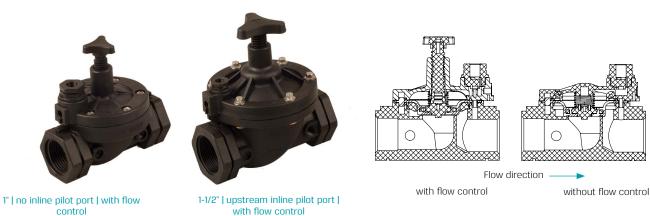
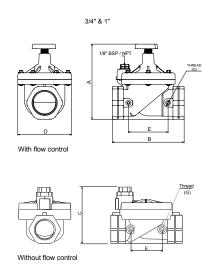
Diaphra	agm :											
	Plastic											. 156
	Metal .											. 158
Globe :												
	Plastic .											. 160
	Metal .											. 164
	Manifold											. 170
Pinch \	/alve											172

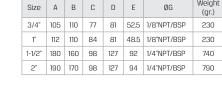
# Diaphragm | Plastic

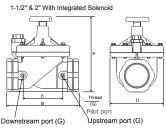
# **G75-S |** Hydraulic 3/4" - 2" 2 Way



## **Dimensions**







## **Technical Data**

Function	2 Way
Ports size	3/4", 1", 1-1/2", 2" BSPT & NPT
Pressure range	0.3 to 10bar
Temperature range	Fluid: 5°C to 50°C (no freezing)
Materials in contact with media	Main Valve: Reinforced Nylon Diaphragm: NR Seals: Buna - N Spring: Stainless Steel AISI 300 series

<sup>\*</sup> **Head Loss** : Please refer to page 110

#### How to Order

IIOVV	ιυ	oruei					
G75-S	-	PORT		FUNCTION INLINE PILOT PORT	S	FLOW CONTROL	_
		3/4" BSPT	50	none	0	with	5
		3/4" NPT	51	upstream only	1	without (1)	6
		1" BSPT	60	downstream only	2		
		1" NPT	61	both	3		
		1" slip in	62				
		1-1/2" BSPT	70				
		1-1/2" NPT	71				
		2" BSPT	80				
		2" NPT	81				

## Example : G75-S-5015

G75 hydraulic valve, 3/4" BSPT, 1/8" upstream inline pilot port, with flow control.



(1) 3/4", 1" valves only

<sup>\*</sup> To order valves manufactured according to your specific requirements, please contact our technical sales department.

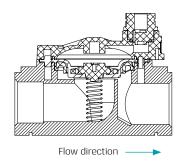


# Diaphragm | Plastic

# G75-Z | Hydraulic zero differential pressure 3/4" - 2" 2 Way NO

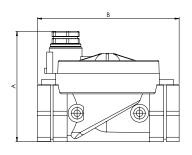


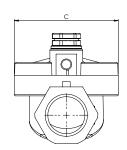
1" | NO without flow control



## **Dimensions**

Size	А	В	С
3/4"	77	110	81
1"	84	110	81
1-1/2"	98	160	127
2"	98	170	127





## **Technical Data**

Ports size	3/4", 1", 1-1/2", 2" BSP & NPT
Pressure range	Line: 0-6 bar   Pilot: 1.5 bar above line pressure
Temperature range	Fluid: 5°C to 50°C (no freezing)
Materials in contact with media	Main Valve: Reinforced Nylon Diaphragm: NR Seals: Buna-N Spring: Stainless Steel AISI 300 series

<sup>•</sup> For overall dimensions, refer to page 156

## How to Order

G75-Z	-	PORT		FUNCT	ION	FLOW CON	TROL
		3/4" BSPT	50	2W NO	2	with	5
		3/4" NPT	51			without (1)	6
		1" BSPT	60				
		1" NPT	61				
		1-1/2" BSPT	70				
		1-1/2" NPT	71				
		2" BSPT	80				
		2" NPT	81				

## Example: G75-Z-6025

G75 inline hydraulic valve, 1" BSPT, 2W NO with flow control



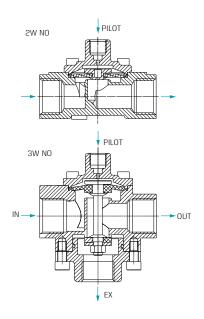
(1) 3/4", 1" valves only

<sup>\*</sup> To order valves manufactured according to your specific requirements, please contact our technical sales department.

# **Diaphragm |** Metal

# GEM-E | External pilot operated 1/4" - 1/2" 2 Way, 3 Way NO





## **Technical Data**

Function	2 Way, 3 Way NO				
Ports size	1/4", 3/8", 1/2" BSP & NPT				
Pressure range	See table				
Kv (l/min)	See table				
Temperature range	Fluid: -10°C to 80°C (no freezing)				
lemperature range	Ambient: -10°C to 50°C				
	Main Valve:				
Materials in contact	Brass, Stainless Steel AISI 316				
with media	Seals:				
	NBR				
Media	Air, gas, water, fuel, oil etc				

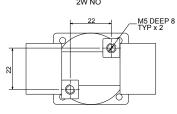
Size	Orifice (mm)	Pressure (bar)	Kv(l/Min)
1/4"	8		12
3/8"	8	0.5 to 10	16
1/2"	12		35

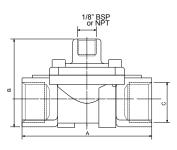
<sup>\*</sup> Pilot pressure should be at least 1 bar higher than process fluid

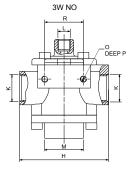
# Diaphragm | Metal | GEM-SOL | External pilot operated 1/4"-1/2" 2, 3 Way NO

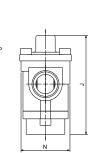
## **Dimensions**

#### 1/4" 3/8" 1/4",3/8" BSP/ NPT 58 1/2" 69 47.5 1/2" BSP/NPT 3W NO Size H 2W NO









2W NO Size A

1/4" 58

В

Optional Mounting Bracket Size H I J

1/4" 15 25 Ø4.5

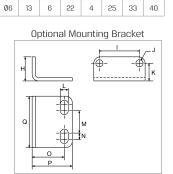
20 30

61 1/4"BSP/NPT 1/8"BSP/NPT

77.5 1/8"BSP/NPT 1/8"BSP/NPT

K L

11 5 14



25 32 M4

30 38 M5 9

Ν 0 Р Q

4

20 25 32

M

## How to Order

GEM-E	-	BODY (1)		PORT		FUNCTI	ON	SEALS		-	BRACKET	(4)
		Brass	2	1/4" BSP	20	2W NO	2	NBR	N		without	0
		Stainless Steel <sup>(2)</sup>	3	1/4" NPT	21	3W NO	4				with	1
				3/8" BSP (3)	30							
				3/8" NPT (3)	31							
				1/2" BSP	40							
				1/2" NPT	41							

## Example: GEM-E-2202N-0

GEM-SOL external pilot operated, brass, 1/4"BSP, 2W NO, NBR, without mounting bracket.



- (1) 3W NO Brass only
- (2) Stainless Steel valves only available in 2 Way
- (3) 3/8" unavailable for 3 Way NO
- (4) Mounting bracket available only for 3 Way NO

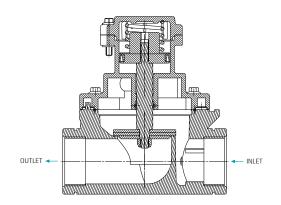
<sup>\*</sup> To order valves manufactured according to your specific requirements, please contact our technical sales department.

# Globe | Plastic

# GC | 3/4" - 2" 2 Way NC



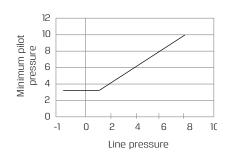
2" | 2W NC



## Technical Data

Function	2 Way NC				
Ports size	3/4", 1", 1-1/2", 2" BSP & NPT				
Pressure range	See table				
Tomporoturo rongo	Fluid: -5°C to 60°C (no freezing)				
Temperature range	Ambient: -10°C to 50°C				
	Main Valve:				
Materials in contact	Reinforced Nylon 6				
with media	Diaphragm:				
	NBR, FPM (Viton®), EPDM, Polyurethane				

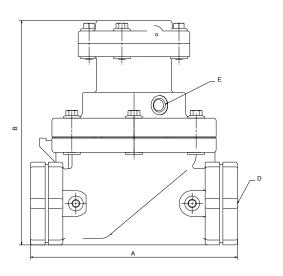
Size	Orifice (mm)	Line Pressure			
3/4", 1"	27	Vacuum - 10 bar			
1-1/2", 2"	55	Vacuum - 10 bar			

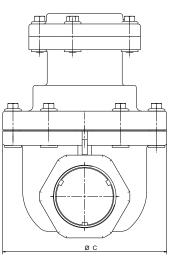


# **Globe |** Plastic | GC | 3/4" - 2" 2 Way NC

## **Dimensions**

Size	Α	В	С	D	Е		
3/4"	110	108	81	3/4"	1/8"BSP/NPT		
1"	110	108	81	1"	1/8"BSP/NPT		
1-1/2"	160	174	127	1-1/2"	1/8"BSP/NPT		
2"	170	185	127	2"	1/8"BSP/NPT		





## How to Order

GC	-	BODY		TYPE		PORT		-	FUNCTION		SEALS				
		Plastic 4		Globe	1	3/4"BSP <b>50</b>			2W NC	1	NBR	N			
						3/4"NPT	51				FPM (Viton®)	V			
						1"BSP	60				EPDM	Ε			
									1"NPT	61				Polyurethane	Р
						1-1/2"BSP	70								
						1-1/2"NPT	71								
						2"BSP	80								
						2"NPT	81								

## Example: GC-4160-1N

GC Globe cylinder, nylon body, 1"BSP, 2W NC, NBR seals.



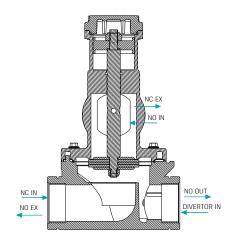
<sup>\*</sup> To order valves manufactured according to your specific requirements, please contact our technical sales department.

# Globe | Plastic

# GC | General purpose 3/4" - 2" 3 Way



1-1/2" | General purpose

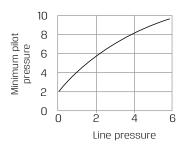


## Technical Data

Function	3 Way
Ports size	3/4", 1", 1-1/2", 2" BSP & NPT
Pressure range	See table
T	Fluid: -5°C to 60°C (no freezing)
Temperature range	Ambient : -10°C to 50°C
	Main Valve:
Materials in contact	Reinforced Nylon 6
with media	Seal seat:
	Polyurethane

<sup>•</sup> Use a 5x2 pilot valve to control the valve.

Size	Orifice (mm)	Line Pressure
3/4", 1"	27	Vacuum - 5 bar
1-1/2", 2"	55	Vacuum - 5 bar



# Globe | Plastic | GC | General purpose 3/4" - 2" 3 Way

С D

81 3/4"

81

126 1-1/2

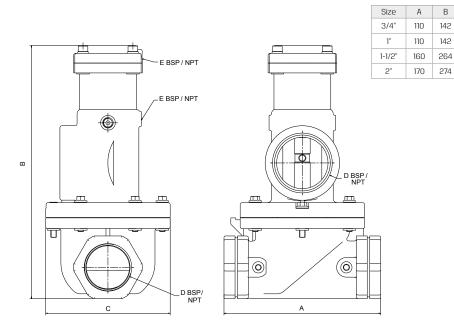
126

1/8"BSP/NPT

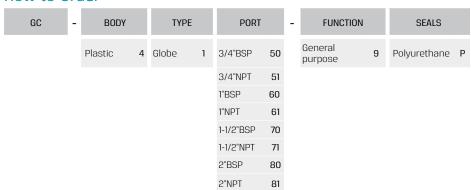
1/8"RSP/NPT 1/8"BSP/NPT

1/8"BSP/NPT

## **Dimensions**



## How to Order



## Example: GC-4160-9P

GC Globe cylinder, nylon body, 1"BSP, 3W with polyurethane seals.



<sup>\*</sup> To order valves manufactured according to your specific requirements, please contact our technical sales department.

# **Globe |** Metal

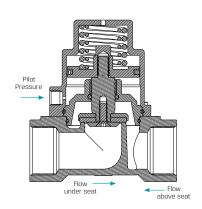
# GC | 1/4"- 1" 2 Way NC





Plastic cover

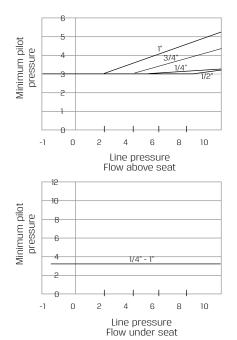
Brass cover



## Technical Data

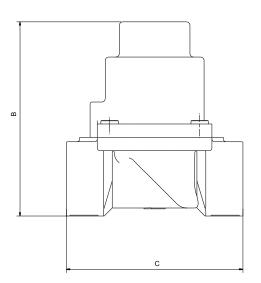
Function	2 Way NC
Ports size	1/4", 3/8", 1/2", 3/4", 1" BSP & NPT
Pressure range	See table
Tomporatura rango	Fluid: -5°C to 60°C (no freezing)
Temperature range	Ambient : -10°C to 50°C
	Main Valve:
Materials in contact	Brass or Stainless Steel AISI 316
with media	Seals:
	NBR/PU, FPM (Viton®), EPDM and PTFE

Size	Orifice (mm)	Line Pressure
1/4"	8	Vacuum - 10 bar
3/8", 1/2"	12	Vacuum - 10 bar
3/4"	20	Vacuum - 10 bar
1"	25	Vacuum - 10 bar

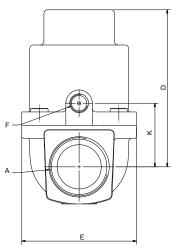


# **Globe |** Metal | GC | 1/4" - 1" 2 Way NC

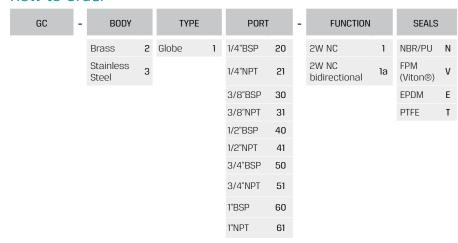
## **Dimensions**



Size	А	В	С	D	Е	K	F
1/4"	1/4"BSP	62	58	50	32	23	1/8"BSP
3/8",1/2"	3/8",1/2"BSP	78	69	65	38	27	1/8"BSP
3/4"	3/4"BSP	86	89	69	55	34	1/8"BSP
1"	1"BSP	110	100	89	65	36	1/8"BSP



## How to Order



## Example: GC-2160-1N

GC Globe cylinder, brass body, 1" BSP, 2W NC, NBR seals.

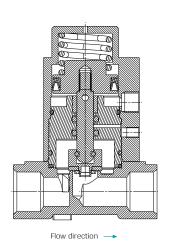


<sup>\*</sup> To order valves manufactured according to your specific requirements, please contact our technical sales department.

# **Globe |** Metal

# GC-ST | For steam 3/8" - 1" 2 Way NC, NO

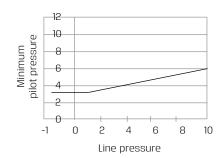




## Technical Data

Function	2 Way NC, NO
Ports size	3/8", 1/2", 3/4", 1" BSP & NPT
Pressure range	See table
Tomporoturo rongo	Fluid: -10° to 150°C (no freezing)
Temperature range	Ambient : -10°C to 50°C
	Main Valve:
Materials in contact	Brass or Stainless Steel AISI 316
with media	Diaphragm:
	PTFE

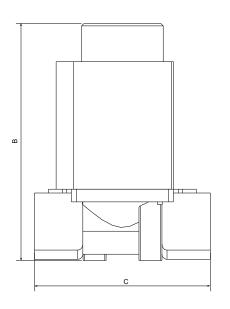
Size	Orifice (mm)	Line Pressure
3/8", 1/2"	12	Vacuum - 10 bar
3/4"	20	Vacuum - 10 bar
1"	25	Vacuum - 10 bar

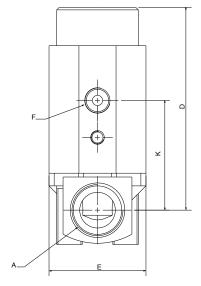


# Globe | Metal | GC | For steam 3/8" - 1" 2 Way NC, NO

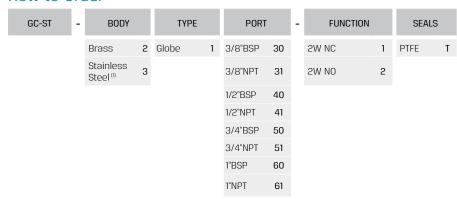
## **Dimensions**

Size	А	В	С	D	Е	F	K
3/8",1/2"	3/8",1/2"	93	69	79.5	38	1/8"	43
3/4"	3/4"	98.5	90	81.5	55	1/8"	50.5
1"	1"	-	100	-	65	1/8"	-





## How to Order



## Example: GC-ST-2160-1T

GC Globe cylinder, brass body, 1"BSP, 2W NC, PTFE seals.



(1) Available only in 3/8" and 1/2"

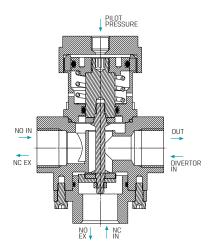
<sup>\*</sup> To order valves manufactured according to your specific requirements, please contact our technical sales department.

# **Globe |** Metal

# GC | General purpose 1/4" - 1/2" 3 Way



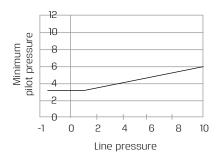
1/2" | General purpose



## Technical Data

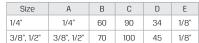
Function	3 Way
Ports size	1/4", 3/8", 1/2" BSP & NPT
Pressure range	See table
Tomporature range	Fluid: -5°C to 60°C (no freezing)
Temperature range	Ambient : -10°C to 50°C
	Main Valve:
Materials in contact	Brass
with media	Seals seat:
	NBR, FPM (Viton®), EPDM

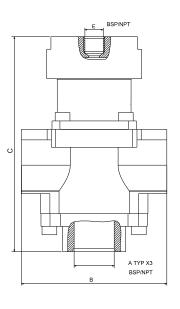
Size	Orifice (mm)	Line Pressure
1/4"	8	Vacuum - 10 bar
3/8", 1/2"	12	Vacuum - 10 bar

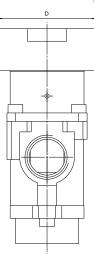


# Globe | Metal | GC | General purpose 1/4" - 1/2" 3 Way

## **Dimensions**





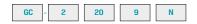


## How to Order

GC	-	BODY		PORT		FUNCTION		SEALS	
		Brass	2	1/4"BSP	20	General purpose	9	NBR	N
				1/4"NPT	21			FPM (Viton®)	V
				3/8"BSP	30			EPDM	Ε
				3/8"NPT	31				
				1/2"BSP	40				
				1/2"NPT	41				

## Example: GC-2209N

GC cylinder, brass body, 1/4"BSP, 3W with NBR seals.



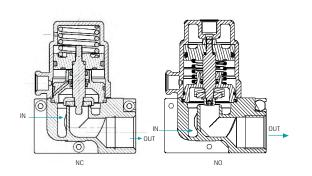
<sup>\*</sup> To order valves manufactured according to your specific requirements, please contact our technical sales department.

# Globe | Manifold

# GC-SM | Stackable manifold 1/4", 1/2" 2 Way NC, NO



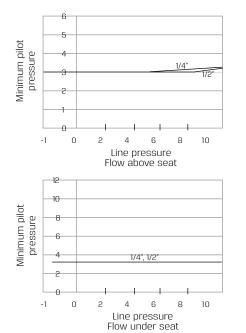
4 stations | Stainless Steel



## Technical Data

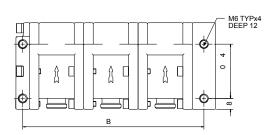
Function	2 Way NC, NO			
Ports size	1/4", 1/2" BSP & NPT			
Pressure range	See table			
Tomporature range	Fluid: -5°C to 60°C (no freezing)			
Temperature range	Ambient: -10°C to 50°C			
	Main Valve:			
Materials in contact	Brass or Stainless Steel AISI 316			
with media	Seals:			
	NBR, FPM (Viton®), EPDM			

Size	Orifice (mm)	Line Pressure
1/4"	8	Vacuum - 10 bar
1/2"	12	Vacuum - 10 bar

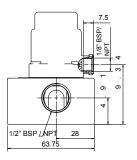


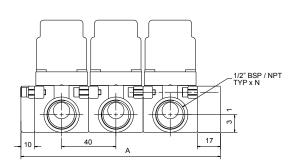
# Globe | Manifold | GC | Stackable 1/4", 1/2" 2 Way NC, NO

## **Dimensions**









## How to Order



## Example: GC-SM-02260-1N

GC Globe cylinder operated stackable, 2 station, brass body, 1"BSP, 2W NC, NBR seals.



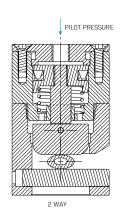
(1) Only available in brass

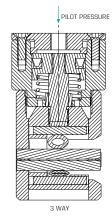
<sup>\*</sup> To order manifolds manufactured according to your specific requirements, please contact our technical sales department.

# **Pinch Valve**

# GC-P | Pinch valve 2 Way, 3 Way



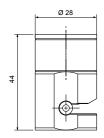


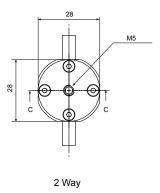


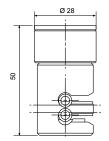
## **Technical Data**

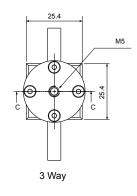
Function	2 Way, 3 Way		
	• 6x4		
Tubes	8x5 for 2 Way only		
	• 9.5x6.5 for 2 Way only		
Pressure range	Fluid: according to tube specifications		
	Pilot: 3-8 bar		
Temperature range	Fluid: according to tube specifications (no freezing)		
	Ambient: -10°C to 50°C		
Materials in contact with media	Valve:		
	Aluminium		
	* fluid flows through silicone tube		

## **Dimensions**









## How to Order

	GC-P	-	TUBE		FUNCTION	
			Ø6X4	1	2W	1
		Ø8X5 (1)	2	3W	3	
			Ø9.5X6.5 (1)	3		

## Example : GC-P-11

GC pinch valve for Ø6x4 silicone tube, 2W.



(1) 2W only

<sup>\*</sup> To order valves manufactured according to your specific requirements, please contact our technical sales department.