

Valves & Manifolds



Grand Prix



Standard

Harken engineers rethought the status quo with our new patent-pending valves and manifolds. Our latest line is low profile, half the weight of most current styles, and Grand Prix versions are sculpted to further eliminate unnecessary material. We integrate pressure relief directly into each valve, letting you apply maximum power to some functions while protecting others with lower working loads.

USES

Single-acting, double-acting, and remote-release valves can be used with any hydraulically controlled system.

VALVES AND MANIFOLDS

Sculpted Grand Prix valves and manifolds are very lightweight and handle up to 10,000 psi while standard parts are designed for up to 5000 psi.

All components have a 2.1 gpm (8 L/min) minimum flow rate.

Harken patent-pending valves each have their own pressure relief, allowing you to individually limit power to the maximum working loads of mast and sail control functions. An integrated adjustable flow control on each valve lets you fine-tune the speed of release.

Valve handles have a tapered socket for a tight fit.

Double-acting valves with the same flow control and pressure relief characteristics as our single-acting valves are available. Use these for traveler controls and other functions that use twin or double-acting cylinders.

RELIEF VALVES

Manifold-mount and in-line relief valves protect and limit the maximum pressure of the entire system. Manifold-mount reliefs fit on any Harken standard or Grand Prix manifold. In-line reliefs work with any manual system.

REMOTE DUMP VALVES

Remote dump valves let you ease sail controls from key positions like the helm or rail. Opened by pull-cord or with the push of a button, use the valve as a full-flow quick-release or add an adjustable flow control to slow the speed of release.

MATERIALS

Valves, manifolds, and standard valve panels are made of Hardkote-anodized 6061-T6 aluminum and use stainless steel fittings.

Lightweight composite handles have a textured, contoured grip.

MAINTENANCE

Harken recommends a 3-micron high-pressure filter to protect your equipment. Regularly inspect visible components for material imperfections and the presence of oil outside the system. All service and repair should be done by a certified hydraulic technician. Valve seal and repair kits are available worldwide.

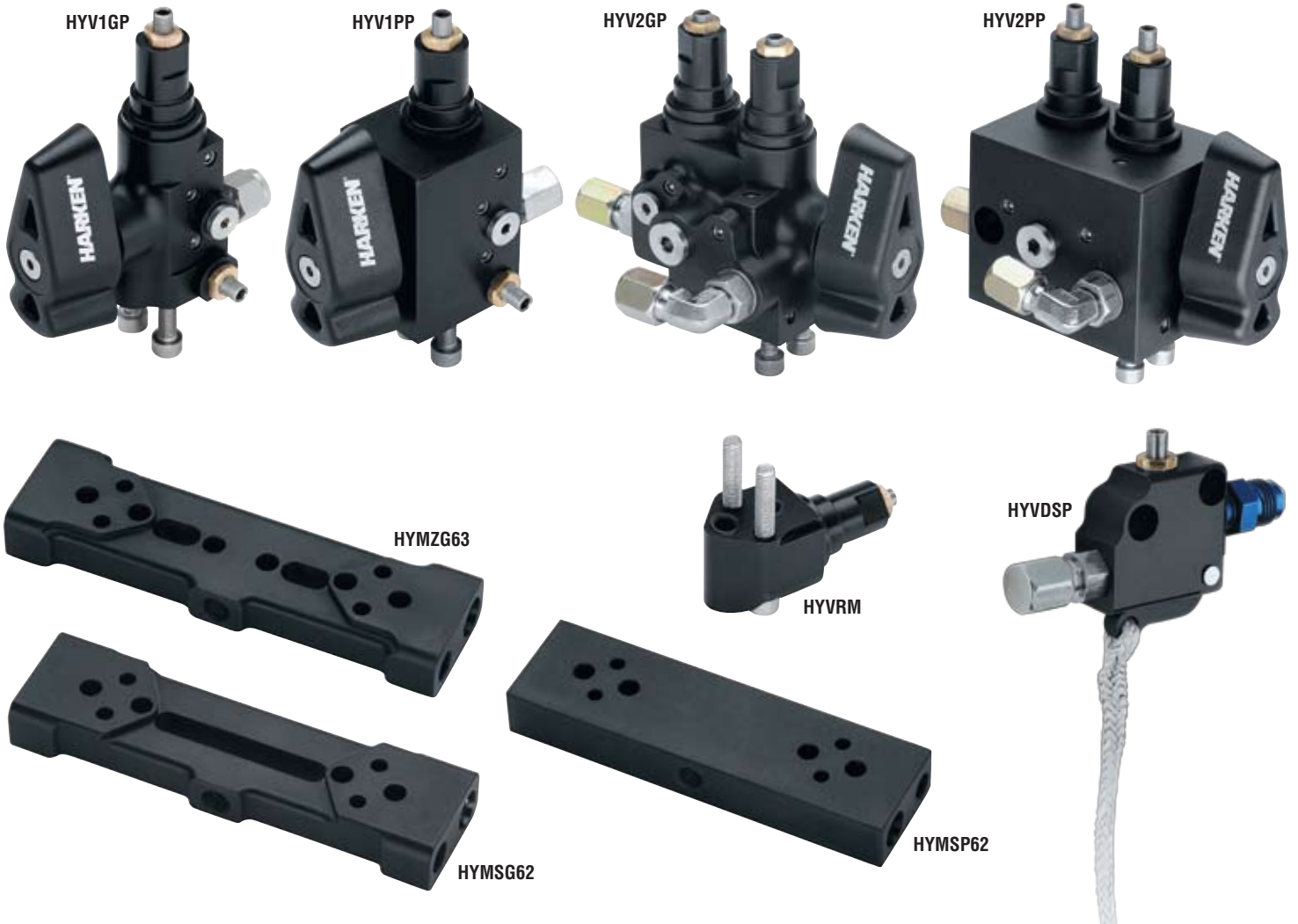


Single- and double-sided manifolds accommodate up to 9 valves.

Handles fit in any of 4 directions so valves inverted on double-sided manifolds can have the same open/closed positions and rotation direction.



6061-T6 aluminum valve panels are available with and without gauges for any of our manifold configurations. Also available in mirror-polished 316 stainless and clear-coated carbon.



Part No.	Description	Max pressure		Height		Width		Depth		Weight	
		psi	bar	in	mm	in	mm	in	mm	lb	kg
Valves											
HYV1PP	Single-acting panel mount valve	5000	345	3.9	100	1.9	47	2.6	66	0.7	0.31
HYV1PT	Single-acting thru deck mount valve	5000	345	3.9	100	1.9	47	3.7	95	0.7	0.34
HYV2PP	Double-acting panel mount valve	5000	345	3.9	100	2.5	63	3.7	95	1.6	0.75
HYV2PT	Double-acting thru-deck mount valve	5000	345	3.9	100	2.5	63	4.9	124	1.7	0.78
HYV1GP	Single-acting Grand Prix panel mount valve	10000	689	3.9	100	1.9	47	2.6	66	0.5	0.23
HYV1GT	Single-acting Grand Prix thru-deck mount valve	10000	689	3.9	100	1.9	47	3.7	95	0.6	0.26
HYV2GP	Double-acting Grand Prix panel mount valve	10000	689	3.9	100	2.5	63	3.7	95	1.0	0.45
HYV2GT	Double-acting Grand Prix thru-deck mount valve	10000	689	3.9	100	2.5	63	4.9	124	1.1	0.48
HYVDSPF	Remote dump valve/string pull/flow control	10000	689	2.4	60	1.7	42	0.7	19	0.2	0.08
HYVDPBF	Push-button dump valve/flow control	10000	689	3.8	97	2.2	56	2.75	70	0.3	0.15
HYVRI	Relief valve/inline	10000	689	1.4	36	1.0	25	3.0	75	0.2	0.08
HYVRM	Relief valve/manifold mount	10000	689	1.1	28	1.1	28	2.8	72	0.2	0.10
Manifolds											
HYMSP61	Single-sided manifold 1 place	5000	345	0.7	19	2.2	55	1.5	38	0.2	0.08
HYMSP62	Single-sided manifold 2 place	5000	345	0.7	19	5.4	137	1.5	38	0.5	0.22
HYMSP63	Single-sided manifold 3 place	5000	345	0.7	19	8.7	220	1.5	38	0.8	0.37
HYMSP64	Single-sided manifold 4 place	5000	345	0.7	19	11.9	302	1.5	38	1.1	0.51
HYMSP65	Single-sided manifold 5 place	5000	345	0.7	19	15.2	385	1.5	38	1.4	0.65
HYMSG61	Single-sided Grand Prix manifold 1 place	10000	689	0.7	19	1.7	42	1.5	38	0.1	0.05
HYMSG62	Single-sided Grand Prix manifold 2 place	10000	689	0.7	19	5.4	137	1.5	38	0.3	0.15
HYMSG63	Single-sided Grand Prix manifold 3 place	10000	689	0.7	19	8.7	220	1.5	38	0.5	0.22
HYMSG64	Single-sided Grand Prix manifold 4 place	10000	689	0.7	19	11.9	302	1.5	38	0.6	0.29
HYMSG65	Single sided Grand Prix manifold 5 place	10000	689	0.7	19	15.2	385	1.5	38	0.8	0.36
HYMVG63	Double-sided Grand Prix manifold 3 place	10000	689	0.7	19	5.4	137	1.5	38	0.3	0.16
HYMVG64	Double-sided Grand Prix manifold 4 place	10000	689	0.7	19	7.0	178	1.5	38	0.4	0.20
HYMVG65	Double-sided Grand Prix manifold 5 place	10000	689	0.7	19	8.7	220	1.5	38	0.5	0.24
HYMVG66	Double-sided Grand Prix manifold 6 place	10000	689	0.7	19	10.3	261	1.5	38	0.6	0.28
HYMVG67	Double-sided Grand Prix manifold 7 place	10000	689	0.7	19	11.9	302	1.5	38	0.7	0.32
HYMVG68	Double-sided Grand Prix manifold 8 place	10000	689	0.7	19	13.5	344	1.5	38	0.8	0.36
HYMVG69	Double-sided Grand Prix manifold 9 place	10000	689	0.7	19	15.2	385	1.5	38	0.9	0.39

Standard valves have -4 JIC port adapters. Grand Prix valves have plugs in all ports.

Ordering Valve Assemblies

Use this guide to configure your valve assembly order. Standard valve assemblies come with the "J" Port Fitting option, and Grand Prix assemblies come with "X" Port Fitting. For other fitting options, replace the last letter of the part number with your selection.

Valve Assembly Part Number

HYA2000RGXXXJ

Hydraulic Valve Assembly

Valves on manifold:

2_ _ _ = Number of single-acting valves on top

_0 _ _ = Number of double-acting valves on top

_ _0 _ = Number of single-acting valves on bottom

_ _ _0 = Number of double-acting valves on bottom

Relief:

X = No relief

R = Manifold relief

I = In-line relief

Valve/Manifold type:

G = Grand Prix/sculpted

P = Standard

Number of Gauges:

X = No gauges

G = One gauge for each valve

Panel type:

X = No panel, short shaft

T = No panel, long shaft

B = Black Hardkote-anodized aluminum panel

C = Clear-anodized aluminum panel

F = Carbon Fiber panel

S = 316 Stainless steel panel

Pump:

X = No pump

2 = 2-speed pump

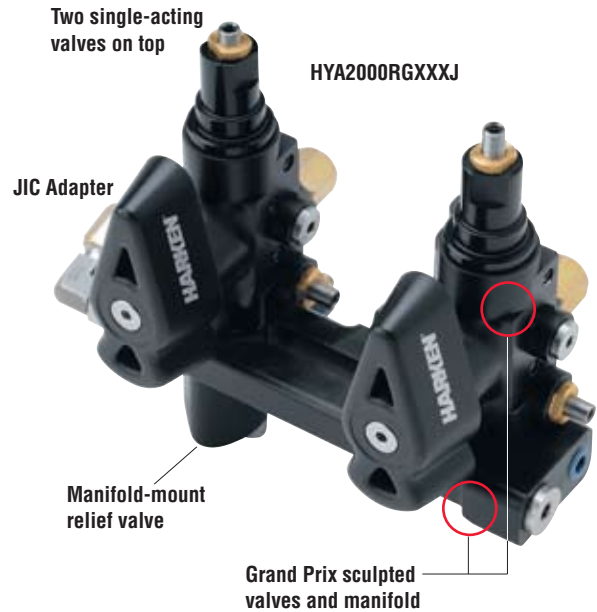
3 = 3-speed pump

Port fittings:

A = Stainless steel 1/4" A-lock pressure port and
-6 JIC anodized aluminum supply/return port

J = Stainless steel -4 JIC pressure port and
-6 brass hose barb supply/return port

X = Plugs on all ports*



*Other fittings available. Contact Harken.