

Gauge Valves - HGV Series

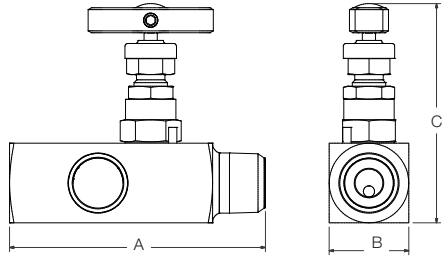
Multi-port gauge valves

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.

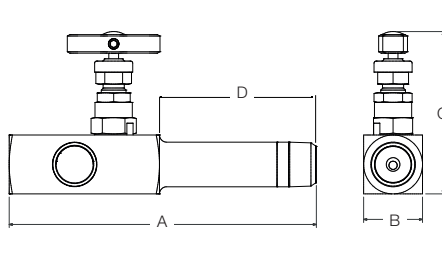
HGV* - Male x Female (3 outlets) threaded - NPT



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

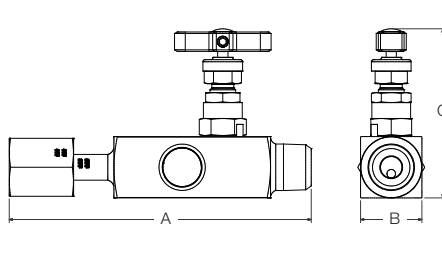
HGVX* - Male Extended x Female (3 outlets) threaded - NPT



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)

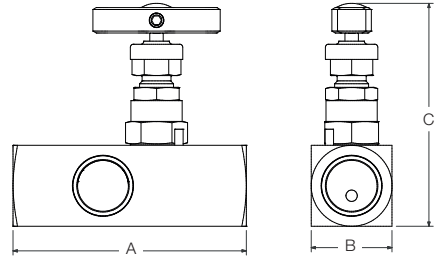
HGVWG* - Male x Female (2 outlets) threaded - NPT with integral swivel gauge adaptor



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.

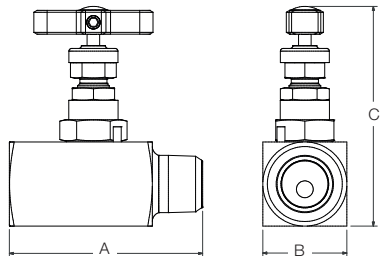
Rising Plug Valves - HRPV Series

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.



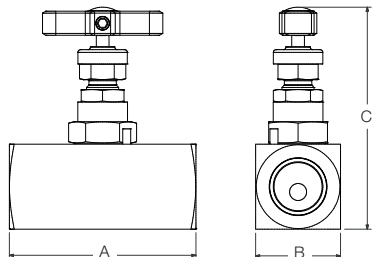
Example shown: Hand valve with integral A-LOK® connections.

HRPV4* - Male x Female threaded - NPT



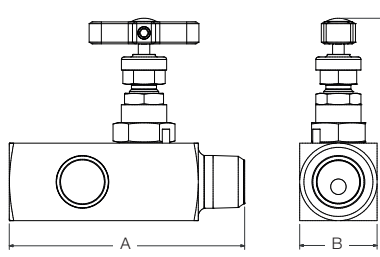
Inlet	Outlet	Dimension		
		A mm (inch)	B mm (inch)	C mm (inch)
Male	Female			
1/2" NPT	1/2" NPT	72.9 (2.87)	31.8 (1.25)	88.0 (3.46)
3/4" NPT	1/2" NPT	72.9 (2.87)	31.8 (1.25)	88.0 (3.46)

HRPV4* - Female x Female threaded - NPT



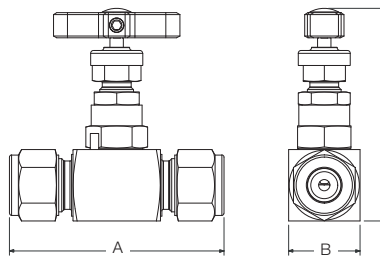
Inlet	Outlet	Dimension		
		A mm (inch)	B mm (inch)	C mm (inch)
Female	Female			
1/4" NPT	1/4" NPT	60.5 (2.38)	31.8 (1.25)	88.0 (3.46)
1/2" NPT	1/2" NPT	69.8 (2.75)	31.8 (1.25)	88.0 (3.46)

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	8M8F	FHPLHW>	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.
HGV6MO	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.
HNVVWG	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.
HGV6MO	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.

Series	
HNVS	Hand valve straight pattern
HNAV	Hand valve angle pattern
HNVS	Gauge valve single ported ¹
HNVVWG	Gauge valve single ported with Integral Swivel Gauge connection ²
HGV	Gauge valve multi-ported ³
HGVX	Gauge valve multi-ported extended
HGVWG	Gauge valve multi-ported with Integral Swivel Gauge connection ²
HRPV4	Rising plug valve

¹ For single ported gauge valves, port is standard as 1/4" NPT Fem. For other options, see tables.

² Integral welded swivel gauge adaptor for HNVV & HGV model types only as standard as 1/2" BSPP (**8R**). 1/4" BSPP (**4R**) by special request. Available in 316SS as standard. Consult your local Parker representation for other material options.

³ For multi-ported gauge valves, ports (2x) are standard as 1/2" NPT Fem. For other options, see tables.

Materials			
S	316/316L Stainless Steel	HC	Alloy C276
6MO	6MO Sup. Aust. St.Steel	T	Titanium Gr. 2
M	Alloy M400	825	Alloy 825
D1	Duplex 22 Cr. Steel	625	Alloy 625
D2	Super Duplex 25 Cr. Steel	C	Carbon Steel ⁴

⁴For Carbon Steel consult your local Parker representation.

Connections - Standard					
	Inlet	Outlet		Inlet	Outlet
4FF	1/4" NPT Fem.	1/4" NPT Fem.	4A	1/4" A-LOK ⁵	1/4" A-LOK ⁵
6FF	3/8" NPT Fem.	3/8" NPT Fem.	6A	3/8" A-LOK ⁵	3/8" A-LOK ⁵
8FF	1/2" NPT Fem.	1/2" NPT Fem.	8A	1/2" A-LOK ⁵	1/2" A-LOK ⁵
12FF	3/4" NPT Fem.	3/4" NPT Fem.	M6A	6mm A-LOK ⁵	6mm A-LOK ⁵
16FF	1" NPT Fem.	1" NPT Fem.	M10A	10mm A-LOK ⁵	10mm A-LOK ⁵
4M4F	1/4" NPT Male	1/4" NPT Fem.	M12A	12mm A-LOK ⁵	12mm A-LOK ⁵
6M6F	3/8" NPT Male	3/8" NPT Fem.	⁵ For CPI™ change A to Z.		
8M8F	1/2" NPT Male	1/2" NPT Fem.			
12M8F	3/4" NPT Male	1/2" NPT Fem.			

Other Connection Options	
*F	Female connection. Utilised when connection choices vary
*K	BSPT BS21, ISO7/1 - British Standard Taper Pipe thread
*R	BSPP BS2779 - British Standard Parallel Pipe thread
*RD	DIN 16284/16288/EN837 BSPP gauge connection type
SW*	ASME B16.11, EN12760 Female Socket Weld ⁶
*M2X	ISO Metric M20x1.5 Parallel Pipe thread - outlet option with Swivel Gauge connection (WG type)

* Insert connection size - Fem. thread is default.

⁶ As standard, valves with Female Socket Weld connections will be of the same length as per the equivalent NPT pipe threaded variants.

Butt Weld and Male Socket Weld - Pipe				
Type		Size		Schedule (Thickness)
BW	Butt Weld ⁷	4	1/4" NB	* Sch.80 A Sch.160 B Sch.XXS
		6	3/8" NB	
		8	1/2" NB	
MSW	Male Socket Weld ⁸	12	3/4" NB	C 75mm D 100mm

⁷ As standard, valves with butt weld pipe connections will be of the same length as per the equivalent male NPT pipe threaded variants. Extended body dimensions are also offered - see tables and main catalogue.

⁸ As standard, valves with Male socket weld connections will have 1/2" (13mm) added to overall length (per connection) when compared to equivalent threaded valve. Extended body dimensions are also offered - see tables and main catalogue. Example: 3/4" NB male socket weld connection with Sch.XXS wall pipe and 100mm body extension = **MSW12BD**.

⁹ Examples:

- 10mm A-LOK inverted inlet/outlet & 1/4" NPT Fem. vent/drain = **IVAM104F**
- 10mm CPI inverted inlet/outlet & 1/4" NPT Fem. vent/drain = **IVZM104F**

¹⁰ PTFree connect™ option recommended for multi-port and single port gauge valve side ports, when a tube connection is required.

Examples:

- 10mm A-LOK tube stub con. inlet/outlet & 1/4" NPT Fem. vent/drain = **PFAM104F**
- 3/8" CPI male union con. inlet/outlet & 1/4"NPT Fem. vent/drain = **PFCZI64F**

¹¹ 1/4" NPT Fem. is default standard for bleed/vent/drain, some model types may be available with other connections

Inverted Connection and PTFree connect™				
Type	Fitting	Unit	Inlet/Outlet	Drain/Vent
IV	Inverted Connection Tube OD ⁹	M Metric	6 6mm 10 10mm 12 12mm	4F 1/4" NPT ¹¹
PF	PTFree connect tube stub ¹⁰			
PFC	PTFree connect male union ¹⁰		4 1/4" 6 3/8" 8 1/2"	

OPTIONS	
High Pressure - 10,000 PSI (689 bar) option	
HP	High Pressure ¹²
Gland Packing Options	
3	Graphite ¹³
FS	Firesafe design ¹⁴
Seating Options - Needle Valves only	
6S	6mm bore seat
RT	Regulating/Metering Tip
ST	Stellite Tip
9	PCTFE Soft Tip ¹⁵
PK	PEEK Soft Tip
Plug/Bleed Valve Options¹⁶	
P	Blank Plug
BV	Bleed Valve/Plug
PBV	Blank Plug and Bleed Valve/Plug
Operator Options	
HW	Handwheel
LHW	Handwheel Locking
THL	T Bar Locking
AT	Anti-Tamper ¹⁷
ATK	Anti-Tamper with Key ¹⁸
ATHKEY	Anti-Tamper Key ¹⁹
Mounting Options	
PM	Panel Mount
BM	Base Mount
BK	Assembled with Carbon Steel bracketry & bolts ²⁰
BKS	Assembled with Stainless Steel bracketry & bolts ²⁰
Other Options	
OX	Cleaned & lubricated for Oxygen use
NC	NACE MR-01-75 Compliant
M*	Assembly and Test of Free Issue Instrument

¹² Not necessary for HRPV models.

¹³ Not available for HRPV models. Not required when Firesafe design option (**FS**) selected.

¹⁴ Not available for PCTFE Soft tip (**9**), HRPV models or Oxygen cleaned product (**OX**).

¹⁵ 3,000 PSI/207 BAR only. See catalogue page 14.

¹⁶ Plugs supplied loose in a packing box. Typically required with multi-port gauge valves and single vent hand valves. See page 61.

¹⁷ Anti-Tamper operation and no key.

¹⁸ Anti-Tamper operation and one key supplied per manifold.

¹⁹ Anti-Tamper key. Specify quantity required as separate line item.

²⁰ Available on **HNVS** and **HGV** / **HGVWG** series only. Contact your local Parker representative for further support.

* Specify assembly and test option - see page 71. Gauge valves only.

IMPORTANT NOTES:

- For optimum results in integral tube connections on hand valves and gauge valves, the use of Parker pre-assembly tooling is highly recommended. For inverted style integral tube connections the use of Parker pre-assembly tooling is mandatory.
- Not all options/combinations are available in each single product model type.
- We reserve the right to review/revise this part number structure at any time. If necessary, we can refuse and/or recommend the most suitable alternative part number(s). We may also apply MOQ rules.
- Should your part number selection exceed 25 characters in length when completed, then it is likely to be incorrect, please consult your local Parker representation for assistance.
- If in any doubt, please consult your local Parker representation.