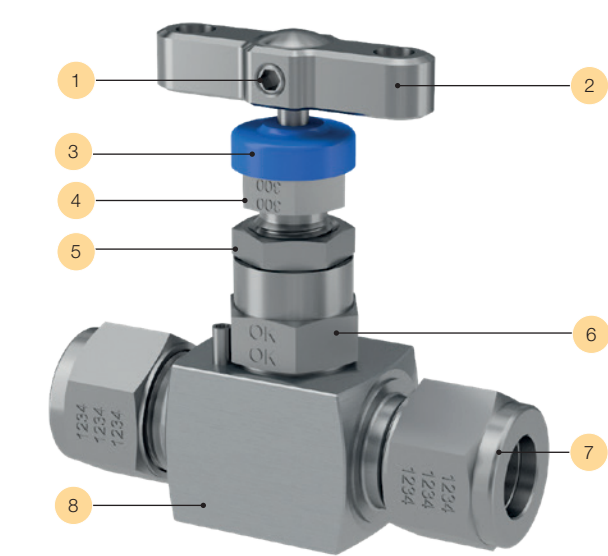


Hand Valves & Gauge Valves

Introduction

Following years of valve design and development, the Parker needle pattern hand and gauge valves range is one of the most comprehensive to be found. The valves are available to users from a wide market spectrum and are suitable for all industries and applications.

In combination with Parker A-LOK® or CPI™ compression tube fitting technologies, a superior advantage is gained allowing users to eliminate threaded connections and reduce leak paths whilst offering superior installation and operational performance.



Reference	Description
1	Locked grub screw
2	"T" bar handle
3	Dust cap
4	Gland packing adjuster
5	Gland adjuster lock nut
6	Valve bonnet
7	Integral A-LOK® connection
8	Body



Example shown: Multi-port gauge valve with Parker Superior Advantage integral A-LOK® tube fitting connections.

They are used in every industry in a wide range of applications - anywhere where accurate and secure control or metering of steam, air, gas, oil, water or other non-viscous liquids is required.

Utilising these same attributes, the Parker needle pattern gauge valves will be found controlling flow into a vast array of measurement and analysis instrumentation such as pressure gauges, transmitters, switches and more. With additional functionality these gauge valves also allow users to provide vent, drain or blowdown routes to their process and/or the ability to attach additional instruments and accessories.

We are confident you will find a valve style, type and connection option to suit your applications, but should you require something different please contact your local Parker support.



Example shown: Hand valve with Parker Superior Advantage integral CPI™ tube fitting connections.

Hand Valves - HNV Series

Straight pattern

HNV* - Integral A-LOK® connections - up to 6,000 PSI

			Inlet	Outlet	Dimension		
			A-LOK®	A-LOK®	A mm (inch)	B mm (inch)	C mm (inch)
			1/4"	1/4"	67.5 (2.66")	25.4 (1.00")	76.2 (3.00")
			1/2"	1/2"	76.2 (3.00")	25.4 (1.00")	76.2 (3.00")
			6mm	6mm	67.5 (2.66")	25.4 (1.00")	76.2 (3.00")
			12mm	12mm	76.2 (3.00")	25.4 (1.00")	76.2 (3.00")

HNV* - Integral CPI™ connections - up to 6,000 PSI

			Inlet	Outlet	Dimension		
			CPI™	CPI™	A mm (inch)	B mm (inch)	C mm (inch)
			1/4"	1/4"	67.5 (2.66")	25.4 (1.00")	76.2 (3.00")
			1/2"	1/2"	76.2 (3.00")	25.4 (1.00")	76.2 (3.00")
			6mm	6mm	67.5 (2.66")	25.4 (1.00")	76.2 (3.00")
			12mm	12mm	76.2 (3.00")	25.4 (1.00")	76.2 (3.00")

Integral connections - up to 10,000 PSI

A limited range of integral connections for 10,000 PSI is available as tube selection can adversely affect overall product ratings. Please consult your local Parker support.

HNV* - Female threaded - NPT

			Pressure (PSI)	Inlet	Outlet	Dimension		
			Female	Female	A mm (inch)	B mm (inch)	C mm (inch)	
6,000	1/4" NPT	1/4" NPT	54.0 (2.13")	28.6 (1.13")	79.4 (3.13")			
	3/8" NPT	3/8" NPT	54.0 (2.13")	28.6 (1.13")	79.4 (3.13")			
	1/2" NPT	1/2" NPT	63.5 (2.50")	28.6 (1.13")	79.4 (3.13")			
10,000	1/4" NPT	1/4" NPT	60.5 (2.38")	31.8 (1.25")	82.6 (3.25")			
	1/2" NPT	1/2" NPT	69.9 (2.75")	31.8 (1.25")	82.6 (3.25")			

HNV* - Male x Female threaded - NPT

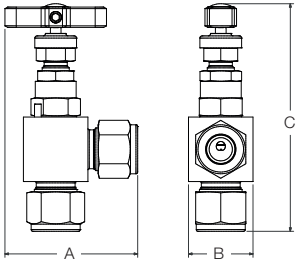
			Pressure (PSI)	Inlet	Outlet	Dimension		
			Male	Female	A mm (inch)	B mm (inch)	C mm (inch)	
6,000	1/4" NPT	1/4" NPT	57.8 (2.27")	28.6 (1.13")	79.4 (3.13")			
	1/2" NPT	1/2" NPT	73.0 (2.87")	28.6 (1.13")	79.4 (3.13")			
10,000	1/4" NPT	1/4" NPT	62.8 (2.47")	31.8 (1.25")	82.6 (3.25")			
	1/2" NPT	1/2" NPT	76.2 (3.00")	31.8 (1.25")	82.6 (3.25")			

- Notes:
- Dimension "A" given for finger-tight nuts and ferrules.
 - Dimension "C" in open position.

Hand Valves - HNAV Series

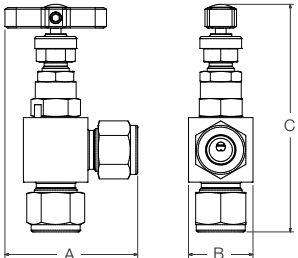
Angle pattern

HNAV* - Integral A-LOK® connections - up to 6,000 PSI



Inlet	Outlet	Dimension		
		A mm (inch)	B mm (inch)	C mm (inch)
1/4"	1/4"	53.5 (2.10)	25.4 (1.00)	94.0 (3.70)
1/2"	1/2"	58.8 (2.32)	28.6 (1.13)	101.6 (4.00)
6mm	6mm	53.5 (2.10)	25.4 (1.00)	94.0 (3.70)
12mm	12mm	58.8 (2.32)	28.6 (1.13)	101.6 (4.00)

HNAV* - Integral CPI™ connections - up to 6,000 PSI

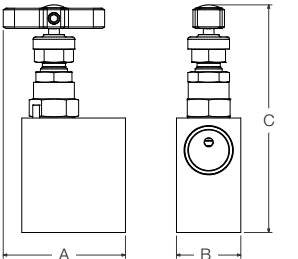


Inlet	Outlet	Dimension		
		A mm (inch)	B mm (inch)	C mm (inch)
1/4"	1/4"	53.5 (2.10)	25.4 (1.00)	94.0 (3.70)
1/2"	1/2"	58.8 (2.32)	28.6 (1.13)	101.6 (4.00)
6mm	6mm	53.5 (2.10)	25.4 (1.00)	94.0 (3.70)
12mm	12mm	58.8 (2.32)	28.6 (1.13)	101.6 (4.00)

Integral connections - up to 10,000 PSI

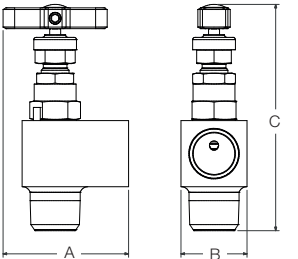
A limited range of integral connections for 10,000 PSI is available as tube selection can adversely affect overall product ratings. Please consult your local Parker support.

HNAV* - Female threaded - NPT



Inlet	Outlet	Dimension		
		A mm (inch)	B mm (inch)	C mm (inch)
Female	Female			
1/4" NPT	1/4" NPT	49.5 (1.95)	25.4 (1.00)	88.3 (3.47)
1/2" NPT	1/2" NPT	54.3 (2.14)	28.6 (1.13)	101.0 (3.98)

HNAV* - Male x Female threaded - NPT



Inlet	Outlet	Dimension		
		A mm (inch)	B mm (inch)	C mm (inch)
Male	Female			
1/4" NPT	1/4" NPT	49.5 (1.95)	25.4 (1.00)	91.7 (3.61)
1/2" NPT	1/2" NPT	54.3 (2.14)	28.6 (1.13)	98.3 (3.87)

- Notes:
- Dimension “A” given for finger-tight nuts and ferrules.
 - Dimension “C” in open position.

Gauge Valves - HNVV Series

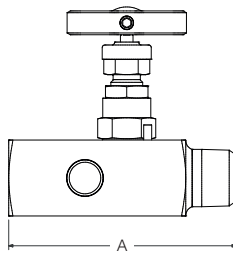
Single block gauge vent valves

Generally used in conjunction with the measuring instrument, these valves allow for the function of venting/draining any process media that may be trapped, following isolation of the instrument for maintenance and/or removal purposes.



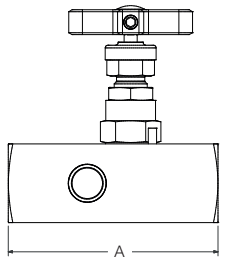
Example shown: HNVV single block gauge vent valve with Parker Superior Advantage integral inverted A-LOK® tube connections to inlet and outlet and with Parker PTFree connect™ to the vent.

HNVV* - Male x Female threaded - NPT



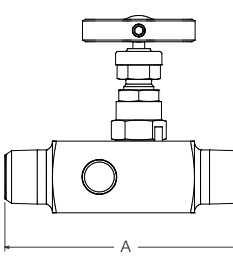
Pressure (PSI)	Inlet	Outlet	Vent	Dimension		
	Male	Female	Female	A mm (inch)	B mm (inch)	C mm (inch)
6,000	1/4" NPT	1/4" NPT	1/4" NPT	72.5 (2.85)	28.6 (1.13)	79.4 (3.13)
	1/2" NPT	1/2" NPT	1/4" NPT	85.8 (3.38)	28.6 (1.13)	79.4 (3.13)
10,000	1/4" NPT	1/4" NPT	1/4" NPT	71.2 (2.80)	31.8 (1.25)	82.6 (3.25)
	1/2" NPT	1/2" NPT	1/4" NPT	85.6 (3.37)	31.8 (1.25)	82.6 (3.25)

HNVV* - Female x Female threaded - NPT



Pressure (PSI)	Inlet	Outlet	Vent	Dimension		
	Female	Female	Female	A mm (inch)	B mm (inch)	C mm (inch)
6,000	1/4" NPT	1/4" NPT	1/4" NPT	63.5 (2.50)	28.6 (1.13)	79.4 (3.13)
	1/2" NPT	1/2" NPT	1/4" NPT	76.3 (3.00)	28.6 (1.13)	79.4 (3.13)
10,000	1/4" NPT	1/4" NPT	1/4" NPT	69.0 (2.71)	31.8 (1.25)	82.6 (3.25)
	1/2" NPT	1/2" NPT	1/4" NPT	79.5 (3.13)	31.8 (1.25)	82.6 (3.25)

HNVV* - Male x Male threaded - NPT



Pressure (PSI)	Inlet	Outlet	Vent	Dimension		
	Male	Male	Female	A mm (inch)	B mm (inch)	C mm (inch)
6,000	1/4" NPT	1/4" NPT	1/4" NPT	76.2 (3.00)	28.6 (1.13)	79.4 (3.13)
	1/2" NPT	1/2" NPT	1/4" NPT	94.8 (3.73)	28.6 (1.13)	79.4 (3.13)
10,000	1/4" NPT	1/4" NPT	1/4" NPT	76.2 (3.00)	31.8 (1.25)	82.6 (3.25)
	1/2" NPT	1/2" NPT	1/4" NPT	94.8 (3.73)	31.8 (1.25)	82.6 (3.25)

- Notes:
- Dimension “A” given for finger-tight nuts and ferrules.
 - Dimension “C” in open position.
 - For bleed/vent valves and plugs see page 61.

Products shown here can be supplied with integral swivel gauge adaptor as shown on page 24.

Gauge Valves - HGV Series

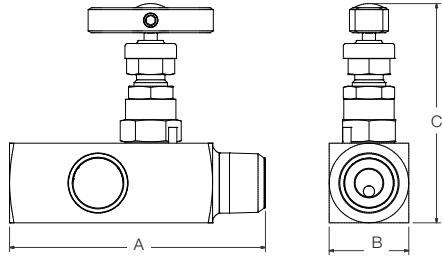
Multi-port gauge valves

Parker’s multi-port gauge valves are purpose designed valves for operation up to 6,000 psig (414 barg) and 10,000 psig (689 barg). Featuring as standard PTFE gland packing and self-centering non-rotational tip for bubble-tight seat shut-off, these valves give the user the assurance of safety and performance.



Example shown: Multi-port gauge valve with integral A-LOK® connections.

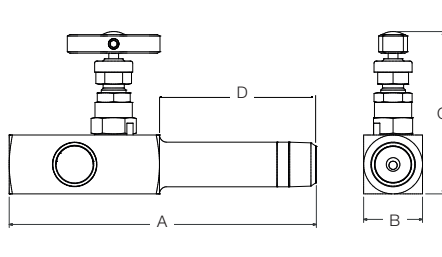
HGV* - Male x Female (3 outlets) threaded - NPT



Inlet	Outlet	Dimension		
		A mm (inch)	B mm (inch)	C mm (inch)
Male	Female			
1/4" NPT	1/4" NPT	72.5 (2.85)	28.6 (1.13)	79.4 (3.13)
1/2" NPT	1/2" NPT	92.0 (3.62)	28.6 (1.13)	79.4 (3.13)
Male	Male*	A	B	C
1/2" NPT	1/2" NPT	97.2 (3.82)	28.6 (1.13)	79.4 (3.13)

*Optional outlet

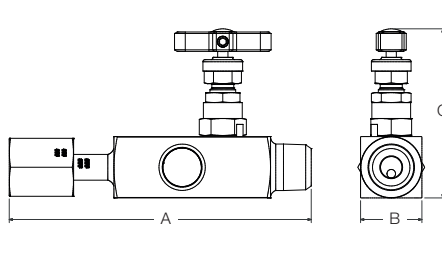
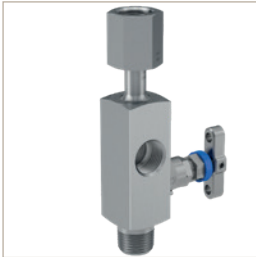
HGVX* - Male Extended x Female (3 outlets) threaded - NPT



Inlet	Outlet	Dimension			
		A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)
Male	Female				
1/2" NPT	1/2" NPT	148.0 (5.83)	28.6 (1.13)	79.4 (3.13)	75.0 (2.95)*

- * Example part numbers:
- 1/2" NPT Male inlet - default extension: 75mm (2.95"), 1/2" NPT Fem. outlet = **HGVXS8M8F**
 - 1/2" NPT Male inlet - optional extension: 100mm (3.94"), 1/2" NPT Fem. outlet = **HGVXS12MD8F** (add **D** for 100mm extension)

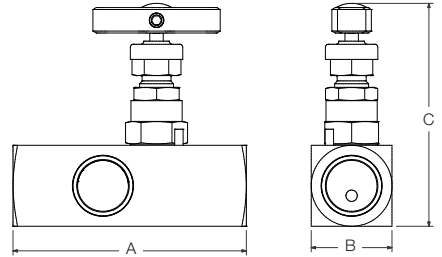
HGVWG* - Male x Female (2 outlets) threaded - NPT with integral swivel gauge adaptor



Inlet	Outlet	Dimension		
		A mm (inch)	B mm (inch)	C mm (inch)
Male	Female			
1/2" NPT	1/2" BSPP	140.8 (5.54)	28.6 (1.13)	79.4 (3.13)

- Swivel adaptor to the outlet is provided through a socket weld, generally conforming to ANSI B16.11.
- Weld connection is a "commercial weld", completed by a qualified welder. Any specific qualification, certification, documentation or additional NDT, will require to be engineered and quoted extra – please consult your local Parker support.
- Union nut dimensions generally conform to DIN 16284 as it applies to the union of nipple & nut themselves.
- Union nut also conforms generally to DIN EN 837 for the gauge connection itself, as it applies to the union of nipple and nut themselves.

HGV* - Female x Female (3 outlets) threaded - NPT



Inlet	Outlet	Dimension		
		A mm (inch)	B mm (inch)	C mm (inch)
Female	Female			
1/2" NPT	1/2" NPT	82.5 (3.25)	28.6 (1.13)	79.4 (3.13)

- Notes:
- Dimension "A" given for finger-tight nuts and ferrules.
 - Dimension "C" in open position.

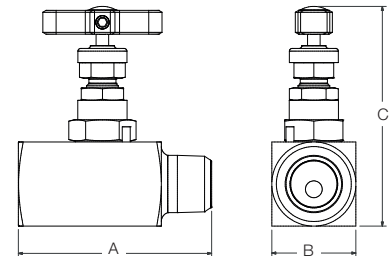
Rising Plug Valves - HRPV Series

These unique, high quality, high performance, low-torque rising plug soft-seated valves have been specifically designed to perform with fluids containing high levels of contamination, such as those frequently found in oil and gas processing facilities. With a straight through flow pattern and 100% repeatable bubble-tight shut-off, the valves as standard with PEEK seat will perform up to 10,000 psig (689 barg) with low spindle operating torques.



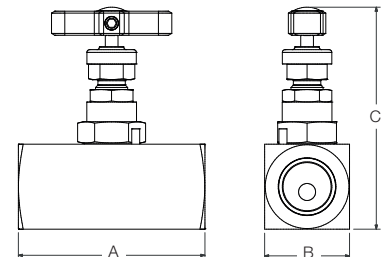
Example shown: Hand valve with integral A-LOK® connections.

HRPV4* - Male x Female threaded - NPT



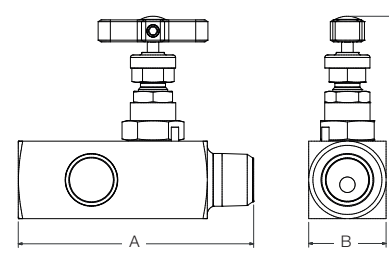
Inlet	Outlet	Dimension		
		A mm (inch)	B mm (inch)	C mm (inch)
Male	Female			
1/2" NPT	1/2" NPT	72.9 (2.87)	31.8 (1.25)	88.0 (3.46)
3/4" NPT	1/2" NPT	72.9 (2.87)	31.8 (1.25)	88.0 (3.46)

HRPV4* - Female x Female threaded - NPT



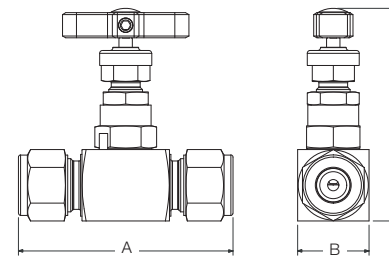
Inlet	Outlet	Dimension		
		A mm (inch)	B mm (inch)	C mm (inch)
Female	Female			
1/4" NPT	1/4" NPT	60.5 (2.38)	31.8 (1.25)	88.0 (3.46)
1/2" NPT	1/2" NPT	69.8 (2.75)	31.8 (1.25)	88.0 (3.46)

HRPV4G* - Male x Female (3 outlets) threaded - NPT



Inlet	Outlet	Dimension		
		A mm (inch)	B mm (inch)	C mm (inch)
Male	Female			
1/2" NPT	1/2" NPT	96.5 (3.80)	31.8 (1.25)	88.0 (3.46)

HRPV4* - Integral A-LOK® connections



Inlet	Outlet	Dimension		
		A mm (inch)	B mm (inch)	C mm (inch)
A-LOK	A-LOK			
1/2"	1/2"	63.5 (2.50)	31.8 (1.25)	88.0 (3.46)
12mm	12mm	63.5 (2.50)	31.8 (1.25)	88.0 (3.46)

- Notes:
- Dimension "A" given for finger-tight nuts and ferrules.
 - Dimension "C" in open position.

Products shown here can be supplied with integral swivel gauge adaptor as shown on page 24.

Hand Valves and Gauge Valves

Ordering information

- Example 1: **HNVS8M8FHPLHW**
- Example 2: **HGV6MO123PBVBMNC**
- Example 3: **HNVVWGS8A8RPBMNC**
- Example 4: **HGV6MOIVAM12PFCAM6RTATK**

HNVS	S	8M8F	HPLHW	Straight pattern needle valve, 316 Stainless Steel, PTFE packing, 10,000 PSI, 1/2" NPT Male inlet, 1/2" NPT Female outlet with locking handwheel operation.
HGV	6MO	12M8F	3PBVBMNC	Multi-ported Gauge valve, 6MO Super Austenitic Stainless Steel, conforming to NACE MR-01-75 latest revision, Graphite packing, 3/4" NPT Male inlet, 3 x 1/2" NPT Female outlets, with blank plug, bleed valve and base mounting holes.
HNVSWG	S	8A8R	PBMNC	Single ported Gauge valve with integral swivel gauge outlet connection, inlet ports are 1/2" A-LOK tube, whilst outlet swivel connection is 1/2" BSPP. The side port in 1/4" NPT fitted with blank plug and the valve has base mounting holes. Material of construction is 316 stainless steel conforming to NACE and gland packing is PTFE.
HGV	6MO	IVAM12PFCAM6	RTATK	Multi-ported Gauge valve, 6MO Super Austenitic Stainless Steel with 12mm Inverted A-LOK tube connections to inlet and outlet, having 6mm A-LOK PTFree connect male connectors to the side ports. Other options are regulating tip with Anti-Tamper operation and one key.