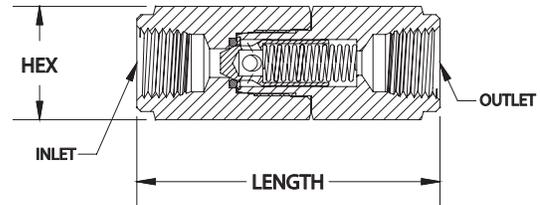




Figure 1: Check Valve

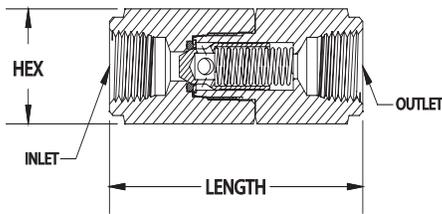


Gilmore's Pneu-Hydro check valves are constructed of 316 stainless steel for strength and corrosion resistance and meet the requirements of NACE MR0175. The poppet is spring loaded for positive operation regardless of orientation.

Back pressure and spring loads are carried by a metal stop rather than the o-ring to ensure long seal life and minimum maintenance.

Features & Benefits

- Smooth, chatter-free performance
- Reliable and repeatable cracking and reseating pressures
- Also available in Hastelloy, Duplex Stainless Steel, Inconel 625, Monel 400
- Standard seal materials are Buna-N and Viton
- Seal material selections are available for compatibility with virtually any fluid chemistry



FUNCTIONAL DESIGN SPECIFICATION

Maximum Allowable Working Pressure	10,000 psi
Flow Coefficient (Cv) – 1/4"	0.55
Flow Coefficient (Cv) – 3/8" & 1/2"	1.3
Operating Temperature Range – Buna N Seals	-40° F to 250° F
Operating Temperature Range – Viton Seals	-20° F to 400° F
Hydrostatic Proof Pressure	15,000 psi

Part Number	Dimensions (in)					
	Buna-N	Viton	Inlet	Outlet	L	Hex
PH301F4Q	PH301		1/4" NPTF	1/4" NPTF	2.28	0.75
PH301M4Q	PH301		1/4" NPTM	1/4" NPTM	2.34	0.75
PH301M4F4Q	PH301M4F4Q-V		1/4" NPTM	1/4" NPTF	2.25	0.75
PH301F6Q	PH301F6Q-V		3/8" NPTF	3/8" NPTF	3.13	1.06
PH301M8Q	PH301M8Q-V		1/2" NPTM	1/2" NPTM	3.63	1.06

Note: All models are designed for 5 psi cracking pressure. To order valves with the optional pressures shown above, add the indicated suffix number to the basic model number.

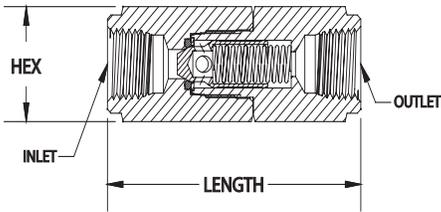
Crack pressure suffix number

2 psi	-1
10 psi	-2
25 psi	-3

STANDARD REPAIR KITS

Repair Kits for Valves with Buna-N Seals 1/4" NPT		
Repair Kit Part Number	For Valve Part Number	For Valve Set Pressure Range
PH613396	PH301F4Q, PH301M4Q, PH301M4F4Q	5 psi
PH613396-2	PH301F4Q-1, PH301M4Q-1, PH301M4F4Q-1	2 psi
PH613396-10	PH301F4Q-2, PH301M4Q-2, PH301M4F4Q-2	10 psi
PH613396-25	PH301F4Q-3, PH301M4Q-3, PH301M4F4Q-3	25 psi

Repair Kits for Valves with Viton Seals 1/4" NPT		
Repair Kit Part Number	For Valve Part Number	For Valve Set Pressure Range
PH613396-V	PH301F4Q-V, PH301M4Q-V, PH301M4F4Q-V	5 psi
PH613396-2V	PH301F4Q-1V, PH301M4Q-1V, PH301M4F4Q-1V	2 psi
PH613396-10V	PH301F4Q-2V, PH301M4Q-2V, PH301M4F4Q-2V	10 psi
PH613396-25V	PH301F4Q-3V, PH301M4Q-3V, PH301M4F4Q-3V	25 psi



STANDARD REPAIR KITS

Repair Kits for Valves with Buna-N Seals 3/8" & 1/2" NPT

Repair Kit Part Number	For Valve Part Number	For Valve Set Pressure Range
PH613581	PH301F6Q, PH301F6Q-1, PH301M8Q, PH301M8Q-1	2 & 5 psi
PH6133581-10	PH301F6Q-2, PH301M8Q-2	10 psi
PH613581-25	PH301F6Q-3, PH301M8Q-3	25 psi

Repair Kits for Valves with Viton Seals 3/8" & 1/2" NPT

Repair Kit Part Number	For Valve Part Number	For Valve Set Pressure Range
PH613581 -V	PH301F6Q-V, PH301F6Q-1V, PH301M8Q-V, PH301M8Q-1V	2 & 5 psi
PH613581-10V	PH301F6Q-2V, PH301M8Q-2V	10 psi
PH613581-25V	PH301F6Q-3V, PH301M8Q-3V	25 psi