

Fluid Control Components Index Safety Warning Inside Front Cover Check valves CVH Series 1 Check valves **XVH** Series 5 Excess flow valves 6100/6200 Series 10 Check valves 691F Series 13 Check valves R6000 Series 15 Adjustable relief valves 21 6600 Series Bleed valves 6300 Series 24 Filter elements 1500 Series 26 Toggle valves 6800 Series 29 Gauge valves Disclaimers Inside Back Cover HOKE HOKE ikkentenn ontro

CRANE

CRANE Instrumentation & Sampling, HOKE[®] PO Box 4866 • Spartanburg, SC 29305-4866 (864) 574-7966 • www.hoke.com

For Your Safety

It is solely the responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. When selecting products, the total system design must be considered to ensure safe, trouble-free performance. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or property damage.

Contact your authorized HOKE® sales and service representative for information about additional sizes and special alloys.

SAFETY WARNING:

HOKE[®] products are designed for installation only by professional suitably qualified licensed system installers experienced in the applications and environments for which the products are intended. These products are intended for integration into a system. Where these products are to be used with flammable or hazardous media, precautions must be taken by the system designer and installer to ensure the safety of persons and property. Flammable or hazardous media pose risks associated with fire or explosion, as well as burning, poisoning or other injury or death to persons and/or destruction of property. The system designer and installer must provide for the capture and control of such substances from any vents in the product(s). The system installer must not permit any leakage or uncontrolled escape of hazardous or flammable substances. The system operator must be trained to follow appropriate precautions and must inspect and maintain the system and its components including the product(s) and at regular intervals in accordance with timescales recommended by the supplier to prevent unacceptable wear or failure.



CVH Series Check Valves



The CVH Series Check Valves are engineered for a competitive price with no compromise of quality and performance to meet the growing requirements of instrumentation valves. The function of this valve series is to maintain system integrity by preventing back flow of a wide variety of fluids over a broad range of pressures.

Features & Specifications

- Rapid response
- Resilient o-ring seat provides cushioned, noise-free closing and zero leakage
- Floating o-ring design: o-ring is continually cleaned so contaminants do not prevent sealing
- Various materials of construction can be used with any liquid or gas service
- Various end connections can be assembled in any system or application
- Spring-loaded poppet can be mounted in any orientation
- Full flow with minimal restriction for maximum Cv rates
- Virtually maintenance free for maximum dependability
- Pressures up to 6000 psig (414 bar)
- Cracking pressure range is 0.5 to 20 psig (0 to 1 bar) ±10%
- Flow up to 7.4 Cv maximum
- Greater than 100,000 life cycles
- Special High Tolerance NPT Thread

Took	nical	Data
recr	inicai	Data

Body Material*	316 stainless steel, MONEL® R-405, HASTELLOY® C-276
Operating Pressure Range	0 to 6000 psig (414 bar)
Temperature Range**	-65° F to +550° F (-54° C to +288° C)
Cv factors	0.32 to 7.4
Cracking Pressure Range	0.5 to 20 psig (0.035 to 1.379 bar) ± 10%
Leakage	External: zero
	Internal: Soft seat = zero
Connection sizes	½" to 1"; 6mm to 25mm
Life Cycles	In excess of 100,000 cycles

- * Consult factory for other materials
- ** Limited to +400° F (204° C) for 3/4" / 12 mm sizes and higher

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CVH Series

Specifications

Operating Temperatures

Seal Material	Temperature (°F)	Temperature (°C)
Viton®	-20° to +400°	-29° to +204°
Fluorosilicone	-80° to +350°	-62° to +177°
Kalrez [®] *	-40° to +550°	-40° to +288°
Buna N	-65° to +275°	-54° to 135°
* Limited to +400° F	(204° C) for 3/4″/1.	2 mm sizes

and higher

Flow Rates

Fitting Size	1/8″	1/4"/4mm	³⁄8″/6mm	½″/8mm	10mm	¾″/12mm	1″/16mm
fitting code*	-02	-04	-06	-08	-10	-12	-16
Cv FACTORS	0.32	0.79	1.71	3.08	3.87	7.38	7.38
* 0							

* See ordering matrix on page 9

Materials of Constructions

	Part	Standard Materials (Others on Request)
1	Body* (inlet)	316 stainless steel
2	Body* (outlet)	316 stainless steel
3	Poppet*	316 stainless steel
4	Spring*	302 stainless steel
5	O-ring*	Viton®
6	Spring guide	316 stainless steel
7	0-ring*†	Viton®
* we	tted component	

* wetted component



Dimensions

GYROLOK® Tube Fitting, Fractional

Fitting Code*	Fitting Size	A	В	C	D	E	F	G
-02	1/8″	0.93	0.20	0.67	1.33	0.19	1.06	0.44
-04	1⁄4″/4mm	0.93	0.20	0.77	1.33	0.19	1.06	0.56
-06	¾″/6mm	1.33	0.20	0.83	1.73	0.39	1.44	0.69
-08	½″/8mm	1.33	0.20	0.92	1.73	0.42	1.44	0.88
-12	3⁄4″/12mm	2.05	0.50	0.97	3.05	0.66	2.25	1.25
-16	1″/16mm	2.05	0.50	1.08	3.05	0.66	2.25	1.5

* See ordering matrix on page 9

GYROLOK® Tube Fitting, Metric

Fitting Code*	Fitting Size	A	В	C	D	E	F	G
-04	1⁄4″/4mm	23.62	5.08	17.9	33.78	2.44	26.99	12.70
-06	3∕8"/6mm	23.62	5.08	19.5	33.78	3.96	26.99	14.22
-08	1⁄2″/8mm	23.62	5.08	19.1	33.78	5.94	26.99	15.88
-10	10mm	33.78	5.08	19.8	43.94	8.03	36.51	19.05
-12	3⁄4″/12mm	33.78	5.08	23.4	43.94	10.01	36.51	22.23
-14	14mm	33.78	5.08	21.0	43.94	12.01	36.52	25.40
-16	1″/16mm	52.07	12.70	23.4	77.47	12.70	57.15	25.40
-18	18mm	52.07	12.70	24.6	77.47	15.88	57.15	28.58
-22	22mm	52.07	12.70	24.6	77.47	16.66	57.15	31.75
-25	25mm	52.07	12.70	27.4	77.47	16.66	57.15	38.10

* See ordering matrix on page 9



CVH Series

Dimensions











Male NPT, (Fractional)

Fitting Code*	Fitting Size	Α	В	С	D	E	F
-02	1/8″	0.93	0.20	0.38	1.33	0.19	1.06
-04	1⁄4″/4mm	0.93	0.20	0.56	1.33	0.19	1.06
-06	¾″/6mm	1.33	0.20	0.56	1.73	0.39	1.44
-08	½″/8mm	1.33	0.20	0.75	1.73	0.42	1.44
-12	3⁄4″/12mm	2.05	0.50	0.75	3.05	0.66	2.25
-16	1″/16mm	2.05	0.50	0.94	3.05	0.66	2.25

See ordering matrix on page 9 *

Female NPT, (Fractional)

Fitting Code*	Fitting Size	А	B Inlet	C Outlet	D	E	F
-02	1/8″	0.93	0.62	0.65	2.20	0.19	1.06
-04	1⁄4″/4mm	0.93	0.62	0.88	2.43	0.19	1.06
-06	¾″/6mm	1.33	0.78	0.78	2.89	0.39	1.44
-08	½″/8mm	1.33	0.93	0.98	3.24	0.42	1.44
-12	3⁄4″/12mm	2.05	1.08	0.95	4.08	0.66	2.25
-16	1″/16mm	2.05	1.37	1.16	4.58	0.66	2.25

* See ordering matrix on page 9

Male British Tapered Pipe, (Fractional)

	-	-					
Fitting code*	Fitting Size	А	B Inlet	C Outlet	D	Е	F
-02	1/8″	0.93	0.20	0.38	1.33	0.19	1.06
-04	1⁄4″/4mm	0.93	0.20	0.56	1.33	0.19	1.06
-06	¾″/6mm	1.33	0.20	0.56	1.73	0.39	1.44
-08	1⁄2″/8mm	1.33	0.20	0.75	1.73	0.42	1.44
-12	3⁄4″/12mm	2.05	0.50	0.75	3.05	0.66	2.25
-16	1″/16mm	2.05	0.50	0.94	3.05	0.66	2.25
		-					

* See ordering matrix on page 9

Female British Tapered Pipe, (Fractional)

Fitt Co	ing de*	Fitting Size	А	B Inlet	C Outlet	D	E	F
-0)2	1/8″	0.93	0.63	0.64	2.20	0.19	1.06
-0)4	¼″/4mm	0.93	0.88	0.89	2.70	0.19	1.06
-()6	¾″/6mm	1.33	0.98	0.97	3.28	0.39	1.44
-0	08	½″/8mm	1.33	1.25	1.24	3.82	0.42	1.44
-1	12	¾″/12mm	2.05	1.58	1.22	4.85	0.66	2.25
-1	16	1″/16mm	2.05	1.80	1.46	5.31	0.66	2.25
* \$	oo orda	ring matrix o	n nago Q					

See ordering matrix on page 9

Male British Parallel Pipe, (Fractional)

Fitting Code*	Fitting Size	А	В	C	D	E	F
-02	1/8″	0.93	0.20	0.38	1.33	0.19	1.06
-04	1⁄4″/4mm	0.93	0.20	0.56	1.33	0.19	1.06
-06	³⁄₃″/6mm	1.33	0.20	0.56	1.73	0.39	1.44
-08	1⁄2″/8mm	1.33	0.20	0.75	1.73	0.42	1.44
-12	3⁄4″/12mm	2.05	0.50	0.75	3.05	0.66	2.25
-16	1″/16mm	2.05	0.50	0.94	3.05	0.66	2.25

* See ordering matrix on page 9

CVH Series

Dimensions



Female British Parallel Pipe, (Fractional)

Fitting			В	C			
Code*	Fitting Size	Α	Inlet	Outlet	D	E	F
-02	1/8″	0.93	0.66	1.05	2.64	0.19	1.06
-04	1⁄4″/4mm	0.93	0.89	1.06	2.88	0.19	1.06
-06	¾″/6mm	1.33	1.04	0.96	3.33	0.39	1.44
-08	1⁄2″/8mm	1.33	1.17	1.20	3.70	0.42	1.44
-12	3⁄4″/12mm	2.05	1.51	1.17	4.73	0.66	2.25
-16	1″/16mm	2.05	1.61	1.37	5.03	0.66	2.25

* See ordering matrix below

How to Order



- 625 Inconel 625
- 825 Inconel 825

Please consult HOKE[®] or your local distributor for information on special connections, o-rings, operating pressures and temperature ranges.





XVH Series Excess Flow Valves



XVH Series Excess Flow Valves act as flow switches that automatically close when a flow spike occurs, preventing uncontrolled release of system fluid. The XVH Series is available in automatic and manual reset versions, depending on system requirements. Automatic reset XVH Series have an "anti-clog" wire which increases reliability by preventing a build up of system fluid in the bleed port. The XVH Series are high pressure (0 to 6000 psig [414 bar]), high performance, quick acting, zero leakage, low maintenance excess flow valves that will help provide a reliable and safe working environment.

- Lower cost
- Versatile
- Reliable
- Safety
- Flexible

Features

Automatic reset

- The bleed vent allows the valve to automatically reset Manual reset
- Zero leakage: the valve must be manually reset **2-piece design**
- Allows for simple spring and seal maintenance **O-ring or metal seat**

• Can be used with any liquid or gas service Various body materials

• Can be used with any liquid or gas service

Various end connections

- Can be assembled in any system or application *Spring-loaded poppet*
- Can be mounted in any orientation

Anti-clog wire

- Prevents clogging of bleed port
- Special High Tolerance NPT Thread

Technical Data

Body Material*	316 stainless steel, MONEL®, HASTELLOY® C-276, 254 SMO
Temperature Range	-320° to +900° F (-196° to +482° C)
Operating Pressure	Zero to 6000 psig (414 bar)
Leakage Rate	External: zero leak
	 Internal soft seat: zero leak
Flow/Trip Point Ranges	Low, standard/low, medium, and high

* Consult factory for other materials

fluid control

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Function

Excess Flow Valves are designed to limit flow of fluid to a predetermined rate. When flow reaches a predetermined rate the poppet will close, limiting or stopping flow. When pressure is equalized across the valve, the poppet will reset to the open position.

Open Position



The spring holds the poppet in the open position during normal flow. When flow increases to the predetermined rate or trip point, the poppet will close.

Manual Reset

The poppet will remain in the tripped position with zero leakage and zero flow until pressure is manually equalized across the poppet. When the pressure becomes equal, the spring will then reset the poppet to the open position, allowing normal flow.



Automatic Reset

The poppet will remain in the tripped position until system pressure becomes equal across the poppet. The bleed orifice in the poppet will allow the pressure to slowly equalize across the valve if the downstream line is closed or repaired. When the pressure becomes equal, the spring will then reset the poppet to the open position, allowing normal flow.

Materials of Construction



	Part	Standard Material (others available on request)
1	Body* (outlet)	316 stainless steel
2	End adapter* (inlet)	316 stainless steel
3	Poppet*	316 stainless steel
4	Spring*	302 stainless steel or INCONEL ^{®**}
5	Anti-clog wire*	302 stainless steel
6	Front ferrule*	316 stainless steel
7	Rear ferrule	316 stainless steel
8	Nut	316 stainless steel

* Wetted component

**INCONEL[®] springs installed with 254 SMO, (-65) Kalrez[®], and (-00) seals, HASTELLOY C[®].

Operating Temperatures

Soft Seal, Manual Reset Valve

0-ring		Temperature				
Code	0-ring Material	° F	°C			
-32	Viton®	-20° to +400°	-29° to +204°			
-62	Ethylene propylene	-65° to +300°	-54° to +149°			
-64	Fluorosilicone	-80° to +350°	-62° to +177°			
-65	Kalrez®	-40° to +550°	-40° to +288°			

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Water Flow Rates: Standard

Using the graph below, look up your desired normal flow rate (including normal surges) on the X axis. Read vertically on the graph to the Cv line and then left on the graph from the Cv line to the pressure drop. Then select a valve and trip range higher than normal expected flow. For example: With a normal flow rate of 1 GPM, a ¹/₄" valve (**XVH-4**) will have a pressure drop of approximately 6.5 psi. Selecting a ¹/₄" valve with a medium trip option, the valve will close when the flow reaches 1.5 GPM and a pressure drop of approximately 15 psi.



Water Flow – Standard Inlet/Outlet Sizes = 1/4", 6mm, 8mm

Air Flow Rates – Standard

Using the graphs below, find the intersection of your normal flow rate (including normal surges) and the inlet pressure of the excess flow valve. From there, move to the right on the graph and select a valve with a trip range greater than your normal flow. For example: reading the chart below, if normal flow is 20 scfm and the inlet pressure is 200 psig, you would select a $\frac{1}{4}$ valve with a medium trip range.

<u>Air Flow – Standard Inlet/Outlet Sizes = $\frac{1}{4}$, 6mm, 8mm</u>



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<u>Air Flow – Standard Inlet/Outlet Sizes = 3/8", 10mm</u>



Air Flow – Standard Inlet/Outlet Sizes = $\frac{1}{2}$, 12mm



(HOKE)

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Note: Inlet and outlet fittings can be the same or mixed styles.

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6100 & 6200 Series

Ball and Poppet Check Valves





Features

- O-ring seat provides leak-tight shutoff
- Internal design guides flow around or inside spring, not through coils, when valve is open
- All models are tested in production to assure a leak-tight body joint and seat
- Ball and poppet designs are available as standard
- Ball type provides effective leak-tight closure with minimum flow resistance
- Poppet models provide large flows with a minimum of chatter and fluctuation
- Valves are available with various cracking pressures, from ½ to 25 psig (0 to 2 bar).
- 2-piece body permits interchangeability of end connections
- Special High Tolerance NPT Thread

Applications

- Prevents reversed flow to protect solenoids, regulators, and pumps
- Locks pressure in hydraulic cylinders
- Low pressure inline relief valve
- Vent valve to purge a system

Technical Data

Body Material*	316 stainless steel, brass, MONEL®
Maximum Operating Pressure	Brass: 3000 psig @ 70° F (206.84 bar @ 21° C) Stainless steel, MONEL®: 6000 psig @ 70° F (414 bar @ 21° C)
Standard cracking pressure	2 psig
Operating Temperature Range	Buna N: -40° F to +200° F (-40° C to +93° C) Viton [®] : -20° F to +350° F (-29° C to +177° C)
Orifice Sizes	0.187" (4.75mm), 0.422" (10.7mm)
Cv Factors	0.3, 2.4

* Consult factory for other materials

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6100 & 6200 Series

Materials of Construction

		Poppet Type		
Part	Brass	316 Stainless Steel	MONEL®	316 Stainless Steel
Body	Brass	316 stainless steel	MONEL®	316 stainless steel
Ball/Poppet	302 stainless steel	316 stainless steel	MONEL®	316 stainless steel
Spring	302 stainless steel	316 stainless steel	MONEL®	316 stainless steel
O-ring seat	Buna N	Viton®	Viton®	Viton [®] /Buna N*
Gasket (body)	Mylar®	PTFE	PTFE	PTFE/Buna N*

* For poppet check valves with ¾" and ½" NPT female connections.

Dimensions



6100 Series Ball Check Valves

A & B Connections		C Hex	D Hex	E
1/" NDT fomolo	inch	¹¹ / ₁₆	3⁄4	2¾
78 NET Tellidie	mm	17	19	60
14" NPT malo	inch	¹¹ / ₁₆	3⁄4	2%
78 NET HIDLE	mm	17	19	60
1/" NPT fomalo	inch	3⁄4	3⁄4	21/2
74 INFT TETTIALE	mm	19	19	64
1// NPT malo	inch	¹¹ / ₁₆	3⁄4	2%
74 INF I IIIdie	mm	17	19	60
1/4" NPT male × 1/4"	inch	¹¹ / ₁₆	3⁄4	2¾
GYROLOK®	mm	17	19	70
6mm CVPOLOK®	inch	11/16	3⁄4	3
omm arkolok	mm	17	19	76
	inch	11/16	3⁄4	3
74 GIROLOK	mm	17	19	76
	inch	1	3⁄4	31/8
78 GTNULUK-	mm	25	19	79



6200 Series Poppet Check Valves

A & B Connections		C Hex	D Hex	E
1/″ NPT fomale	inch	3⁄4	3⁄4	21/2
74 INFT Terriale	mm	19	19	64
1/″ NPT mala	inch	¹¹ / ₁₆	3⁄4	2%
74 INFT IIIdle	mm	17	19	60
	inch	¹¹ / ₁₆	3⁄4	3
-74 GTROLOK-	mm	17	19	76
34" CVPOLOK®	inch	1	3⁄4	31/8
78 GIROLOK-	mm	25	19	79
1/4 NDT fomale	inch	11/4	11⁄4	41⁄8
72 INFT Temale	mm	32	32	105

6100 & 6200 Series

Flow Diagrams

Air

For all models except 3/8" and 1/2" NPT female



Water

For all models except 3/8" and 1/2" NPT female



3/6" and 1/2" NPT female models



3/6" and 1/2" NPT female models



How to Order: Standard Valves (factory preset at cracking pressure of 2 psig) 6100 Series Ball Check Valves 6200 Series Poppet Check Valves

		Part Number				Part Number	
A & B Connections	Brass	MONEL®	316 St. Steel	Orifice	A & B Connections	316 St. Steel	Orifice
/ _∞ NPT female	6113F2B	_	6133F2Y	0.187	¹ ⁄4" NPT female	6233F4Y	0.187
½" NPT male	6113M2B	_	6133M2Y	0.187	1/4" NPT male	6233M4Y	0.187
1/4" NPT female	6113F4B	_	6133F4Y	0.187	1/4" GYROLOK®	6233G4Y	0.187
¼″ NPT male	6113M4B	_	6133M4Y	0.187	%″ GYROLOK®	6233G6Y	0.187
1/4" GYROLOK®	6113G4B	6133G4M	6133G4Y	0.187	1/2" NPT female	6253F8Y	0.422
¾″ GYROLOK®	6113G6B	6133G6M	6133G6Y	0.187	GYROLOK [®]	6253G8Y	0.422
1/4" NPT male × 1/4" GYROLOK®	6113H4B	_	_	0.187			
GYROLOK®	_	_	6133G6YMM	0.187			

Other Differential Cracking Pressures

Digit	
-1	
-5	
-6	
	Digit -1 -5 -6

All check valves except $\frac{3}{2}$ and $\frac{1}{2}$ female NPT models can be furnished with other than the standard 2 psig cracking pressure. To order, change the fourth digit ("-3") of the desired valve part number.

Example: **6115G4B** is a 6100 Series brass ball check valve with ¹/₄" GYROLOK[®] ends and a 10 psig cracking pressure

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691F Series High Flow Poppet Check Valves



Features & Benefits

- Prevents back flow
- Protects valuable equipment
- 316 stainless steel components
- GYROLOK[®] compression ends provide leak-free, reusable connections
- Recommended for severe service, including CNG applications:
 - High Cv flow rates
 - Blowout-proof o-ring design
 - Withstands high opening shocks without damage
- Special High Tolerance NPT Thread

Technical Data

Body Material Operating Pressure Operating Temperature Range Differential Cracking Pressures Cv Factors 316 stainless steel 5000 psig @ 70° F (345 bar @ 21° C) -65° F to +275° F (-54° C to +135° C) ½ psig to 50 psig (0 to 3.45 bar) 0.620 to 6.0

fluid control

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691F Series

Dimensions



Materials of Construction

Part	Material
Body	316 stainless steel
Poppet	316 stainless steel
Seat ring	316 stainless steel
Body gasket	PTFE
Seat o-ring	Buna N

Fractional

			В	С	
Part Number	Cv	Α	Body Hex	GYROLOK® Hex	Wrench
691FxG4Y	0.620	2.72 (69.1mm)	1.000 (25.4mm)	0.562	%16″
691FxG6Y	1.0	2.83 (71.9mm)	1.000 (25.4mm)	0.688	¹¹ / ₁₆ ″
691FxG8Y	2.1	3.10 (78.7mm)	1.000 (25.4mm)	0.875	7⁄8″
691FxG12Y	6.0	3.75 (95.3mm)	1.625 (41.3mm)	1.125	1%″
691FxG16Y	6.0	3.96 (100.6mm)	1.625 (41.3mm)	1.500	11⁄2″

Metric

				В	C	
1	Part Number	Cv	Α	Body Hex	GYROLOK® Hex	Wrench
6	91FxG10YMM	1.2	2.84 (72.1mm)	1.000 (25.4mm)	19.1mm	3⁄4″
6	91FxG12YMM	1.8	3.13 (79.5mm)	1.000 (25.4mm)	22.2mm	7%″
6	91FxG18YMM	5.3	3.67 (93.2mm)	1.625 (41.3mm)	28.6mm	1%″
6	91FxG22YMM	6.0	3.80 (96.5mm)	1.625 (41.3mm)	31.8mm	11/4″
6	91FxG25YMM	6.0	4.02 (102.1mm)	1.625 (41.3mm)	38.1mm	11/2″

How to Order





Balanced poppet design allows cracking pressure to stay the same regardless of backup pressure.

Orifice sizes: 0.082", 0.094", 0.188'

Multiple end connections available.

Optional manual override handle

For European Pressure Equipment Directive (PED 97/23/EC) applications, due to the R6000 valve's small poppet seat design, it is imperative that the R6000 valve be used in clean gas service ONLY (free from dust particles, contamination, and etc. (gas group 1 &2)).

* Back pressure affects cracking pressure on low pressure version

Typical Applications

- Beverage dispensing equipment
- · Gas pilot plants
- Petrochemical test labs
- Offshore oil platform heating lines
- · Pharmaceutical sterilization and packaging systems

Features & Benefits

Low Pressure (5 – 550 psig)* Zero friction poppets

- Increases accuracy of cracking pressure and reseat pressure.
- Improves consistency of cracking pressure and reseat pressure.

Encapsulated Seat Seal

- Maintains small contact surface area.
- Protects seat from erosion due to flow.

Raised seal lip on poppet minimizes contact with seat, eliminating friction and preventing overstressing of the O-ring

6 pressure spring ranges improve accuracy

Caps and bonnets are pre-drilled for lockwire

Multiple end connections available

Special High Tolerance NPT Thread

High Pressure (150–6000 psig)

3 models available:

- Medium (150–2500 psig)—6 spring ranges improve accuracy
- High (150–5000 psig)—7 spring ranges improve accuracy
- Extra High (5000-6000 psig)—one spring

Delta stem seal design prevents friction which increases accuracy of cracking pressure and reseat pressure.









R6000 Series **Right Angle Relief Valve**

Available in low, medium, high and extra high pressure models, R6000 right angle relief valves provide users with high accuracy and consistency of cracking and reseat pressures. Furthermore, narrow pressure ranges (cracking pressures) for each model can be factory pre-set according to customer specifications. PED certification and CE marking are standard for all models. All R6000 relief valves are offered with multiple end connections to ensure application versatility.

Materials of Construction



	Specifications					
BODY CONSTRUCTION	316 stainless steel					
SPRING MATERIAL	17-7PH CRES					
SEAL MATERIAL	Viton [®] • Buna N • EPR • Kalrez [®] • Silicone (not available for the XR Series)					
CONNECTION SIZES	1/4"					
ORIFICE SIZE	LR6000, MR6000: 0.188" HR6000: 0.094" XR6000: 0.082"					

Dimensions

	1⁄4″ GYRO	Lok® x 1 ⁄4″ gyr(OLOK [®]	¼″ M a	le NPT x ¼″ G	YROLOK®	¼" Mal	e NPT x ¼" Fem	ale NPT
Model No.	А	В	С	D	E	F	G*	Н	J
LR	3.10″ max	1.34″	0.97″	3.10" max	1.44″	0.97″	n/a	1.44″	1.00″
	(7.87cm)	(3.40cm)	(2.39cm)	(7.87cm)	(3.66cm)	(2.39cm)		(3.66cm)	(2.54cm)
MR	2.94″ max.	1.34″	0.97″	2.94″ max.	1.44″	0.97″	2.94″ max.	1.44″	1.00″
	(7.47cm)	(3.40cm)	(2.39cm)	(7.47cm)	(3.66cm)	(2.39cm)	(7.47cm)	(3.66cm)	(2.54cm)
HR	2.94″ max.	1.34″	0.97″	2.94″ max.	1.44″	0.97″	2.94″ max.	1.44″	1.00″
	(7.47cm)	(3.40cm)	(2.39cm)	(7.47cm)	(3.66cm)	(2.39cm)	(7.47cm)	(3.66cm)	(2.54cm)
XR	2.94″ max.	1.34″	0.97″	2.94″ max.	1.44″	0.97″	n/a	1.44″	1.00″
	(7.47cm)	(3.40cm)	(2.39cm)	(7.47cm)	(3.66cm)	(2.39cm)		(3.66cm)	(2.54cm)

* Manual override not available for LR and XR Series







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Operating Pressures

Pressures	LR6000	MR6000	HR6000	XR6000
Cracking Prossure	5–550 psig	150–2500 psig	150–5000 psig	5000-6000 psig
Clacking Flessure	(0–38 bar)	(10–172 bar)	(10–345 bar)	(345–414 bar)
Maximum Operating	5–700 psig	150–6000 psig	150–7000 psig	5000-7000 psig
Pressure	(0–48 bar)	(10-414 bar)	(10-482 bar)	(345–482 bar)
Proof	1050 psig (72 bar)	9000 psig (620 bar)	9000 psig (620 bar)	9000 psig (620 bar)
Ruret	Over 2800 psig (193 bar)	Over 24,000 psig	Over 24,000 psig	Over 24,000 psig
Durst		(1655 bar)	(1655 bar)	(1655 bar)
Reseat Pressure	85% min. of CP > 10 psig 70% of CP < 10 psig	85% min. of CP	85% min. of CP	85% min. of CP

C_v Ratings

Cracking Pressure	C LR6 0.1	Ç _v 000 88″	(MR6 0.1	5, 5000 88″	0 HR6 0.0	C _v 6000 194″	XRG 0.0	C, 6000 082″
PSIG	Air	Water	Air	Water	Air	Water	Air	Water
5	0.63	0.47	_	_	_	_	_	_
25	0.63	0.47	_	_	_	_	_	_
26	0.64	0.43	_	_	_	_	_	_
80	0.64	0.43	_	_	_	_	_	_
81	0.4	0.31	_	_	_	_	_	_
150	0.4	0.31	_	_	_	—	—	_
151	0.42	0.26	0.79	0.59	0.25	0.16	—	_
250	0.42	0.26	0.79	0.59	0.25	0.16	—	_
251	0.3	0.19	0.79	0.59	0.25	0.16	—	—
350	0.3	0.19	0.79	0.59	0.25	0.16	_	—
351	0.35	0.18	0.61	0.59	0.27	0.16	—	—
550	0.35	0.18	0.61	0.59	0.27	0.16	_	—
650	—	—	0.61	0.59	0.27	0.16	—	—
651	_	—	0.38	0.29	0.27	0.16	—	—
700	—	—	0.38	0.29	0.27	0.16	—	—
701	_	_	0.38	0.29	0.2	0.16	_	_
1001	—	_	0.37	0.20	0.2	0.14	—	_
1300	_	_	0.37	0.20	0.2	0.14	_	_
1301	—	_	0.37	0.20	0.21	0.14	—	_
1500	_	_	0.37	0.20	0.21	0.13	_	_
1501	—	_	0.28	0.14	0.21	0.13	—	_
2000	-	_	0.28	0.14	0.21	0.13	—	_
2001	-	_	0.24	0.10	0.19	0.13	—	_
2500	-	_	0.24	0.10	0.19	0.13	—	_
3000	-	—	—	_	0.19	0.13	—	—
3001	-	_	_	_	0.15	0.07	—	_
4000	-	—	—	—	0.15	0.07	-	—
5000	_	_	_	_	_	—	0.15	0.009
6000	-	_	-	—	-	—	0.12	0.006

Pressure/Temperature Ratings

Low Pressure				Medium Pressure				
Valve No.	Seal Material	Temperature °F (°C)	Pressure Range psig (bar)	Valve No.	Seal Material	Temperature °F (°C)	Pressure Range psig (bar)	
LR6032	Viton®	-20° to +400° (-29° to +204°)	Up to 25 (Up to 1.4) 26-350 (1.8-24.1) 351-550 (24.2-37.9)	MR6032	Viton®	-20° to +400° (-29° to +204°)	150–350 (10.3–24.1) 351–2500 (24.2–172.4)	
LR6077	Buna-N	-65° to +275° (-54° to +135°)	Up to 25 (Up to 1.4) 26-350 (1.8-24.1) 351-550 (24.2-37.9)	MR6077	Buna-N	-65° to +275° (-54° to +135°)	150–350 (10.3–24.1) 351–2500 (24.2–172.4)	
LR6062	Ethylene Propylene	-65° to +300° (-54° to +149°)	Up to 25 (Up to 1.4) 26-350 (1.8-24.1) 351-550 (24.2-37.9)	MR6062	Ethylene Propylene	-65° to +300° (-54° to +149°)	150–350 (10.3–24.1) 351–2500 (24.2–172.4)	
LR6065	Kalrez®	-40° to +550° (-40° to +288°)	Up to 25 (Up to 1.4) 26-350 (1.8-24.1) 351-550 (24.2-37.9)	MR6065	Kalrez®	-40° to +550° (-40° to +288°)	150–350 (10.3–24.1) 351–2500 (24.2–172.4)	
LR6024	Silicone	-70° to +450° (-57° to +232°)	Up to 25 (Up to 1.4) 26-350 (1.8-24.1) 351-550 (24.2-37.9)	MR6024	Silicone	-70° to +450° (-57° to +232°)	150–350 (10.3–24.1)	

High Pressure

Extra High Pressure

Valve No.	Seal Material	Temperature °F (°C)	Pressure Range psig (bar)	Valve No.	Seal Material	Temperature °F (°C)	Pressure Range	psig (bar)
HR6032	Viton®	-20° to +400° (-29° to +204°)	150–300 (10.3 to 20.7) 301–5000 (20.8 to 344.8)	XR6032	Viton®	-20° to +400° (-29° to +204°)	5000-6000 (3	44.8–414)
HR6077	Buna-N	-65° to +275° (-54° to +135°)	150–300 (10.3 to 20.7) 301–5000 (20.8 to 344.8)	XR6077	Buna-N	-65° to +275° (-54° to +135°)	5000–6000 (3	44.8–414)
HR6062	Ethylene Propylene	-65° to +300° (-54° to +149°)	150–300 (10.3 to 20.7) 301–5000 (20.8 to 344.8)	XR6062	Ethylene Propylene	-65° to +300° (-54° to +149°)	5000-6000 (3	44.8–414)
HR6065	Kalrez®	-40° to +550° (-40° to +288°)	150–300 (10.3 to 20.7) 301–5000 (20.8 to 344.8)	XR6065	Kalrez®	-40° to +550° (-40° to +288°)	5000-6000 (3	44.8–414)
HR6024	Silicone	-70° to +450° (-57° to +232°)	150-300 (10.3 to 20.7)					



Features

1 O-ring & Delta backup ring



③ Fully encapsulated seat seal

Crack Pressure Range

Select appropriate spring code

LR6000	Low Pressure	MR6000	Medium Pressure	HR6000	High Pressure	XR6000	Extra High Pressure
Spring Code	Range in PSIG (BAR)						
A	5-25 (0-2)	B	150-350 (10-24)	A	150-300 (10-21)	A	5000-6000 (345-414)
В	26-80 (2-6)	C	351-650 (24-45)	В	301-700 (21-48)		
С	81-150 (6-10)	D	651-1000 (45-69)	C	701–1300 (48–90)		
D	151–250 (10–17)	E	1001–1500 (69–103)	D	1301–2000 (90–138)		
E	251-350 (17-24)	F	1501-2000 (104-138)	E	2001-3000 (138-207)		
F	351-550 (24-38)	G	2001–2500 (138–172)	F	3001-4000 (207-276)		
				G	4001-5000 (276-345)		

How to Order

	LR60 2	<u>4 – 2MP – A</u>	<u>H M – * *</u>	* *	
			MANUAL OVER (optional,	RIDE not available for LR	or XR series)
BASIC MODEL	NUMBER		MR series	s only available up to	350 psig (24 bar).
LR60	Low pressure		HR series	s only available up to	700 psig (48 bar) .
	5–550 psig (0-38 bar)				
MR60	Medium pressure		L(HOKE)		
	150–2500 psig (10-172 bar)		,		
HR60	High pressure		SPRING CODE		
	150–5000 psig (10-276 bar)		See Crac	k Pressure table abo	ve
XR60	Extra high pressure				
	5000–6000 psig		PORT SIZE		
	(345-414 bar)			Inlet	Outlet
			2MP	¼″ male NPT	¹ ⁄4″ female NPT
SEAL MAIERI			2M4G	1/4" male NPT	1/4" GYROLOK®
24	Silicone^		4G	1/4" GYROLOK®	1/4" GYROLOK®
32	Viton®		2RT	¼" BSPT male	¹ ⁄4" BSPT female
62	Ethylene propylene		6Z	6mm GYROLOK®	6mm GYROLOK®
65	Kalrez∞		8Z	8mm GYROLOK®	8mm GYROLOK®
11	Buna-N		12Z	12mm GYROLOK®	12mm GYROLOK®

R6000 valves are CE 0035 / PED approved

- * Silicone seals are not available for XR series.
- * Silicone seals for MR series only available up to 350 psig (spring code B)
- * Silicone seals for HR series only available up to 300 psig (spring code A)

****Customer can request a specific cracking pressure when ordering. To specify, add the cracking pressure as -PSIG (not BAR) after the M for Manual Override (if no override, add value after "H"). Otherwise, the factory sets the valve at the nominal midpoint of the cracking pressure range selected. Valves with specific cracking pressure include standard factory installed lockwire.

R6000 Service Kits

LR Kit includes: end seat-to-body O-ring, bonnet-to-body O-ring, and bonnet seal O-ring.

MR/HR/XR Kit includes: end seat-to-body O-ring, bonnet-to-body O-ring, seat O-ring, and Delta seal. Replacement of Delta seal requires use of installation tool and resizing tool. Consult factory for details.

To Order, add K to front of valve part number (example: KLR6024-2MP-AH).





6600 Series **Bleed Valves**



HOKE® 6600 Series bleed valves allow for guick, easy manual bleed-off of system pressure. These valves come in a variety of configurations, including straight, elbow, union, and tee.

Features

- Compact installation
- 316 stainless steel construction •
- Straight, union, elbow or tee flow configurations
- Integral tube ends
- Special High Tolerance NPT Thread

Benefits

- Safe
- Reliable •
- GYROLOK[®] fitting connections eliminate pipe thread leak paths

Typical Applications

- Air, hydraulic systems, or natural gas
- Venting or purging of liquids and gases
- For use on instrument manifolds

Technical Data

Body Material
Maximum Operating Pressure
Operating Temperature Range
End Connections
Average Operating Torque @
Maximum Operating Pressure

316 stainless steel 6000 psig @ 70° F (414 bar @ 21° C) -40° F to +600° F (-40° C to +316° C) 1/4", 3%", 1/2" GYROLOK® 40 in-lbs

Operating Instructions

• Valve is operated by turning the bleed port nut with a wrench. Use appropriate back-up wrench to hold body, while turning bleed nut.

- As the bleed nut is turned, pressure forces the ball off the seat. Pressure is vented through a hole drilled in the nut, angled back toward the body of the valve. Make sure flow is directed away from user.
- Those using the valves should wear protective clothing, especially goggles.
- No attempt should be made to repair or dismantle the valve.

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6600 Series

Dimensions



6610 Series: Straight Valve

	Р	Α	B'	C
Part Number	Thread NPT	Open	Hex	Wrench Flat
6610M2Y	1/8″	1% (35mm)	5%″	1/2″
6610M4Y	1/4‴	1132 (39mm)	5%″	%16″
6610M6Y	3%‴	11%2 (40mm)	5%″	11/16″
6610M8Y	1/2″	113/16 (46mm)	5%″	7%″
6610001	1/4″	1132 (39mm)	58 "	%16″

6631 Series Directed Bleed Valves

HOKE[®]'s 6631 Bleed Valve allows the user to direct the bled fluid as desired. The valve can be ordered with a $1\frac{1}{2}$ " (38mm) press fit handle by adding an "H" suffix to the valve part number (e.g., **6631H4YH**). To operate, simply turn the $\frac{1}{16}$ " nut with a wrench or the optional loose fit stainless steel bar handle, part number **59-878**. Please consult your local distributor for details.

Caution: If the vented fluids are not going to be contained, the vent tube must be positioned at installation so that it is directed away from the operating personnel.

Technical Data

Body Material	316 stainless steel
Maximum Operating Pressure	5000 psig @ 70° F (345 bar @ 21° C)
Operating Temperature Range	-20° F to +425° F (-29° C to +218° C)
Orifice	0.125 (3.2mm)

Benefits

Safety

O-ring packaging prevents leakage through stem threads

Reliability

• All valves are tested for bubble-tight leakage

Typical Applications

• Venting or purging of liquids and gases

• For use on gauge valves



Dimension Chart

Part Number	A Inlet	В	C	D	E
6631H4Y	1/4″	¾″ (19mm)	2″ (51mm)	¹¹ /16″ (17mm)	¹³ /16″ (30.5mm)
6631H84Y	1/2″	² %2″ (23mm)	2½″ (54mm)	¹ 1/16″ (17mm)	¹³ / ₁₆ " (30.5mm)

Materials of Construction

	Part	Material
1	Body	316 stainless steel
2	Stem	316 stainless steel
3	Vent tube	316 stainless steel
4	0-ring	Fluoroelastomer

GYROLOK[®] is a registered trademark of HOKE[®].

Dimensions for reference only and are subject to change without notice.



6600 Series

Dimensions





6680 Series: Tee Valve

	Т			В	B'	C		
Part Number	Tube O.D.	Α	A'	Hex	Hex	Wrench Flat	М	M'
6680G4Y	1/4″	2%4″ (54mm)	25⁄4″ (53mm)	%16″	5%″	7⁄16″	11⁄16″ (27mm)	1¼₄″ (27mm)
6680G6Y	3%″	2 ² ¾4″ (60mm)	213/4" (52mm)	¹¹ / ₁₆ ″	5%″	1/2″	2¾6″ (56mm)	1¼₄″ (27mm)
6680G8Y	1/2″	257/64" (73mm)	21364 (68mm)	7%″	5%″	¹¹ / ₁₆ ″	1²¾4″ (37mm)	11/32" (31mm)





6660 Series: Elbow Valve







6670 Series: Union Valve

	Т			В	B'	C	
Part Number	Tube O.D.	Α	A'	Hex	Hex	Wrench Flat	Μ
6670G4Y	1/4″	²³ / ₃₂ " (53mm)	1²¾4″ (35mm)	%16″	5%″	7/16″	1‰4″ (27mm)
6670G6Y	3⁄8″	2 ²¹ ⁄ ₄ " (59mm)	1‰″ (37mm)	¹¹ / ₁₆ ″	5%″	1/2″	1¾2″ (28mm)
6670G8Y	1/2″	25764 (73mm)	1 ²¹ / ₃₂ " (42mm)	7/8″	5%″	¹¹ / ₁₆ ″	132" (31mm)



6300 Series Micron Filters



Features

Technical Data Body

_						
	models					
•	Choice of	of	in-line,	removable,	or	bypass filter

- NPT female and GYROLOK® tube fitting connections
- Variety of micron filtering ranges from 2 to 55µ
- Filter elements are available in 316 stainless steel
- Filter elements are easily replaced
- Bypass models permit purging and sampling of process fluid
- Bodies available in brass and 316 stainless steel
- Special High Tolerance NPT Thread

Applications

- Trap foreign particles
- Protect sensitive equipment
- System purging
- Pressure damper

reconnear Data	
Body Material	316 stainless steel, brass
Maximum Operating Pressure	Brass: 3000 psig @ 70° F (211 kg/cm ² @ 21° C) Stainless steel: 5000 psig @ 70° F (352 kg/cm ² @ 21° C)
Operating Temperature Range	-60° F to +450° F (-51° C to +232° C)
Micron Range	2 to 55µ
Cv Factor Range	0.006 to 0.42

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6300 Series

Diagrams & Flow Curves



How to Order

Select and specify filter by part number, according to desired connections and materials of construction. Be sure to add the identifying digit of the desired filter element to the filter part number from the chart below. To order a 316 stainless steel in-line type, ½" NPT female filter with an element range of 5 to 9µ, add "-2" (e.g., 6312F2Y). To order a filter without a filter element, insert the number "-O" in the model number desired (e.g., 6310F2Y). Outlet



6310 Series: In-line Filters

A & B Connections	Brass	316 Stainless Steel
1/8" NPT female	631xF2B	631xF2Y
1/4" NPT female	631xF4B	631xF4Y
1/8" GYROLOK®	—	631xG2Y
1/4" GYROLOK®	631xG4B	631xG4Y



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6320 Series: Removable Filters			6330 Series: Bypass Filters			
A & B Connections	Brass	316 Stainless Steel	A & B Connections	316 Stainless Steel		
½″ GYROLOK®	632xG2B	632xG2Y	1/4" NPT female	633xF4Y		
1/4" NPT female	632xF4B	632xF4Y	1/8" GYROLOK®	633xG2Y		
1/4" GYROLOK®	632xG4B	632xG4Y	1/4" GYROLOK®	633xG4Y		
6mm GYROLOK®	_	632xG6YMM				

316 Stainless Steel Elements

Micron Range	For ½" & ¼" Size Housings	For ¾" & ½" Size Housings	ldentifying Digit	Cv Factor
2 to 5µ	80410–1 80409–1*	_	-1	0.006
5 to 9µ	80410–2 80409–2*	-	-2	0.055
10 to 15µ	80410–3 80409–3*	91442–1	-3	0.33
20 to 30µ	80410–4 80409–4*	-	-4	0.39
40 to 55µ	80410–5 80409–5*	_	-5	0.42
0.5µ	80410-6	_	-6	
100µ	80410-7	_	-7	

* For use with 6330 Series Bypass-type housing



1500 Series Forged Body Toggle Valves



Featuring a simple, reliable design concept, this low-maintenance valve is well suited for a wide variety of applications. The toggle handle provides easy on-off operation and visual indication of flow.

Benefits

Safety

• Handle gives visual indication of stem position

Instant control

• Toggle handle provides instant on-off control *Vacuum service*

- Elastomeric seals provide leak-tight sealing under positive pressure and vacuum conditions *Reliability*
- All valves are tested for bubble-tight leakage at both seat and packing

Installation variety

 Choose from a broad selection of male NPT, female NPT and GYROLOK[®] tube fitting connections

Handle options

• Color-coded handles are available for identifying system fluids

Panel mounting

• Panel mounting is standard on all models

Typical Applications

- Chromatographs and mass spectrometers
- Manometer shutoff valves
- Air lines
- Instrument panels

Technical Data

Body Material*	316 stainless steel, brass
Maximum	0.125 orifice: 200 psig (14 bar)
Operating Pressure @70° F (21° C)	0.219 orifice: 100 psig (7 bar)
Operating Temperature Range	-20° F to +300° F (-29° C to +149° C)
Orifice Sizes	0.125 to 0.219 (3.2 to 5.6mm)
Cv Factors	0.23 to 0.60
End Connection	1/2" to 1/4" GYROLOK®, 1/2" to 3/2" NPT

* Consult factory for other materials

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1500 Series

Materials of Construction

Part	Brass Valves	316 Stainless Steel Valves
Body	Brass	316 stainless steel
Stem	Brass	316 stainless steel
Stem packing	Viton [®] o-ring	Viton [®] o-ring
Stem disc	Viton®	Viton®
Spring	18-8 stainless steel	18-8 stainless steel
Bonnet	Brass	316 stainless steel
Handle, molded	Nylon, black	Nylon, black
Panel mounting nut	Nickel-plated brass	Nickel-plated brass



Dimensions



1500 Series Globe Pattern



¹⁵⁰⁰ Series Angle Pattern

1500 Series: Globe Pattern

Inlet A and Outlet B		C (Closed)	D (Open)	E	Н	H1
	inch	147/64	241/64	2%	²⁵ ⁄64	3⁄4
78 UTROLOR	mm	44	67	60	10	19
14" male NIPT	inch	147/64	241/64	13⁄4	²⁵ ⁄64	3⁄4
78 IIIdle NFT	mm	44	67	44	10	19
14" fomale NDT	inch	147/64	241/64	13⁄4	²⁵ ⁄64	3⁄4
^{5/8} Ternale INPT	mm	44	67	44	10	19
	inch	147/64	241/64	2¾	²⁵ ⁄64	3⁄4
74 GIROLOK-	mm	44	67	60	10	19
1/″ male NDT	inch	147/64	241/64	13⁄4	²⁵ ⁄64	3⁄4
74 IIIdle NFT	mm	44	67	44	10	19
1/" fomale NDT	inch	157/64	2 ⁵¹ /64	1%	31/64	¹⁵ ⁄16
⁴ ienale NP1	mm	48	71	48	12	24
34" male NIDT	inch	157/64	2 ⁵¹ /64	1%	³¹ ⁄64	15/16
78 IIIdle NPT	mm	48	71	48	12	24

Dimensions for reference only, subject to change.

1500 Series: Angle Pattern

Inlet A and Outlet B		C (Closed)	D (Open)	E	Н	H1
1/8" GYROLOK®	inch	143/64	237/64	11/16	17/64	¹¹ / ₁₆
	mm	42	66	36	28	17
'‰″ male NPT	inch	123/32	2%	117/64	7/8	3⁄4
	mm	44	67	32	22	19
‰″ female NPT	inch	123/32	2%	117/64	7/8	3⁄4
	mm	44	67	32	22	19
1/4" GYROLOK®	inch	1 ²³ /32	2%	119/32	113/64	3⁄4
	mm	44	67	40	31	19
1⁄4" male NPT	inch	1 ²³ /32	2%	111/64	7/8	3⁄4
	mm	44	67	32	22	19

Dimensions for reference only, subject to change.

Panel Mounting

Panel hole: for $\frac{1}{4}$ female and $\frac{3}{8}$ male models (0.219 orifice) = $\frac{33}{4}$ (13.1mm) diameter all other models (0.125 orifice) = $\frac{23}{4}$ (11.5mm) diameter

Panel thickness = $\frac{3}{16}$ (4.7mm) maximum

1500 Series

How to Order: Standard Valves

1500 Series: Globe Pattern

Order by Part Number					
End Connections	Brass	316 Stainless Steel	Orifice	Cv	
‰″ GYROLOK [®]	1513G2B	1513G2Y	0.125	0.23	
½" male NPT	1513M2B	1513M2Y	0.125	0.23	
1/8" female NPT	1513F2B	1513F2Y	0.125	0.23	
1/4" GYROLOK®	1513G4B	1513G4Y	0.125	0.23	
1/4" male NPT	1513M4B	1513M4Y	0.125	0.23	
1/4" female NPT	1533F4B	_	0.219	0.60	
¾" male NPT	1533M6B	—	0.219	0.60	



1513G4B



1523F2B

1500 Series: Angle Pattern

	Order by Part Number		
End Connections	Brass	Orifice	Cv
½″ GYROLOK®	1523G2B	0.125	0.31
½" male NPT	1523M2B	0.125	0.31
¼″ female NPT	1523F2B	0.125	0.31
¹ ⁄4″ GYROLOK®	1523G4B	0.125	0.31
1/4" male NPT	1523M4B	0.125	0.31

Handle	Options
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Uption	Description		Part Number
Handle positioning kit	Secures handle against rotation; permits pl handle in any position on a panel face.	acement of	1500K5
Flip-shut pin	Pin prevents handle from being left in the o	open position.	59–544
Colored handles	Standard handle is black	Red handle	95626-031
		Yellow handle	95626-032
		Blue handle	95626-033



Handle Positioning Kit #1500K5



Handle with Flip-shut Pin #59–544

Spare Parts

Spare parts and repair kits are available for all toggle valves. Please contact your distributor for specific information.

Cleaning and Testing

When ordering, please specify if oxygen cleaning or helium leak testing is required.

Additional Sizes

Additional sizes and options are available on special request. Please consult your local HOKE® distributor.

GYROLOK® is a registered trademark of HOKE[®]. Viton[®] is a registered trademark of DuPont Dow Elastomers.





6800 Series Gauge Valves



Features

- Corrosion-resistant bar stock 316 stainless steel bodies
- Packing below stem threads prevents contamination and wash away of thread lubricants to assure long valve life
- Hardened 17-4 PH 2-piece , non-rotating stem point minimizes seat galling and provides an excellent metal-to-metal seat for positive shutoff
- Low profile bonnet assembly and large diameter stem reduces damage to bonnet and stem assembly
- Roll pin locks bonnet in the valve body to prevent accidental removal
- Choice of 5[%] long body for standard process use or 7[%] body for insulated piping applications
- Three outlets meet individual gauge requirements
- Polyethylene cap protects stem and bonnet from external damage
- Rugged large handle provides easy grip and control
- All models are stamped with maximum operating pressures on valve body
- High temperature packing is available on special order
- Special High Tolerance NPT Thread

Technical Data

Body Material	316 stainless steel
Maximum Operating Pressure	 6000 psig @ -65° to +200° F (414 bar @ -54° C to +93° C) 3000 psig @ +450° F (207 bar @ +232° C)
Operating Temperature Range	-65° F to +450° F (-54° C to +232° C)
Orifice Sizes	6801L8Y : 0.156" (3.96mm) All others: 0.187" (4.75mm)

6800 Series

Materials of Construction







Dyna-Pak® Packing

inch

mm

inch

mm

inch

mm

inch

mm

A

11/4

32

2%

67

2%

67

2%

67

Dimensions Model Number

6801L8Y

6802L8Y

6803L128Y

6805L128Y

TFE Packing (6801L8Y only)

D

%16

14

27/32

21

27/32

21

²⁷/₃₂

21

F

31⁄4

83

5%

136

5%

136

7%

188

Е

1¾

44

21/4

57

21/4

57

21/4

57

C

1

25

23/32

55

25/32

55

432

106

В

217/32

64

3

75

3

75

3

75

	Part	316 Stainless Steel Models
1	Body	316 stainless steel
2	Housing	316 stainless steel
3	Handle	303 stainless steel
4	Hex nut	18-8 stainless steel
5	Packing nut	XM-28 stainless steel
6	Lock nut	316 stainless steel
7	Packing*	Dyna-Pak [®]
8	Stem	316 stainless steel
9	Washer	316 stainless steel
10	Disc	17-7 PH stainless steel
11	Stem point	17-4 PH stainless steel

* Model 6801L8Y uses a single-piece molded PTFE packing system.





How to Order: Standard Valves

Connections		Order by Part Number	Body Length	
Inlet	Outlet	316 Stainless Steel	Inch	mm
1/2" NPT male	1/2" NPT female	6801L8Y*	31⁄4	83
1/2" NPT male	1/2" NPT female (3x)	6802L8Y	5%	136
1/2" NPT female	1/2" NPT female (3x)	6802F8Y	5%	136
34" NPT male	1/2" NPT female (3x)	6803L128Y	5%	136
34" NPT male	1/2" NPT female (3x)	6805L128Y	7%	188

Furnished with bleed plug drilled in body * Model 6801L8Y uses a single-piece molded PTFE packing system

Dyna-Pak[®] is a registered trademark of HOKE[®].



Notes	

Notes	

32 HOKE



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