (8)	0.87 (22)
HC-SP-PR- BSP-20x3/4	0.79 (20)	1.24 (31.5)	0.39 (10)	0.35 (9)	1.06 (27)
HC-SP-PR- BSP-24x1	0.98 (25)	1.57 (40)	0.43 (11)	0.39 (10)	1.34 (34)
HC-SP-PR- BSP-30x1-1/4	1.18 (30)	1.85 (47)	0.47 (12)	0.51 (13)	1.61 (41)

^{*}Avoid contact with alcohol and detergents containing alcohol.



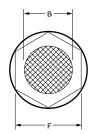


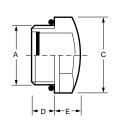
Plastic Prism Sight Plug - NPT

Hydro-Craft® Plastic Sight Plug is a transparent polyamide technopolymer, making it resistant to solvents, oils, greases, and alkaline acids*.

- Available in 1/2, 3/4, and 1 inch NPT sizes
- Body is made of special black polyamide technopolymer
- Prism lenses
- Flat NBR seal







SPECIFICATIONS - Order By Part Number

PART NO.	A THREAD NPT	В	С	D Inch (MM)		
HC-SP-PP-08	1/2	0.55 (14)	1.1 (28)	0.04 (10)	0.31 (8)	0.95 (24)
HC-SP-PP-12	3/4	0.70 (18)	1.38 (35)	0.40 (10)	0.33 (8.5)	1.26 (32)
HC-SP-PP-16	1	0.90 (23)	1.7 (43)	0.43 (11)	0.36 (9)	1.5 (38)



Oil Level Sight Plugs

HYDRO-CRAFT® SIGHT PLUGS ARE DESIGNED FOR QUICK VISUAL INSPECTION OF LIQUID LEVELS

HC-SP Series Plugs use a transparent glass window. Body composed of electroless nickel steel, reflecting surface behind the glass is stainless steel.

- Eliminate the need for dipsticks
- Presence of liquid is clearly shown in window
- Reflecting surface behind the glass provides excellent visibility — even in dark locations
- Compatible with most fluids, including diesel fuel and phosphate esters
- UL rated
- Custom Sight Plugs available, contact Hydro-Craft

OIL LEVEL SPECIFICATIONS

PART NO.	NPT	MAX. TEMP.	HEX SIZE	SIGHT AREA	
HC-SP-8 HC-SP-12 HC-SP-16 HC-SP-24 HC-SP-32	1/2 3/4 1 1-1/2	500°F 500°F 500°F 500°F	1 1-1/4 1-5/8 2-1/4 2-1/2	9/16 3/4 1-1/8 1-7/16 1-7/8	



^{*}Avoid contact with alcohol and detergents containing alcohol.



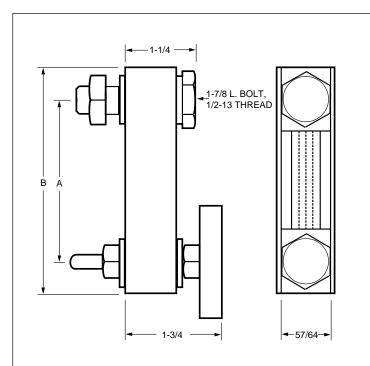


Sight Level Gauge

HSG-66 SERIES

Hydro-Craft® fluid sight level gauges are available in 3-5- and 10-inch sizes.

- Rugged construction
- Plated steel shell and end blocks
- Standard Lexan tube
- Optional Pyrex glass tube available
- Easy to read, high visibility design
- Viton O-ring tube seals
- Optional dial thermometer available



GAUGE SPECIFICATIONS

PART NO.	Part no. With Temperature Indicator	MOUNTING CENTER (A)	OVERALL LENGTH (B)
HSG-66-3	HSG-66T-3	3	4-1/8
HSG-66-5	HSG-66T-5	5	6-1/8
HSG-66-10	HSG-66T-10	10	11-1/8

Add PL to end of part number for Pyrex, Lexan is standard.



gauges are slotted for side viewing

Sight level gauges are not designed for pressure applications.





Sight/Temperature Gauges

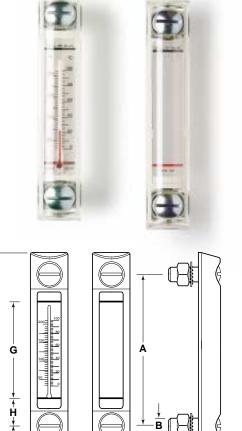
Fluid Level Gauges are made of ultrasonically welded transparent polyamide material, for use with lubricants, mineral, and petroleum based fluids.

- Maximum operating temperature of 212°F (100°C)
- Buna-N o-ring seals
- Zinc plated bolts
- All-around visibility of fluid level

OPTIONS

- Viton seals
- Fast mount kit available, see below (eliminates mounting from inside the tank)
- For thermometer add T to end of part number
- Special gauges resistant to boiling water and fluids containing alcohol are available, contact Hydro-Craft®





SPECIFICATIONS

PART	A BOLT	В	С	D	E	F	G	Н	1	SC	ALE
NO.	CENTER					Inch (MM)				°C	
HSG-77-3	2.99 (76)	(M10)	0.87 (22)	0.63 (16)	1.06 (27)	4.21 (107)	1.57 (40)	0.71 (18)	0.61 (15.5)	20-100	68-210
HSG-77-5	5.00 (127)	(M12)	0.91 (23)	0.71 (18)	1.22 (31)	6.34 (161)	3.15 (80)	0.91 (23)	0.67 (17)	0-100	32-210
HSG-77-10	10.00 (254)	(M12)	0.83 (21)	0.71 (18)	1.38 (35)	11.46 (291)	7.99 (203)	1.02 (26)	0.73 (18.5)	0-100	32-210

Add T to end of part number for thermometer.

Fast Mounting Kit

For mounting from outside. Buna-N o-ring seal.

SPECIFICATIONS

PART NO.	A	Without O-Ring B			O-Ring B
		Min	Max	Min	Max
HSG-77-FM-M10	0.63	0.06	0.185	0.185	0.25
	(16)	(1.5)	(4.7)	(4.7)	(6.3)
HSG-77-FM-M12	0.69	0.06	0.185	0.185	0.25
	(17.5)	(1.5)	(4.7)	(4.7)	(6.3)





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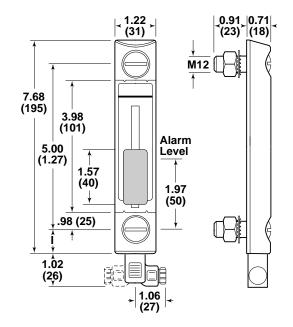
5" Electric Sight/Level Gauge

HSG-77-5-EL SERIES

Electric Sight/Level Gauge generates an electric signal when the oil level drops to a minimum. Also has visual reading.

Transparent polyamide technopolymer is highly resistant to shock, solvents, oils with additives, aliphatic and aromatic hydrocarbons, petro, naphtha, and phosphoric esters*.

*Avoid contact with alcohol and detergents containing alcohol.





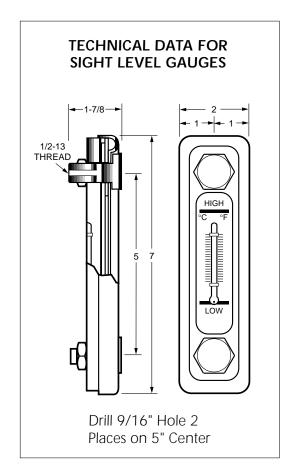
Sight Level Gauge*



PART NUMBER HSG-55

The Hydro-Craft® Standard Sight Level Gauge is available only with temperature indicator. Complete with neoprene gaskets and attaching bolts — ready for immediate installation.

- Can be installed from either outside or inside reservoir unit. Requires only two mounting holes
- Sturdy low profile outer case
- All external metal parts are plated
- Extra large sight area
- · Non-breakable 2X magnifier
- Thermometer standard with readings in Centigrade and Fahrenheit
- Will withstand temperatures to 225°F
- Available in stainless steel, add "SS" to end of part number
 - *Sight Level gauges are not designed for/cannot be used for pressurized applications.







Pressure Gauges

2-1/2" AND 4" GLYCERINE TYPE

Hydro-Craft* gauges are designed for long life under the most severe operating conditions. The glycerine bath dampens the pointer movement, bourdon tube and amplifying device thus ensuring that the effects of system pulsations and mechanical vibrations are reduced to a minimum.



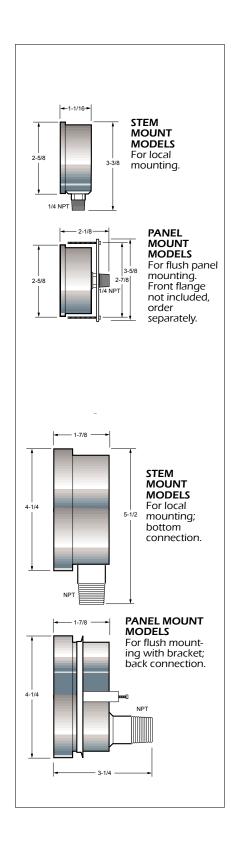


- CASE AND RING: AISI 304 s.s.
- FRONT FLANGE AND BRACKET: AISI 304 s.s.
- DIAL COVER: Plexiglass
- CONNECTION: Brass
- MOVEMENT: Brass
- ACCURACY: grade 1.6% on 2-1/2", grade 1% on 4"
- RANGES AND GRADUA-TIONS: in both psi (black) and bar (red)
- MAXIMUM DIAL READING SELECTION: 75% on 2-1/2 ", 90% of scale range for fluctuating pressure and 100% of scale for steady pressure on 4"
- PRESSURE ELEMENT: on 2-1/2" models "C" shaped bourdon bronze tube for pressures to 600 psi and in multispiral for the upper ranges. On 4" model "C" shaped bourdon bronze tube for ranges up to 600 psi. For upper ranges multi-spiral in AISI 316L s.s.
- WARRANTY: Material and design faults within 12 months from date of purchase when used under normal operating conditions
- All glycerine gauges include a dual relief valve/blowout disc for operational safety





Pressure Gauges



SPECIFICATIONS-2-1/2 INCH GLYCERINE GAUGES

2-1/2 Inch (63mm) Series

	PART NO.			RANGE		
	STEM MOUNT	PANEL MOUNT		PSI		BAR
obs	HC1V-002S HC1V-000S HC1P-004S HC1P-007S HC1P-010S HC1P-040S Dlete HC1P-055S obst HC1P-070S HC1P-100S HC1P-140S HC1P-140S HC1P-210S HC1P-350S HC1P-420S HC1P-700S	HC1V-002P HC1V-000P HC1P-004P HC1P-007P HC1P-010P HC1P-020P HC1P-040P Dlete HC1P-055P ob HC1P-070P HC1P-100P HC1P-140P HC1P-210P HC1P-350P HC1P-420P HC1P-420P	solete	0 Hg + 30 30 Hg-0 0-60 0-100 0-160 0-300 0-600 0-1000 0-1500 0-2000 0-5000 0-6000 0-10000	obsolete	-1 + 2 -1 0-4 0-7 0-10 0-20 0-40 0-55 0-70 0-100 0-140 0-210 0-350 0-420 0-700
		HC1P-F		FRON	IT FLANGE C	ONLY

SPECIFICATIONS-4 INCH GLYCERINE GAUGES

4 Inch (100mm) Series

PAR	RT NO.	RANGE			
STEM	PANEL	PSI	BAR	NPT	
MOUNT	MOUNT			(Inches)	
HC2V-000S	HC2V-000P	-30 Hg + -0	-1	1/4	
HC2P-004S	HC2P-004P	0-60	0-4	1/4	
HC2P-007S	HC2P-007P	0-100	0-7	1/4	
HC2P-010S	HC2P-010P	0-160	0-10	1/4	
HC2P-020S	HC2P-020P	0-300	0-20	1/4	
HC2P-040S	HC2P-040P	0-600	0-40	1/4	
HC2P-070S	HC2P-070P	0-1000	0-70	1/2	
HC2P-100S	HC2P-100P	0-1500	0-100	1/2	
HC2P-140S	HC2P-140P	0-2000	0-140	1/2	
HC2P-210S	HC2P-210P	0-3000	0-210	1/2	
HC2P-350S	HC2P-350P	0-5000	0-350	1/2	
HC2P-700S	HC2P-700P	0-10000	0-700	1/2	
HC2P-800S	HC2P-800P	0-15000	0-1050	1/2	
	HC2P-F	FRONT FLANGE ONLY			





Gauge Isolator Valves

SINGLE STATION–Hydro-Craft® push-to-read gauge isolator valve protects pressure gauges from damaging pressure surges, hydraulic shock and mechanical vibrations.

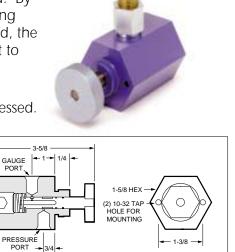
Fluid is completely isolated from the gauge until the knob is pressed. By pressing the knob, fluid is connected directly to the gauge port giving instant and accurate readings on the gauge. As the knob is released, the spring loaded valve closes automatically connecting the gauge port to drain and completely blocking the pressure port.

In operation, an orifice in the gauge port acts as a partial snubber, protecting the gauge from the initial surge of fluid as the knob is pressed.

The valve is easily and attractively panel mounted with the included screws.

The unit has a steel body with hardened steel spool. By using this type of gauge isolator, savings are ensured on the life of your pressure gauge.

NOTE: Vent port connection must drain into tank above oil level to insure proper operation of valve. These valves are designed for non-pressurized reservoirs.



SPECIFICATIONS

PART NO.	DESCRIPTION	MAXIMUM WORKING PRESSURE
HC-G1-02-ST	Single Station Straight Thread	3000 PSI
HC-G1-02	Single Station 1/4 NPT Thread	3000 PSI

ALL PORTS NO. 4 SAE 7/16-20 STRAIGHT THREAD O-RING TYPE (ALSO AVAILABLE WITH 1/4 NPT PORTS)

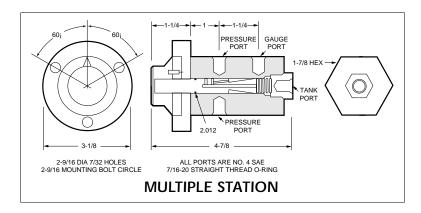
TANK PORT

2-1/4

SINGLE STATION

MULTIPLE STATION-Reliable

6-station isolator protects and prolongs life of expensive pressure gauges. Though basically designed for panel mounting, the unique design of this isolator makes it suitable for a variety of applications and mounting methods. To use, simply turn knob to desired station and press to read gauge. Valve automatically vents itself.



SPECIFICATIONS

PART NO.	DESCRIPTION	MAXIMUM WORKING PRESSURE	WEIGHT
HC-G1-02-6A	Six Station	3000 PSI	2.75 LBS.





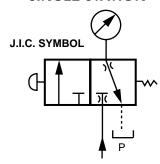
Gauge Panels

SINGLE & MULTIPLE

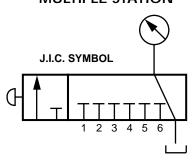
Hydro-Craft® gauge panels provide the reliability of Hydro-Craft® gauges and isolator valves in a complete, ready-to-install panel.

- Gauges are 2-1/2" or 4" diameter, glycerine filled
- 6"x12" gauge panel size is standard
- Panel material is zinc-plated steel
- Maximum working pressure: 3000 P.S.I.

SINGLE STATION



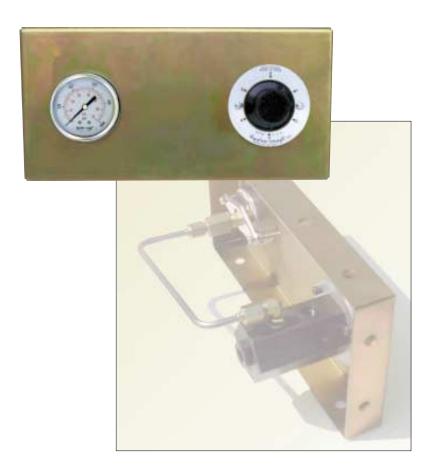
MULTIPLE STATION

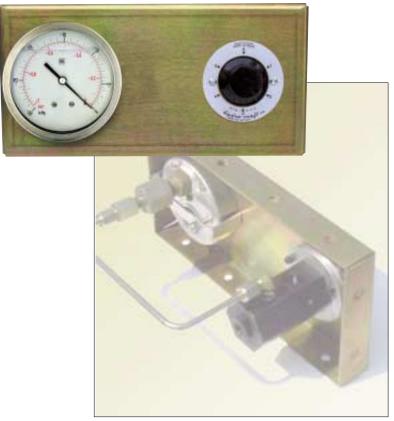


SPECIFICATIONS

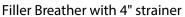
PART NO.	DESCRIPTION
HCGP1-02-1-*	1 Station 2-1/2" Gauge
HCGP2-02-1-*	1 Station 4" Gauge
HCGP1-02-6-*	6 Station 2-1/2" Gauge
HCGP2-02-6-*	6 Station 4" Gauge

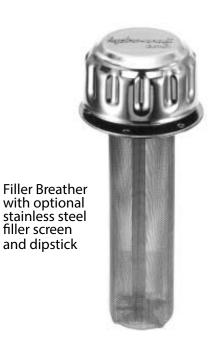
^{*}Specify PSI on gauge



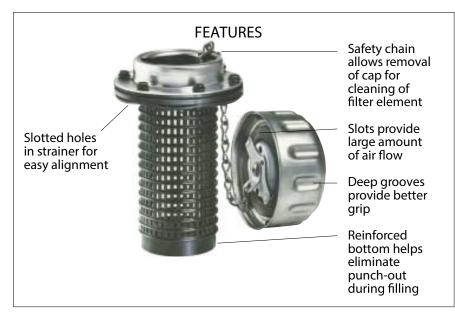








OF	PTIONAL ADDERS			
Add To Part	Description			
AS	Anti-Slosh Feature			
В	Black Powder Coated Cap			
D	6" Dip Stick			
L	Stainless Steel Locking Tab			
M	10 Micron Element			
PB-3	3 P.S.I. Pressurized Breather			
PB-5	5 P.S.I. Pressurized Breather			
PB-10	10 P.S.I. Pressurized Breather			
S-3	3" Stainless Steel Strainer			
S-4	4" Nylon Strainer			
SS-8	8" Stainless Steel Strainer			



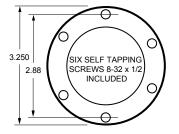




Filler Breather Assembly Kit

PART NO. HC-120

- Nylon strainer with guard...stronger than conventional materials.
 Will not corrode.
 Compatible with most fluids.
- Flange on strainer acts as gasket–no unnecessary parts to lose
- 3" or 8" strainer available,
 4" is standard
- Displaces 192 gallons per minute (25 CFM)
- Available in 10 or 40 micron
- Nylon strainer with openings equivalent to 30 mesh
- Plated cap with safety chain
- All Parts included in one carton, ready to install
- Locking provision available to accept standard 3/8" padlock
- Pressurized breather available, see Optional Adders on page 31 for ordering information





See page 14 for Weld Risers



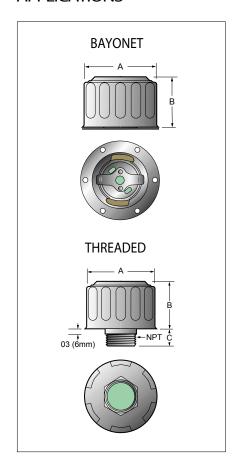
hydro-craft



Patent Pending

Anti-Slosh Filler-Breathers

ELIMINATES SPLASHING IN SPECIFIC HYDRAULIC APPLICATIONS



Hydro-Craft's new Anti-Slosh Filler-Breather cap meets high quality standards and the special needs of mobile hydraulic applications. It offers the same features and benefits of our standard, non-pressurized filler-breathers and easily replaces existing caps. It fits threaded or bayonet style assemblies. They allow a large amount of air flow with little or no slosh.

Features and options in addition to the design include nylon strainer with guard, locking cap, metal filler strainer in two depths, dipstick, safety chain, black powder coating on cap*, side mounting assembly kit, and custom colors (in quantity). OEMs can order these in their proprietary colors with their name and/or logo stamped into the cap (i.e., John Deere green or Caterpillar yellow).

^{*} Powder coating has withstood 400 hours in a salt-spray cabinet with no adverse effect.

ADD TO	
ADD TO PART	DESCRIPTION
AS	Anti-Slosh Feature
В	Black Powder Coated Cap
D	6" Dip Stick
L (discontinued)	Stainless Steel Locking Tab
M	10 Micron Element
S-3	3" Stainless Steel Strainer
S-4	4" Nylon Strainer
SS-8	8" Stainless Steel Strainer

How To Order

Example: HC-120-AS-B-D-SS-8

This example would provide you a filler-breather with the following options: anti-slosh, black powder coated cap, 6" dip stick, and 8" stainless steel strainer.

SPECIFICATIONS-NON-PRESSURIZED

PART NO.	FLOW (CFM)	SIZE (NPT)	А	В	C MI	CRON	
THREADED HC-120-T-12-P-AS	25	3/4	3	2-3/8	3/4	40	
BAYONET HC-120-AS	25	-	3	2-1/4	-	40	

 $[\]ensuremath{\mathbb{G}}$ Hydro-Craft, Inc. John Deere and Caterpillar remain the copyright of the respective companies.





HOW TO ORDER

Part No.	Description
HC-120	40 Micron Filler Breather w/4" nylon strainer
HCS-M-120	40 Micron Metal Side Mount Filler Breather w/ 3" metal strainer

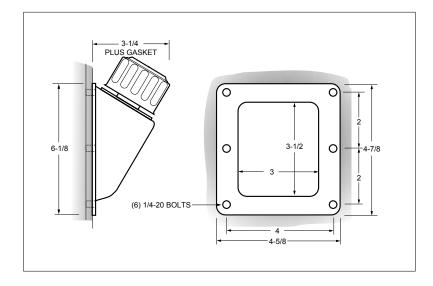
OPTIONAL ADDERS

Add To Part	Description		
AS	Anti-Slosh Feature		
В	Black Powder Coated Cap		
D	6" Dip Stick		
L (discontinued)	Stainless Steel Locking Tab		
M	10 Micron Element		
PB-3	3 P.S.I. Pressurized Breather		
PB-5	5 P.S.I. Pressurized Breather		
PB-10	10 P.S.I. Pressurized Breather		
S-3	3" Stainless Steel Strainer		
S-4	4" Nylon Strainer		
SS-8	8" Stainless Steel Strainer		

Example: HC-120-D-L-PB-3-SS-8

3 PSI Pressurized Breather with a 6" Dip Stick, stainless steel

locking tab and 8" stainless steel strainer.



Dimensional data for Metal Side Mount



Metal Side Mount Filler Breather Assembly Kit

PART NO. HCS-M-120

- Displaces 192 gallons per minute. (25 CFM)
- Available in 10 or 40 micron
- 3" strainer filters out particles as small as 300 micron
- · CAD-plated steel housing
- Nickel chrome plated cap with safety chain
- All Parts (gaskets, self-tapping screws), included in one package-ready to install

FEATURES

- Specially designed slots provide for an extremely large amount of air flow through cap
- Safety chain retains cap so it will not be misplaced







Air Breathers

Breather filters are a must for hydraulic systems requiring clean air passing into the reservoir, ensuring long life of system components.

When used as a crankcase ventilator, it helps to prolong the life of the engine oil and the oil filter.

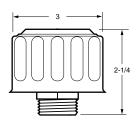
Pressurized breather available, see Optional Adders on page 31 for ordering information.



HC-120-P-T-12P-3

SPECIFICATIONS-THREADED TYPE, PRESSURIZED

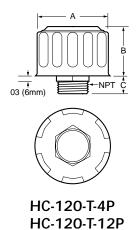
		•		
PART NO.	RATING MICRON	DISPLACEMENT GPM	AIR FLOW cfm	NPT
HC-120-P-T-12P-3 HC-120-P-T-12P-5 HC-120-P-T-12P-10	40 40 40	192 192 192	25 25 25	3/4 3/4 3/4

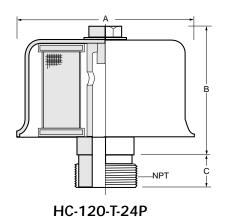


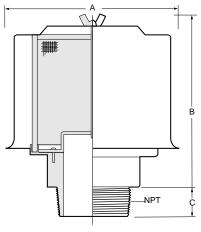
SPECIFICATIONS-THREADED TYPE, NON PRESSURIZED

PART NO.	FLOW CFM	SIZE (NPT)	А	В	С	MICRON
HC-120-T-4P	10	1/4	1-13/16	2-1/8	3/4	40
HC-120-T-12-P	25	3/4	3	1-3/4	3/4	40
HC-120-T-24-P	75	1-1/2	5-5/32	4-1/4	1-1/4	40
HC-120-T-32-P	120	2	5-13/16	6-1/2	2-9/16	40
HC-120-T-40-P	190	2-1/2	7	8-1/4	2-3/4	40
HC-120-T-48-P	280	3	7	8-1/4	2-3/4	40
HC-120-T-64-P	500	4	7	8-1/4	3-7/8	40

Contact Hydro-Craft® for replacement elements







HC-120-T-40P









Valve Breather Caps

Valve Breather Caps are high-impact technopolymer construction making them resistant to solvents, oils, greases, and other chemical agents.

- RAL orange cover with graphic symbol "valve", and black threaded connector
- Flat NBR synthetic rubber packing ring
- Aluminum valve covered with adhesiveproof material pad sealing o-ring
- Stainless steel ring
- Valve setting is 100mb: valve opens when pressure exceeds 0.100 bar, 1.4 psi





SPECIFICATIONS

PART NO.	DESCRIPTION	A	B INCHES (MM)	С	D
НС-РВ-Р-6	3/8 NPT	1.18 (30)	1.22 (31)	0.39 (10)	0.39 (10)
HC-PB-P-8	1/2 NPT	1.18 (30)	1.22 (31)	0.39 (10)	0.39 (10)

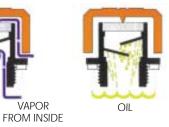
EESB® ORIGINAL DESIGN

Filler Breathers — Screw-In Style — Anti-Slosh — NPT

Filler Breathers are high-impact construction. Resistant to solvents, oils, grease, and other chemicals.

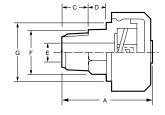
- 1.65 inch cap diameters
- Temperature range -22°F to +240°F $(-30^{\circ}\text{C to } + 115^{\circ}\text{C})$
- Displacements to 250 gpm without baffle, 144 gpm with baffle
- Anti-Slosh feature prevents oil loss







VAPOR



SPECIFICATIONS

PAR	T NO.	Description	А	В	С	D INCHES	Е	F	G
STANDARD	ANTI-SLOSH					(MM)			
НС-РВ-4	HC-PB-AS-4	1/4 NPT	1.53 (39)	1.65 (42)	0.39 (10)	0.27 (7)	0.27 (7)	5/8	1.18 (30)
НС-РВ-6	HC-PB-AS-6	3/8 NPT	1.73 (44)	1.65 (42)	0.59 (15)	0.27 (7)	0.31 (8)	3/4	1.18 (30)
НС-РВ-8	HC-PB-AS-8	1/2 NPT	1.85 (47)	1.65 (42)	0.67 (17)	0.27 (7)	0.47 (12)	1	1.18 (30)
HC-PB-12	HC-PB-AS-12	3/4 NPT	1.85 (47)	1.65 (42)	0.70 (18)	0.27 (7)	0.70 (18)	1-1/8	1.18 (30)
HC-PB-12-57	,	3/4 NPT	1.97 (50)	2.24 (57)	0.70 (18)	0.27 (7)	0.63 (16)	1-1/8	1.53 (39)
HC-PB-12-70)	3/4 NPT	1.97 (50)	2.76 (70)	0.70 (18)	0.23 (6)	0.63 (16)		1.53 (39)

Optional custom dipstick available, contact Hydro-Craft



hydro-craft



HC-RS-30D Dial Indicator



Return Line Filters

The Hydro-Craft^{*} range of spin-on filters are designed for return line applications and have a nominal retention of 10 micron as standard. 25 micron canisters are available.

Hydro-Craft^{*} spin-on filters are designed for use with mineral-based oils as used in mobile, industrial, marine and agricultural applications.

DESIGN FEATURES

- · Full flow 10 micron-standard
- Optional 25 micron
- 200 PSI working pressure with bypass
- Interchangeable elements
- Visual indicator available in standard or custom design
- Disposable spin-on canister
- With 15 PSI bypass (1 bar)

SPECIFICATIONS

PART NO.	PORT SIZE		MICRON	DIAL
		(GPM)	RATING	INDICATOR
		30 SERIES		
HC-RS-30-12X	3/4"	15	10 Micron Std 25 Micron Op	
HC-RS-30-12D	3/4"	15	10 Micron Std 25 Micron Op	
HC-RS-30-16X	1"	20	10 Micron Std 25 Micron Op	
HC-RS-30-16D	1"	20	10 Micron Std 25 Micron Op	
		50 SERIES		
HC-RS-50-20X	1-1/4"	55	10 Micron Std 25 Micron Op	
HC-RS-50-20D	1-1/4"	55	10 Micron Std 25 Micron Op	
	BAYONET F	FILTER ADAPTE	R	
HC-120-BFA HC-120-FA				

Our Bayonet Flange Adapters, HC-120-BFA and HC-120-FA, will replace the filler breather cap, allowing use of a spin-on filter. The flange adapter will accommodate all series RSE filters. Select the appropriate size and micron rating for your application.

REPLACEMENT ELEMENTS

PART NO.	MICRON RATING
30 SERIES	
RSE-30-10	10 Micron
RSE-30-25	25 Micron
50 SERIES	
RSE-50-10	10 Micron
RSE-50-25	25 Micron

Replacement dial gauge indicator HCRS-30-D fits 30 and 50 series filters

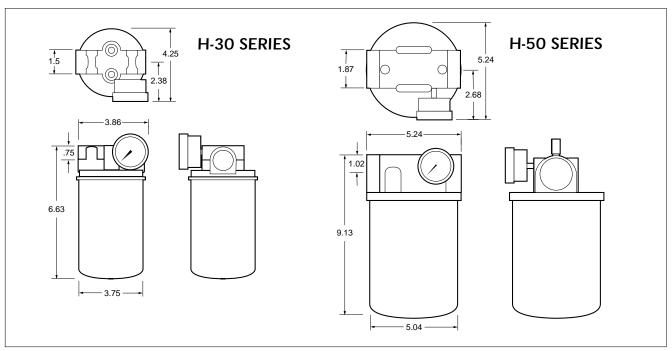


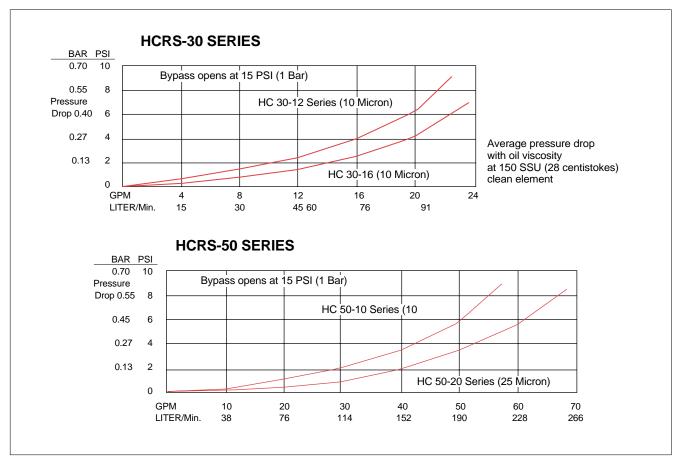
HC-120-BFA HC-120-FA Bayonet Filter Adapters



Return Line Filters Series HCRS 30 and 50

TECHNICAL DATA

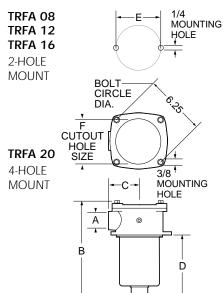






hydro-craft





TRFA Return Line Filter

Hydro-Craft® TRFA return line filters are available in 4 port sizes, 1/2, 3/4, and 1" (2-hole mount), and 1-1/4" (4-hole mount).

FEATURES:

· Materials:

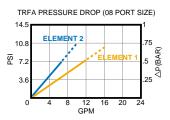
Head & cover: Aluminum alloy Bowl: Polyammide Bypass valve: Polyammide Seals: Nitrile

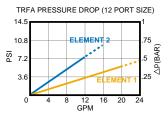
- Working temperature from -15° to 230°F
- Maximum working pressure 45 psi
- Up to 65 GPM with 10 micron cellulose element

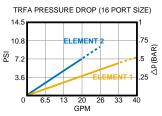
SPECIFICATIONS

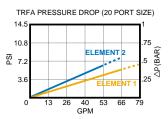
PART NO.	Α	В	С	D		
TRFA 08	1/2	5.32	1.97	3.15	3.54	2.64
TRFA 12	3/4	6.97	2.64	4.02	4.53	3.5
TRFA 16	1	8.86	2.64	5.91	4.53	3.5
TRFA 20	1-1/4	13.35	3.74	9.76	6.25	5.0

SEE PAGE 37 FOR HOW TO ORDER









BOLT—CIRCLE DIA.

5.0 CUTOUT

HOLE

SIZE

1-1/4



TRFH Return Line Filter

Hydro-Craft® TRFH is a double 1-1/4" port filter. Built to the highest standards, it assures years of trouble-free service.

FEATURES:

• Materials:

Head & cover: Aluminum alloy Bowl: Polyammide Bypass valve: Polyammide Seals: Nitrile

- Working temperature from -15° to 230°F
- Maximum working pressure 45 psi
- Up to 65 GPM with 10 micron cellulose element

13.34
9.76

TRFH PRESSURE DROP (20 PORT SIZE)
14.5
10.8
20
7.2
3.6
0
13
26
40
53
66
79

6.70

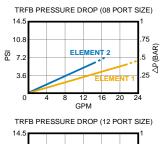
₹3/8 MOUNTING

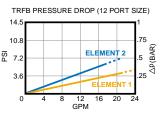
1-1/4

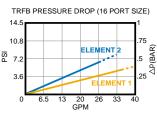
HOLE

SEE PAGE 37 FOR HOW TO ORDER









TRFB Return Line Filter

Hydro-Craft® TRFB return line filters are made in 3 port sizes, 1/2, 3/4, and 1". Comes with a built-in breather. All filter end caps have a handle for easy element removal and cleaning.

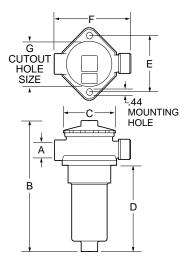
FEATURES:

Materials:

Head & cover: Aluminum alloy
Bowl: Polyammide
Bypass valve: Polyammide
Seals: Nitrile

- Working temperature from -15° to 230°F
- Maximum working pressure 100 psi
- Up to 40 GPM with 10 micron cellulose element



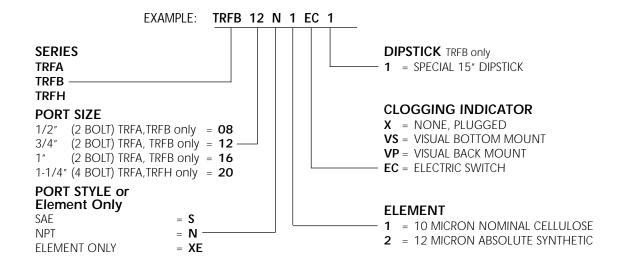


SPECIFICATIONS

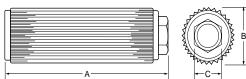
PART NO.	Α	В	С	D	Е	F	G
TRFB 08	1/2	9.57	2.95	7.01	3.22	4.73	2.36
TRFB 12	3/4	7.87	4.09	4.33	4.33	6.03	3.45
TRFB 16	1	10.43	4.09	6.89	4.52	6.03	3.45

HOW TO ORDER RETURN LINE FILTERS

Build an ordering code, as in example below:







Suction Line Filter

IN-TANK SUBMERGED TYPE Hydro-Craft® offers a complete range of suction-line filters, for use with hydraulic fluids, lubricants, coolants, cutting oil, etc.

FEATURES:

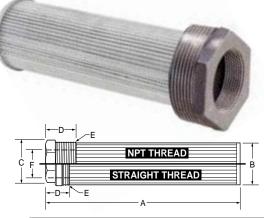
- Meets or exceeds all J.I.C. standards
- 140 micron filtering
- 100 mesh stainless steel screen
- Aluminum nut and end caps
- Epoxied ends, hex connection
- Extremely low pressure drops
- Minimum sizes maximum flow rates
- Gallon rating and micron size stamped on each filter

Pressure drop through a clean element will not exceed 0.2 PSI (0.4-in. Hq) at rated flow of 150 SSU viscosity fluid and 100 mesh.

SPECIFICATIONS

Hydro-Craft® recommends hand-tightening only to facilitate servicing...wrench tightening is not necessary.

PART I ALL METAL	NUMBER NYLON CONNECTION	VALVE OPTION	GPM RATING	THREAD (NPTF)	Filtering Area (Sq. In.)	A	METAL B	NYLON B	С
HA-FS-5 HA-FS-10 HA-FS-20 HA-FS-30 HA-FS-50 HA-FS-75 HA-FS-100	HP-FS-5 HP-FS-10 HP-FS-20 HP-FS-30 HP-FS-50 HP-FS-75 HP-FS-100	"ADD" RV-3 3-PSI BY PASS	5 10 20 30 50 75 100	3/4" 1" 1-1/4" 1-1/2" 2" 2-1/2" 3"	62 125 162 310 340 400 500	3-1/2" 5-3/4" 7-3/8" 9-1/8" 9-3/4" 12-1/2" 12-1/2"	3-9/32" 3-9/32" 4-9/32" 4-9/32" 5-7/16"	3-3/16" 3-3/16" 3-3/16" 4-3/16" 4-3/16" 5-3/16"	1-5/16" 1-5/8" 1-15/16" 2-1/8" 2-3/4" 3-1/2" 4"



Tank-Mounted Strainers

Hydro-Craft® strainers mount through the wall of the tank. They can be removed through the mounting hole, so access to tank interior is not necessary.

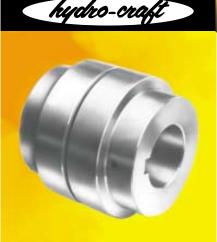
FEATURES:

- Available in NPT or STRAIGHT THREAD
- Custom strainers available, contact Hydro-Craft®
- Optional bypass valve available

SPECIFICATIONS

NPT PART NUMBER	VALVE OPTION	GPM RATING	FILTERING AREA (SQ. IN.)	A	В	С	D	THREAD E	THREAD F
HTS-FS-5 HTS-FS-10 HTS-FS-15 HTS-FS-25 HTS-FS-50 HTS-FS-100	"ADD" RV-5 5-PSI BYPASS	5 10 15 25 50 100	35 64 86 125 260 315	5.38" 7.50" 8.25" 10.00" 10.25" 11.30"	1.18" 1.14" 1.65" 2.12" 3.03" 3.78"	1.43" 1.81" 2.00" 2.55" 3.30" 5.00"	1.10" 1.20" 1.30" 1.30" 1.70" 1.80"	1" 1-1/4" 1-1/2" 2" 3" 4"	1/2" 3/4" 1" 1-1/4" 2" 3"
STRAIGHT	THREAD								
HTSS-FS-16 HTSS-FS-20 HTSS-FS-24 HTSS-FS-32	"ADD" RV-5 5-PSI BYPASS	16 20 24 32	90 90 230 230	9.00" 9.00" 8.80" 9.30"	2.24" 2.24" 3.22" 3.22"	2.13" 2.13" 2.50" 3.00"	.75" .75" .90" .98"	2-1/2"-12 2-1/2"-12 3-3/8"-12 3-3/8"-12	1-5/16"-12 1-5/8"-12 1-7/8"-12 2-1/2"-12





FLEXIBLE INSERT GUIDE

MODEL	MAX	Wr ²	INSERT	RATED	TORSIONAL		RSE POV	
SIZE	BORE	lb-ft ²	No.	lb-in	RIGIDITY		ING AT (F	
					lb-in/Deg	100	1200	1800
PM 90	1-1/8	.946	P097N7	224	38.3	.36	4.3	6.5
			P090U9	336	69.9	.54	6.5	9.8
			P090H5	672	158.7	1.08	13.	19.5
100	1-1/8	.0046	M170N7	340.7	42	.55	6.5	9.8
			M170U9	511.0	53	.82	9.8	14.7
			M170H5	1022.1	182	1.65	19.8	29.7
200	1-3/8	.0068	M270N7	398.3	55	.64	7.6	11.5
			M270U9	597.4	68	.96	11.5	17.2
			M270H5	1194.9	234	1.92	23.0	34.5
300	1-5/8	.022	M370N7	701.4	81	1.12	13.5	20.2
			M370U9	1052.1	148	1.68	20.2	30.3
			M370H5	2104.2	336	3.36	40.4	60.6
400	1-7/8	.031	M470N7	1056.3	138	1.69	20.3	30.4
			M470U9	1584.5	310	2.5	30.4	45.6
			M470H5	3168.9	488	5.1	60.8	91.3
500	2-3/8	.071	M570N7	2194.8	314	3.5	42.1	63.2
			M570U9	3292.2	695	5.3	63.2	94.8
			M570H5	6584.4	1571	10.5	126.4	189.6
600	2-5/8	.16	M670N7	4946.7	676	7.9	94.9	142.5
			M670U9	7420.1	1510	11.9	142.5	213.7
			M670H5	14840.1	2960	23.7	284.9	427.4
700	2-7/8	.34	M770N7	11639.8	1805	18.6	223.5	335.2
			M770U9	17459.7	2104	27.9	335.2	502.8
			M770H5	29099.5		46.5	558.75	838.0
800	3-7/8	.95	M870N7	21889.4	3680	35.0	420.3	630.4
			M870U9	32834.1		52.5	630.4	945.6
			M870H5	47062.2		75.2	903.0	1354.5
900	4-3/4	4.20	M970N7	47842.3	8428	76.5	918.6	1377.9
			M970U9	71763.5		114.8	1377.9	2066.8
•	•	•						

Flexible Drive Couplings

Hydro-Craft® offers the original lightweight, heavy duty flexible drive coupling. Solid magnesium alloy permanent mold castings are heat treated and offer the highest strength-to-weight ratio available. Light weight magnesium construction makes the coupling 76% lighter than iron and 36% lighter than aluminum units of similar design. The benefits include reduced loads on bearings, shafts and pumps for longer component life, easier handling and installation and rust proof and corrosion resistant design.

BLACK MATERIAL - **NEOPRENE (Code N)** - Standard insert with coupling. Good general purpose material offering good resiliency and load capabilities. Temp Range -30°F to +250°F. Optional 80A durometer (painted Gold) and 90A durometer (painted Silver) are available for slight increase in load capacity and less resiliency.

PAINTED BLUE - NITRILE (Buna N)(Code B) - Excellent material with petroleum products. Excellent compression set and abrasion resistance characteristics. Temp range -60°F to +250°F.

YELLOW MATERIAL - **URETHANE (Code U)** - Excellent mechanical and physical properties. Offers good medium duty and resiliency. Urethane tends to soften in higher temperatures and swells in humid conditions. Temp range -30°F to +150°F.

RED MATERIAL - **VITON** ™ **(Fluorocarbon)(Code V)** - Excellent fluid compatibility and high temperature characteristics. Good compression set and resiliency. Temp range -20°F to +350°F.

BLUE-GREEN MATERIAL - HYTREL ™ (Code H) - Superior physical and mechanical properties and excellent fluid compatibility and high temperature characteristics. Hardness (50D) approaches that of plastic and offers little resiliency. Excellent performance under heavy duty conditions. Temp range -65°F to +300°F.

Hytrel is a registered trademark of DuPont

Viton is a registered trademark of DuPont Dow Elastomers







Keyway Flexible Drive Couplings

Hydro-Craft® couplings features:

PRECISION MACHINED - The coupling's wide, outside diameter is machined to ±.001 inch and the bore is machined concentric to this diameter within .002 inch T.I.R. SIMPLE DESIGN - Radial Lug Design is logical and efficient. Coupling's drive lugs are in a true radial orientation and applied forces are evenly distributed in the compressive direction only, eliminating the heat generating radial component.

FLEXIBILITY - Couplings offer four-way flexibility (parallel, angular, axial and torsional) and require no lubrication.

EASY ALIGNMENT - Wide, precision machined outside surfaces permit a simple, but accurate alignment procedure.

HOW TO ORDER:

Keyway Coupling part may be specified using the following format: Use chart on page 41.

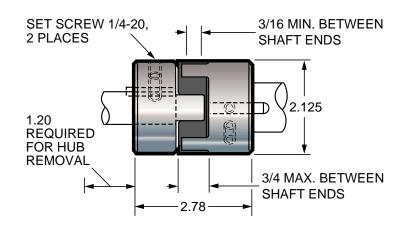
- Start with the letter 'M', follow with 3 digit model code (100, 200, etc).
- Then specify 5 bore key code.

EXAMPLE:

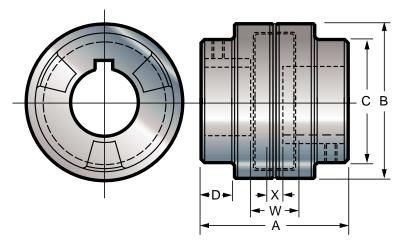
Model 500 hub with 1-3/8 bore and 5/16 keyway:

M50011210

MODEL PM 90 DIMENSIONS



MODELS 100-900 DIMENSIONS



DIMENSIONS

COUPLING MODEL	А	В	С	D	W(Max)	X(Min)
100	2.54	2.60	2.00	.56	3/4	1/16
200	3.10	2.90	2.25	.68	7/8	1/16
300	3.58	3.45	2.90	.78	7/8	1/16
400	4.24	3.98	3.05	1.00	1-1/8	1/16
500	4.67	4.80	4.00	1.04	1-1/4	1/16
600	5.98	5.98	4.50	1.60	1-3/8	1/16
700	6.99	6.90	5.19	2.08	1-7/8	1/16
800	7.99	8.60	7.00	2.25	2.00	1/16
900	10.15	11.40	8.30	2.75	1-1/2	1/16



STANDARD BORE AND KEYWAY COMBINATIONS

M 01203	PART	BORE/KEY							MC	DEL	COD	E			
M01403	NO.	CODE	BOR		KEY	PK	1	20	<u>ω</u>	4	50	6	70	80	9
M 01403		04000	0.40		0.400	9	0	0	0	0	0	0	0	0	O
M															
M_	M														
M_	M					•	•	•	•						
M	M					•	•	•	•						
M02006	M					•	•	•	•						
M. 02404 3/4 x 3/16 •	M	02006	5/8	Х	3/16	•	•	•	•	•					
M. 02406 3/4 x 3/16 M. 02808 7/8 x 1/4 M. 03008 15/16 x 1/4 M. 03008 15/16 x 1/4 M. 10006 1 x 3/16 M. 10008 1 x 1/4 M. 10408 1-1/8 x 1/4 M. 10808 1-1/4 x 1/4 M. 10810 1-1/4 x 5/16 M. 11210 1-3/8 x 5/16 M. 11212 1-3/8 x 5/16 M. 11610 1-1/2 x 5/16 M. 11610 1-1/2 x 5/16 M. 11610 1-1/2 x 3/8 M. 11610 1-1/2 x 3/8 M. 12412 1-3/4 x 3/8 M. 12414 1-3/4 x 7/16 M. 12412 1-3/8 x 1/2 M. 12414 1-3/4 x 7/16 M. 12414 1-3/4 x 1/2 M. 12816 1-7/8 x 1/2 M. 20016 2 x 1/2 M. 20202 2-3/8 x 5/8 M. 21220 2-3/8 x 5/8	M					•	•	•	•	•					
M	M						_		•						
M	M								•						
M									•	•					
M	IVI					•									
M 10008		03008	15/16	Х	1/4	PM90	100	_	_	400	500	600	700	800	900
M 10408	M						•	•	•						
M 10608	M						•		•	-		•			
M 10808	M					•	•		•			•			
M 10810	IVI														
M 11210	IVI														
M 11212	M							•		•	_			•	
M 11412	M								•						
M	M								•	•	•				
M 12012	M									•	•	•			
M 12012	M	11612							•	•	•	•	•	•	
M_	M								•	•		•	•	•	
M 12816 1-7/8 x 1/2 M 13016 1-15/16 x 1/2 M 20016 2 x 1/2 M 20416 2-1/8 x 1/2 M 20816 2-1/4 x 1/2 M 21220 2-3/8 x 5/8 M 21620 2-1/2 x 5/8 M 22420 2-5/8 x 5/8 M 22420 2-3/4 x 5/8 M 22420 2-3/4 x 5/8 M 22824 2-7/8 x 3/4 M 30024 3 x 3/4 M 30824 3-1/4 x 3/4 M 31228 3-3/8 x 7/8 M 32028 3-5/8 x 7/8 M 32428 3-3/4 x 7/8 M 32832 3-7/8 x 1 M 40432 4-1/8 x 1 M 40832 4-1/4 x 1 M 41632 4-1/2 x 1 M 41640 4-1/2 x 1 M 42040 4-5/8 x 1-1/4	M									•		•	•	•	
M										-		•	_		
M 20016 2 x 1/2 PM90 100 200 300 400 500 600 700 800 900 M 20416 2-1/8 x 1/2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M									•	_		•	•	•
M				Х		PM90	100	200	300	400	_	_	700	800	900
M 20816 2-1/4 x 1/2 M 21220 2-3/8 x 5/8 M 21620 2-1/2 x 5/8 M 22020 2-5/8 x 5/8 M 22420 2-3/4 x 5/8 M 22824 2-7/8 x 3/4 M 30024 3 x 3/4 M 30824 3-1/4 x 3/4 M 31228 3-3/8 x 7/8 M 31628 3-1/2 x 7/8 M 32028 3-5/8 x 7/8 M 32832 3-7/8 x 1 M 40432 4-1/8 x 1 M 40832 4-1/4 x 1 M 41632 4-1/2 x 1 M 41640 4-1/2 x 1 M 42040 4-5/8 x 1-1/4	M										•	•	•	•	•
M 21220	M										•	•	•	•	•
M 21620 2-1/2 x 5/8 M 22020 2-5/8 x 5/8 M 22420 2-3/4 x 5/8 M 22824 2-7/8 x 3/4 M 30024 3 x 3/4 M 30824 3-1/4 x 3/4 M 31228 3-3/8 x 7/8 M 31628 3-1/2 x 7/8 M 32028 3-5/8 x 7/8 M 32428 3-3/4 x 7/8 M 32832 3-7/8 x 1 M 40432 4-1/8 x 1 M 40832 4-1/4 x 1 M 41632 4-1/2 x 1 M 41640 4-1/2 x 1 M 42040 4-5/8 x 1-1/4	M														•
M 22020	IVI										•		•	•	•
M 22420 2-3/4 x 5/8 M 22824 2-7/8 x 3/4 M 30024 3 x 3/4 M 30824 3-1/4 x 3/4 M 31228 3-3/8 x 7/8 M 31628 3-1/2 x 7/8 M 32028 3-5/8 x 7/8 M 32428 3-3/4 x 7/8 M 32832 3-7/8 x 1 M 40032 4 x 1 M_ 40432 4-1/8 x 1 M_ 41632 4-1/2 x 1 M_ 41640 4-1/2 x 1 M_ 42040 4-5/8 x 1-1/4	IVI														
M 22824 2-7/8 x 3/4 M 30024 3 x 3/4 M 30824 3-1/4 x 3/4 M 31228 3-3/8 x 7/8 M 31628 3-1/2 x 7/8 M 32028 3-5/8 x 7/8 M 32428 3-3/4 x 7/8 M 32832 3-7/8 x 1 M 40032 4 x 1 M 40432 4-1/8 x 1 M 40832 4-1/4 x 1 M 41632 4-1/2 x 1 M 41640 4-1/2 x 1-1/4 M 42040 4-5/8 x 1-1/4	M														
M	M												•		•
M 30824 3-1/4 x 3/4 M 31228 3-3/8 x 7/8 M 31628 3-1/2 x 7/8 M 32028 3-5/8 x 7/8 M 32428 3-3/4 x 7/8 M 32832 3-7/8 x 1 M 40032 4 x 1 M 40432 4-1/8 x 1 M 40832 4-1/4 x 1 M 41632 4-1/2 x 1 M 41640 4-1/2 x 1-1/4 M 42040 4-5/8 x 1-1/4						PM90	100	200	300	400	500	600	700		
M 31228 3-3/8 x 7/8 M 31628 3-1/2 x 7/8 M 32028 3-5/8 x 7/8 M 32428 3-3/4 x 7/8 M 32832 3-7/8 x 1 M 40032 4 x 1 M 40432 4-1/8 x 1 M 40832 4-1/4 x 1 M 41632 4-3/8 x 1 M 41640 4-1/2 x 1-1/4 M 42040 4-5/8 x 1-1/4	IVI	30024													
M 31628 3-1/2 x 7/8 M 32028 3-5/8 x 7/8 M 32428 3-3/4 x 7/8 M 32832 3-7/8 x 1 M 40032 4 x 1 M 40432 4-1/8 x 1 M 40832 4-1/4 x 1 M 41632 4-1/2 x 1 M 41640 4-1/2 x 1-1/4 M 42040 4-5/8 x 1-1/4	M														
M 32028 3-5/8 x 7/8 M 32428 3-3/4 x 7/8 M 32832 3-7/8 x 1 M 40032 4 x 1 M 40432 4-1/8 x 1 M 40832 4-1/4 x 1 M 41232 4-3/8 x 1 M 41632 4-1/2 x 1 M 41640 4-1/2 x 1-1/4 M 42040 4-5/8 x 1-1/4	M														•
M 32832	M													•	•
M 32832	M													•	•
M 40032	M													•	•
M 40432	M	40032	Δ	Y	1	PM90	100	200	300	400	500	600	700	800	
M 40832	M														•
M 41232	M														•
M 41632	M														•
M 41640	M														_
	M														_
NI 42440															
	IVI	42440	4-3/4	X	1-1/4										•





Splined Flexible Drive Couplings

HOW TO ORDER:

Spline Coupling part may be specified using the following format:

- Start with the letter 'M', follow with 3 digit model code (100, 200, etc).
- Next use single letter Spline Type Identifier Code ('A' for regular spline, or 'B' for steel bushing).
- Then specify 4 digit spline code.
- If a clamp type coupling is specified use the letter code 'C' after the spline code.

EXAMPLES:

Model 300 hub with

13 tooth 16/32 spline bore: M300-A1316

Same as above

w/steel bushing: M300-B1316

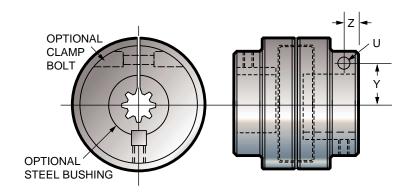
Same as above

w/steel bushing and clamp: M300-B1316C

DIMENSIONS-CLAMP TYPE COUPLING

PART NO.	BOLT LC Z	OCATION Y	U BOLT SIZE	TORQUE SPECS
100	.31	.68	1/4-20	130-140 in. lbs
200	.43	.75	1/4-20	130-140 in. lbs
300	.47	.95	5/16-18	210-220 in. lbs
400	.69	1.06	5/16-18	210-220 in. lbs
500	.72	1.25	3/8-16	300-310 in. lbs
600	1.13	1.50	7/16-14	35-36 ft. lbs
700	1.13	1.75	7/16-14	35-36 ft. lbs
800	1.44	2.56	1/2-13	49-50 ft. lbs
900*	.75 & 2.19	3.00	3/4-10	100-110 ft. lbs

^{*}Model 900 utilizes two bolt clamp design



SPLINE TYPE IDENTIFIER CODE:

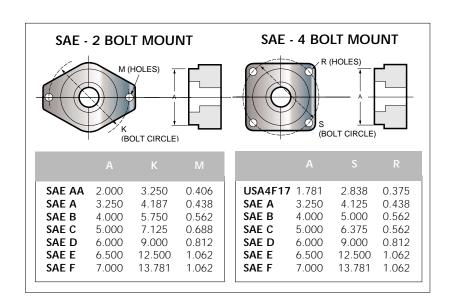
A = Spline

B = Steel Bushing Spline

C = Clamp Type

SPECIFICATIONS

NUMBER OF TEETH	SPLINE SIZE PITCH	SPLINE CODE	PRESSURE ANGLE DEGREE	SAE DESIGN	MAJOR DIAMETER (inches)	STANDARD COUPLING MODEL SIZES	STEEL BUSHED STANDARD MODEL SIZES	SIZE GROUP
9	16/32	0916	30°	А	.625	100-400	200-400	А
13	8/16	1308	30°	D,E	1.750	400-700	600-800	В
13	16/32	1316	30°	В	.875	100-500	300-500	А
14	12/24	1412	30°	С	1.250	200-700	500-700	В
15	16/32	1516	30°	BB	1.000	300-500	400-600	А
15	8/16	1508	30°	F	2.000	500-700	800	С
17	12/24	1712	30°	CC	1.500	500-700	500-800	В
21	16/32	2116	30°		1.375	300-600	500-600	В
23	16/32	2316	30°		1.500	500-600	500-700	В
27	16/32	2716	30°		1.750	500-700	600-800	В
40	16/32	4016	30°		2.5625	NONE	NONE	С





Horizontal Pump/ Motor Mounts

HOW TO ORDER:

Order by using the "Mount Number" in the charts:

EXAMPLE:	M056 45 2A
Motor frame siz	ze
Length ———	
Pump size ——	

NEMA FRAMES 56C, 143TC/145TC, 182UC/184UC

Horizontal Mounting (or Vertical Mounting - Option A -Please refer to page 48)

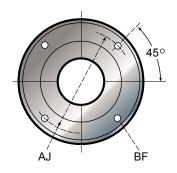
MOTOR	END DA	TA					RADIAL CLEA	ARANCE "	Z" = 4.15				
AJ BF	BD AK	(
5.88 1176	6.81 K501	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL XM	MOUNT NO. CL	XM	MOUNT NO.	CL	XM
USA4F17	4 Bolt	1.782			2.84	5/16-18	M056354F	2.81 3.50	M056424F 3.5	6 4.25	M056454F	3.81	4.50
SAE AA	2 Bolt	2.001	3.25	3/8-16			M056352AA	2.81 3.50	M056422AA 3.5	6 4.25	M056452AA	3.81	4.50
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16	M056352A	2.81 3.50	M056422A 3.5	6 4.25	M056452A	3.81	4.50
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	M0563580M	2.81 3.50	M0564280M 3.5	6 4.25	M0564580M	3.81	4.50
80 S4	4 Bolt	80.01mm			100mm	5/16-18	M0563580MS	2.81 3.50	M0564280MS 3.5	6 4.25	M0564580MS	3.81	4.50
PUMP FLANGE PUMP END DATA 3.50 LENGTH 4.25 LENGTH 4.50 LENGTH													

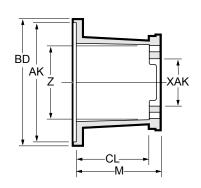
MOTOR E	ND DATA BD AK	RADIAL CLEARANCE "Z" = 4.10											
698 1176 K	,8° 1,50°	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM	
USA4F17	4 Bolt	1.782			2.84	5/16-18	M056504F	3.93	5.00	M056524F	3.93	5.25	
SAE AA	2 Bolt	2.001	3.25	3/8-16			M056502AA	3.93	5.00	M056522AA	3.93	5.25	
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16	M056502A	3.93	5.00	M056522A	3.93	5.25	
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	M056502B	3.93	5.00	M056522B	3.93	5.25	
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	M0565080M	3.93	5.00	M0565280M	3.93	5.25	
80 S4	4 Bolt	80.01mm			100mm	5/16-18	M0565080MS	3.93	5.00	M0565280MS	3.93	5.25	
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16	M05650100M	3.93	5.00	M05652100M	3.93	5.25	
PUMP F	LANGE		PUMP END DATA 5.00 LENGTH 5.25 LENGTH										

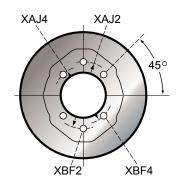
Contact Hydro-Craft for quotes on gas engine and steel mounts











NEMA FRAMES 182TC-256TC, 254UC/256UC

Horizontal Mounting (or Vertical Mounting - Option A)

MOTOR E							RADIAL CLE	ARANC	E "Z" =	= 5.00					
AJ BF															
125 1132	900 8701	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO. C	L I	М	MOUNT NO.	CL	М	MOUNT NO.	CL	М
USA4F17	4 Bolt	1.782			2.84	5/16-18	M182474F	4.00	4.75	M182504F	4.31	5.00	M182524F	4.31	5.25
SAE AA	2 Bolt	2.001	3.25	3/8-16			M182472AA	4.00	4.75	M182502AA	4.31	5.00	M182522AA	4.31	5.25
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16	M182472A	4.00	4.75	M182502A	4.31	5.00	M182522A	4.31	5.25
80 A2/B4	2(4) Bolt	80.01 mm	109 mm	3/8-16	103 mm	5/16-18	M1824780M	4.00	4.75	M1825080M	4.31	5.00	M1825280M	4.31	5.25
80 S4	4 Bolt	80.01 mm			100 mm	5/16-18	M1824780MS	4.00	4.75	M1825080MS	4.31	5.00	M1825280MS	4.31	5.25
PUMP FL	ANGE		80.01 mm 100 mm 5/16-18 M1824780MS 4.00 4.75 M1825080MS 4.31 5.00 M1825280MS 4.31 5.25 PUMP END DATA 4.75 LENGTH 5.00 LENGTH 5.25 LENGTH												

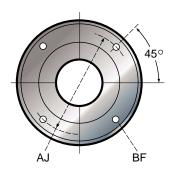
MOTOR EN	ND DATA BD AK					RAD	IAL CLEARANCE "Z	Z" = 5.00				
125 1/32	300 8501	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL M		MOUNT NO.	CL M	
USA4F17	4 Bolt	1.782			2.84	5/16-18	M182584F	5.06	5.81	M182684F	6.06	6.81
SAE AA	2 Bolt	2.001	3.25	3/8-16			M182582AA	5.06	5.81	M182682AA	6.06	6.81
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16	M182582A	5.06	5.81	M182682A	6.06	6.81
80 A2/B4	2(4) Bolt	80.01 m	m 109 mm	3/8-16	103 mm	5/16-18	M1825880M	5.06	5.81	M1826880M	6.06	6.81
80 S4	4 Bolt	80.01 m	m		100 mm	5/16-18	M1825880MS	5.06	5.81	M1826880MS	6.06	6.81
PUMP F	LANGE		PL	JMP END [DATA		5.81 LE	NGTH		6.81 LEN	NGTH	

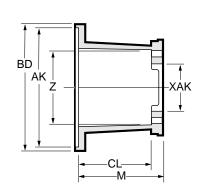
NEMA FRAMES 182TC-256TC, 254UC/256UC Horizontal Mounting

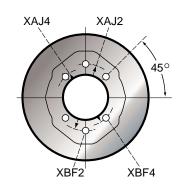
										<u> </u>					
MOTOR E	ND DATA						RADIAL CLEA	RANCE	"Z" =	5.00					
AJ BF	BD AK														
125 1132	90 8501	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL I	M	MOUNT NO.	CL	М	MOUNT NO.	CL	M
SAE-B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	M182522B	4.50	5.25	M182582B	5.06	5.81	M182602B	5.25	6.00
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	M182522C	4.50	5.25	M182582C	5.06	5.81	M182602C	5.25	6.00
100 A2/B4	2(4) Bolt	100.01 mm	140 mm	1/2-13	125 mm	3/8-16	M18252100M	4.50	5.25	M18258100M	5.06	5.81	M18260100M	5.25	6.00
125 A2/B4	2(4) Bolt	125.01 mm	180 mm	5/8-11	160 mm	1/2-13	M18252125M	4.50	5.25	M18258125M	5.06	5.81	M18260125M	5.25	6.00
PUMP FL	ANGE		PUMP	END DA	λTA		5.25 LEN	IGTH		5.81 LENGT	Н		6.00 LENGTH		

MOTOR EI	ND DATA						RADIAL CLE	ARANCE "Z" =	5.00					
AJ BF	BD AK													
125 1132	900 8201	XAK	XAJ2	XBF2 X	AJ4 XBF	4	MOUNT NO.	CL M	MOUNT NO.	CL	М	MOUNT NO.	CL	М
SAE-B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	M182682B	6.06 6.81	M182702B	6.25	7.00			
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	M182682C	6.06 6.81	M182702C	6.25	7.00			
SAE D	2(4) Bolt	6.001	9.00	3/4-10	9.00	3/4-10								
100 A2/B4	2(4) Bolt	100.01 mi	m 140 mm	1/2-13	125 mm	3/8-16	M18268100M	6.06 6.81	M18270100M	6.25	7.00			
125 A2/B4	2(4) Bolt	125.01 mi	m 180 mm	5/8-11	160 mm	1/2-13	M18268125M	6.06 6.81	M18270125M	6.25	7.00			
PUMP FLA	ANGE		PUMP	END DA	TA		6.81 LEN	NGTH	7.00 LEN	IGTH		7.50 LE	NGTH	

Contact Hydro-Craft for quotes on gas engine and steel mounts







NEMA FRAMES 284TC/TSC - 286TC/TSC, 284UC/286UC - Horizontal Mounting

MOTOR E	ND DATA	1					RADIAL	CLE	ARAN	CE "Z" = 6.40					
900 1137	10 10 iso,	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	М	MOUNT NO.	CL	M
SAE A	2(4) Bolt	3.25	4.19	3/8-16	4.12	3/8-16	M284682A	6.00	6.88	M284752A	6.62	7.50	M284862A	7.81	8.69
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	M284682B	6.00	6.88	M284752B	6.62	7.50	M284862B	7.81	8.69
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	M284682C	6.00	6.88	M284752C	6.62	7.50	M284862C	7.81	8.69
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	M2846880M	6.00	6.88	M2847580M	6.62	7.50	M2848680M	7.81	8.69
80 S4	4 Bolt	80.01mm			100mm	5/16-18	M2846880MS	6.00	6.88	M2847580MS	6.62	7.50	M2848680MS	7.81	8.69
100 A2/B4	2(4) Bolt	100.01mr	n 140mm	1/2-13	125mm	3/8-16	M28468100N	6.00	6.88	M28475100M	6.62	7.50	M28486100M	7.81	8.69
125 A2/B4	2(4) Bolt	125.01mr	n 180mm	5/8-11	160mm	1/2-13	M28468125N	1 6.00	6.88	M28475125N	6.62	7.50	M28486125M	7.81	8.69
PUMP FL	ANGE		PUMF	P END I	DATA		6.88 LEI	NGTH		7.50 LEN	IGTH		8.69 LEN	IGTH	

NEMA FRAMES 324TC/TSC - 405TC/TSC, 324UC/USC-405UC/USC - Horizontal Mounting

MOTOR EI	ND DATA BD AK					RADIA	L CLEARANCE "Z"	= 7.74	4			
160 J/BJ	180 Vidy	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	М
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	M324762B	6.75	7.62	M324872B	7.88	8.75
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	M324762C	6.75	7.62	M324872C	7.88	8.75
SAE D	2(4) Bolt	6.001	9.00	3/4-10	9.00	3/4-10	M324762D	6.75	7.62	M324872D	7.88	8.75
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16	M32476100M	6.75	7.62	M32487100M	7.88	8.75
125 A2/B4	2(4) Bolt	125.01mm	180mm	5/8-11	160mm	1/2-13	M32476125M	6.75	7.62	M32487125M	7.88	8.75
160 A2/B4	2(4) Bolt	160.01mm	224mm	3/4-10	200mm	5/8-11	M32476160M	6.75	7.62	M32487160M	7.88	8.75
180 B4	4 Bolt	180.01mm			224mm	5/8-11	M32476180M	6.75	7.62	M32487180M	7.88	8.75
PUMP I	(/		PUM	P END D	ATA		7.62 LEI	NGTH		8.75 LE	NGTH	

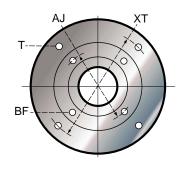
NEMA FRAMES 444TC/TSC - 449TC/TSC, 444UC/USC-445UC/USC - Horizontal Mounting

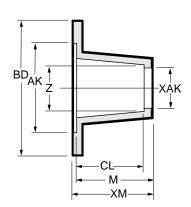
MOTOR I	END DATA F BD AK				R/	ADIAL CLEAR	ANCE "Z" = 10.7	5	
1/4'S 5/1	18.5 16.5	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	M444882C	7.12	8.88
SAE D	2(4) Bolt	6.001	9.00	3/4-10	9.00	3/4-10	M444882D	7.12	8.88
SAE E	2 Bolt	6.501	12.50	1-8			M444882E	7.12	8.88
PUM	P FLANGE		PUN	IP END DA	ATA		8.88 LEN	IGTH	

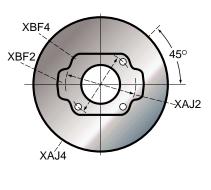
Contact Hydro-Craft for quotes on gas engine and steel mounts











NEMA FRAMES 56TC, 143TC/145TC, 182TC/256TC, 182UC/184UC, 213UC/256UC

Vertical Mounting - Option B - Please refer to page 48

Verticariv		, 0000				10 045	,								
MOTOR	END DAT	'A					RADIAL C	LEAR	ANCE	"Z" = 4.15					
AJ B	F BD A	K													
5.98 1176	6.87 K.507	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
USA4F17	4 Bolt	1.782			2.84	5/16-18	M056354FV	2.81	3.50	M056424FV	3.56	4.25	M056454FV	3.81	4.50
SAE AA	2 Bolt	2.001	3.25	3/8-16			M056352AAV	2.81	3.50	M056422AAV	3.56	4.25	M056452AAV	3.81	4.50
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16	M056352AV	2.81	3.50	M056422AV	3.56	4.25	M056452AV	3.81	4.50
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	M0563580MV	2.81	3.50	M0564280MV	3.56	4.25	M0564580MV	3.81	4.50
80 S4	4 Bolt	80.01mm			100mm	5/16-18	M056580MSV	2.81	3.50	M0564280MSV	3.56	4.25	M0564580MSV	3.81	4.50
PUMP FL	A2/B4 2(4) Bolt 80.01mm 109mm 3/8				DATA		3.50 LEI	NGTH		4.25 LEN	GTH		4.50 LEN	IGTH	

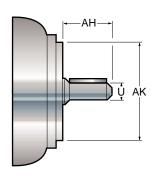
MOTOR I							RADIAL CLEARA	NCE "	Z" = 4.1	0		
5.88 1176	281 A501	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
USA4F17	4 Bolt	1.782			2.84	5/16-18	M056504FV	3.93	5.00	M056524FV	3.93	5.25
SAE AA	2 Bolt	2.001	3.25	3/8-16			M056502AAV	3.93	5.00	M056522AAV	3.93	5.25
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16	M056502AV	3.93	5.00	M056522AV	3.93	5.25
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	M056502BV	3.93	5.00	M056522BV	3.93	5.25
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	M0565080MV	3.93	5.00	M0565280MV	3.93	5.25
80 S4	4 Bolt	80.01mm			100mm	5/16-18	M0565080MSV	3.93	5.00	M0565280MSV	3.93	5.25
100 A2/B4	2(4)Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16	M05650100MV	3.93	5.00	M05652100MV	3.93	5.25
PUMP FL	ANGE		PUMF	P END D	АТА		5.00 LEN	IGTH		5.25 LE	NGTH	

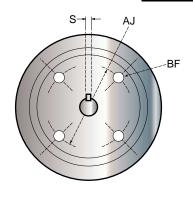
Note: Verticle and horizontal welded steel mounts available. Please contact Hydro-Craft for more information.

Contact Hydro-Craft for quotes on gas engine and steel mounts









NEMA 'C' Motor

U-FRAME DIMENSIONS

	182UC 184UC	213UC 215UC	254UC 256UC	284UC 286UC	324USC 326USC	324UC 326UC	364USC 365USC	364UC 365UC	404USC 405USC	404UC 405UC		444UC 445UC
АН	2.125	2.75	3.50	4.625	3.00	5.375	3.50	6.125	4.00	6.875	4.00	8.375
U	7/8	1-1/8	1-3/8	1-5/8	1-5/8	1-7/8	1-7/8	2-1/8	2-1/8	2-3/8	2-1/8	2-7/8
S	3/16	1/4	5/16	3/8	3/8	1/2	1/2	1/2	1/2	5/8	1/2	3/4
AK	4.50	8.50	8.50	10.50	12.50	12.50	12.50	12.50	12.50	12.50	16.00	16.00
AJ	5.875	7.25	7.25	9.00	11.00	11.00	11.00	11.00	11.00	11.00	14.00	14.00
BF	3/8-16	1/2-13	1/2-13	1/2-13	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11
HORSE	POWER R	ATED @ 1	750 RPM				•	•				
MIN.	1	3	7.5	15	25	25	40	40	60	60	125	125
MAX.	2	5	10	20	30	30	50	50	75	75	150	150

T-FRAME DIMENSIONS

	056C	143TC 145TC	182TC 184TC	213TC 215TC	254TC 256TC	284TSC 286TSC	284TC 286TC		324TC 326TC	364TSC 365TSC			404TC 405TC		444TC 449TC
AH	2.062	2.125	2.625	3.125	3.75	3.00	4.375	3.50	5.00	3.50	5.62	4.00	7.00	4.50	8.25
U	5/8	7/8	1-1/8	1-3/8	1-5/8	1-5/8	1-7/8	1-7/8	2-1/8	1-7/8	2-3/8	2-1/8	2-7/8	2-3/8	3-3/8
S	3/16	3/16	1/4	5/16	3/8	3/8	1/2	1/2	1/2	1/2	5/8	1/2	3/4	5/8	7/8
AK	4.50	4.50	8.50	8.50	8.50	10.50	10.50	12.50	12.50	12.50	12.50	12.50	12.50	16.00	16.00
AJ	5.875	5.875	7.25	7.25	7.25	9.00	9.00	11.00	11.00	11.00	11.00	11.00	11.00	14.00	14.00
BF	3/8-16	3/8-16	1/2-13	1/2-13	1/2-13	1/2-13	1/2-13	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11
HORSE	POWE	RATED	@ 1750	RPM				•	•	•	•		•	•	
MIN.	1/4	1	3	7.5	15	25	25	40	40	60	60	100	100	150	150
MAX.	1/2	2	5	10	20	30	30	50	50	75	75	125	125	200	200

Cast Aluminum Mounts

CAST ALUMINUM MOUNTS are permanent mold cast of lightweight, high strength aluminum alloy and incorporate many unique design features.

Custom molded OSHA orange coupling access covers are included for mounts larger than motor group size 056.

These covers are quickly and securely retained via a lip-tab on one end and a single self-tapping screw on the other.

Horizontal mounts are supplied with a pre-cast drain hole for residual fluids. This unique feature aids in quick detection of leaky seals and other trouble areas.

Using Hydro-Crafts Mounts ensures a lightweight, high strength, precision mount for efficient assembly, quiet operation, accurate shaft alignment and complete coupling concealment.

Horizontal Pump/Motor Mounts

Hydro-Crafts HORIZONTAL PUMP/MOTOR MOUNTS are available for mounting NEMA C 'face motors in frame sizes 56C through 449TSC to most SAE and Metric 2 and 4 bolt pump flanges.

A MOUNT KIT is included which contains all bolts and washers required to attach the pump and motor to the mount.

Contact Hydro-Craft for quotes on gas engine and steel mounts





NEMA FRAME 56C THRU 145TC - Vertical Mounting

OPTION A

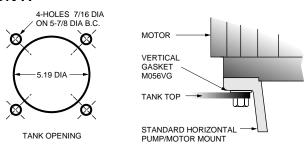


ILLUSTRATION B

This economical vertical mounting option allows Tank Top Drop-Thru mounting for ease of assembly and utilizes the standard horizontal mount and a sealing gasket.

To order OPTION A, specify the Horizontal Pump/Motor Mount number from page 43 and Vertical Gasket number M056VG.

OPTION B

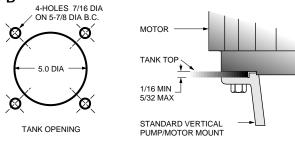


ILLUSTRATION C

This mounting option requires inside tank access to position the mount/pump sub-assembly through the tank top opening.

To order OPTION B, specify the Vertical Pump/Motor Mount number from page 46 followed with the 'V' as shown on page 46. No gasket is required with this mounting option.

NEMA FRAME 182TC THRU 256TC - Vertical Mounting

OPTION A

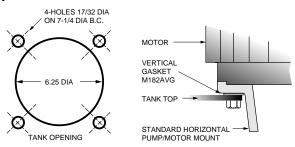


ILLUSTRATION D

This mounting option offers an economical alternative to OPTION B, but is available only with SAE-A and smaller pump flanges . OPTION A utilizes the standard horizontal mount and a sealing gasket.

To order Option A, specify the Horizontal Pump/Motor Mount number from page 44 and Vertical Gasket number M182AVG.



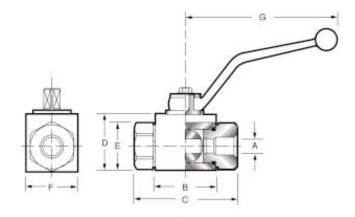


Hydraulic Ball Valves

2-WAY BLOCK BODY THREADED

- Carbon steel construction with Zinc Dichromate plating
- 316 stainless steel is available
- Unrestricted bore up to 1" size
- Maximum working pressure of up to 7250 psi
- POM seats and Buna-N o-rings standard on carbon steel valves
- Optional seal material is available for extreme temperature applications and fluid compatibility, contact Hydro-Craft®

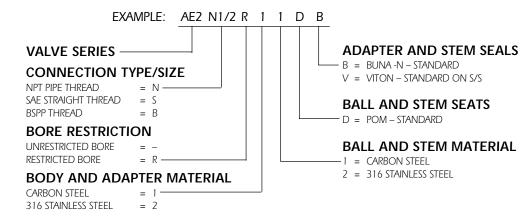




SPECIFICATIONS

NPT	SAE	PSI MAX	A BORE	В	С	D	Е	F	G	WEIGHT LBS
AE2 N1/4	AE2 S#4	7250	.24	1.65	2.80	1.38	.55	1.18	4.33	1.1
AE2 N3/8	AE2 S#6	7250	.39	1.73	2.87	1.57	.67	1.38	4.33	1.4
AE2 N1/2	AE2 S#8	7250	.51	1.89	3.27	1.69	.71	1.46	4.33	1.7
AE2 N3/4	AE2 S#12	5800	.79	2.44	3.74	2.17	.91	1.77	7.09	3.1
AE2 N1	AE2 S#16	5075	.98	2.60	4.45	2.56	1.14	2.17	7.09	4.7
AE2 N1-1/4R	AE2 S#20R	5075	.98	2.60	4.45	2.56	1.14	2.17	7.09	5.0
AE2 N1-1/2R	AE2 S#24R	5075	.98	2.60	4.88	2.56	1.14	2.17	7.09	5.2

HOW TO ORDER Build an ordering code, as in example below:



Locking Kit is available: **LK6** 1/4"-1/2" **LK20** 3/4"-2"

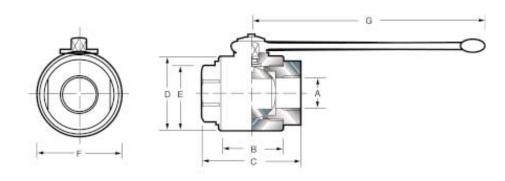




Hydraulic Ball Valves

2-WAY ROUND BODY THREADED

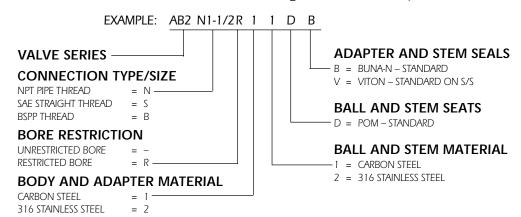
- Carbon steel construction with Zinc Dichromate plating
- 316 stainless steel is available
- Unrestricted bore up to 2" size
- Maximum working pressure of up to 5075 psi
- POM seats and Buna-N o-rings standard on carbon steel valves
- Optional seal material is available for extreme temperature applications and fluid compatibility, contact Hydro-Craft®



SPECIFICATIONS

NPT	SAE	PSI MAX	A BORE	В	С	D	Е	F	G	WEIGHT LBS
AB2 N1-1/4	AB2 S#20	5075	1.26	4.53	3.74	3.25	1.65	3.46	11.69	8.3
AB2 N1-1/2	AB2 S#24	5075	1.57	5.16	4.25	3.86	1.89	4.02	11.69	12.5
AB2 N2	AB2 S#32	5075	1.97	5.51	4.53	4.06	2.03	4.29	11.69	14.6

HOW TO ORDER Build an ordering code, as in example below:



Locking Kit is available: **LK6** 1/4"-1/2" **LK20** 3/4"-2"



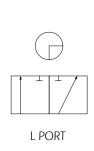


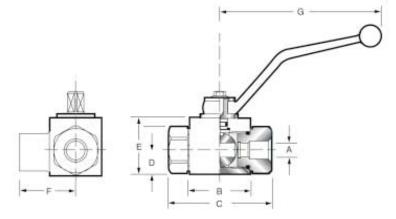
Hydraulic Ball Valves

3-WAY BLOCK BODY THREADED

- Carbon steel construction with Zinc Dichromate plating
- 316 stainless steel is available
- Maximum working pressure of up to 5800 psi
- POM seats and Buna-N o-rings standard on carbon steel valves
- Optional seal material is available for extreme temperature applications and fluid compatibility, contact Hydro-Craft®
- · Optional T-Port is available, contact Hydro-Craft



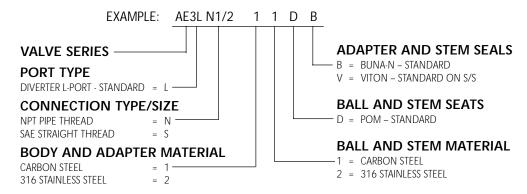




SPECIFICATIONS

NPT	SAE	PSI MAX	A BORE	В	С	D	Е	F	G	Н	WEIGHT LBS
AE3L N1/4	AE3L S#4	5800	.24	1.65	2.80	.55	1.38	1.32	1.18	4.31	1.1
AE3L N3/8	AE3L S#6	5800	.39	1.73	2.87	.67	1.57	1.46	1.38	4.31	1.5
AE3L N1/2	AE3L S#8	5075	.51	1.89	3.27	.71	1.69	1.57	1.46	4.31	1.8
AE3L N3/4	AE3L S#12	5075	.79	2.44	3.74	.91	2.17	2.05	1.77	7.00	3.3
AE3L N1	AE3L S#16	5075	.98	2.60	4.45	1.14	2.56	2.36	2.17	7.00	5.2

HOW TO ORDER Build an ordering code, as in example below:



Locking Kit is available: **LK6** 1/4"-1/2" **LK20** 3/4"-2"

Only pressurize center port. Side ports should not be pressurized or exposed to backpressure that is greater than inlet pressure, as internal leaking through the valve will occur. For applications requiring side port pressure, contact Hydro-Craft.



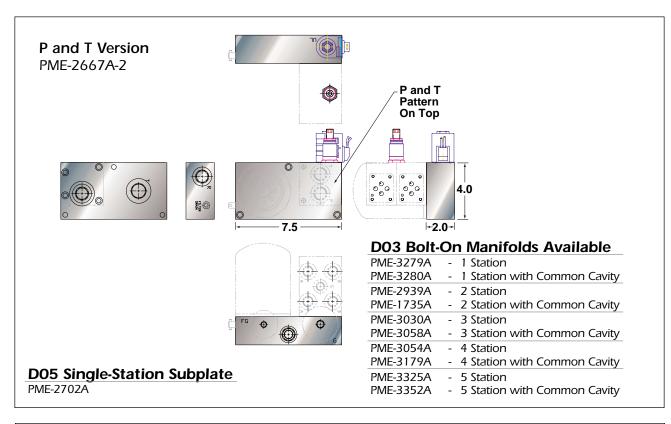


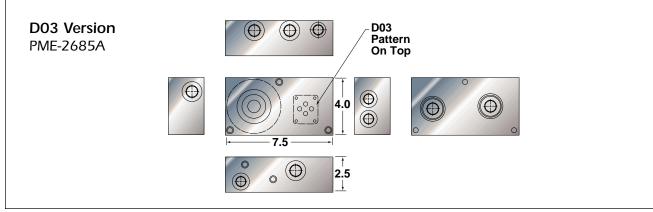


Filter Manifolds

New versatile manifolds from Hydro-Craft® will reduce your build cost and increase your overall flexibility.

- Return filter head with filter and check port (1"x12 threads)
- Gauge ports for filter and working pressure
- Manual filter drain
- Common relief or unloading valve cavity and auxiliary return port
- P & T manifold will accommodate D03 1 to 5 station or D05 single station
- Return manifold may be used in horizontal or vertical applications
- Includes o-ring seals to seal manifold to mating surface
- CUSTOM ORDER Please contact Hydro-Craft





Manifolds

Many standard manifolds are available. We now stock various sizes of cover plates, subplates, tapping plates and parallel manifolds. Hydro-Craft® will inventory our products in the levels necessary to service our customers requirements.

We have the ability to design custom manifolds from a circuit drawing. Hydro-Craft has the engineering and manufacturing capabilities which enable us to manufacture manifolds for most style cartridge valves and DIN cavities. Send as much information and drawings as possible and we will provide a quote to meet your requirements.

If requested, we will engrave your part number in the [®] part at no additional charge, for quantities of 100 or more. Please consult us if you have an interest in putting your logo on the part.

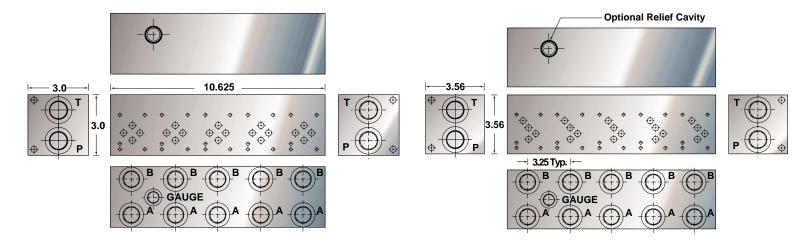


DO3 Parallel Manifold

DO5 Parallel Manifold

1 *	2	3	4	5	6	7	Number of Stations	1*	2	3	4	5	6
2.13	4.25	6.38	8.50	10.63	12.75	14.88	Overall Length	3.25	6.50	9.75	13.00	16.25	19.50

*No gauge port available



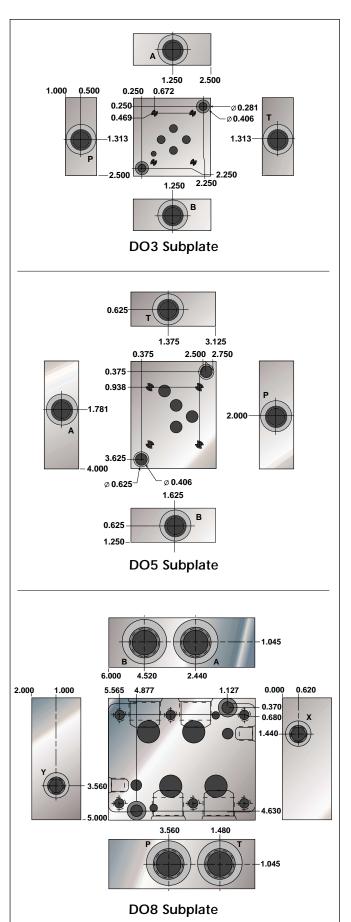
STANDARD PORT THREADS

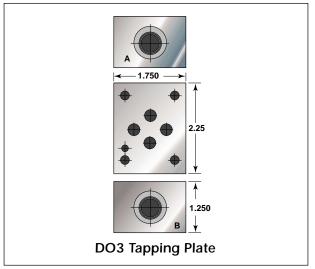
	DO3	DO5	DO8 P T
P&T	1=#10 SAE	#12 SAE	#16 SAE #20 SAE
A&B	1= #8 SAE	#8 SAE	#16 SAE
GAUGE	1= #6 SAE	#6 SAE	#6 SAE

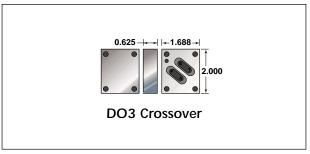
Custom threads are available on custom run manifolds, please contact Hydro-Craft for details

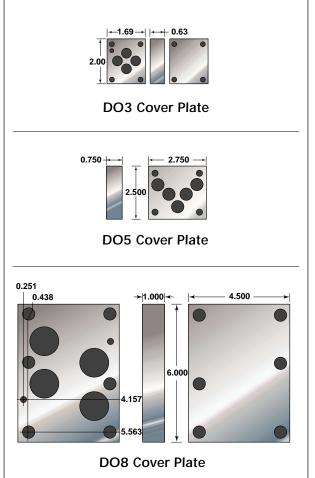










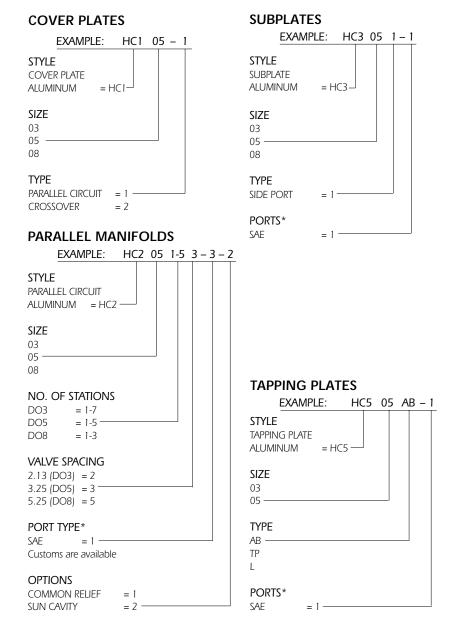




Manifolds

HOW TO ORDER

Choose part number from the standard list to the right, or select appropriate symbols and build an ordering code, as in examples shown below:



*SAE is a stocked item, all other	er types are special order
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PART NUMBER	DESCRIPTION
HC103	DO3 Parallel
HC103-2	DO3 Crossover
HC105	DO5 Parallel
HC108	DO8 Parallel
PARALLEL N ALUMINUM	
HC20312-1	DO3 Single Sta.
HC20312-1-1	DO3 Single Sta. w/Common Cavity
HC20312-1-2	DO3 Single Sta. w/Sun Cavity
HC20322-1	DO3 2 Sta.
HC20322-1-1	DO3 2 Sta. w/Common Cavity
HC20322-1-2	DO3 2 Sta. w/Sun Cavity
HC20332-1	DO3 3 Sta.
HC20332-1-1	DO3 3 Sta. w/Common Cavity
HC20332-1-2	DO3 3 Sta. w/Sun Cavity
HC20342-1	DO3 4 Sta.
HC20342-1-1	DO3 4 Sta. w/Common Cavity
HC20342-1-2	
HC20352-1	DO3 5 Sta.
HC20352-1-1	DO3 5 Sta. w/Common Cavity
HC20352-1-2	DO3 5 Sta. w/Sun Cavity
HC20362-1	DO3 6 Sta.
HC20362-1-1	DO3 6 Sta. w/Common Cavity
HC20362-1-2	DO3 6 Sta. w/Sun Cavity
HC20372-1	DO3 7 Sta.
HC20372-1-1	DO3 7 Sta. w/Common Cavity
HC20372-1-2	DO3 7 Sta. w/Sun Cavity
HC20513-1	DO5 Single Sta.
HC20513-1-1	DO5 Single Sta. w/Common Cavity
HC20513-1-2	DO5 Single Sta. w/Sun Cavity
HC20523-1	DO5 2 Sta.
HC20523-1-1	DO5 2 Sta. w/Common Cavity
HC20523-1-2	DO5 2 Sta. w/Sun Cavity
HC20533-1	DO5 3 Sta.
HC20533-1-1	DO5 3 Sta. w/Common Cavity
HC20533-1-2	DO5 3 Sta. w/Sun Capacity
HC20543-1	DO5 4 Sta.
HC20543-1-1	
HC20543-1-2	DO5 4 Sta. w/Sun Cavity
HC20553-1	DO5 5 Sta.
HC20553-1-1	DO5 5 Sta. w/Common Cavity
HC20553-1-2	DO5 5 Sta. w/Sun Cavity
11020000 1 2	DOS S Stat. W/Stati Cavity
- CLASS I - S	
HC3031-1	DO3 Side Ported SAE
HC3051-1	DO5 Side Ported SAE
HC3081-1	DO8 Side Ported SAE
- CLASS I - T	APPING PLATES
HC503AB-1	DO3 SAE AB Ports

Note: Please contact Hydro-Craft for updates to manifold standard list.





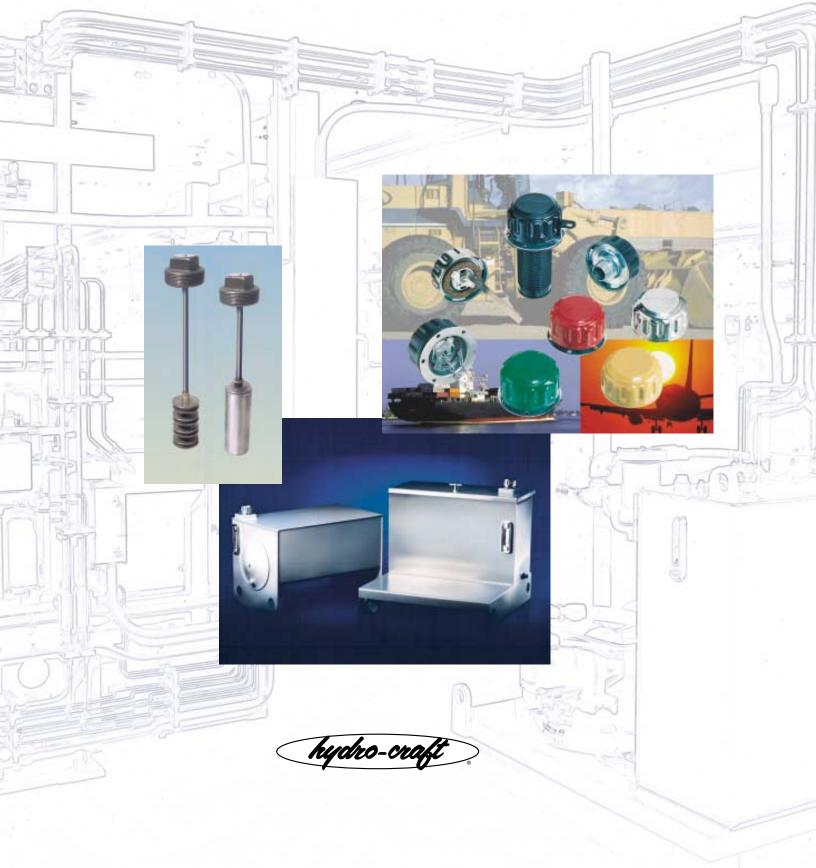
Fluid Power Formulas

AREA , square inches	=	.7854 x Diameter Squared
FORCE, pounds	=	Area x PSI
TONNAGE	=	Force 2000
SPEED, inches per minute	=	231 x GPM Area
DISPLACEMENT, cubic inches	=	Area x Stroke (inches)
STROKE TIME, seconds	=	60 x Stroke OR .2598 x Displacement Speed GPM
GPM , gallons per minute	=	Speed x Area OR 60 x Displacement 231 231 x Stroke Time
PSI , pounds per square inch	=	<u>Force</u> Area
HP , horsepower	=	<u>GPM x PSI x 231</u> OR GPM x PSI x .000583 33,000 x 12
(@ 83% efficiency, Pump input H	P = .7	x GPM, per 1000 PSI operating pressure)
RESERVOIR CAPACITY	=	Approximately three times pump GPM capacity
VELOCITY , feet per second	=	231 x GPM OR .3208 x GPM 12 x 60 x Area Area
Pump Inlet Velocity should be less Continuous Flow Velocity should Intermittent Flow Velocity should Infrequent Flow Velocity should In	l be le I be le	ss than 15 feet per second. ss than 20 feet per second.
TORQUE, foot pounds	=	PSI x Displacement per Revolution, cubic inches 2 x 3.1416 x 12
HP, horsepower	=	Torque x RPM 5252
ONE HP	=	33,000 foot pounds per minute x 746 WATTS = 42.4 BTU per minute
ONE GALLON	=	231 cubic inches
COMPRESSIBILITY OF OIL	=	.004 per 1,000 PSI
OIL WEIGHT	=	Approximately 7.5 pounds per gallon

HYDRO-CRAFT

Products & Accessories



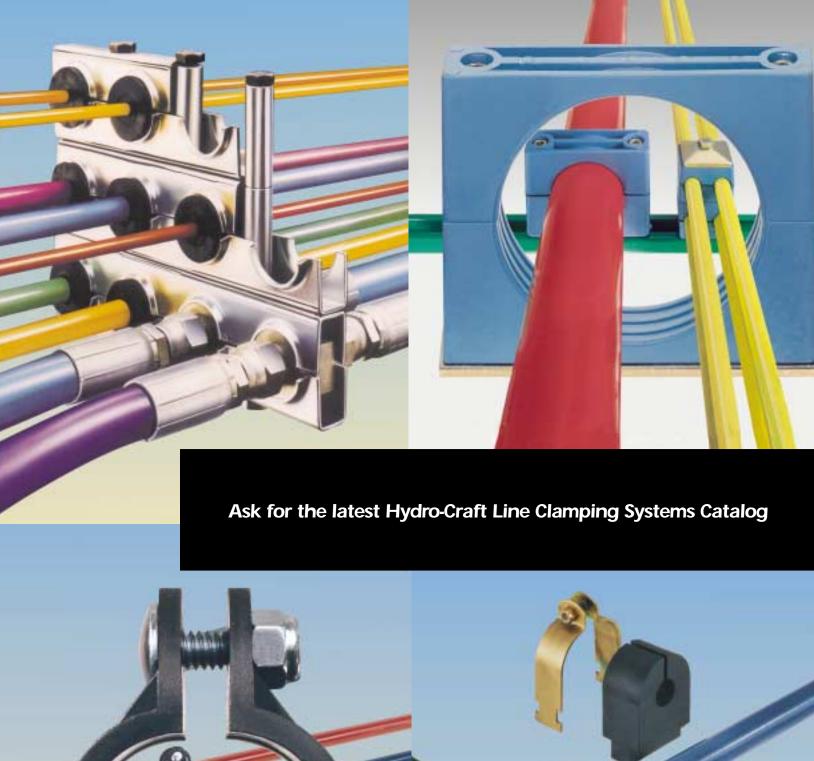


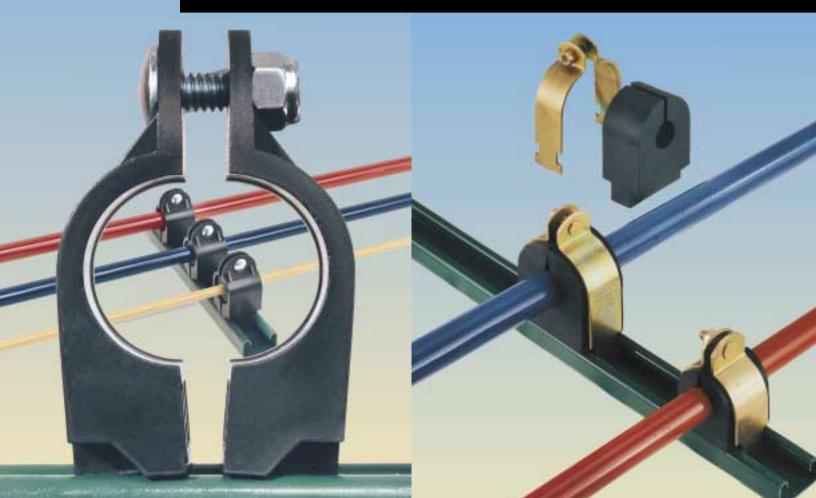


We Specialize in Custom Fabrication and Private Labeling













HYDRO-CRAFT INC.

Hydro-Craft was established in 1958 in a small shop in Detroit, Michigan as a manufacturer of quality hydraulic tanks. Over the years we have expanded our product line and our facilities. We currently have two state-of-the-art plants located in Rochester Hills, Michigan and Henderson, Nevada. From these two points, we can ship our product conveniently to any location worldwide.

The Hydro-Craft product line includes stock and custom hydraulic reservoirs, filler breather caps, sight level gages, flange kits, shock mounts, pump/motor mounts, manifolds, and many more hydraulic accessories.

The dedication to providing our customers with quality parts and service has only grown stronger over the years. We thank you for your interest in our products.

410 E. Paradise Hills Drive, Henderson, NV 89002 Tel (702) 566-3087 Fax (702) 566-9285

1821 Rochester Industrial Drive, Rochester Hills, Michigan 48309 Tel (248) 652-8100 Fax (248) 652-0343

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