



Ultimate control
ultimate
precision

VALVES

/ Product Catalog

2020
v1.2

 **NETAFIM**™
GROW MORE WITH LESS

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NEW

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About Netafim

Netafim is the global leader in precision irrigation for a sustainable future. With 33 subsidiaries and 17 manufacturing plants worldwide, Netafim delivers innovative, tailor-made irrigation and fertigation solutions to millions of farmers, allowing smallholders to large-scale agricultural producers, in over 110 countries, to grow more with less.

Founded in 1965, Netafim pioneered the drip revolution, creating a paradigm shift toward precision irrigation. Today, specializing in end-to-end solutions from the water source to the root zone, Netafim delivers turnkey irrigation and greenhouse projects, supported by engineering, project management and financing services.

Netafim is also leading the way in digital farming, integrating real-time monitoring, analysis and automated control into one state-of-the-art system. In 2017, Orbia, a global leader in specialty products and innovative solutions acquired 80% of Netafim, Kibbutz Hatzerim holds the remaining 20%.

See how Netafim's solutions are changing the economics of agriculture and helping the world grow more with less at www.netafim.com





/ Control Valves



AquaNet™ Electric Valves

The professional electric/hydraulic valve line.



1 1/2" - 2"
MODEL

3/4" - 1"
MODEL



Low Energy
Consumption



Quick
Reaction



Simple to
Use

Benefits & Features

- ✓ Patented hydraulic 3-way control
- ✓ Designed to operate with all types of water, including effluent water (2 mm command orifice)
- ✓ Pressure & flow range
- ✓ Manual override: CLOSE-AUTO-OPEN
- ✓ Low energy consumption for maximal wire distance
- ✓ Built-in pressure regulator with adjustable knob 0.7 – 4.5 bar (optional 1 1/2" & 2" Electrical models only)
- ✓ Flow control handle – standard on all models
- ✓ EPDM diaphragm resistant against chemicals used in agriculture

Specifications & Recommendations

3/4" & 1" GLOBE MODELS

- **Flow:** 0.025 – 7.0 m³/h
- **Working Pressure:** 0.2 - 10 bar
- **Ambient Temp. Max.:** 60°C (140°F)
- **Fluid Temp Max.:** 60°C (140°F)
- **Plastic Parts:** Reinforced Nylon
- **Diaphragms:** EPDM
- **Leads:** 2 x AWG 22 (80 cm)

1 1/2" & 2" GLOBE & ANGLE MODELS

- **Flow:** 0.1 – 34.0 m³/h
- **Working Pressure:** 0.3 - 10 bar
- **Ambient Temp. Max.:** 60°C (140°F)
- **Fluid Temp Max.:** 60°C (140°F)
- **Plastic Parts:** Reinforced Nylon
- **Diaphragms:** EPDM
- **Leads:** 2 x AWG 22 (120 cm)

* Pressure Regulating Range: 0.74.5- bar (1 1/2" & 2" only)

→ PACKAGING DATA

MODEL	QUANTITY P/BOX UNITS	BOX DIMENSIONS CM X CM X CM	BOX WEIGHT KG (AVERAGE)
AQUANET PLUS ¾", 1"	12	47.0 X 26.0 X 12.0	4.45
AQUANET PLUS 1½" G	1	21.5 X 12.5 X 19	1.18
AQUANET PLUS 1½" A			1.29
AQUANET PLUS 2" G			1.16
AQUANET PLUS 2" A			1.24
PRESSURE REGULATOR KIT		12.0 X 9.0 X 7.0	0.11

→ ELECTRICAL SPECIFICATIONS

24V AC

VOLTAGE	18-28 VAC
INRUSH	90 mA
HOLDING	75 mA

IN AC MODELS, 2-5 SECONDS DELAY FROM COMMAND TO ACTIVATION

CABLE GAUGE (AWG)	DIAMETER (MM)	CROSS SECTION (MM²)	MAX. DISTANCE (M)
20	0.8	0.5	1250
18	1.0	0.8	2000
17	1.1	1.0	2500
16	1.3	1.3	3500
15	1.4	1.5	5000

MAX. DISTANCE BETWEEN AQUANET PLUS AC AND CONTROLLERS

DC

VOLTAGE	12-40 VDC
MIN. PULSE WIDTH	80 ms

RECOMMENDED WORKING CONDITION CAPACITOR MODE

VOLTAGE (VDC)	CAPACITOR (MF)	MIN. PULSE (MS)
12-18	4700	80
18-28	3300	80
28-40	2200	80

CABLE GAUGE (AWG)	DIAMETER (MM)	CROSS SECTION (MM²)	MAX. DISTANCE (M)
20	0.8	0.5	150
17	1.1	1.0	240
15	1.4	1.5	380

→ ELECTRICAL CONNECTIONS

¾" & 1" DC RED + BLACK COMMON

¾" & 1" AC BLACK/BLACK

1 ½" & 2" DC RED + BLACK COMMON

1 ½" & 2" AC BLACK/BLACK

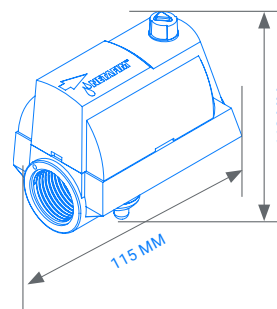
(CHANGING DC WIRE CONNECTIONS WILL CHANGE NC TO NO)

IT IS RECOMMENDED TO ISOLATE WIRES CONNECTIONS FROM WATER TO PREVENT CORROSION.

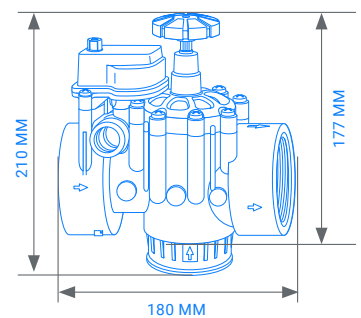
AQUANETPLUS DC IS COMPATIBLE WITH MOST DC LATCH CONTROLLERS WITH TWO OR THREE WIRE OUTPUT. FOR SPECIFIC MODELS PLEASE CONTACT YOUR NETAFIM REPRESENTATIVE.

→ TECHNICAL DIMENSIONS

¾" & 1" MODELS



1½" & 2" MODELS



→ CATALOG NUMBERS

DIAMETER	CONNECTION TYPE	INPUT	SHAPE	CATALOG NUMBER
1½"	BSP	AC	ANGLE	34040-001000
			GLOBE	34040-001100
		DC	ANGLE	34540-001000
			GLOBE	34540-001100
2"		AC	ANGLE	34040-001200
			GLOBE	34040-001300
		DC	ANGLE	34540-001200
			GLOBE	34540-001300

75 Series CONTROL VALVES

The strong and versatile reinforced nylon valves of 75 series, exhibit exceptional hydraulic characteristics and provide optimal control of irrigation systems.



Outstanding
Performances



Ultimate
Durability



Extremely
Versatile

/ Benefits & Features

- **Outstanding performance** High flow capacity and very low head losses achieved by a flexible diaphragm that provides a wide water passage throughout the valve's hydrodynamic body
- **Ultimated durability** Long life and easy inline maintenance accomplished by structural simplicity and high-quality corrosion-free materials.
- **Extremely versatile** Gal plastic valves are available with full selection of control functions and various end connections

/ Specifications & Recommendations

- Maximum pressure – 10 bar (145 psi), for 3"H - 12 bar (175 psi)
- Minimum recommended flow – 1 m³/h (5 gpm)
- Minimum operating pressure – 0.4 bar (6 psi)*
- Maximum operating temperature – 60°C (140°F)

* Available with low pressure diaphragm

→ HYDRAULIC PERFORMANCE

DIAMETER	INCH	¾	1	1½	2	2½	3R*	3	4R*	3H*	4	6R*	6	8R*
	MM	20	25	40	50	65	80	80	100	80	100	150	150	200
FLOW RATE FACTOR**	KV	7.5	15	60	71	79	90	120		250	350		580	
	CV	9	17.5	70	82	92	92	140		292	410		678	

** In order to calculate the head loss at any desired flow rate, use the following equation: Head loss = (Flow rate/Flow rate factor)²

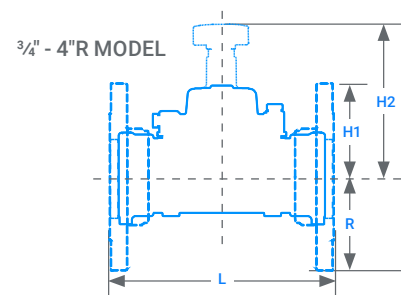
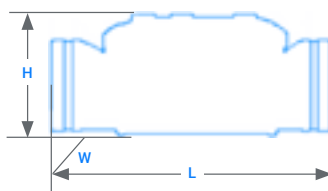
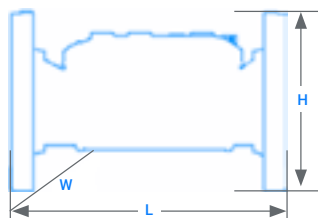
→ TECHNICAL DIMENSIONS

DIAMETER	INCH	¾	1	1½	2	2½	3R	3	3*	4R*		3"H	3"H*	4	4*	6R	6*	8R*
	MM	20	25	40	50	65	80	80	80	100		80	80	100	100	150	150	200
HEIGHT	H1	MM / INCH	38/1½	38/1½	67/2½	67/2½	67/2½	67/2½	100/3½	100/3½	100/3½	THRD.	FLNG.	GRV.	FLNG.			
	H2		100/4	100/4	112/4¾	112/4¾	112/4¾	112/4¾	180/7¼	180/7¼	180/7¼	H	162/6½	190/7½	160/7	230/9	285/11½	285/11½
	R		18/1½	22/1½	30/1½	37/1½	47/1½	54/2½	60/2½	100/3½	110/4¾	W	236/9½	236/9½	236/9½	236/9½	285/11½	285/11½
LENGTH	L		113/4½	124/4¾	188/7¾	199/7¾	228/9	236/9¼	260/10¼	290/11¾	290/11¾	L	452/17¾	485/19	350/13¾	373/14½	420/16½	420/16½
VOL. CTRL. CHAMBER	CC / GAL		36/0.01			180/0.04			250/0.05					500/0.13				500/0.26
WEIGHT	KG / LBS		0.2/0.44	0.2/0.44	0.9/2	0.9/2	1.2/2.6	1.4/3.1	1.8/4.4	3/6.8	4/8.8		4.7/10.4	6/13.2	3.9/8.6	6/13.2	7.5/16.5	10.6/23.4

R: Reduced, 3R: 323", 4R: 434", 6R: 646" 8R: 868", H: High Flow, 3H: 343"

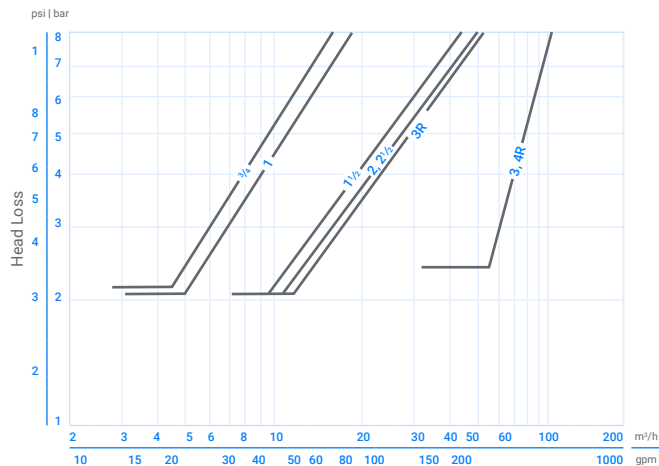
* Dimensions for those diameters include flanges

3"H - 8"R MODELS

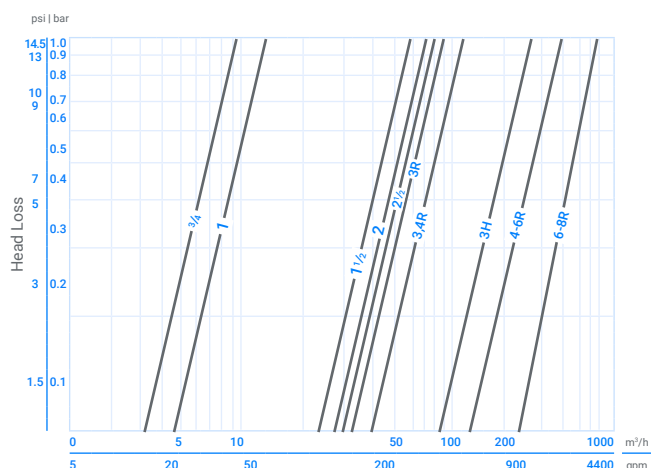


→ HEAD LOSS

2-WAY



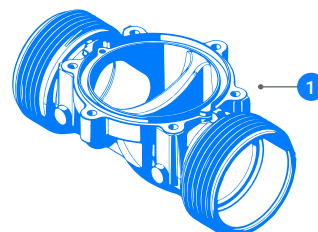
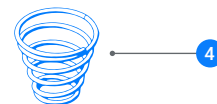
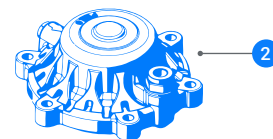
3-WAY



→ MATERIAL SPECIFICATION

#	PART	MATERIAL	OPT.
1	BODY	REINFORCED NYLON	POLYPROPYLENE
2	BONNET	REINFORCED NYLON	POLYPROPYLENE
3	DIAPHRAGM	NATURAL RUBBER	ALD70
4	SPRING	SST 302	SST 316

* Optional parts for special chemical resistance



75 Series 3"H - 8"R CONTROL VALVES

The NEW S75 with renewed design innovation provides the highest hydraulic performance for all of your valve applications.



Outstanding
Performances



Ultimate
Durability



Extremely
Versatile

/ Benefits & Features

→ Outstanding performance

New innovative body design provides optimal flow characteristics for both flow and head loss. In addition, the valve reaction times are dramatically improved, enhancing in-field experience

→ Ultimated durability

Improved corrosive resistant material composition provides for a wide range of hydraulic applications while also delivering higher pressure ratings than ever before, up to 12 bar

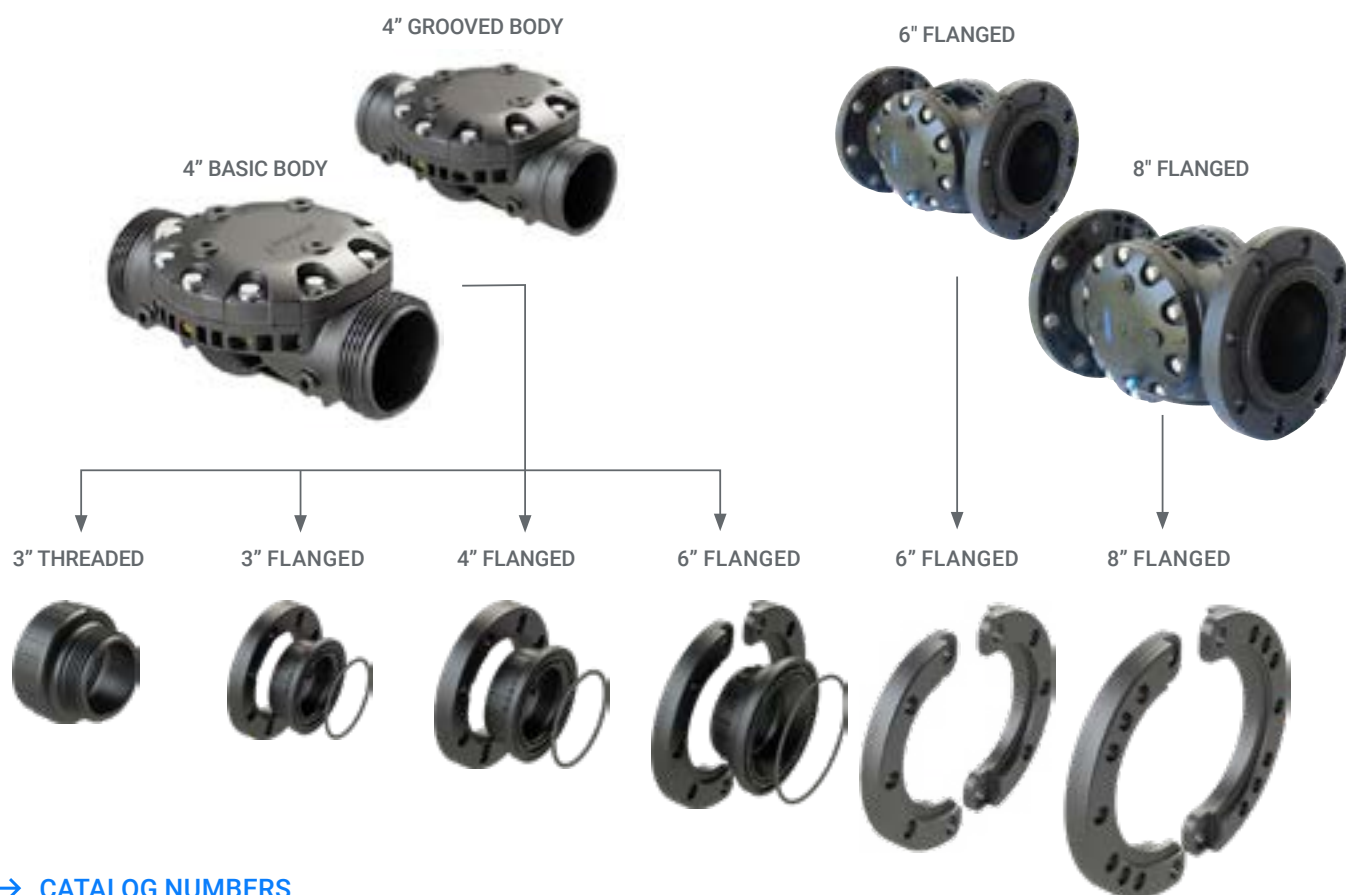
→ Extremely versatile

We listened to you, our customer. The S75 design is adaptable to multiple applications of valve sizing and connection type. Whether your application is 3" Threaded or 8" Flange, we can connect to it. The need to store multiple valve sizes is reduced

/ Applications

- The NEW 3"H-8"R models were engineered to operate in the widest pressure ranges possible for optimal control and precision. The NEW S75 are ideal for large scale irrigation projects in field crops, vineyards, or orchards

→ CONNECTION TYPES



→ CATALOG NUMBERS

DESCRIPTION	CATALOG NUMBER
BASIC VALVES	
BASIC BODY W/O ADAPTERS	71600-051104*
S75PL 4" H VIC BAS 3W	71600-051105
S75PL 3"H H NPT BAS 3W	71600-003351
S75PL 3"H H BSP BAS 3W	71600-003352
S75PL 4" H UNF BAS 3W	71600-051098
S75PL 6" H UNF BAS 3W	71600-052608
S75PL 6"R H UNF BAS 3W	71600-051099
S75PL 8"R H UNF BAS 3W	71600-007420
ELECTRIC VALVES	
S75PL 3"H H BSP AQDC 3WNC	71600-003353
S75PL 3"H H NPT AQDC 3WNC	71600-003354
S75PL 3"H H BSP AQAC 3WNC	71600-003356
S75PL 3"H H NPT AQAC 3WNC	71600-003355
S75PL 4" H UNF ELE AQDC 3WNC	71640-005522
S75PL 4" H UNF ELE AQAC 3WNC	71640-002342
S75PL 6" H UNF ELE AQDC 3WNC	71640-000007
S75PL 6" H UNF ELE AQAC 3WNC	71640-000008
S75PL 6"R H UNF ELE AQDC 3WNC	71640-007085
S75PL 6"R H UNF ELE AQAC 3WNC	71640-007086
S75PL 8"R H UNF ELE AQDC 3WNC	71640-000009
S75PL 8"R H UNF ELE AQAC 3WNC	71640-000010

DESCRIPTION	CATALOG NUMBER
PRESSURE REDUCING VALVES	
S75PL 3"H H NPT PRV PPY 3W CS	71600-003357
S75PL 3"H H BSP PRV PPY 3W CS	71600-003358
S75PL 3"H H NPT PRV PPY AQDC 3WNC C	71600-003359
S75PL 3"H H BSP PRV PPY AQDC 3WNC C	71600-003360
S75PL 3"H H BSP PRV PPY AQAC 3WNC C	71600-003361
S75PL 3"H H NPT PRV PPY AQAC 3WNC C	71600-003362
S75PL 4" H UNF PRV PPY 3W CS	71600-051096
S75PL 4" H UNF PRV PPY AQDC 3WNC C	71640-002343
S75PL 4" H UNF PRV PPY AQAC 3WNC C	71640-002344
S75PL 6"R H UNF PRV PPY 3W CS	71600-052600
S75PL 6"R H UNF PRV PPY AQDC 3WNC C	71640-007087
S75PL 6"R H UNF PRV PPY AQAC 3WNC C	71640-007088
S75PL 6" H UNF PRV PPG 3W CS	71600-000025
S75PL 8"R H UNF PRV PPG 3W CS	71600-000018
S75PL 6" H UNF PRV PPG AQDC 3WNC C	71640-000004
S75PL 6" H UNF PRV PPG AQAC 3WNC C	71640-000003
S75PL 8"R H UNF PRV PPG AQDC 3WNC C	71640-000005
S75PL 8"R H UNF PRV PPG AQAC 3WNC C	71640-000006
PRESSURE SUSTAINING VALVES	
S75PL 4" H UNF PSV PPG AQDC 3WNC C	71640-005598
S75PL 4" H UNF PSV PPG AQAC 3WNC C	71640-005591
S75PL 6" H UNF PSV PPG 3W CS	71600-000026
S75PL 6"R H UNF PSV PPG AQDC 3WNC C	71640-007091
S75PL 6"R H UNF PSV PPG AQAC 3WNC C	71640-007092
S75PL 8"R H UNF PSV PPG 3W CS	71600-000027

* For end connection adapters, please refer to the spare parts list

80 Series

REINFORCED NYLON CONTROL VALVES

Globe and angle plastic valves of the 80 series, equipped with a fully supported diaphragm, guarantee rapid and precise control of irrigation systems.



Optimal
Protection



Efficient
Installation



Extensive
Flexibility

/ Benefits & Features

- **Optimal protection**
Tight closing & quick opening is achieved by a rigid plug mechanism that is suitable for high pressure applications and responds rapidly to water pressure fluctuations
- **Efficient installation**
The valves are available in both globe and angle shapes and therefore eliminate the use of elbow joints and extending pipelines
- **Extensive flexibility**
Available with full range of control functions, various end connections and a selection of 2 way and 3 way bonnets with integral accessories

/ Specifications & Recommendations

- Maximum pressure - 12 bar (175 psi)
- Minimum recommended flow - 1 m³/h (5 gpm)
- Minimum operating pressure - 0.7 bar (10 psi)
- Maximum operating temperature- 70°C (160°F)

→ HYDRAULIC PERFORMANCE

SHAPE		STRAIGHT		ANGLE			
DIAMETER	INCH	1½	2	1½	2	3	4R*
	MM	40	50	40	50	80	100
FLOW RATE FACTOR**	KV	45	55	45	60	145	
	CV	55	65	55	70	170	

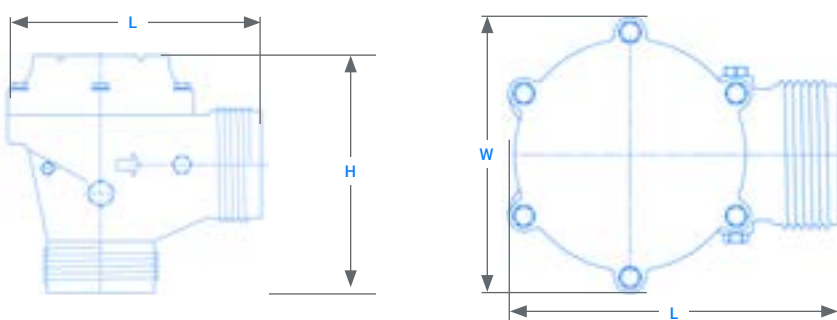
* R: Reduced, 4R: 434"

** In order to calculate the head loss at any desired flow rate, use the following equation: Head loss = (Flow rate/Flow rate factor)²

→ TECHNICAL DIMENSIONS

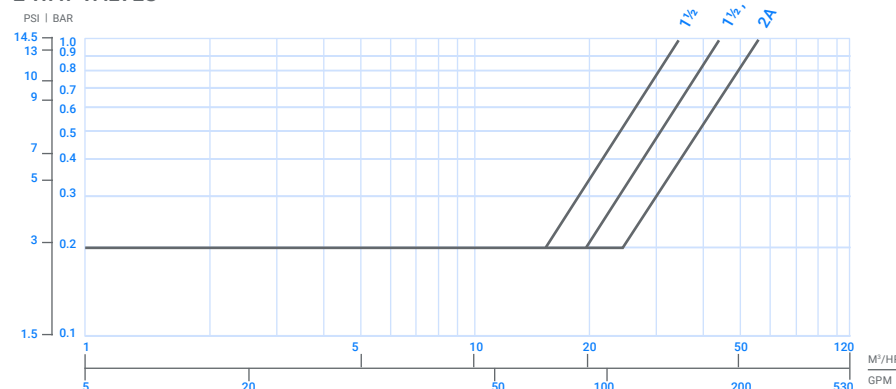
SHAPE			STRAIGHT		ANGLE			
DIAMETER		INCH	1½	2	1½	2	3	4R*
		MM	40	50	40	50	80	100
HEIGHT	H	MM / INCH	145 / 5.70	145 / 5.70	66 / 2.59	66 / 2.59	130 / 5.11	130 / 5.11
WIDTH	W	MM / INCH	127 / 5.00	127 / 5.00	127 / 5.00	127 / 5.00	195 / 7.67	195 / 7.67
LENGTH	L	MM / INCH	165 / 6.49	165 / 6.49	88 / 3.46	88 / 3.46	160 / 6.29	160 / 6.29
VOL. CONTROL CHAMBER		CC / GAL	100 / 0.02	100 / 0.02	100 / 0.02	100 / 0.02	400 / 0.10	400 / 0.10
WEIGHT		KG / LBS	0.9 / 2	0.9 / 2	0.8 / 1.8	0.8 / 1.8	3.8 / 8.3	4.2 / 9.2

* Dimensions for those diameters include flanges

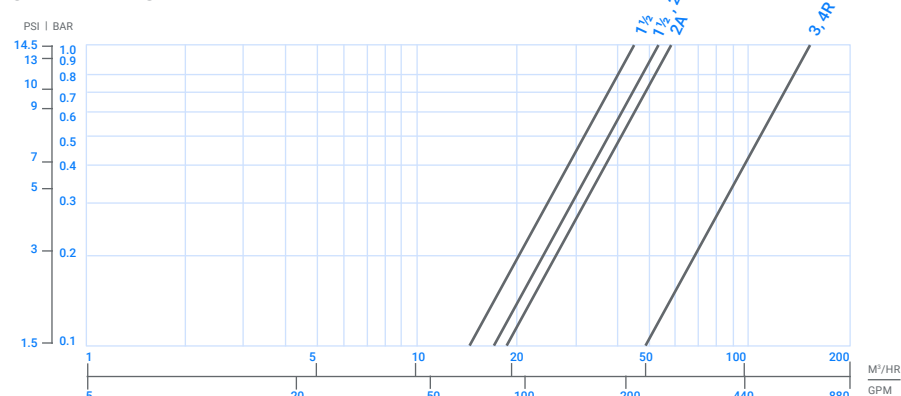


→ HEAD LOSS

2 WAY VALVES

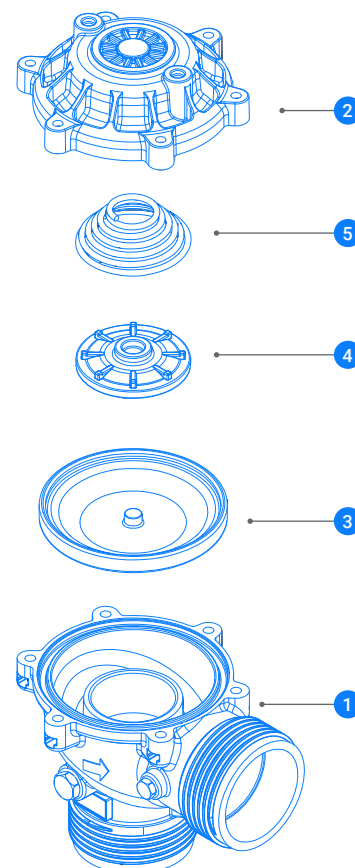


3 WAY VALVES



→ MATERIAL SPECIFICATIONS

#	PART	MATERIAL
1	BODY	REINFORCED NYLON
2	BONNET	REINFORCED NYLON
3	DIAPHRAGM*	NATURAL RUBBER
4	SPRING SEAT	NITRILE RUBBER
5	SPRING	SST 302



80 QR Series

REINFORCED NYLON CONTROL VALVE

The 80QR is a pilot-operated, universal surge-relief valve, that is designed for the pressure-surge protection of pumps, filtration systems and pipelines.



Outstanding
Performances



Ultimate
Durability



Extremely
Versatile

Benefits & Features

- ✓ Fast opening and slow, regulated closure - prevents shuttering and secondary surges
- ✓ Extremely accurate: will open and close at the same pressure setting
- ✓ Small, light-weight and easy to adjust with just a small key and applying small torque
- ✓ Provides relief setting-range from 1-10 bar / 15-150 psi

Specifications & Recommendations

- Maximum pressure - 10 bar (145 psi)
- Maximum operating temperature - 60°C (140°F)

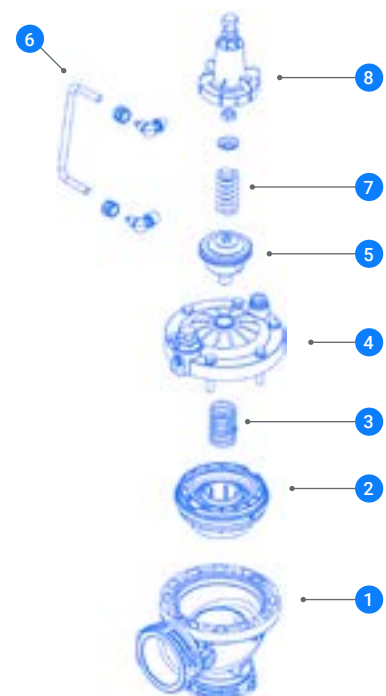
→ QR SIZING BASED ON FLOW RATE (M³/H)

DIAMETER / BAR	SET POINT (BAR)									
	1	2	3	4	5	6	7	8	9	10
1½"	37	52	64	74	82	90	97	104	110	130
2"	46	66	80	93	104	114	123	131	139	150
3"	120	170	208	240	268	294	317	339	360	385

→ MATERIAL SPECIFICATION

#	PART	MATERIAL*
1	BODY	GRP
2	DIAPHRAGM ASSEMBLY	GRP, NR
3	MAIN SPRING	SST
4	BONNET	GRP
5	PILOT-VALVE BASE	GRP, SST, NR
6	CONTROL TUBE	PP
7	ADJ. SPRING	SST
8	PILOT-VALVE BONNET	GRP

* Optional parts for special chemical resistance



80 W Series

DUAL OUTLET CONTROL VALVE

Netafim presents the 80W - High quality dual valve, designed for agriculture applications. For a better affordability, ease of use and a durable construction.



Outstanding Performances



Ultimate Durability



Extremely Versatile

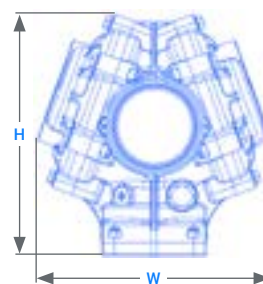
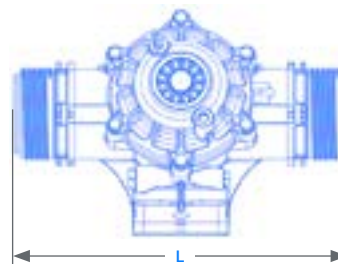
Benefits & Features

- ✓ Specially designed for irrigation when one in independent outlets are required
- ✓ Wide operation pressure range, from as low as 0.5 bar and up to 10 bar
- ✓ Designed for high flow rates while maintaining extremely low pressure losses
- ✓ Allows for a wide range of control applications

Specifications & Recommendations

- Maximum pressure - 10 bar (145 psi)
- Minimum recommended flow - 1 m³/h (5 gpm)
- Minimum operating pressure - 0.4 bar (6 psi)
- Maximum operating temperature - 60°C (140°F)

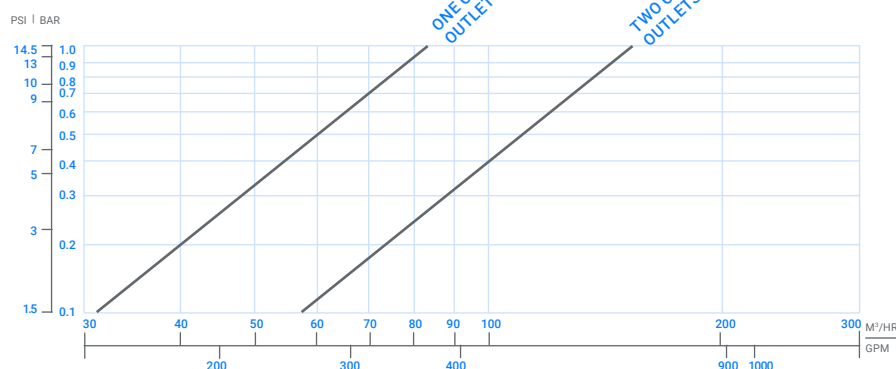
→ TECHNICAL DIMENSIONS



→ HYDRAULIC PERFORMANCE

KV / CV TWO OPEN OUTLETS	M ³ /H @ 1 BAR	210
	GPM @ 1 PSI	242
KV / CV ONE OPEN OUTLET	M ³ /H @ 1 BAR	105
	GPM @ 1 PSI	121

→ HEAD LOSS



90 Series

PVC CONTROL VALVES

Exclusive valves series (3" – 6") suitable for underground and above-ground installation in open fields and greenhouses.



Superior
Performances



Exceptional
Efficiency



Improved
Resistance

/ Benefits & Features

- **Superior performance** Excellent regulation capabilities achieved by a flexible diaphragm mechanism that is designed to allow maximal to near zero flow while operating at very low head losses
- **Exceptional efficiency** Available with full selection of control functions and various end connections. The optional underground installation reduces both costs and friction losses by eliminating the use of elbow joints
- **Improved resistance** Resistance to corrosive fluids is accomplished by using high quality corrosion-free materials, both externally and internally. Optional materials for highly concentrated chemicals protection

/ Specifications & Recommendations

- Maximum pressure - for 3" & 4" valves: 8 bar (115 psi), for 6" valves: 10 bar (145 psi)
- Minimum recommended flow - 1 m³/h (5 gpm)
- Minimum operating pressure - 0.3 bar (4 psi)*
- Maximum operating temperature - 40°C (104°F)

* Available with low pressure diaphragm

→ HYDRAULIC PERFORMANCE

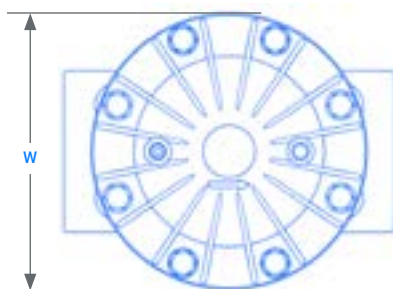
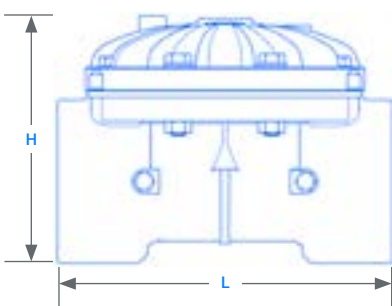
VALVE SIZE	INCH	3	4	6
	MM	80-90	100-110	150-160
FLOW RATE FACTOR*	KV	155	215	480
	CV	180	250	560

* In order to calculate the head loss at any desired flow rate, use the following equation: Head loss = (Flow rate/Flow rate factor)²

→ TECHNICAL DIMENSIONS

DIAMETER		INCH	3	4	6
		MM	80-90	100-110	150-160
HEIGHT	H	MM / INCH	208 / 8.06	208 / 8.06	382 / 15
WIDTH	W	MM / INCH	229 / 9.16	229 / 9.16	260 / 10.40
LENGTH	L	MM / INCH	258 / 10.18	278 / 10.93	360 / 14.18
VOL. CONTROL CHAMBER		CC / GAL	681 / 0.18	681 / 0.18	2,575 / 0.68
WEIGHT		KG / LBS	4 / 8.8	4.2 / 9.2	11.8 / 26

* PVC SW valves are 10mm larger then the pipe to allow solvent welding



→ MATERIAL SPECIFICATIONS

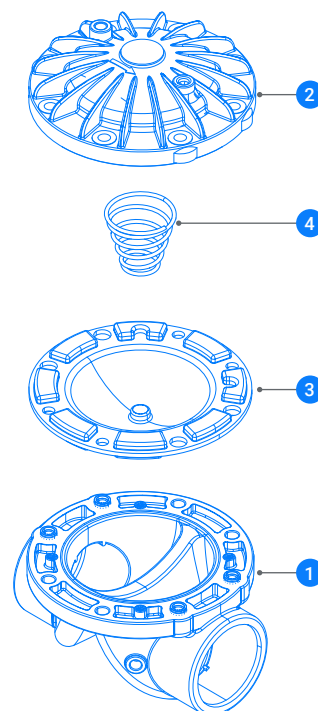
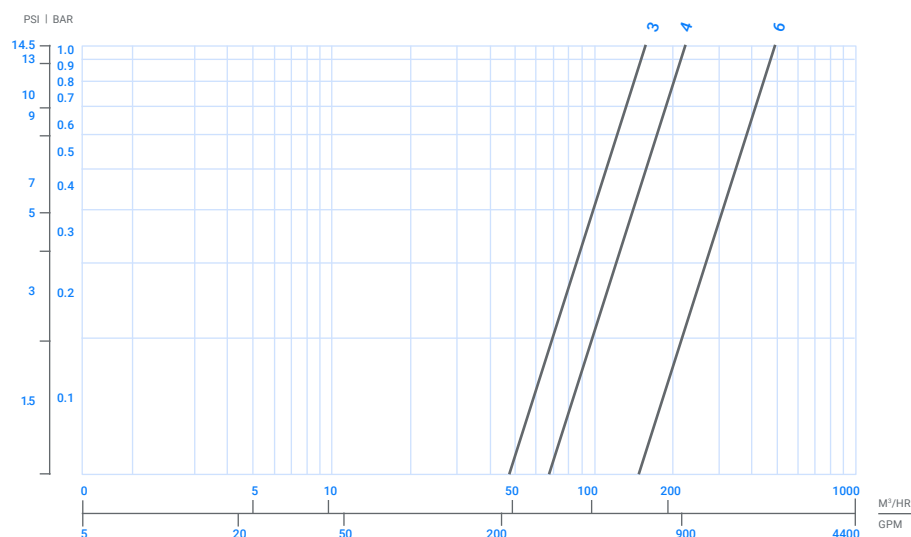
#	PART	MATERIAL	*OPTIONAL
1	BODY	UPVC	-
2	BONNET	GLASS REINFORCED POLYAMIDE	PPS
3	DIAPHRAGM**	NATURAL RUBBER	GRP, ALD, EPDM
4	SPRING	SST 302	SST 316

* Optional parts for special chemical resistance

** Wide selection of pressure ranges

→ HEAD LOSS

3 WAY VALVES



100 Series

METAL CONTROL VALVES

The powerful and reliable metal valves of 100 series, display remarkable hydraulic performances and provide impeccable control of irrigation systems.



Outstanding
Performances



Extremely
Versatile



Ultimate
Durability

Benefits & Features

- **Outstanding performance**
High flow capacity and very low head losses achieved by a flexible diaphragm that provides a wide water passage throughout the valve's hydrodynamic body
- **Extremely versatile**
The valves are available in globe and angle shapes, with an extensive selection of materials, a full range of control functions and various end connections
- **Ultimate durability**
Long life and easy inline maintenance accomplished by structural simplicity and the use of high-quality materials that can withstand the harshest conditions

Specifications & Recommendations

- Maximum pressure - 16 bar (230 psi) and 25 bar (365 psi)
- Minimum recommended flow - 1m³/h (5 gpm)
- Minimum operating pressure - 0.4 bar (6 psi)*

* Available with low pressure diaphragm

→ HYDRAULIC PERFORMANCE

SHAPE		STRAIGHT																ANGLE					
DIAMETER	INCH	¾	1	1½	2	2½	3R*	3	4	6	8R*	8	10	12	14	16	1½	2	2½	3R	3	4	6
	MM	20	25	40	50	65	80	80	100	150	200	200	250	300	350	400	40	50	65	80	80	100	150
FLOW RATE FACTOR**	KV	17	17	65	95	95	95	170	220	600	670	800	1250	1900	1900	2600	60	90	90	90	150	200	570
	CV	20	20	75	110	110	110	200	255	695	775	925	1445	2195	2195	3005	70	105	105	105	175	230	660

* R: Reduced, 3R: 323°, 8R: 868° ** In order to calculate the head loss at any desired flow rate, use the following equation: Head loss = (Flow rate/Flow rate factor)²

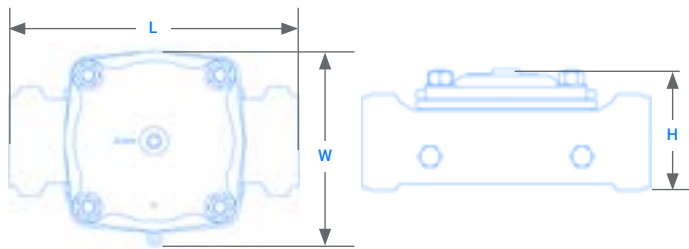
→ TECHNICAL DIMENSIONS STRAIGHT VALVES

CONNECTION		THREADED										FLANGED				
DIAMETER	INCH	¾	1	1½	2	2½	3R	3	4	6	8R*	2	3R	3	4	6
	MM	20	25	40	50	65	80	80	100	150	200	50	80	80	100	150
HEIGHT	H	MM/INCH	43/1.69	52/2.05	93/3.66		115/4.53	118/4.65	126/4.96	135/5.31	166/6.54		202/7.95	200/7.87		314/12.36
WIDTH	W	MM/INCH	68/2.68	68/2.68	112/4.41		112/4.41		200/7.87		200/7.87		200/7.87		230/9.06	300/11.8
LENGTH	L	MM/INCH	115/4.53	120/4.72	170/6.69	188/7.4	219/8.62	225/8.86	316/12.44	200/7.87		285/11.2		305/12.01	390/15.35	
VOL. CONTROL CHAMBER	CC/GAL	30/0.007		70/0.0168		160/0.04		600/0.15		160/0.04		600/0.15		1800/0.50		
WEIGHT	KG/LBS	1/2.2		2.2/4.9		3.2/7		3.6/7.9		4.5/9.9		11/24		17/37.5		46/101

*Flanged valves are available at all diameters (2" - 24") – contact Netafim representative if any additional data is required

ANGLE VALVES

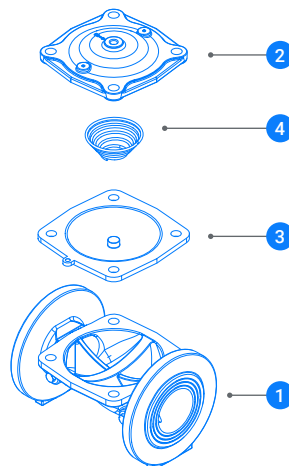
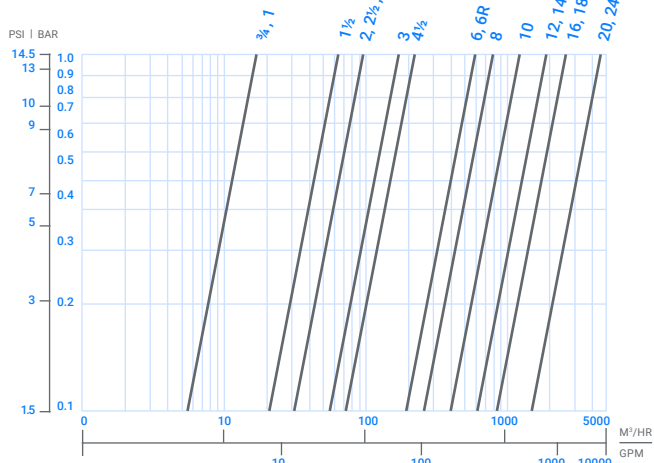
CONNECTION		THREADED						GROOVED	FLANGED		
DIAMETER	INCH	1½	2	3R	3	3	4	3	4	6	
	MM	40	50	80	80	80	100	80	100	150	
HEIGHT	H	MM / INCH	75 / 2.95	90 / 3.54	114 / 4.49	145 / 5.71	170 / 6.69	185 / 7.28	174 / 6.85	185 / 7.28	230 / 9.06
WIDTH	W	MM / INCH	93 / 3.66	112 / 4.41	112 / 4.41	200 / 7.87	200 / 7.87	200 / 7.87	200 / 7.87	230 / 9.06	300 / 11.80
LENGTH	L	MM / INCH	75 / 2.95	90 / 3.54	114 / 4.49	145 / 5.71	170 / 6.69	185 / 7.28	174 / 6.85	185 / 7.28	230 / 9.06
VOL. CONTROL CHAMBER	CC / GAL	70 / 0.0168	160 / 0.04	160 / 0.04	600 / 0.15	600 / 0.15	600 / 0.15	600 / 0.15	600 / 0.15	600 / 0.15	1800 / 0.50
WEIGHT	KG / LBS	1.7 / 3.7	2.4 / 5.3	3.6 / 7.9	10.8 / 23.8	10.5 / 23.1	11.5 / 25.4	18 / 39.70	21 / 46.30	45 / 99.20	



→ MATERIAL SPECIFICATIONS

#	PART	MATERIAL	*OPTIONAL
1	BODY	CAST IRON	DUCTILE IRON, BRONZE, STAINLESS STEEL
2	BONNET	CAST IRON	DUCTILE IRON, BRONZE, STAINLESS STEEL
3	DIAPHRAGM**	NATURAL RUBBER	NBR, EPDM, NEOPRENE
4	SPRING	SST 302	SST 316

→ HEAD LOSS



300 Series

METAL CONTROL VALVES

State-of-the-art automatic control valves are designed to withstand the most demanding requirements of water system control.



Outstanding
Performances



Extremely
Versatile



Ultimate
Durability

Benefits & Features

- **Outstanding design** A unique rigid mechanism that provides ultimate hydraulic control in any given condition
- **Extremely versatile** The valves are available in globe and angle shapes with the widest range of accessories in the market
- **Superior performance** Available with an extended range of unique control functions that cater to both special and standard needs

Specifications & Recommendations

- Maximum pressure - 25 bar (365 psi)
- Minimum recommended flow - 1m³/h (5 gpm)
- Minimum operating pressure - 0.4 bar (6 psi)

→ HYDRAULIC PERFORMANCE

		GLOBE TYPE																ANGLE TYPE							
DIAMETER	INCH	1½	2	2½	3	4	6	8	10	12	14	16	18	20	24	28	32	1½	2	3	4	6	8	10	
	MM	40	50	65	80	100	150	200	250	300	350	400	450	500	600	700	800	40	50	80	100	150	200	250	
FLOW RATE FACTOR	KV	43	43	43	115	167	407	676	1160	1600	1600	1600	3000	3150	3300	6500	6500	60	60	140	190	460	770	1310	
	CV	50	50	50	133	195	475	790	1360	1900	1900	1900	3500	3700	3860	7600	7600	70	70	164	222	537	900	1533	

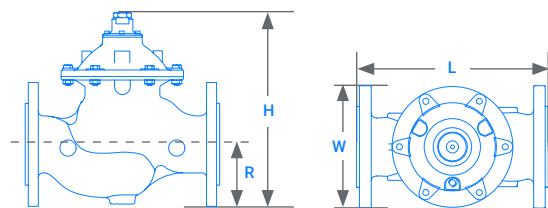
→ TECHNICAL DIMENSIONS FOR GLOBE FLANGED TYPE

DIAMETER	40 (1½")	50 (2")	65 (2½")	80 (3")	100 (4")	150 (6")	200(8")	250(10")	300(12")	350(14")	400(16")	450(18")	500(20")	600(24")	700(28")	800(32")
	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH
L	230	9 1/16	230	9 1/16	290	11 3/8	310	12 3/16	350	13 3/4	480	18 7/8	600	23 5/8	730	28 3/4
H	185	7 5/16	185	7 5/16	185	7 5/16	230	9 1/16	240	9 7/16	330	13	390	15 3/8	520	20 1/2
W	153	6	170	6 11/16	185	7 3/16	200	7 7/8	235	9 1/4	330	13	415	16 5/16	525	20 11/16
R	82.5	3 1/4	82.5	3 1/4	92.5	3 5/8	100	3 15/16	110	4 1/16	142.5	5 5/8	172.5	6 3/4	205	8 1/16
WEIGHT (KG/LBS)	12 / 26	12 / 26	13 / 29	22 / 49	37 / 82	80 / 176	157 / 346	245 / 540	405 / 893	510 / 1124	822 / 1812	945 / 2083	980 / 2160	1950 / 4299	2070 / 4560	2600 / 5730
VOLUME CONTROL CHAMBER	0.1 / 0.02	0.1 / 0.02	0.1 / 0.02	0.3 / 0.08	0.7 / 0.2	1.5 / 0.4	4.3 / 1.1	9.7 / 2.6	18.6 / 4.9	18.6 / 4.9	50 / 13.2	50 / 13.2	50 / 13.2	84 / 22.2	84 / 22.2	84 / 22.2

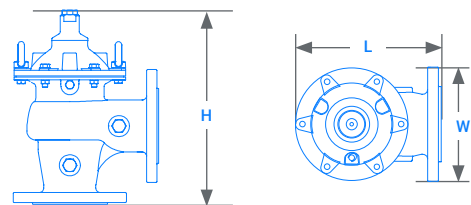
→ TECHNICAL DIMENSIONS FOR ANGLE TYPE

DIAMETER	50 (2")	80 (3")	100 (4")	150 (6")	200(8")	250(10")
	MM	INCH	MM	INCH	MM	INCH
L	208	8 3/16	250	9 13/16	295	11 1/16
H	240	9 7/16	415	16 5/16	445	17 1/2
W	170	6 11/16	200	7 7/8	235	9 1/4
WEIGHT (KG/LBS)	12 / 26	20 / 44	37 / 81	76 / 167	150 / 330	234 / 550

GLOBE FLANGED TYPE

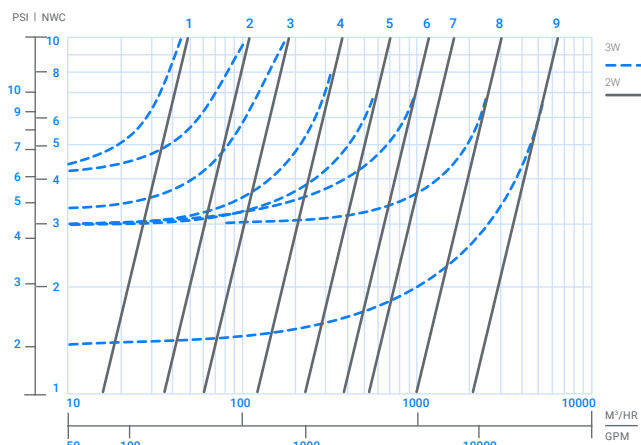


ANGLE TYPE



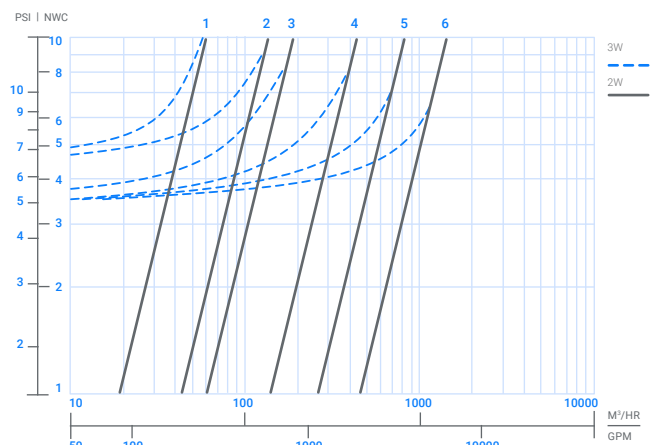
→ HEAD LOSS

GLOBE FLANGED TYPE



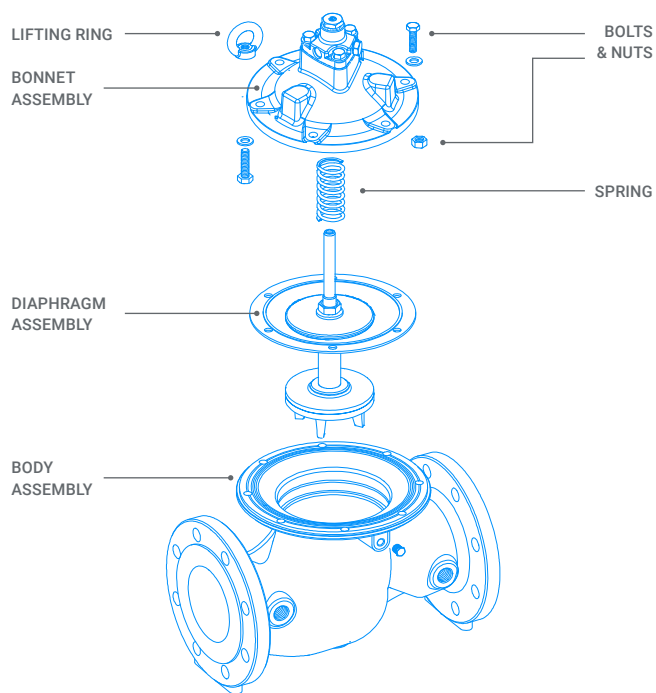
1= 1½", 2", 2½" / 40, 50, 65mm
 2= 3" / 80mm
 3= 4" / 100mm
 4= 6" / 150mm
 5= 8" / 200mm
 6= 10" / 250mm
 7= 14", 12" / 300, 350mm
 8= 8" / 200mm
 9= 32", 28", 24" / 600, 700, 800mm

ANGLE TYPE



1= 1½", 2" / 40, 50mm
 2= 3" / 80mm
 3= 4" / 100mm
 4= 6" / 150mm
 5= 8" / 200mm
 6= 10" / 250mm

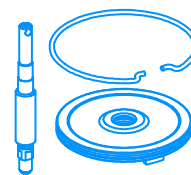
→ COMPONENTS



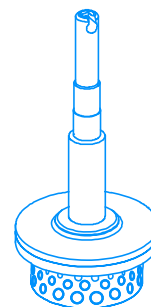
POSITION IND. KIT



DOUBLE-CHAMBER CONVERSION KIT



'F' VERSION CONVERSION KIT



→ MATERIAL SPECIFICATIONS

#	PART	MATERIAL	*OPTIONAL
1	BODY & COVER	DUCTILE IRON GGG50 (ASTM A-536)	CAST STEEL A-216 WCB CAST BRONZE OR MARINE BRONZE CAST SST CF8M (316) NI ALUMINUM BRONZE OTHERS
2	MAIN VALVE INTERNAL	SST, BRONZE AND COATED STEEL	SST 316, HASTELLOY, SMO, DUPLEX
3	SPRING	SST 302	SST 316, INCONEL
4	DIAPHRAGM	NYLON FABRIC RE- INFORCED EPDM (WRAS AND NSF AP- PROVED)	NBR, VITON
5	SEALS	EPDM	NBR, VITON
6	COATING	FUSION BONDED EPOXY (FBE) RAL 5010	UV PROTECTED FBE RAL 5010 FBE RAL 3000 (FIRE RED) UV PROTECTED FBE RAL 3000 RILSAN (NYLON) HALAR
7	CONTROL TRIM: FITTINGS AND CONTROL DEVICES	BRASS	SST 304, SST 316, DUPLEX
8	CONTROL TRIM: TUBES	REINFORCED, HEAVY-DUTY POLYPROPYLENE	COPPER, SST 316, DUPLEX

Pilots, Solenoids & Hydraulic Relays

→ PLASTIC PILOTS

PRESSURE RATING: 10 BAR / 145 PSI

				29-100	3-Way pressure reducing
				29-200	3-Way multi purpose (Pressure reducing and sustaining)
				29-50M	3-Way multi purpose (Pressure reducing and sustaining)
				29-310	3-Way differential multi purpose (Flow control, differential pressure reducing)

→ METAL PILOTS

PRESSURE RATING: 10 BAR / 145 PSI

				31-310	3-way multi purpose (pressure reducing and sustaining)
				31-10R/S/F	3-way multi purpose (pressure reducing and sustaining) and flow control
				76-200	3 way differential multi purpose (flow control, differential pressure sustaining)
				68-410/510	2-way (pressure reducing and sustaining)

→ SOLENOIDS

PRESSURE RATING: FROM 10 BAR/145 PSI TO 25 BAR/360 PSI

OPERATING VOLTAGE: AC: 24V, DC: 12V-24V, DC LATCH: 7.5V-30V

				D2	2-Way NC Solenoid
				AQUATIVE AC/DC	3-Way NC or NO Solenoid
				B2	2-Way NC or NO Solenoid
				B3	3-Way NC or NO Solenoid

→ RELAYS

PRESSURE RATING: FROM 10 BAR/145 PSI TO 25 BAR/360 PSI

				25-300	3-way / 2 positions NO w. 3/8"
				GALIT	3-way / 2 positions NC or NO
				66-210	3-way / 2 positions NC or NO
				28-200	2-way / 2 positions

29-50M

MULTI-PURPOSE, 3-WAY REINFORCED-PLASTIC PILOT-VALVE

A 3-way, diaphragm actuated, spring-loaded pilot-valve that is designed for control of pressure-regulating hydraulic-valves.



/ Benefits & Features

- ✓ 3-way pilot valve enabling the lowest possible pressure-losses
- ✓ Easy & simple hand-operated setting with no tools required
- ✓ Protected from indeliberate adjustment by a 'medicine-cap' locking mechanism
- ✓ Calibration-scale allowing proper adjustment and visual indication of the adjusted value
- ✓ Made of the toughest corrosion-proof & glass-reinforced composite materials
- ✓ Pressure-balanced as Pressure Reducing – the set value is unaffected by upstream pressure variations
- ✓ ID Plate with port-markings, for easy connection, assembly and maintenance
- ✓ Dual orientation "Snap" mechanism for an easy & robust connection to the main control-valve
- ✓ Same pilot valve can be used for various control functions by simply changing the way it is connected to the valve



/ Specifications & Recommendations

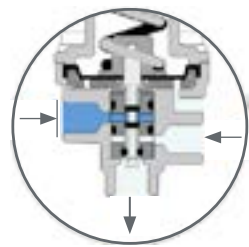
- Pressure rating - 10 bar / 150 psi
- Pressure adjustment range: 0.3-7.5 bar / 5-125 psi
- Fluid temperature - 50°C max. / 120°F max.

→ TYPICAL APPLICATIONS

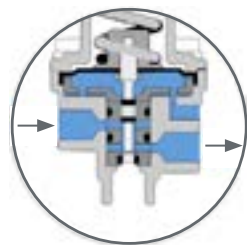
- ✓ Pressure reducing valves - PR
- ✓ Pressure sustaining valves - PS
- ✓ Topography-compensating, remote hydraulic-control - RC

→ SPRING ADJUSTMENT RANGE

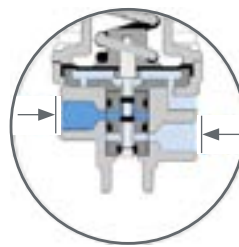
SPRING #	COLOR	BAR	PSI
72	YELLOW	0.3 - 3	4 - 40
54 (STD.)	GREEN	0.5 - 4.5	7 - 65
65	RED	1 - 7.5	15 - 110



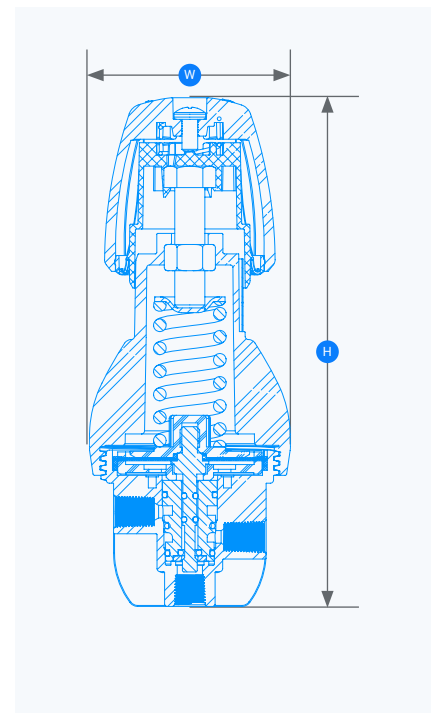
LOW PRESSURE



HIGH PRESSURE



REQUIRED PRESSURE



→ CONNECTIONS

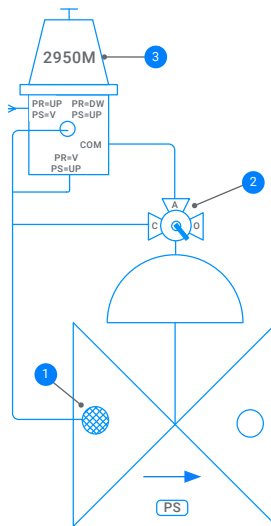
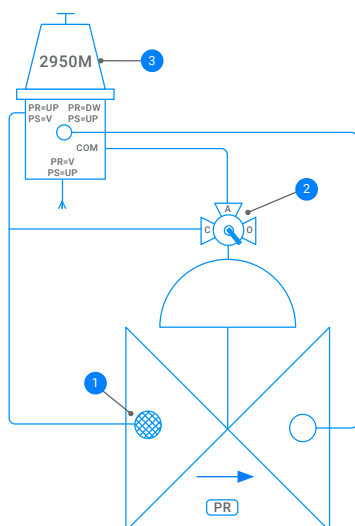
PORT	PRESSURE REDUCING	PRESSURE SUSTAINING
UP	UPSTREAM	UPSTREAM
UP	-	UPSTREAM
DW	DOWN-STREAM	-
COM	VALVE CTRL. CHAMBER	VALVE CTRL. CHAMBER
VENT	VENT	VENT

→ MATERIAL SPECIFICATIONS

#	PART	MATERIAL
1	BODY & BONNET	PA-GF
2	ELASTOMERS	EPDM
3	INTERNAL PARTS	SST+PTFE
4	SPRING	SST

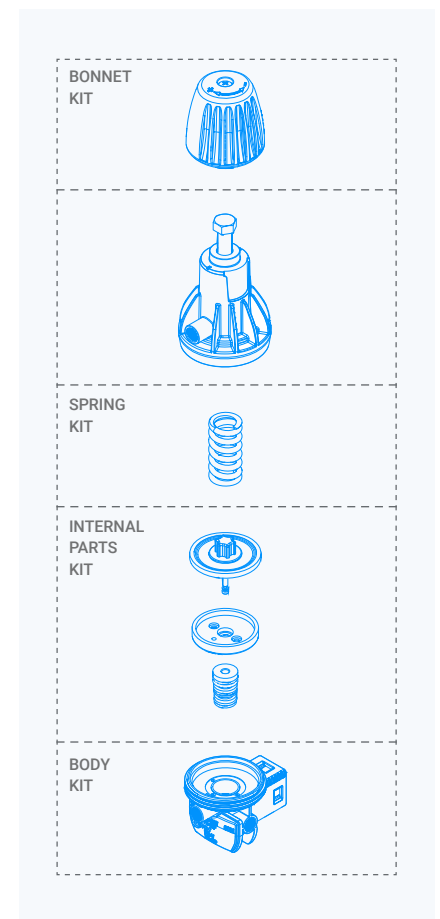
→ TECHNICAL DIMENSIONS

H (HEIGHT) MAX.	160 MM / 6.29"
W (WIDTH)	62 MM / 2.44"
WEIGHT	0.17 KG / 0.37 LBS



→ CATALOG NUMBERS

DESCRIPTION	CATALOG NUMBER
29-50M PILOT WITH YELLOW SPRING	71680-051268
29-50M PILOT WITH GREEN SPRING	71680-051269
29-50M PILOT WITH RED SPRING	71680-051270
INTERNAL PARTS KIT	71680-001030



Typical Applications

MANUAL CONTROL ON/OFF



MAN

The valve is controlled manually by a three port selector that allows the user to select the closed, opened or remotecontrolled position of the valve. Opening and closing the valve is quick and effortless, even under high pressure conditions.

HYDRAULIC CONTROL ON/OFF



HYD

A 3-way relay valve, activated by hydraulic or pneumatic pressure command, opens or closes the main valve. The standard valve is supplied in the "normally closed" position. The "normally open" position is optional. Hydraulic activation can be added to other control applications on request.

ELECTRIC CONTROL ON/OFF



ELE

A 3-way solenoid valve, activated by an electric current or an electric pulse, opens or closes the main valve. The standard valve is supplied in the "normally closed" position. The "normally open" position is optional. Electric activation can be added to other control applications on request.

PRESSURE REDUCING



PRV

The valve maintains a preset downstream pressure, regardless of upstream pressure or flow rate fluctuation. The main valve is controlled by either a 3-way pilot valve (allowing full opening when upstream pressure drops below the pressure set-point), or by a 2-way pilot valve (creating a minimal differential in open position).

PRESSURE SUSTAINING (AND RELIEF)



PSV

The valve maintains upstream pressure, regardless of flow rate variations. The valve will be in the "closed" position if the upstream pressure drops below the set-point and will fully open when the upstream pressure exceeds the set-point.

QUICK RELIEF



QRV

The valve opens instantly when the pressure in the pipeline exceeds the safe level, thus relieving excessive pressure from the network. When the pressure returns to normal, the valve closes slowly, at an adjustable pace.

FLOW CONTROL



FLV

The valve limits the flow rate in the network to a preset value regardless of upstream pressure variations. The valve fully opens when the flow rate drops below the set point.

LEVEL CONTROL



LCV

The main valve is controlled by a float valve, located in the tank or reservoir and set at the required maximum water level. The valve maintains the maximum level continuously.

SURGE ANTICIPATING



SAV

The valve protects the pumping system from water hammer, caused by sudden pump shut-off (case of power failure, for example). The valve is assembled on a T-junction of the main pipeline, instantly opens when the pump stops, relieving the returning high pressure wave. The valve slowly closes once the pressure returns to the static level. The valve also functions as a pressure relief valve.

PUMP CONTROL



PCV

The valve eliminates damaging surges caused by pump start-up and shut-off. The electrically activated valve gradually opens on pump start-up, and slowly closes before the pump is switched off. The valve will automatically close drip tight in case of power failure. Optional Additions: Flow Rate Limitation, Extended Closure, Two Stage Operating, Pressure Reducing and Pressure Sustaining.

Description Guide

EXAMPLE

S100¹ CI² 6³ A⁴ DN16⁵ PRS⁶ MP⁷ GR⁸ AQAC⁹ 3WNC¹⁰ 2P¹¹

1 SERIES	
S75	75 PLASTIC
S75T	75PL+THROTTLE
S80	80 PLASTIC
S80T	80PL+THROTTLE
S80V	80 "T" ONE CHAMBER
S80W	80 "T" DUAL CHAMBER
S90	90 PVC
S100	100 METAL
S300	300 METAL
S500	500 METAL

4 CONFIGURATION	
H	HORIZONTAL
A	ANGLE

6 MAIN FUNCTION	
BAS	BASIC
MAN	MANUAL CONTROL ON/OFF
HYD	HYDRAULIC CONTROL ON/OFF
ELE	ELECTRIC CONTROL ON/OFF
PRV	PRESSURE REDUCING
PSV	PRESSURE SUSTAINING (& RELIEF)
PRS	PRESSURE REDUCING & SUSTAINING
FLV	FLOW CONTROL
QRV	QUICK RELIEF
LCV	LEVEL CONTROL
SAV	SURGE ANTICIPATING
TOV	PRESSURE REDUCING, TWO STAGE OPENING
TSV	PRESSURE REDUCING, TWO SETS OF PRESSURE
PCV	PUMP CONTROL VALVE

9 SOLENOID TYPE	
AQAC	SOLENOID AQAUTIVE 24AC
AQDC	SOLENOID AQAUTIVE 12-40VDC LATCH
D24A	DOROT SOLENOID 24VAC
D24D	DOROT SOLENOID 24VDC
D12D	DOROT SOLENOID 12VDC
D12L	DOROT SOLENOID 12VDC LATCH
24AC	OTHER SOLENOID 24VAC
24DC	OTHER SOLENOID 24VDC
12DC	OTHER SOLENOID 12VDC
12DL	OTHER SOLENOID 12VDC LATCH

2 MATERIAL	
PL	REINFORCED NYLON
PP	POLYPROPYLENE
PV	PVC
CI	CAST IRON
DI	DUCTILE IRON
BR	BRONZE
ST	STAINLESS STEEL

5 CONNECTION	
NPT	NPT
BSP	BSP
UNF	UNIVERSAL FLANGE*
DN10	ISO PN10**
DN16	ISO PN16**
AN12	ANSI 125**
AN15	ANSI 150**
BSTD	BSTD**
BSTE	BSTE**
ABNT	ABNT**
VIC	GROOVED
GLUE	PVC SOLVENT WELDED

* PLASTIC ONLY ** METAL ONLY

7 PILOT	
PP	PLASTIC PILOT
MP	METAL PILOT*

* FOR METAL VALVE ONLY

10 VALVE'S MODE	
3WNC	3-WAY N.C
2WNC	2-WAY N.C
3WNO	3-WAY N.O
2WNO	2-WAY N.O
2W	2-WAY*
3W	3-WAY*

* MANUAL AND HYDRAULIC CONTROL ONLY

3 NOMINAL DIAMETER	
¾"	¾" (20MM)
1"	1" (25MM)
1½"	1½" (40MM)
2"	2" (50MM)
2½"	2½" (65MM)
3"R	323" (80*50*80MM)
3"	3" (80MM)
3"H	434" (80*100*80MM)
4"R	434" (100*80*100MM)
4"	4" (100MM)
90	90MM (PVC)
110	110MM (PVC)
160	160MM (PVC)
6"R	6" (150*100*150MM)
6"	6" (150MM)
8"R	868" (200*150*200MM)
8"	8" (200MM)
10"	10" (250MM)
12"	12" (300MM)
14"	14" (350MM)
16"	16" (400MM)
18"	18" (450MM)
20"	20" (500MM)
24"	24" (600MM)
28"	28" (700MM)
32"	32" (800MM)

8 PILOT SPRING	
Y	YELLOW SPRING
G	GREEN SPRING
R	RED SPRING

*FOR PRS: 1ST VALUE FOR THE PR AND 2ND VALUE FOR THE PS

11 ACCESSORIES	
C/2C	CHECK POINT (1 UNIT, 2 UNIT)
P/2P	PRESSURE GAUGE (1 UNIT, 2 UNIT)
H	HYDRAULIC RELAY
F	FLOAT
O	ORIFICE
T	SHUTTLE T
N	NON-RETURN FEATURE
S	3 WAY MANUAL VALVE
LP	LOW PRESSURE DIAPHRAGM
HP	HIGH PRESSURE DIAPHRAGM

Standards Table

VALVE			ACCESSORIES				
FUNCTION	TYPE	PRESSURE GRADE	PILOT	CHECK POINT		PRESSURE GAUGE	
				UPSTREAM	DOWNSTREAM	UPSTREAM	DOWNSTREAM
PRESSURE REDUCING VALVE	PLASTIC UP TO 4"R	PN-10	29-100		✓		
	PLASTIC 4" & UP	PN-10	29-50M		✓		
	METAL UP TO 6"	PN-10	29-100		✓		
		PN-16	31-10R (3W) 68-410 (2W)				✓
	METAL 8" & UP	ALL STANDARDS	31-310				✓
PRESSURE SUSTAINING VALVE	PLASTIC UP TO 4"R	PN-10	29-200	✓			
	PLASTIC 4" & UP	PN-10	29-50M	✓			
	METAL UP TO 6"	PN-10	29-200	✓			
		PN-16	31-10S			✓	
	METAL 8" & UP	ALL STANDARDS	31-310			✓	
PRESSURE REDUCING & SUSTAINING VALVE	PLASTIC UP TO 4"R	PN-10	29-100 + 29-200	✓	✓		
	PLASTIC 4" & UP	PN-10	29-50M	✓	✓		
	METAL UP TO 6"	PN-10	29-100 + 29-200	✓	✓		
		PN-16	31-10R + 31-10S			✓	✓
	METAL 8" & UP	ALL STANDARDS	31-310+31-310			✓	✓
QUICK RELIEF VALVE	PLASTIC UP TO 4"R	PN-10	29-500	✓			
	METAL UP TO 4"	PN-16	68-215	✓			
	METAL 6" & UP	PN-16	68-510			✓	
CONTROL TUBES	8MM PE TUBE	All PN-10 Valves or valves with Plastic pilot supplied with 8mm PE tubes					
	PARKER TUBE	All PN-16 Valves or valves with Metal pilot supplied with High Pressure tubes (other tubings - optional upon request)					

→ PILOTS

	29-100	29-10R	29-200	29-50M	29-500	68-215	31-10R/S	31-310
PILOT								
	0.3-3.5 (4.5-50)	0.5-4.5 (7-65)	0.3-3.5 (4.5-50)	0.3-3 (4-40)	1-8 (15-115)			0.3-6 (4.5-90)
PRESSURE RANGE BAR (PSI)	0.5-5 (7-70)	0.5-5.5 (7-80)	0.5-5 (7-70)	0.5-4.5 (7-65)	1-10 (15-150)	0.8-13 (10-190)	0.5-6 (7-85)	0.5-10 (7-150)
	1-8 (15-115)	1-8.5 (15-125)	1-8 (15-115)	1-7.5 (15-110)		2-40 (30-580)	1.5-12 (22-175)	0.6-15 (9-220)

Flow Rate Suitability

→ FLEXIBLE SEAL (SERIES 75)

REQUIRED FLOW RATE		DIAMETER		VALVE'S SHAPE	FLOW RATE IN 1 BAR HEADLOSS (M³/H) Kv	FLOW RATE IN 1M HEADLOSS (M³/H)	FLOW RATE IN 2M HEADLOSS (M³/H)	FLOW RATE IN 3M HEADLOSS (M³/H)	FLOW RATE IN 1PSI HEADLOSS (GPM) Cv	FLOW RATE IN 1PSI HEADLOSS (GPM)	FLOW RATE IN 2PSI HEADLOSS (GPM)	FLOW RATE IN 3PSI HEADLOSS (GPM)
M³/H*	GPM	INCH	MM									
15-20	65-90	1½"	40MM	STRAIGHT	60	19	27	33	70	22	31	38
20-30	90-130	2"	50MM		70	22	31	38	80	25	36	44
30-40	130-175	3"R	80*60*80MM		75	24	34	41	90	28	40	49
40-60	175-265	3"	80MM		120	38	54	66	140	44	63	77
40-60	175-265	4" R	100*80*100MM		120	38	54	66	140	44	63	77
60-120	265-530	3"H	80*100*80MM		250	79	112	137	290	92	130	159
60-170	265-750	4"	100MM		350	111	157	192	410	130	183	225
60-170	265-750	6" R	150*100*150MM		350	111	157	192	690	218	309	378

→ RIGID SEAL (SERIES 80)

15-20	65-90	1½"	40MM	STRAIGHT	45	14	20	25	55	28	25	16
20-35	90-155	2"	50MM		55	17	25	30	65	49	29	27
15-20	65-90	1½"	40MM	ANGLE	45	14	20	25	55	28	25	16
20-35	90-160	2"	50MM		60	19	27	33	70	49	31	27
35-70	155-310	3"	80MM		145	46	65	79	170	98	76	54
35-70	155-310	4"R	100*80*100MM		145	46	65	79	170	98	76	54

* Head loss calculation according to maximum required flow

→ HEADLOSS CALCULATIONS

$$\Delta P = \left(\frac{Q}{Kv} \right)^2$$

Q=m³/h
Kv - taken from the technical publications
Result given in Bar

$$\Delta P = \left(\frac{Q}{Cv} \right)^2$$

Q=gpm
Cv - taken from the technical publications
Result given in PSI

Catalog Numbers of Main Products

(Additional diameters, connection types and functions are available upon request)

75 SERIES

DIAM.	CONN. TYPE	FUNCTIONS						
		ELECTRIC AC	ELECTRIC DC	PRESSURE REDUCING	ELECTRIC AC & PRESSURE REDUCING	ELECTRIC DC & PRESSURE REDUCING	PRESSURE SUSTAINING	PRESSURE REDUCING & SUSTAINING
2"	THR. BSP	71640-002115	71640-001582	71600-008795	71640-001581	71640-003411	71600-002292	71600-010610
3"R	THR. BSP	71640-004430	71640-004181	71600-009150	71640-016505	71640-007175	71600-011000	71600-050654
3"	THR. BSP	71640-002265	71640-005139	71600-003546	71640-002152	71640-002160	71640-002161	71600-010975
	UNI. FLN.	71640-002154	71640-002153	71600-003541	71640-002166	71640-002167	71600-035966	71600-003438
4"R	UNI. FLN.	71640-005593	71640-005524	71600-004241	71640-016520	71640-005592	71600-035870	71600-051095
4"	UNI. FLN.	71640-002342	71640-005522	71600-051101	71640-007182	71640-007183	71600-051093	71600-051102
6"R	UNI. FLN.	71640-007086	71640-007085	71600-052606	71640-007094	71640-005835	71600-052600	71600-003712

** Electric valves are in 3-way mode. Standard valve are without throttling handles (unless specified)

80 SERIES

DIAM.	SHAPE	CONNECTION TYPE	FUNCTIONS					
			ELECTRIC AC	ELECTRIC DC	PRESSURE REDUCING	ELECTRIC AC & PRESSURE REDUCING	ELECTRIC DC & PRESSURE REDUCING	QUICK RELIEF
1½"	STRAIGHT	THR. BSP	71640-001150	71640-001131	71600-050153	71640-001151	71640-001152	71600-050154
	ANGLE		71640-001132	71640-007610	71600-050151	71640-001133	71640-001134	71600-000374
2"	STRAIGHT	THR. BSP	71640-003455	71640-014420	71600-008812	71640-014427	71640-007681	71600-050701
	ANGLE		71640-003456	71640-014400	71600-050343	71640-003404	71640-014390	71600-000365
3"	ANGLE	THR. BSP	71640-004990	71640-018221	71600-009475	71640-004810	71640-002145	71600-013442
		UNI. FLN.	71640-004992	71640-017034	71600-051015	71640-005176	71640-004991	71600-013443
4"R	ANGLE	UNI. FLN.	71640-018241	71640-018242	71600-051110	71640-018240	71640-005196	71600-051120

* Electric valves of diameters 1½" & 2" are 2-way

90 SERIES

DIAM.	FUNCTIONS						
	MANUAL	ELECTRIC AC	ELECTRIC DC	PRESSURE REDUCING	ELECTRIC AC & PRESSURE REDUCING	ELECTRIC DC & PRESSURE REDUCING	PRESSURE SUSTAINING
3"	71600-005400	71640-005060	71640-005065	71600-035990	71640-016530	71640-016530	71600-011250
4"	71610-018415	71640-005520	71640-005526	71600-006053	71640-016540	71640-005521	71600-035880
6"	71600-006150	71640-005961	71640-005950	71600-006193	71640-016550	71640-005771	71600-035890
90	71600-005500	71640-005055	71640-018108	71600-005745	71640-018102	71640-005074	71600-012485
110	71600-006000	71640-011070	71640-005516	71600-005790	71640-018103	71640-018101	71600-006052
160	71600-005870	71640-005910	71640-011080	71600-012475	71640-005094	71640-005915	71600-012479

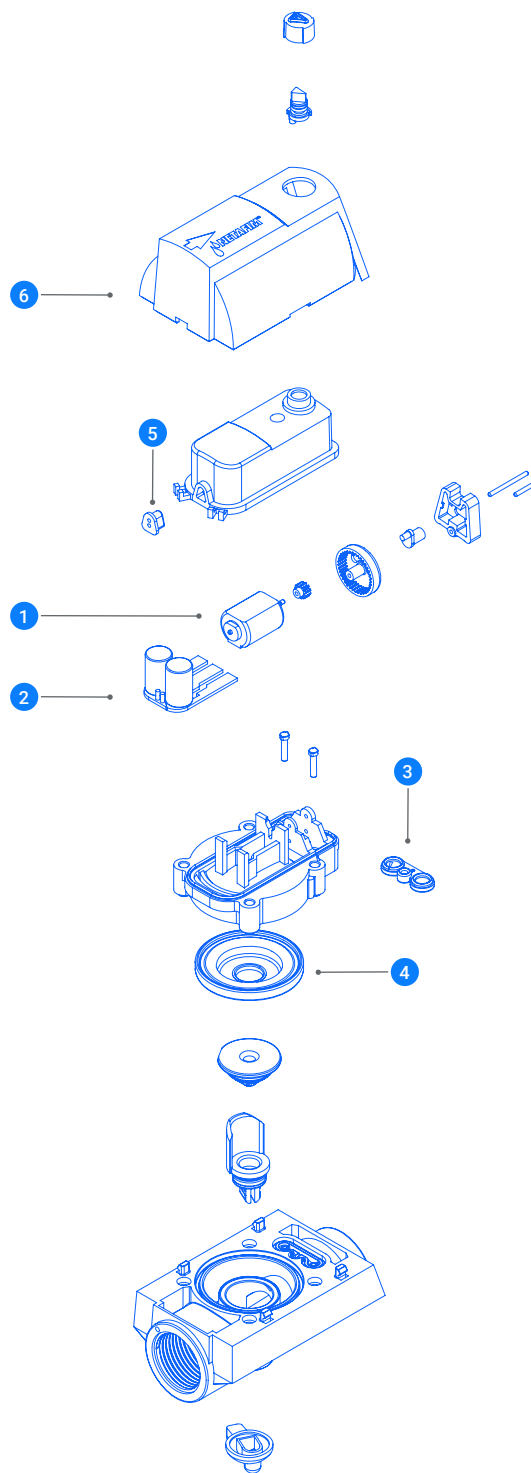
* Data is referring to valves with solvent welded end-connections

100 SERIES

DIAM.	CONNECTION TYPE	FUNCTIONS					
		PRESSURE REDUCING	ELECTRIC AC & PRESSURE REDUCING	ELECTRIC DC & PRESSURE REDUCING	PRESSURE SUSTAINING	PRESSURE REDUCING & SUSTAINING	QUICK RELIEF
3"	ISO FLANGE	71600-052310	71640-005009	71640-005025	71600-050265	71600-050270	71600-050354
	BSTD FLANGE	71600-009125	71640-005020	71640-016990	71600-011300	71600-009453	71600-014145
4"	ISO FLANGE	71600-050369	71640-005455	71640-006220	71600-050310	71600-050300	71600-014256
	BSTD FLANGE	71600-009590	71640-005210	71640-005225	71600-011540	71600-050302	71600-050301
6"	ISO FLANGE	71600-051511	71640-016671	71640-016672	71600-004421	71600-051510	71600-050372
	BSTD FLANGE	71600-004420	71640-005868	71640-016662	71600-051521	71600-011755	71600-004301

/ Spare Parts

AquaNet™ ¾" - 1"

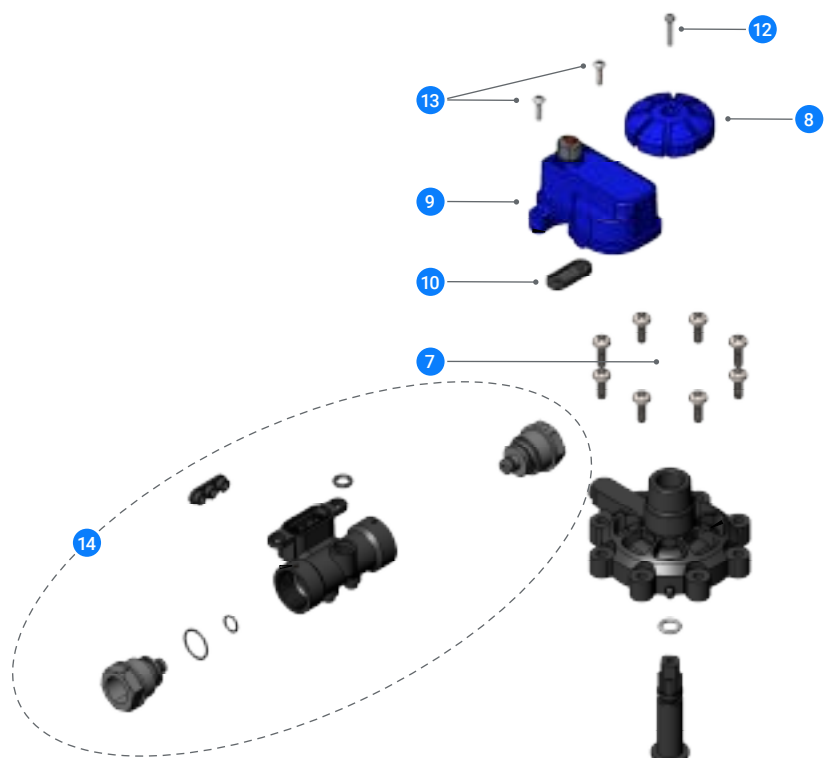


→ PARTS LIST & CATALOG NUMBERS

PART LIST #	DESCRIPTION	CATALOG NUMBER
1	ELECTRIC ENGINE DC FOR ELECTRIC VALVE	35500-005800
	ELECTRIC ENGINE AC FOR ELECTRIC VALVE	35500-005900
2	AQUANET ELECTRIC CIRCLE	35500-008550
3	AQUANET ELECTRIC VALVE DIAPHRAGM NT2	35500-004100
4	AQUANET MAIN DIAPHRAGM 1"-¾"	35500-004200
5	SEAL FOR AQUANET WIRES	35500-003500
6	TOP BLUE COVER FOR ELEC. VALVE	35500-004000

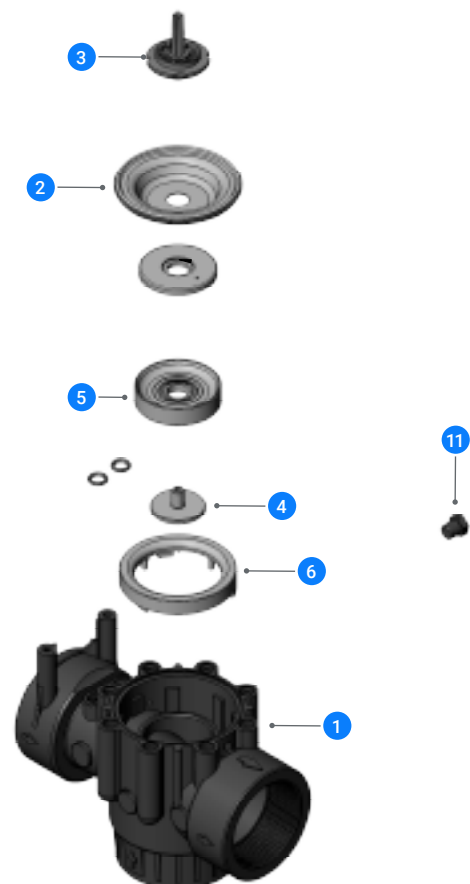
AquaNet™

1½" - 2"



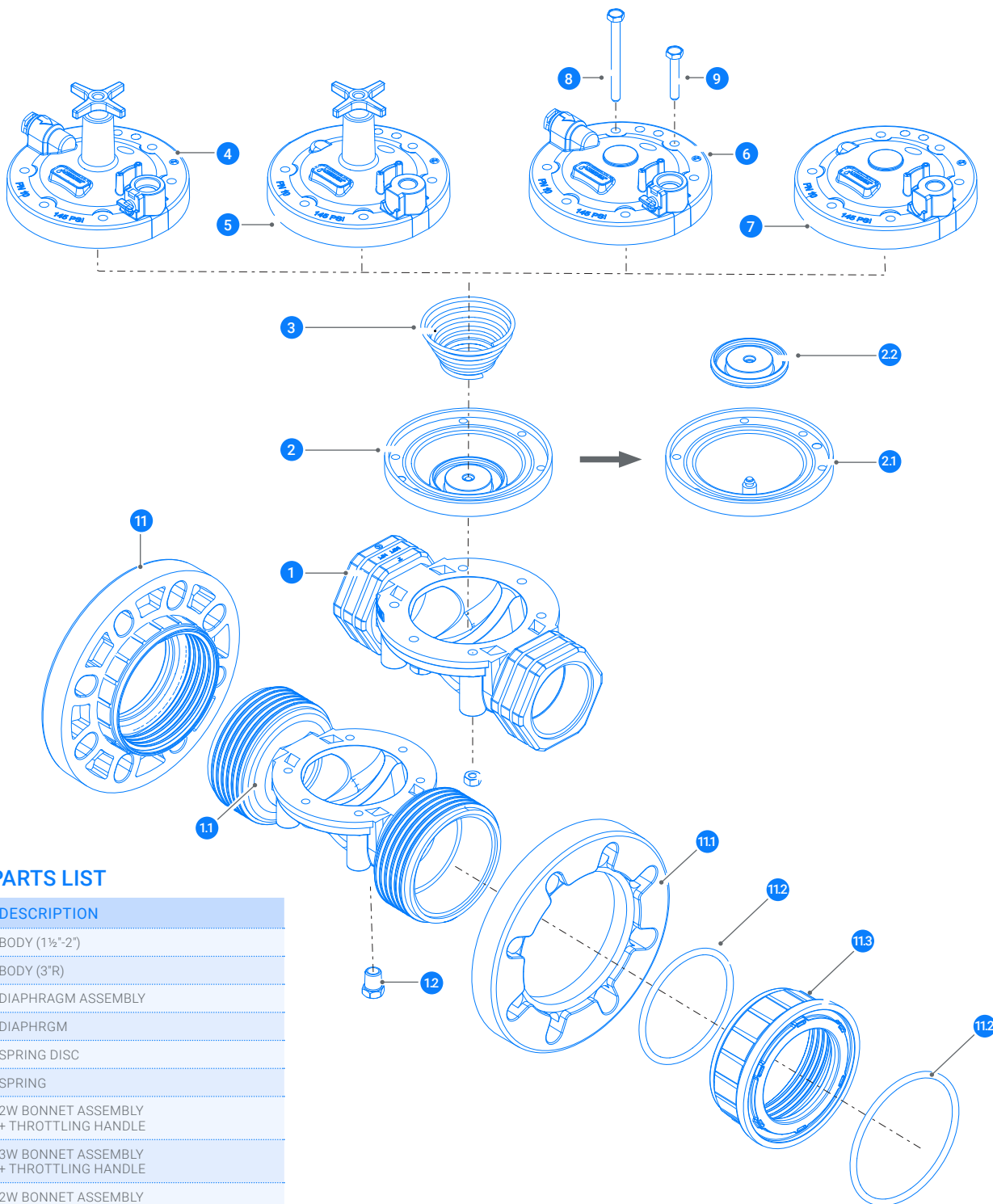
→ PARTS LIST & CATALOG NUMBERS

PART LIST #	DESCRIPTION	CATALOG NUMBER
1	PN BSP 2 10	35500-009400
2	AQUANET 1½"-2" DIAPHRAGM	35500-010600
3	AQUANET DIAPHRAGM HOLDER	35500-010300
4	AQUANET FASTENING BOLT FOR MAIN DIAPHRAGM	35500-010500
5	AQUANET DIAPHRAGM CORE	35500-010400
6	AQUANET 1½"-2" RETAINER	35500-013900
7	AQUANET STAINLESS STEEL BOLTS 1½X14-	35500-014200
8	KOMBI-HANDLE FOR BLUE CHOKE	35500-014800
9	AQUANET 1½-2 OPERATING MECHANISM DC AQUANET 1½-2 OPERATING MECHANISM AC	35500-013370 35500-013360
10	AQUANET 1½"-2" COMMAND DIAPHRAGM	35500-010800
11	TEFEN HEX PIPE PLUG 1/8 BLACK	35500-005350
12	KOMBI BOLT ¾X8	35500-014300
13	AQUANET OPERATING MECHANISM SS BOLTS 1½X10	35500-014000
14	AQUANET PILOT ASSY F/PRESSURE REGULATOR	35500-001100



75 Series Plastic Valves

1½" - 3"R



→ PARTS LIST

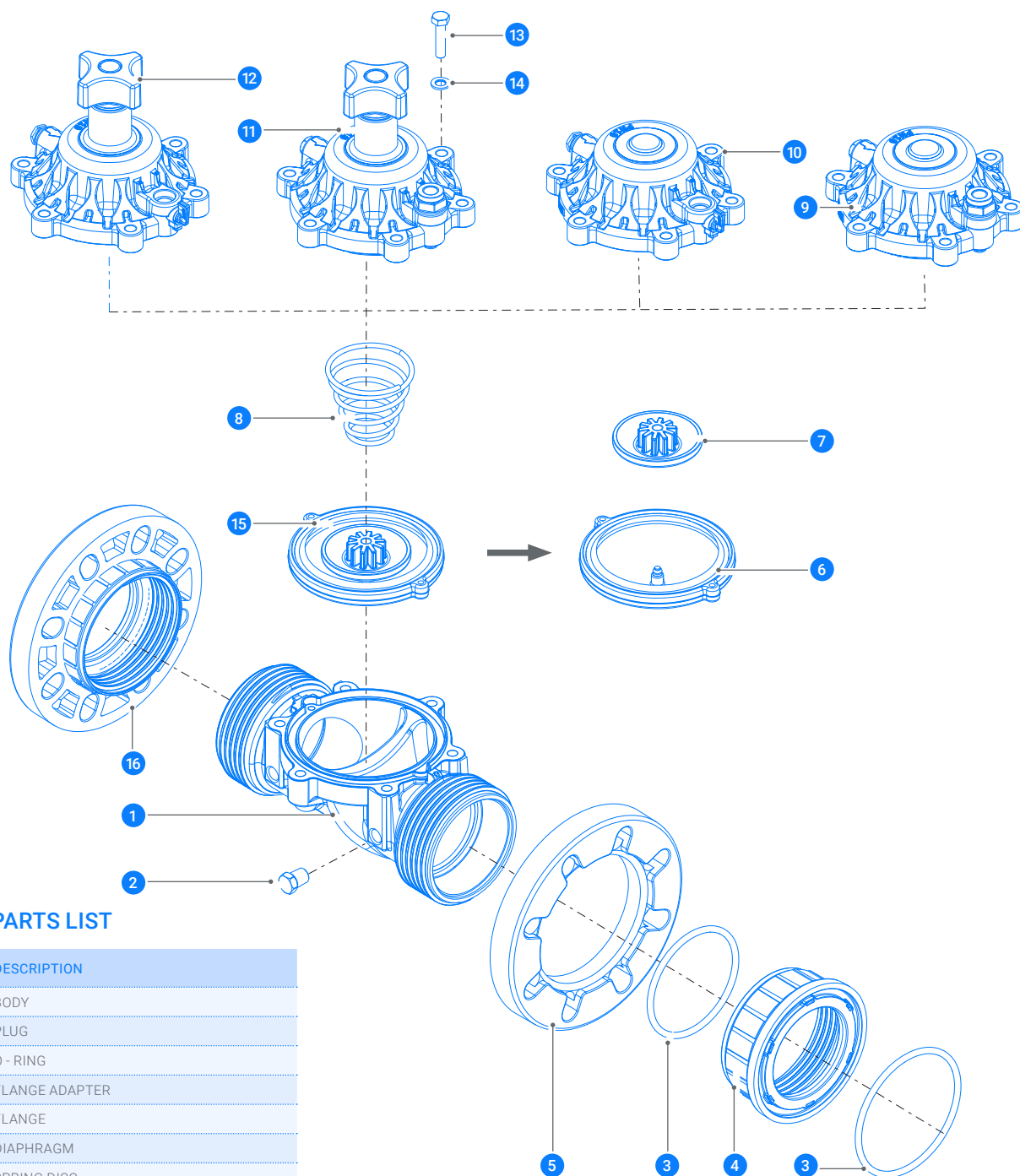
#	DESCRIPTION
1	BODY (1½"-2")
1.1	BODY (3"R)
2	DIAPHRAGM ASSEMBLY
2.1	DIAPHRGM
2.2	SPRING DISC
3	SPRING
4	2W BONNET ASSEMBLY + THROTTLING HANDLE
5	3W BONNET ASSEMBLY + THROTTLING HANDLE
6	2W BONNET ASSEMBLY
7	3W BONNET ASSEMBLY
8	BOLT
9	SHORT BOLT
10	NUT
11	FLANGE ASSEMBLY
11.1	FLANGE
11.2	O - RING
11.3	FLANGE ADAPTER
12	PLUG

→ CATALOG NUMBERS

PART LIST #	DESCRIPTION	CATALOG NUMBER
2 (2.1, 2.2)	2W, DIAPHRAGM KIT	71680-007250
	3W, DIAPHRAGM KIT	71680-006170
3	SPRING NO. 22	71680-008400
11 (11.1 - 11.3)	SET OF UNIVERSAL FLANGE 3" (1 SIDES)	71680-000610

75 Series Plastic Valves

3" - 4"R



→ PARTS LIST

#	DESCRIPTION
1	BODY
2	PLUG
3	O - RING
4	FLANGE ADAPTER
5	FLANGE
6	DIAPHRAGM
7	SPRING DISC
8	SPRING
9	3W BONNET ASSEMBLY
10	2W BONNET ASSEMBLY
11	3W BONNET ASSEMBLY + THROTTLING HANDLE
12	2W BONNET ASSEMBLY + THROTTLING HANDLE
13	BOLT
14	WASHER
15	DIAPHRAGM ASSEMBLY
16	FLANGE ASSEMBLY

Threaded body assembly parts: 1, 2

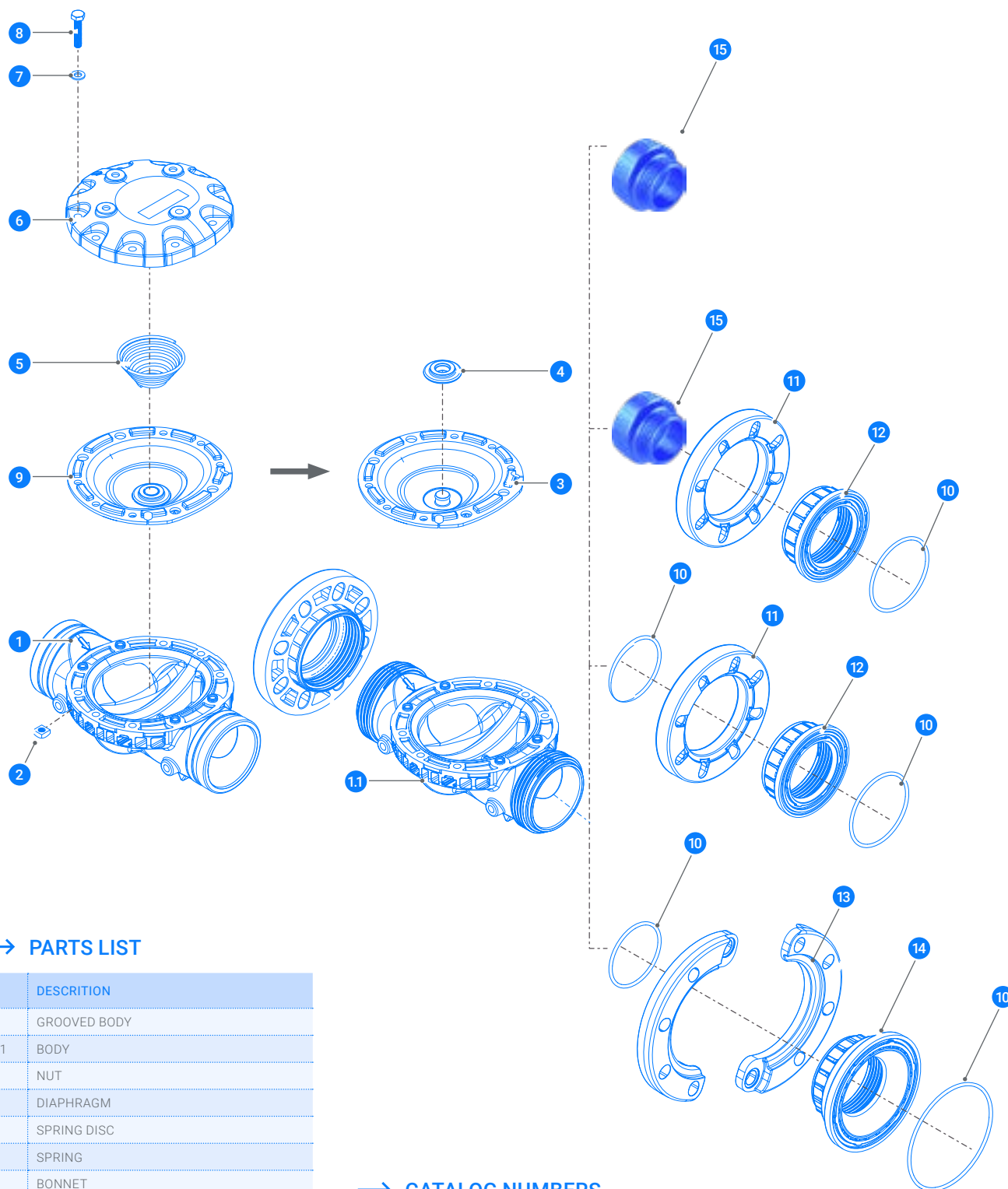
Two-sided flanged body assembly parts: 1, 2, 17 (2 qty)

→ CATALOG NUMBERS

PART LIST #	DESCRIPTION	CATALOG NUMBER
15 (6 & 7)	2W, DIAPHRAGM KIT	71680-006370
	3W, DIAPHRAGM KIT	71680-006380
8	SPRING NO. 6	71680-011022
16 (3 & 4 & 5)	SET OF UNIVERSAL FLANGE 3" (1 SIDES)	71680-000610
	SET OF UNIVERSAL FLANGE 4" (1 SIDES)	71680-000620

75 Series Plastic Valves

3H" - 6"R



→ PARTS LIST

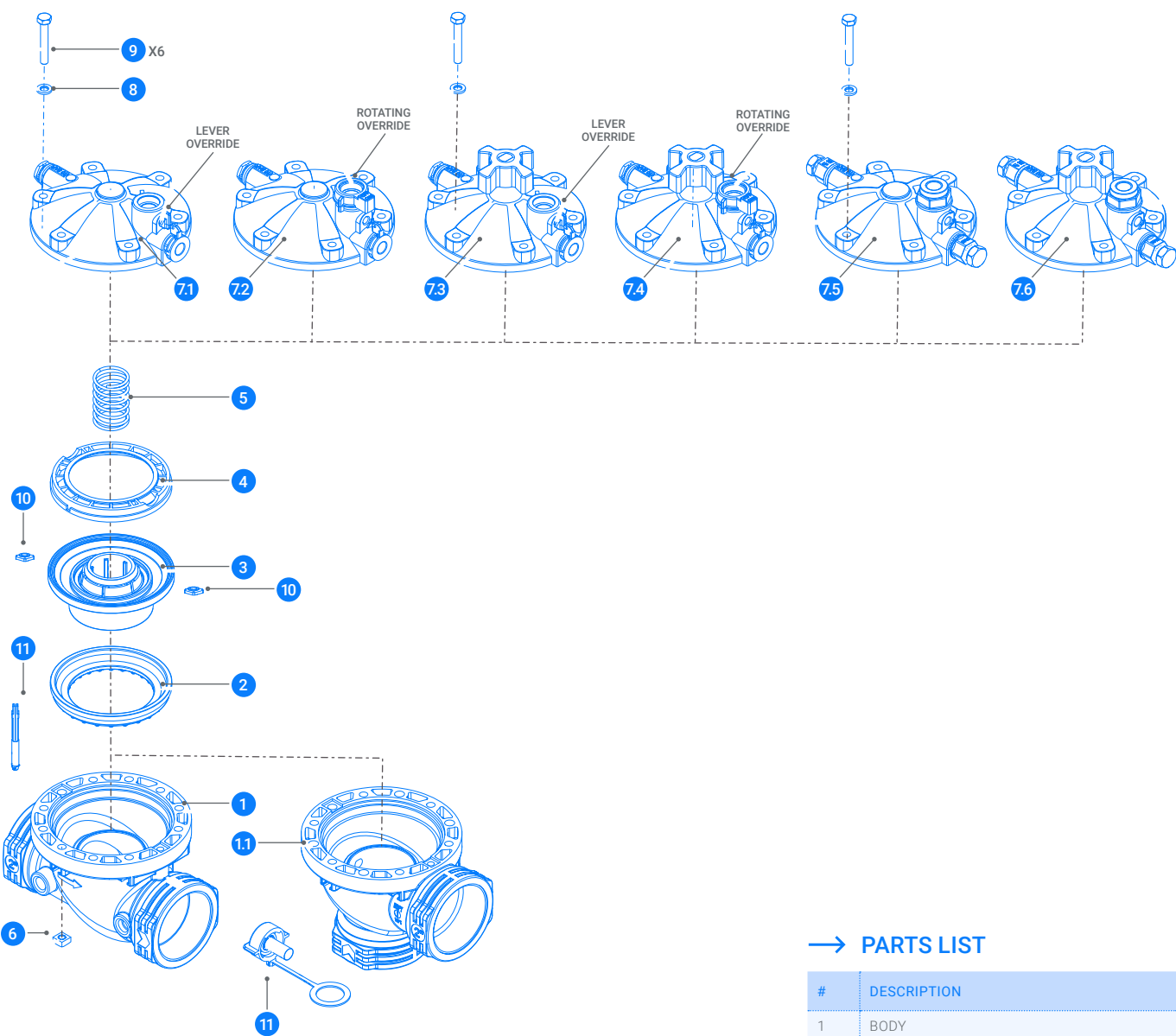
#	DESCRIPTION
1	GROOVED BODY
1.1	BODY
2	NUT
3	DIAPHRAGM
4	SPRING DISC
5	SPRING
6	BONNET
7	WASHER
8	BOLT
9	DIAPHRAGM KIT
10	O-RING
11	FLANGE
12	FLANGE ADAPTER
13	6" FLANGE (2 PCS)
14	FLANGE ADAPTER 6"
15	3" THR ADAPTER

→ CATALOG NUMBERS

PART LIST #	DESCRIPTION	CATALOG NUMBER
3 & 4	3W, DIAPHRAGM	71680-000229
5	SPRING NO. 9	71680-008100
10 & 13 & 14	SET OF UNIVERSAL FLANGE 6" (2 SIDES)	71680-000145
10 & 11 & 12	SET OF UNIVERSAL FLANGE 4" (2 SIDES)	71680-051283
15	3"H THR. NPT (2 SIDES)	71680-051280
15	3"H THR. BSP (2 SIDES)	71680-051281
10 & 11 & 12 & 15	3"H FLANGE ASSY (2 SIDES)	71680-051282

80 Series Plastic Valves

1½" - 2"



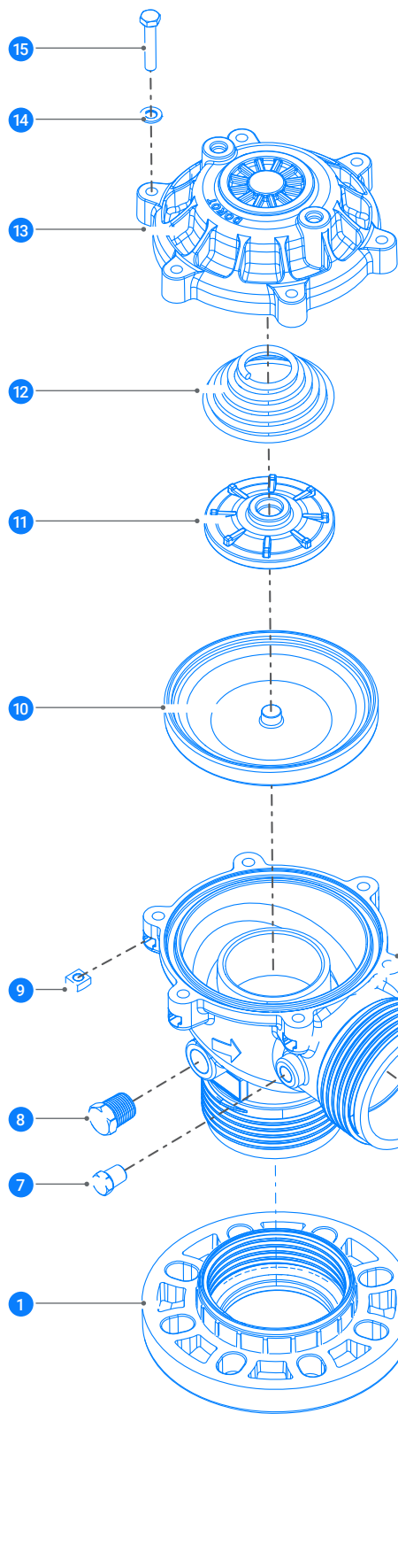
→ CATALOG NUMBERS

PART LIST #	DESCRIPTION	CATALOG NUMBER
3 (3 & 10)	DIAPHRAGM KIT	71680-006175
5	SPRING - NO. 116 FOR 2 WAY VALVES	71680-008150
	SPRING - NO. 117 FOR 3 WAY VALVES	71680-008155
11	STRAIGHT BODY FILTER KIT	71680-010430
	ANGEL BODY FILTER KIT	71680-010420
2	LOWER DIAPHRAGM SUPPORT	71680-018270
4	UPPER DIAPHRAGM SUPPORT	71680-018260

→ PARTS LIST

#	DESCRIPTION
1	BODY
1.1	ANGLE BODY
2	LOWER DIAPHRAGM SUPPORT
3	DIAPHRAGM ASSEMBLY
4	UPPER DIAPHRAGM SUPPORT
5	SPRING
6	NUT
7.1	BONNET ASSEMBLY + LEVER OVERRIDE
7.2	BONNET ASSEMBLY + ROTATING OVERRIDE
7.3	BONNET ASSEMBLY + THROTTLING HANDLE & LEVER OVERRIDE
7.4	BONNET ASSEMBLY + THROTTLING HANDLE & ROTATING OVERRIDE
7.5	3W BONNET ASSEMBLY
7.6	3W BONNET ASSEMBLY + THROTTLING HANDLE
8	WASHER
9	BOLT
10	DIAPHRAGM KIT RINGS
11	FINGER FILTER

80 Series Plastic Valves 3" - 4"R



→ PARTS LIST

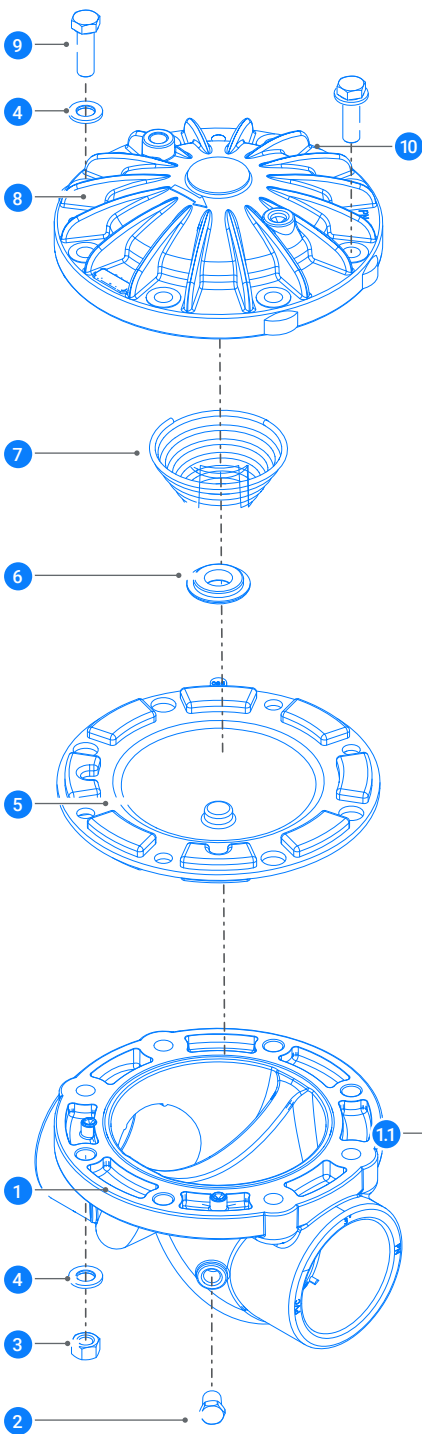
#	DESCRIPTION
1	FLANGE ASSY.
2	O - RING
3	THREADED ADAPTOR
4	FLANGE
5	O - RING
6	BODY
7	PLUG ¼
8	PLUG ½
9	NUT
10	DIAPHRAGM
11	SPRING SEAT
12	SPRING
13	BONNET
14	WASHER
15	BOLT

→ CATALOG NUMBERS

PART LIST #	DESCRIPTION	CATALOG NUMBER
10	DIAPHRAGM - NO. 345 NR	71680-007710
11	SPRING SEAT SELA	71680-009105
12	SPRING NO. 9	71680-008100
1 (2 & 3 & 4 & 5)	SET OF UNIVERSAL FLANGE 3" (1 SIDES)	71680-000610
	SET OF UNIVERSAL FLANGE 4" (1 SIDES)	71680-000620

90 Series PVC Valves

3" - 6"

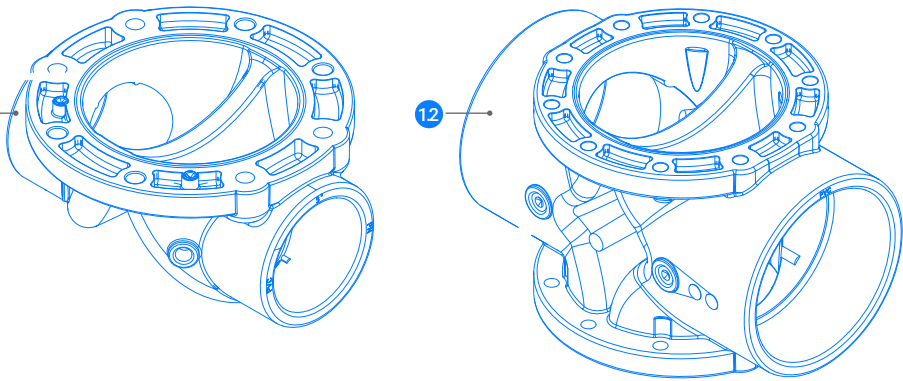


→ PARTS LIST

#	DESCRIPTION
1	SOLVENT WELDED BODY
1.1	THREADED BODY
1.2	160MM/6" BODY
3	NUT
4	WASHER
5	DIAPHRAGM
6	SPRING DISC
7	SPRING
8	BONNET
9	BOLT
10	SHORT BOLT

→ CATALOG NUMBERS

#	DESCRIPTION	CATALOG NUMBER
5	DIAPHRAGM NO. 095	71680-007660
	DIAPHRAGM NO. 052	71680-007670
6	SPRING SEAT, PVC VALVE 3" - 4"	71680-008905
	SPRING SEAT, PVC VALVE 6"	71680-008990
7	SPRING NO. 9	71680-008100
	SPRING NO. 6	71680-008190



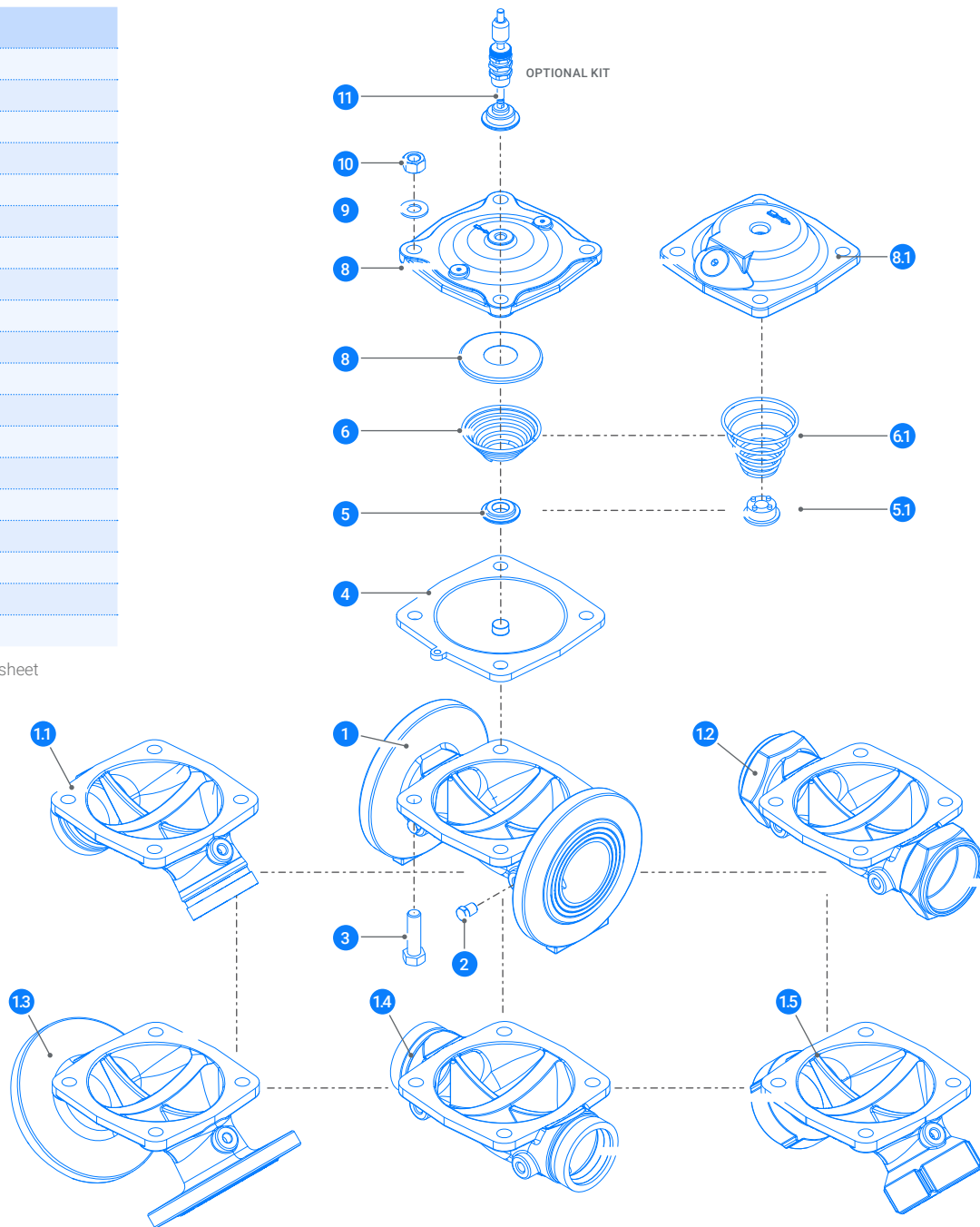
100 Series Metal Valves

1½" - 4"

→ PARTS LIST

#	DESCRIPTION
1	BODY
1.1	ANGLE GROOVED BODY
1.2	THREADED BODY
1.3	ANGLE BODY
1.4	GROOVED BODY
1.5	ANGLE THREADED BODY
2	PLUG
3	BOLT
4	DIAPHRAGM
5	BOTTOM SPRING DISC
5.1	BOTTOM SPRING DISC
6	SPRING
6.1	SPRING
7	UPPER SPRING DISC
8	BONNET 1.5"-3"R
8.1	BONNET 3"-4"
9	WASHER
10	NUT
11	INDICATOR KIT*

* Optional kit - refer to detailed data-sheet



→ CATALOG NUMBERS

PART LIST #	DESCRIPTION	CATALOG NUMBER
4	DIAPHRAGM - NO. 013	71680-007100
	DIAPHRAGM - NO. 003, S100, 2"	71680-007300
	L.P DIAPHRAGM - NO. 002, S100, 2"	71680-007400
	DIAPHRAGM - NO. 032, S100, 3"	71680-006300
	L.P DIAPHRAGM - NO. 005, S100 3"	71680-006400
5	SPRING SEAT, S100 1½" - 2"	71680-008905
	SPRING SEAT, S100 3"	71680-008900
6	SPRING - NO. 52, S100 1½" - 2"	71680-008000
	SPRING - NO. 9, S100 3"	71680-008100

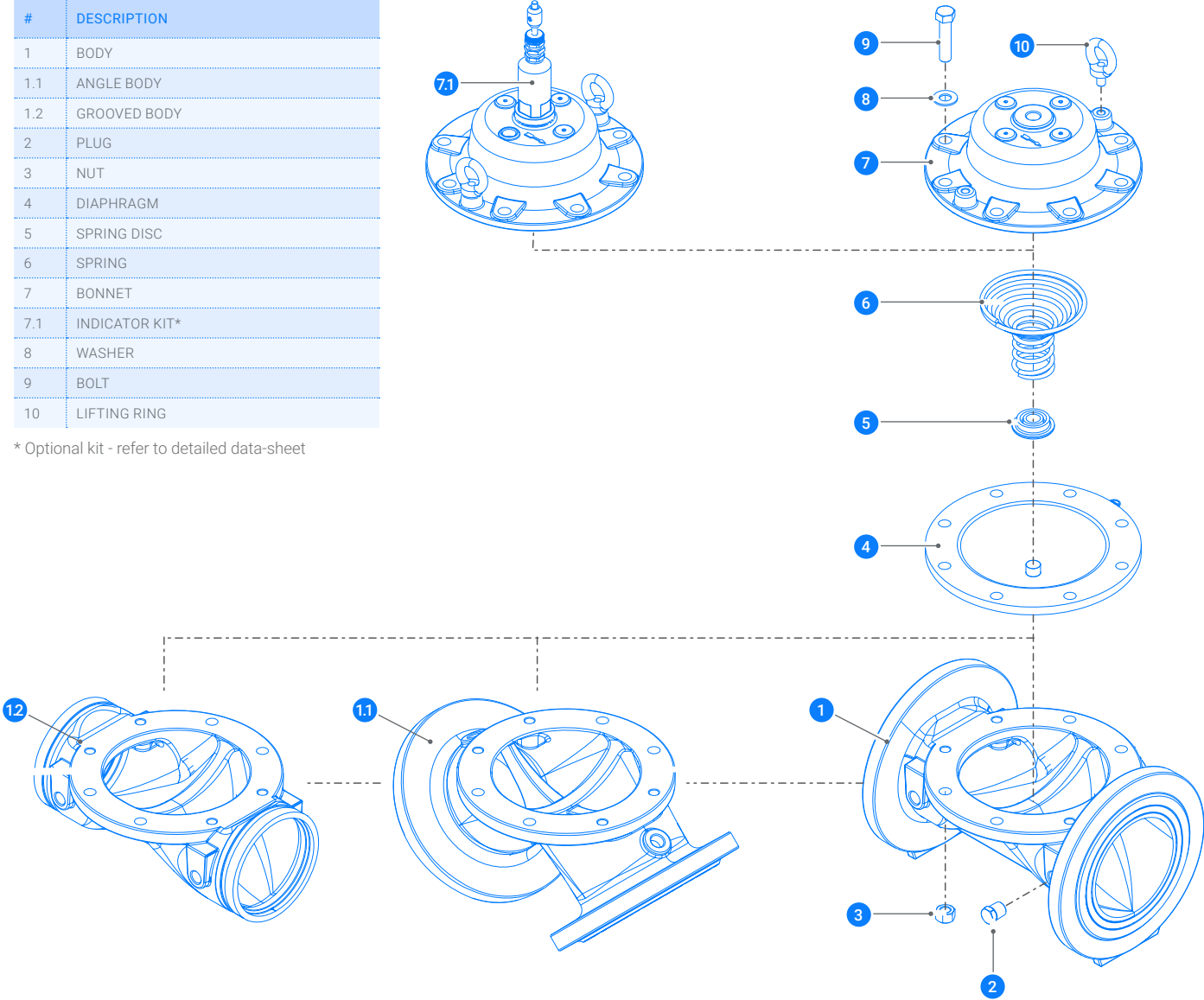
100 Series Metal Valves

6" - 10"

→ PARTS LIST

#	DESCRIPTION
1	BODY
1.1	ANGLE BODY
1.2	GROOVED BODY
2	PLUG
3	NUT
4	DIAPHRAGM
5	SPRING DISC
6	SPRING
7	BONNET
7.1	INDICATOR KIT*
8	WASHER
9	BOLT
10	LIFTING RING

* Optional kit - refer to detailed data-sheet



→ CATALOG NUMBERS

PART LIST #	DESCRIPTION	CATALOG NUMBER
4	DIAPHRAGM - NO. 062, S100 6" - 686	71680-006520
	L.P DIAPHRAGM - NO. 009, S100 6" - 686"	71680-006600
	DIAPHRAGM - NO. 036, S100 8"	71680-006850
	L.P DIAPHRAGM - NO. 037, S100 8"	71680-006860
	DIAPHRAGM - NO. 040, S100 10"	71680-006800
5	SPRING SEAT, S100 6"	71680-009000
	SPRING SEAT, S100 8" - 10"	71680-008995
6	SPRING - NO. 57, S100 6"	71680-008200
	SPRING - NO. 61, S100 8" - 10"	71680-008300

Diaphragms



→ **SERIES 75**

DIAMETER	CONFIG.	DIAPHRAGM TYPE	DIAPHRAGM MATERIAL	DIAPHRAGM NUMBER	PRES. RANGE		FULL DESCRIPTION	CAT. NUMBER
					MWC	PSI		
1IN.-25MM	3W / 2W	STANDARD	NR	025	9-100	15-115	DIAPHRAGM-NO.025 NR S75-T 1IN.-UP TO 10BAR**	71680-006140
		STANDARD	NR	001	9-100	15-115	DIAPHRAGM-NO.001 NR S75 1IN.-UP TO 10BAR	71680-006950
		LOW PRESSURE	NR	164	6-100	9-115	DIAPHRAGM-NO.164 NR S75-3W 1IN.-UP TO 10BAR	71680-007045
		SPECIAL	EPDM	356	9-100	15-115	DIAPHRAGM EPDM S75 1IN.-UP TO 10BAR	*
2IN.-50MM	2W	STANDARD	NR	021	5-100	7-140	DIAPHRAGM-NO.021 NR S75-2W 2IN.-UP TO 10BAR	71680-007160
	3W	STANDARD	NR	022	5-100	7-140	DIAPHRAGM-NO.022 NR S75-3W 2IN.-UP TO 10BAR	71680-007435
	2W	LOW PRESSURE	NR	193	3.5-80	5-115	DIAPHRAGM-NO.193 NR S75-2W 2IN.-UP TO 5BAR	*
	3W	LOW PRESSURE	NR	229	3.5-80	5-115	DIAPHRAGM-NO.229 NR S75-3W 2IN.-UP TO 5BAR	71680-006272
	3W	SPECIAL	EPDM	252	5-100	7-140	DIAPHRAGM-NO.252 EPDM S75-3W 2IN.-UP TO 10BAR	71680-017310
		SPECIAL	ALD	255	5-100	7-140	DIAPHRAGM-NO.255 ALD N704 S75-3W 2IN.-UP TO 10BAR	71680-022160
3IN.-80MM	2W	STANDARD	NR	331	5-100	7-140	DIAPHRAGM-NO.331 NR S75-2W 3IN.-UP TO 10BAR	71680-006370
	3W	STANDARD	NR	330	5-100	7-140	DIAPHRAGM-NO.330 NR S75-3W 3IN.-UP TO 10BAR	71680-006360
		SPECIAL	ALD	361	5-100	7-140	DIAPHRAGM-NO.361 ALD N704 S75-3W 3IN.-UP TO 10BAR	*
4IN.-100MM	3W	STANDARD	NR	370	5-120	7-175	DIAPHRAGM-NO.370 NR S75-3W 4IN.-UP TO 12BAR	71680-000229
6IN.-150MM	3W	STANDARD	NR	377	5-120	7-175	DIAPHRAGM-NO.370 NR S75-3W 4IN.-UP TO 12BAR	71680-000229

** Refers to s75-T model



→ **SERIES 80**

DIAMETER	CONFIG.	DIAPHRAGM TYPE	DIAPHRAGM MATERIAL	DIAPHRAGM NUMBER	PRES. RANGE		FULL DESCRIPTION	CAT. NUMBER
					MWC	PSI		
1IN.-25MM	2W	SPECIAL	EPDM-E701A	241	5-100	7-140	DIAPHRAGM-NO.241 EPDM-E701A S80 1IN.-UP TO 10BAR	*
1.5-2IN.	2W/3W	STANDARD	NR	231	5-100	7-140	DIAPHRAGM ASSEMBLY FOR S-801 1/2"-2"	71680-006175
3IN.-80MM	3W	STANDARD	NR	345	7-100	10-140	DIAPHRAGM-NO.345 NR S80 3IN.-UP TO 10BAR	71680-007710



→ **SERIES 90**

DIAMETER	CONFIG.	DIAPHRAGM TYPE	DIAPHRAGM MATERIAL	DIAPHRAGM NUMBER	PRES. RANGE		FULL DESCRIPTION	CAT. NUMBER
					MWC	PSI		
3IN.-80MM	3W	STANDARD	NR	095	6-80	8-120	DIAPHRAGM-NO.095 NR S90 3IN.-UP TO 10BAR	71680-007660
		LOW PRESSURE	NR	179	4-80	6-120	DIAPHRAGM-NO.179 NR S90 3IN.-UP TO 5BAR	43020-015980
		SPECIAL	ALD	187	6-80	8-120	DIAPHRAGM-NO.187 ALD N704 S90 3IN.-UP TO 10BAR	71680-006660
6IN.-150MM	3W	STANDARD	NR	052	5-100	7-140	DIAPHRAGM-NO.052 NR S90 6IN.-UP TO 10BAR	71680-007670
		LOW PRESSURE	NR	264	4-80	6-120	DIAPHRAGM-NO.264 NR S90 6IN.-UP TO 5BAR	43020-016040
		SPECIAL	ALD	206	5-100	7-140	DIAPHRAGM-NO.206 ALD N704 S90 6IN.-UP TO 10BAR	*
		SPECIAL	EPDM	347	5-100	7-140	DIAPHRAGM-NO.347 EPDM S90 6IN.-UP TO 10BAR	*

* Missing catalog numbers are available upon request



→ SERIES 100

DIAMETER	CONFIG.	DIAPHRAGM TYPE	DIAPHRAGM MATERIAL	DIAPHRAGM NUMBER	PRES. RANGE		FULL DESCRIPTION	CAT. NUMBER
					MWC	PSI		
1IN.-25MM	3W	STANDARD	NR	018	12-160	17-250	DIAPHRAGM-NO.018 NR S100 1IN.-UP TO 16BAR	71680-006900
		LOW PRESSURE	NR	085	5-100	7-140	DIAPHRAGM-NO.085 NR S100 1IN.-UP TO 5BAR	71680-007050
		SPECIAL	EPDM	051	12-160	17-250	DIAPHRAGM-NO.051 EPDM S100 1IN.-UP TO 16BAR	*
		POTABLE WATER	EPDM-E701A	307	12-160	17-250	DIAPHRAGM-NO.307 EPDM-E701A S100 1IN.-UP TO 16BAR	*
1.5IN.-40MM		STANDARD	NR	013	12-160	17-250	DIAPHRAGM-NO.013 NR S100 1.5IN.-UP TO 16BAR	71680-007100
		SUPER LOW PRESSURE	NR	082	5-50	7-70	DIAPHRAGM-NO.082 NR S100 1.5IN.-UP TO 5BAR	71680-007200
		LOW PRESSURE	NR	017	5-100	7-140	DIAPHRAGM-NO.017 NR S100 1.5IN.-UP TO 10BAR	71680-007150
		SPECIAL	EPDM	055	12-160	17-250	DIAPHRAGM-NO.055 EPDM S100 1.5IN.-UP TO 16BAR	71680-007205
		POTABLE WATER	EPDM-E701A	312	12-160	17-250	DIAPHRAGM-NO.312 EPDM-E701A S100 1.5IN.-UP TO 16BAR	*
2IN.-50MM		STANDARD	NR	003	15-160	21-250	DIAPHRAGM-NO.003 NR S100 2IN.-UP TO 16BAR	71680-007300
		SUPER LOW PRESSURE	NR	012	4-50	6-70	DIAPHRAGM-NO.012 NR S100 2IN.-UP TO 5BAR	71680-006271
		LOW PRESSURE	NR	002	7-100	10-140	DIAPHRAGM-NO.002 NR S100 2IN.-UP TO 10BAR	71680-007400
		SPECIAL	ALD	334	12-160	17-250	DIAPHRAGM-NO.334 ALD N704 S100 2IN.-UP TO 16BAR	*
		SPECIAL	EPDM	054	12-160	17-250	DIAPHRAGM-NO.054 EPDM S100 2IN.-UP TO 16BAR	71680-007380
		SPECIAL	NBR	042	12-160	17-250	DIAPHRAGM-NO.042 NBR S100 2IN.-UP TO 16BAR	71680-007420
		LP / POTABLE WATER	EPDM-E701A	053	5-100	7-140	DIAPHRAGM-NO.053 EPDM-E701A S100 2IN.-UP TO 10BAR	71680-007350
		POTABLE WATER	EPDM-E701A	198	15-160	21-250	DIAPHRAGM-NO.198 EPDM-E701A S100 2IN.-UP TO 16BAR	*
3IN.-80MM		STANDARD	NR	041	12-160	17-250	DIA #041 F/3 ANGLE VLV	71680-006350
		SPECIAL	EPDM	056	12-160	17-250	DIAPHRAGM-NO.056 EPDM S100 3IN.-UP TO 16BAR	71680-006430
		POTABLE WATER	EPDM-E701A	199	12-160	17-250	DIAPHRAGM-NO.199 EPDM-E701A S100 3IN.-UP TO 16BAR	*
		STANDARD	NR	032	12-160	17-250	DIAPHRAGM-NO.032 NR S100 3IN.-UP TO 16BAR	71680-006300
		LOW PRESSURE	NR	005	4-100	6-140	DIAPHRAGM-NO.005 NR S100 3IN.-UP TO 10BAR	71680-006400
		SPECIAL	NBR	043	12-160	17-250	DIAPHRAGM-NO.043 NBR S100 3IN.-UP TO 16BAR	71680-006420
		POTABLE WATER	EPDM-E701A	313	4-100	6-140	DIAPHRAGM-NO.313 EPDM-E701A S100 3IN.-UP TO 10BAR	*
6IN.-150MM		STANDARD	NR	062	20-160	28-250	DIAPHRAGM-NO.062 NR S100 6IN.-UP TO 16BAR	71680-006520
		SUPER LOW PRESSURE	NR	091	2-60	3-85	DIAPHRAGM-NO.091 NR S100 6IN.-UP TO 5BAR	71680-006620
		LOW PRESSURE	NR	009	5-100	7-140	DIAPHRAGM-NO.009 NR S100 6IN.-UP TO 10BAR	71680-006600
		SPECIAL	EPDM	011	5-100	7-140	DIAPHRAGM-NO.011 EPDM S100 6IN.-UP TO 10BAR	*
		HIGH PRESSURE	NR	035	20-160	28-250	DIAPHRAGM-NO.035 NR S100 6IN.-UP TO 16BAR	71680-006500
		SPECIAL	ALD	327	12-160	17-250	DIAPHRAGM-NO.327 ALD N704 S100 6IN.-UP TO 16BAR	*
		POTABLE WATER	EPDM-E701A	038	7-160	10-250	DIAPHRAGM-NO.038 EPDM-E701A S100 6IN.-UP TO 16BAR	71680-006530
		POTABLE WATER	EPDM-E701A	200	20-160	28-250	DIAPHRAGM-NO.200 EPDM-E701A S100 6IN.-UP TO 16BAR	*
8IN.-200MM		STANDARD	NR	036	7-160	10-250	DIAPHRAGM-NO.036 NR S100 8IN.-UP TO 16BAR	71680-006850
		LOW PRESSURE	NR	037	2-100	3-140	DIAPHRAGM-NO.037 NR S100 8IN.-UP TO 5BAR	71680-006860
		HIGH PRESSURE	NR	063	20-160	28-250	DIAPHRAGM-NO.063 NR S100 8IN.-UP TO 16BAR	71680-007010
		SPECIAL	ALD	332	7-160	10-250	DIAPHRAGM-NO.332 ALD N704 S100 8IN.-UP TO 16BAR	*
		SPECIAL	EPDM	033	7-160	10-250	DIAPHRAGM-NO.033 EPDM S100 8IN.-UP TO 16BAR	*
		SPECIAL	EPDM	240	5-100	7-140	DIAPHRAGM-NO.240 EPDM S100 8IN.-UP TO 10BAR	*
		SPECIAL	NBR	045	7-160	10-250	DIAPHRAGM-NO.045 NBR S100 8IN.-UP TO 16BAR	71680-006601
		POTABLE WATER	EPDM-E701A	326	7-160	10-250	DIAPHRAGM-NO.326 EPDM-E701A S100 8IN.-UP TO 16BAR	*
10IN.-250MM		STANDARD	NR	040	7-160	10-250	DIAPHRAGM-NO.040 NR S100 10IN.-UP TO 16BAR	71680-006800
		LOW PRESSURE	NR	050	2-50	3-70	DIAPHRAGM-NO.050 NR S100 10IN.-UP TO 5BAR	71680-006820
		SPECIAL	EPDM	119	7-160	10-250	DIAPHRAGM-NO.119 EPDM S100 10IN.-UP TO 16BAR	*
		POTABLE WATER	EPDM-E701A	360	7-160	10-250	DIAPHRAGM-NO.360 EPDM-E701A S100 10IN.-UP TO 16BAR	*

* Missing catalog numbers are available upon request



→ PLASTIC BF VALVES

DIAMETER	CONFIG.	DIAPHRAGM TYPE	DIAPHRAGM MATERIAL	DIAPHRAGM NUMBER	PRES. RANGE		FULL DESCRIPTION	CATALOG NUMBER
					MWC	PSI		
3IN.-80MM	3W	STANDARD	NR	263	2-10	30-145	DIAP. ASSY. NO 263 C 3" PLASL.	71680-012890
		STANDARD	NR	263	2-10	30-145	DIAP. ASSY. NO 263 C 3" PLASL. SK	71680-013930
4IN.-100MM	3W	STANDARD	NR	263	2-10	30-145	DIAP. ASSY. NO 263 C 4" PLASL.	71680-006250



→ METAL BF VALVES

DIAMETER	CONFIG.	DIAPHRAGM TYPE	DIAPHRAGM MATERIAL	DIAPHRAGM NUMBER	PRES. RANGE		FULL DESCRIPTION	CATALOG NUMBER
					MWC	PSI		
2IN.-50MM	3W	LOW PRESSURE	NR	337	0.7-10	10-150	DIAPHRAGM-NO.337 NR S51-S52 2IN.-UP TO 10BAR	79900-007500
		STANDARD	NR	302	0.7-16	10-250	DIAPHRAGM-NO.302 NR GALIL 2IN.-UP TO 16BAR	71680-007430
		STANDARD	NR	302	0.7-16	10-250	DOROT DIAPHRAGM NR KIT 51 F FLUSHGAL 2	71680-007480
3IN.-80MM	3W	LOW PRESSURE	NR	005	4-100	6-140	DOROT DIAPHRAGM KIT 4"X3"GRAVEL LP	71680-007800
		STANDARD	NR	89	12-160	17-250	DOROT DIAPHRAGM FOR FLUSHGAL3*2"	71680-007500
		STANDARD	NR	005	4-100	6-140	DOROT DIAP.&SHAFT ASSY FOR 3*2VALVE	71680-007750
		STANDARD	NR	89	12-160	17-250	KIT DIAF. SK-HP	71680-006180



→ GALIL VALVES

FULL DESCRIPTION	CATALOG NUMBER
DIAPHRAGM-NO.302 NR GALIL 2IN.-UP TO 16BAR	71680-007430

/ Pilots, Relays & Floats

Plastic Pilots

→ CATALOG NUMBERS

29-100 / 3-WAY PRESSURE REDUCING



SPRING COLOR	RANGE		CATALOG NUMBER		
			PILOT	SPRING	INTERNAL PARTS
#72	BAR	0.3-3.5	71680-001183	71680-010800	71680-001027
	PSI	4.5-50			
#54	BAR	0.5 - 5	71680-001182	71680-010850	
	PSI	7 - 70			
#65	BAR	1 - 8	71680-001181	71680-010700	
	PSI	15-115			

29-10R / 3-WAY PRESSURE REDUCING



SPRING COLOR	RANGE		CATALOG NUMBER		
			PILOT	SPRING	INTERNAL PARTS
#72	BAR	0.5-4.5	71680-001184	71680-010800	AVAILABLE UPON REQUEST
	PSI	7 - 65			
#54	BAR	0.5-5.5	71680-000975	71680-010850	
	PSI	7 - 70			
#65	BAR	1 - 8.5	71680-001179	71680-010700	
	PSI	15-125			

29-500 / 2-WAY QUICK RELIEF



SPRING COLOR	RANGE		CATALOG NUMBER		
			PILOT	SPRING	INTERNAL PARTS
#72	BAR	1 - 8	AVAILABLE UPON REQUEST	71680-010800	AVAILABLE UPON REQUEST
	PSI	15 - 115			
#54	BAR	1 - 10	71680-001228	71680-010850	
	PSI	15 - 150			

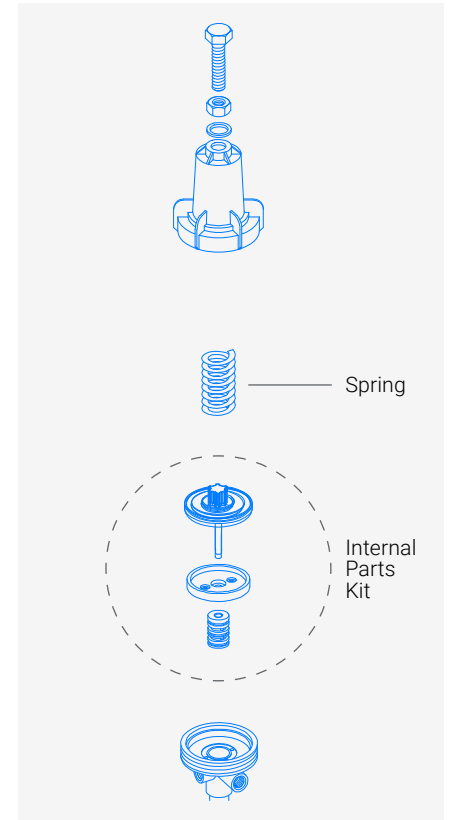
29-200 / 3-WAY MUTLI PURPOSE (PRESSURE SUSTAINING / REDUCING)



SPRING COLOR	RANGE		CATALOG NUMBER		
			PILOT	SPRING	INTERNAL PARTS
#72	BAR	0.3 - 3.5	71680-001115*	71680-010800	71680-001030
	PSI	4.5 - 50			
#54	BAR	0.5 - 5	71680-001100*	71680-010850	
	PSI	7 - 70			
#65	BAR	1 - 8	71680-001066*	71680-010700	
	PSI	15 - 115			

* Arrives with brackets

→ SPARE PARTS



→ CATALOG NUMBERS

29-50M / 3-WAY MUTLI PURPOSE (PRESSURE SUSTAINING / REDUCING)



SPRING COLOR	RANGE		CATALOG NUMBER		
			PILOT	SPRING	INTERNAL PARTS
#72	BAR	0.3 - 3	71680-051268	71680-010800	71680-001030
	PSI	4 - 40			
#54	BAR	0.5 - 4.5	71680-051269	71680-010850	
	PSI	7 - 65			
#65	BAR	1 - 7.5	71680-051270	71680-010700	
	PSI	15 - 110			

29-310 / 3-WAY FLOW CONTROL (DIFFERENTIAL PR)



SPRING COLOR	RANGE		CATALOG NUMBERS	
			PILOT	INTERNAL PARTS
#82	BAR	0.2 - 0.5	71680-001175	AVAILABLE UPON REQUEST
	PSI	3-7		

29-50F / 3-WAY FLOW CONTROL (DIFFERENTIAL PR)



SPRING COLOR	RANGE		CATALOG NUMBERS	
			PILOT	INTERNAL PARTS
#82	BAR	0.2 - 0.5	AVAILABLE UPON REQUEST	AVAILABLE UPON REQUEST
	PSI	3-7		

→ CATALOG NUMBERS

BRACKETS / PILOT TYPE	29-100/200/310/10R	29-50M/F
3/8" (FOR PLASTIC VALVES)	71680-011120	71680-000005
5/8" (FOR METAL & PVC VALVES)	71680-011122	71680-000003

Metal Pilots

→ CATALOG NUMBERS

31-10R / 3-WAY PRESSURE REDUCING



SPRING COLOR	RANGE		CATALOG NUMBER		
			PILOT	SPRING	INTERNAL PARTS
#130	BAR	0.5 - 6	AVAILABLE UPON REQUEST	71680-010860	AVAILABLE UPON REQUEST
	PSI	7 - 85			
#124	BAR	1.5-12	71680-001198	71680-008510	AVAILABLE UPON REQUEST
	PSI	22-175			

31-10S / 3-WAY PRESSURE SUSTAINING



SPRING COLOR	RANGE		CATALOG NUMBER		
			PILOT	SPRING	INTERNAL PARTS
#130	BAR	0.5 - 6	71680-001189	71680-010860	AVAILABLE UPON REQUEST
	PSI	7 - 85			
#124	BAR	1.5-12	71680-001197	71680-008510	AVAILABLE UPON REQUEST
	PSI	20-175			

31-10F / 3-WAY FLOW CONTROL (DIFFERENTIAL PR)



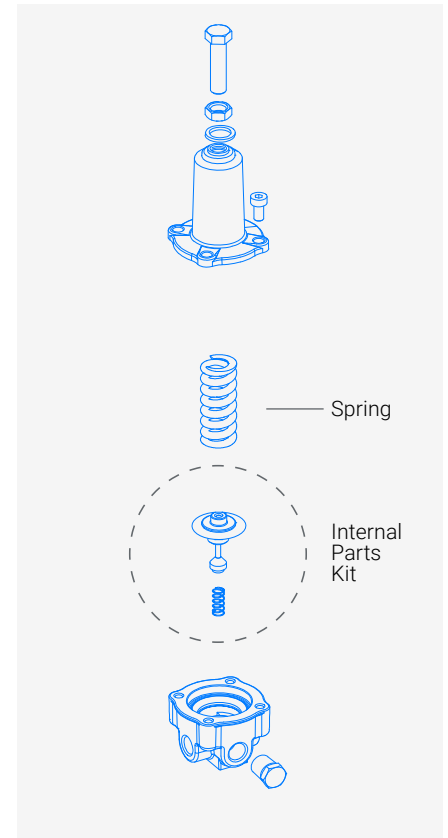
SPRING COLOR	RANGE		CATALOG NUMBER		
			PILOT	SPRING	INTERNAL PARTS
#78	BAR	0.2 - 0.7	71680-041120	71680-010810	AVAILABLE UPON REQUEST
	PSI	3 - 10			

31-310 / 3-WAY MUTLI PURPOSE (PRESSURE SUSTAINING / REDUCING)*



SPRING COLOR	RANGE		CATALOG NUMBER		
			PILOT	SPRING	INTERNAL PARTS
#42	BAR	0.3 - 6	71680-001220	71680-010600	71680-001225
	PSI	4 - 90			
#47	BAR	0.5 - 10	71680-001205	71680-010550	71680-001225
	PSI	7 - 150			
#50	BAR	0.6 - 15	71680-001210	71680-010500	71680-001225
	PSI	9 - 220			

→ SPARE PARTS



* For 8" valves or up

→ CATALOG NUMBERS

68-410 / 2-WAY PRESSURE REDUCING



SPRING COLOR	RANGE		CATALOG NUMBER		
			PILOT	SPRING	INTERNAL PARTS
#78	BAR	0.5 - 3	AVAILABLE UPON REQUEST	71680-010810	71680-001571
	PSI	7 - 45			
#66	BAR	1 - 11	71680-041130	71680-010720	
	PSI	15 - 160			
#67	BAR	2 - 25	AVAILABLE UPON REQUEST	71680-011020	
	PSI	30 - 360			

68-510 / 2-WAY PRESSURE SUSTAINING / QUICK RELIEF



SPRING COLOR	RANGE		CATALOG NUMBER		
			PILOT	SPRING	INTERNAL PARTS
#66	BAR	0.8 - 13	71680-001430	71680-010720	71680-051260
	PSI	10 - 190			
#67	BAR	2 - 40	71680-041140	71680-011020	
	PSI	30 - 580			

CXPR / 2-WAY PRESSURE REDUCING*



SPRING COLOR	RANGE		CATALOG NUMBER		
			PILOT	SPRING	INTERNAL PARTS
#53	BAR	3 - 19	71680-001263	71680-008440	AVAILABLE UPON REQUEST
	PSI	44 - 275			

* For 8" valves or up

CXPS / 2-WAY PRESSURE SUSTAINING*



SPRING COLOR	RANGE		CATALOG NUMBER		
			PILOT	SPRING	INTERNAL PARTS
#53	BAR	3 - 19	71680-001265	71680-008440	AVAILABLE UPON REQUEST
	PSI	44 - 275			

* For 8" valves or up

68-215 / 2-WAY QUICK RELIEF



SPRING COLOR	RANGE		CATALOG NUMBER		
			PILOT	SPRING	INTERNAL PARTS
#66	BAR	0.8 - 13	AVAILABLE UPON REQUEST	71680-010720	AVAILABLE UPON REQUEST
	PSI	10 - 190			
#67	BAR	2 - 16	AVAILABLE UPON REQUEST	71680-011020	
	PSI	30 - 230			

Relays & Floats

→ CATALOG NUMBERS

/ Floats

70-300 / 2-WAY MODULATING
PLASTIC FLOAT



71680-001527

70-400 / 2-WAY MODULATING
METAL FLOAT



71680-013300

70-550 / 3-WAY DIFFERENTIAL
VERTICAL METAL FLOAT



71680-001517

/ Plastic Relays

25-300 / 3-WAY HYDRAULIC RELAY



71680-000800

GALIT / 3-WAY HYDRAULIC RELAY



73220-001900

/ Metal Relays

28-200
2-WAY HYDRAULIC RELAY



71680-000960

66-21X
3-WAY HYDRAULIC RELAY



71680-001370

76-200
3-WAY HYDRAULIC RELAY



71680-041150

/ Solenoids

Aquative™

Suitable for operation in all applications - agriculture, landscape and industry (water supply system).



Benefits & Features

- ✓ Smooth operation in tough water conditions due to large orifice
- ✓ Manual override CLOSE-AUTO-OPEN
- ✓ Very low energy consumption for maximal wire distance
- ✓ Optional NC (Normally Closed) or NO (Normally Open) configuration

→ SPECIFICATIONS

MODEL	AC	DC
VOLTAGE	24 VAC	12-40 VDC
PRESSURE RANGE (NO, NC)	0 - 10 BAR 0-140 PSI	
AMBIENT TEMP. MAX	60°C (140°F)	
FLUID TEMP. MAX	60°C (140°F)	
FILTRATION REQUIREMENTS	80 MESH	
INRUSH	90MA	-
HOLDING	75MA	-
PLASTIC PARTS RAW MATERIAL	REINFORCED NYLON	
COMMAND DIAPHRAGM RAW MATERIAL	EPDM	
HYDRAULIC PORTS	1/8" BSP	
LEADS	2 X AWG22 (1.2 M)	
DELAY FROM COMMAND TO ACTIVATION	2-5 SEC.	
PULSE WIDTH	-	50MS

→ RECOMMENDED WORKING CONDITIONS CAPACITOR MODE - FOR DC MODELS

VOLTAGE (VDC)	CAPACITOR (MF)	MIN. PULSE (MS)
12-18	4700	80
18-28	3300	80
28-40	2200	80

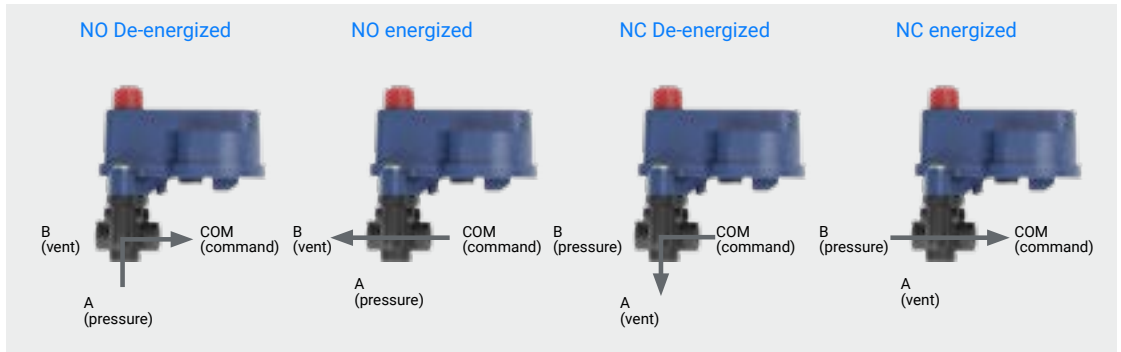
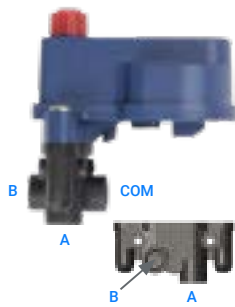
TWO WIRES: RED + / BLACK - COMMON
CHANGING WIRE CONNECTIONS WILL CHANGE NC TO NO

→ HYDRAULIC CHARACTERISTICS / WATER PASSAGE

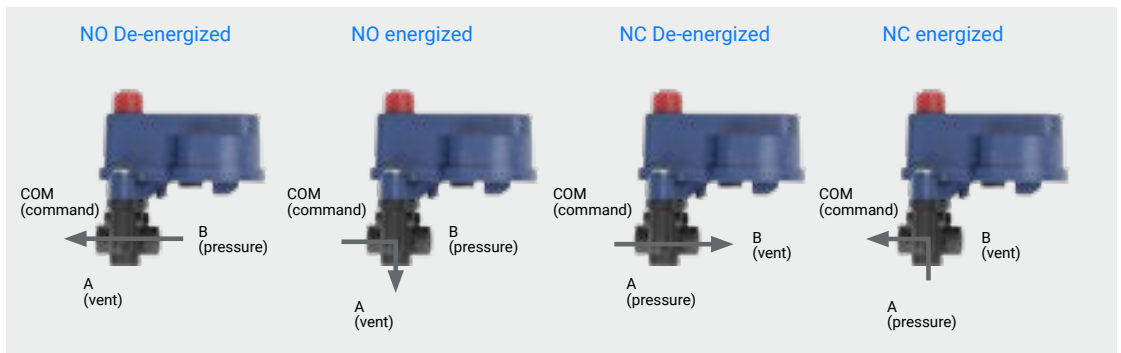
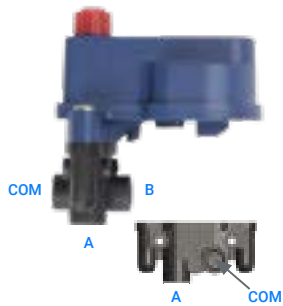
MODEL	ORIFICE
AQUATIVE PLUS™	2

→ CONFIGURATION

CONFIGURATION 1 - STANDARD



CONFIGURATION 2 - NON-STANDARD



→ PACKAGING DATA

MODEL	MODEL WEIGHT (GR)	UNITS PER CARTON	CARTON DIMENSIONS (CM X CM X CM)	CARTON WEIGHT (GR)
AQUATIVE PLUS (1 ACTUATOR)	147.5	50	28 X 28 X 56	7375
AQUATIVE PLUS (2 ACTUATOR)	457.5	14		6405
AQUATIVE PLUS (4 ACTUATOR)	783.5	8		6268
AQUATIVE PLUS (6 ACTUATOR)	1100	8		8800

→ CATALOG NUMBERS

NO. OF ACTUATOR(S)	AQUATIVE PLUS CONFIG. 1		AQUATIVE PLUS CONFIG. 2
	AC	DC	DC
1 W/O BRACKETS	35500-001200	35500-001900	35500-001920
1 W/ BRACKETS	35500-001300	35500-002000	-
2 W/ BRACKETS	35500-001400	35500-002100	35500-000710
3 W/ BRACKETS	35500-001500	35500-002200	35500-000711
4 W/ BRACKETS	35500-001600	35500-002300	35500-000712
5 W/ BRACKETS	35500-001700	35500-002400	35500-000713
6 W/ BRACKETS	35500-001800	35500-002500	35500-000714
7 W/ BRACKETS	35500-001360	35500-001361	35500-000715
8 W/ BRACKETS	35500-001850	35500-002530	35500-000718
9 W/ BRACKETS	35500-002531	35500-001860	35500-000717
10 W/ BRACKETS	35500-001870	35500-002550	35500-000718

* Anchoring with 2 screws 10x1.5"
* Bracket material: Aluminum

→ MAXIMUM DISTANCE FROM CONTROLLER TO AQUATIVE PLUS™

Wires cross-section selection for distance installation of G75 solenoids

CABLE GAUGE (AWG)	DIAMETER (MM)	CROSS SECTION (MM²)	AC	DC
			MAX. DISTANCE (M)	MAX. DISTANCE (M)
24	0.5	0.2	600	-
20	0.8	0.5	1250	150
18	1.0	0.8	2000	-
17	1.1	1.0	2500	240
16	1.3	1.3	3500	-
15	1.4	1.5	5000	380

G75 Solenoids

G75-A Suitable for operation in all applications - agriculture, landscape and industry (water supply system).

G75-A3P Specially designed for filtration systems and large diameters control valves.



G75-A

G75-A3P

Benefits & Features

- ✓ Manual override CLOSE - AUTO - OPEN
- ✓ Very low energy consumption for maximal wire distance
- ✓ Optional NC (Normally Closed) or NO (Normally Open) configuration

→ SPECIFICATIONS

MODEL	G75-A	G75-A3P
VOLTAGE	24 VAC	12-18 VDC (LATCH)
PRESSURE RANGE	0 - 12 BAR	0 - 10 BAR
AMBIENT TEMP. MAX	50°C (122°F)	
FLUID TEMP. MAX	50°C (122°F)	
FILTRATION REQUIREMENTS	80 MESH	
INRUSH	125MA	-
HOLDING	125MA	-
PLASTIC PARTS RAW MATERIAL	REINFORCED NYLON	
COMMAND DIAPHRAGM RAW MATERIAL	EPDM	NBR
HYDRAULIC PORTS	1/8" BSP/NPT	
LEADS	2 X AWG22 (0.4 M)	2 X AWG22 (0.3 M)
PULSE WIDTH	-	50MS
PROTECTION CLASS	IP66	

→ RECOMMENDED WORKING CONDITIONS CAPACITOR MODE - FOR DC MODELS

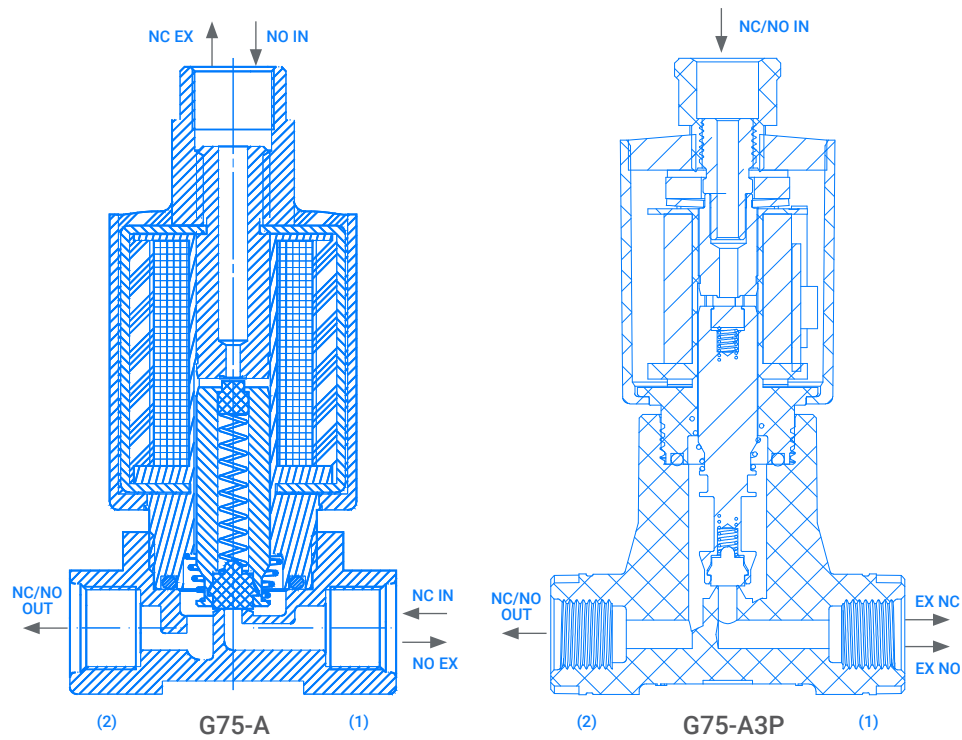
VOLTAGE (VDC)	CAPACITOR (MF)	MIN. PULSE (MS)
12-18	4700	50
18-28	3300	50
28-40	2200	50

G75-A3P NC AND NO HAS THE SAME HYDRAULIC CONNECTION PORTS
G75-A3P TWO WIRES: RED / BLACK (POLARITY IS RESTRICTED)
G75-A NC AND NO RING: BLACK (POLARITY IS NOT RESTRICTED)

→ HYDRAULIC CHARACTERISTICS / WATER PASSAGE

MODEL	ORIFICE
G75-A	1.2
G75-A3P	2.6

→ CONFIGURATION



→ CATALOG NUMBERS

NO. OF ACTUATOR(S)	G75-A	G75-A3P	
	AC	DC LATCH (N.O)	DC LATCH (N.C)
1 W/ BRACKETS	70800-006810	70800-006805	70800-006905
2 W/ BRACKETS	70800-006820	70800-006815	70800-006910
3 W/ BRACKETS	70800-006830	70800-006825	70800-006915
4 W/ BRACKETS	70800-006840	70800-006835	70800-006920
5 W/ BRACKETS	70800-006850	70800-006845	70800-006925
6 W/ BRACKETS	70800-006860	70800-006855	70800-006930
7 W/ BRACKETS	70800-006870	70800-006865	70800-006935
8 W/ BRACKETS	70800-006880	70800-006875	70800-006940
9 W/ BRACKETS	70800-006890	70800-006885	70800-006945
10 W/ BRACKETS	70800-006900	70800-006895	70800-006950

* Anchoring with 2 screws 10x1.5"

* Bracket material: Aluminum

→ MAXIMUM DISTANCE FROM CONTROLLER TO G75 SOLENOIDS

Wires cross-section selection for distance installation of G75 solenoids

NO. OF SOLE- NOIDS	1	2	3	4	DISTANCE
CROSS SECTION (MM ²)	0.5	0.5	0.75	1.0	100M
	0.5	1.0	1.5	2.5	200M
	0.75	1.5	2.5	2.5	300M
	1.0	2.5	2.5	4.0	400M
	1.5	2.5	4.0	6.0	500M
	1.5	4.0	4.0	6.0	600M
	2.5	4.0	6.0	6.0	700M
	2.5	4.0	6.0		800M
	2.5	4.5	6.0		900M
	2.5	6.0			1000M

GEMSOL Solenoids

Recommended for heavy duty applications where high performance is required. Can be used for industrial and irrigation control and automation systems. Suitable to work with air, water and oil.



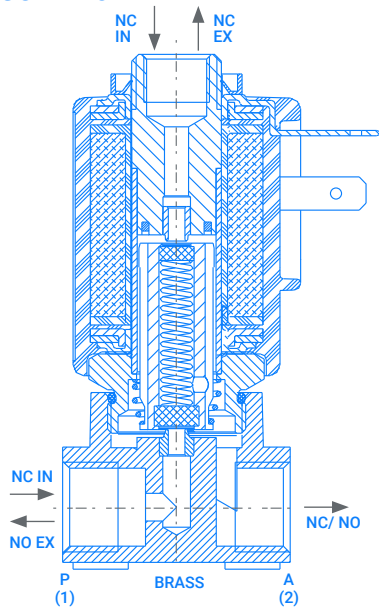
Benefits & Features

- ✓ Valves are inspected at general pressures of 12 bar or less (see table)
Valves for higher pressures are available
- ✓ ADC valves are suitable to work only with
- ✓ AC 8W or DC 10W coils.
- ✓ Latch valves are available upon request

Specifications & Recommendations

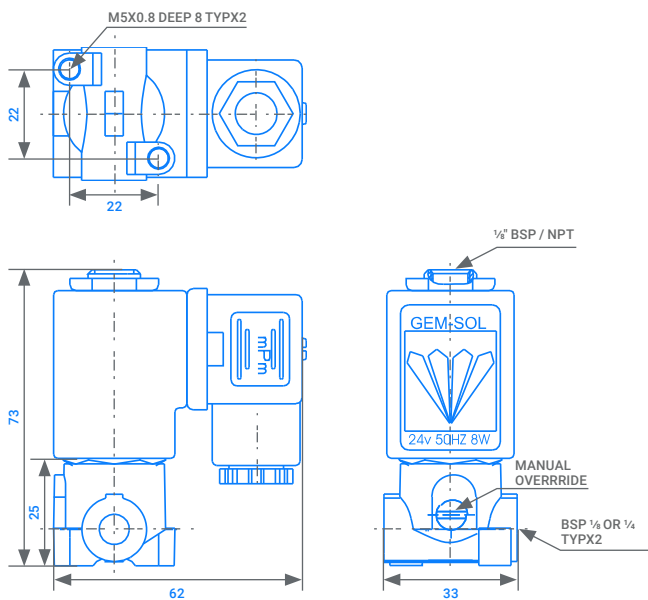
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|---|--|
| → Function: 3/2 way NC & NO | → MATERIALS |
| → Ports size: 1/8" and 1/4" BSP & NPT | Main valve: Mazak, Brass or Stainless steel 303 |
| → Orifice: See table | Solenoid Operator: Stainless steel 300 & 400 series |
| → Kv: See table | Seals: NBR, Viton, EPDM or Kalrez |
| → Pressure range: See table | → Weight (with coil): 248 gr for Mazak valve |
| → Temperature range (Fluid): max 80° C | → Media: Air, water, oil |
| → Temperature range (Ambient): -10° C - 50° C | → Coil voltage: All Baccara coils voltages 10% |
| → Manual Override: Plastic, brass screw or Brass finger knob, St.st for St.st valves | AC 8W, 5.5W and 2.5W & DC 10W, 5.5 and 3.5W |

→ CONFIGURATION



→ TECHNICAL DIMENSIONS

BRASS MODEL



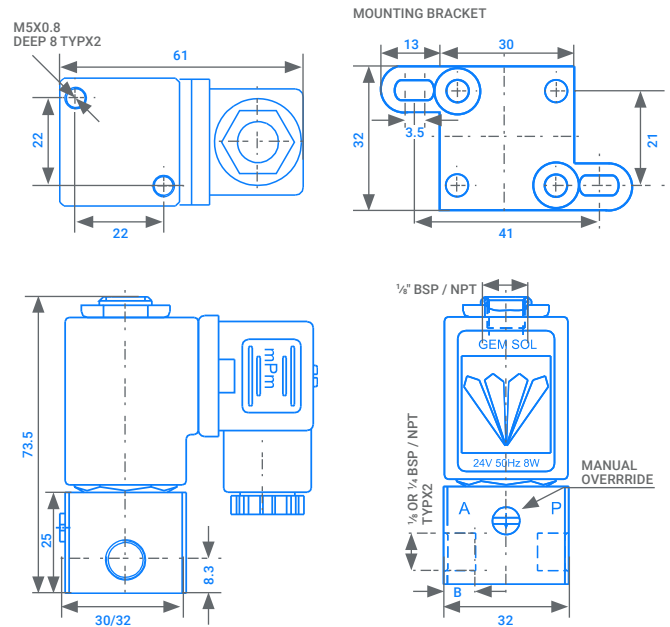
→ MAX. PRESSURE (BAR) 3W NC

COIL CURRENT/ POWER	ORIFICE					
	0.8	1.2	1.6	2.0	2.4	3.0
ADC	23	20	15	10	8	5.5
AC/8W DC/10W	35	30	17	14	10	6
AC/5.5W	23	20	15	10	8	5.5
AC/2.5W, DC/5.5W, DC/3.5W	20	16	10	9	5	4
FLOW FACTOR Kv (L/MIN)	0.6	1.1	1.7	2.5	3.5	4.5

→ MAX. PRESSURE (BAR) 3W NO

COIL CURRENT/POWER	ORIFICE					
	0.8	1.2	1.6	2.0	2.4	3.0
ADC	25	20	15	11	8	6
AC/8W, DC/10W	30	22	17	12	10	7
AC/5.5W FC/5.5W	25	20	15	11	8	6
AC/2.5W DC/3.5W	20	18	12	8	6	4
FLOW FACTOR Kv (L/MIN)	0.6	1	1.4	2.2	3.0	3.5

MAZAK / STAINLESS STEEL MODEL



Stainless steel valves are made of □ 32

→ CATALOG NUMBERS

DESCRIPTION	CATALOG NUMBER
BAC.GEM-A BR 1/4 3W NC 1.6 NBR 12VDC+CON	70800-002073
BAC.GEM-A BR 1/4N 3WNO 1.2 12VDC 10W+CON	70800-006579
BAC.GEM-A BR 1/4N 3WNO 1.6 12VDC 10W+COM	70800-006578
BAC.GEM-A BR.1/4 3W NC 1.6 110VAC8W+CON	70800-002055
BAC.GEM-A BR.1/4 3W NC 1.6 24VAC 8W+CON.	70800-002050
BAC.GEM-A BR.1/4 3W NO 1.6 110VAC8W+CON.	70800-002065
BAC.GEM-A BR.1/4 3W NO 1.6 12VDC 10W+CON	70800-002040
BAC.GEM-A BR.1/4 3W NO 1.6 24VAC 8W+CON.	70800-002060
BAC.GEM-A BR.1/4 3WNO 1.6 230VAC 8W+CON.	70800-002070
BACCARA GEM SERVO 2WNO 1" BSP 12V DC 10W	70800-001751
BACCARA GEMSOL 2.4MM 12VDC 3W NC 2WIRES	70800-006625
BACCARA GEMSOL 2.4MM 24V AC 8W NO	70800-003600
BACCARA GEMSOL 2.4MM NC 24VAC 8W	70800-003400
BACCARA GEMSOL 3W 0.8MM 24VAC 8W NO PN25	70800-003620
BACCARA SOLENOID BAR F/10 GEMSOL NC AC	70800-006420
BACCARA SOLENOID BAR F/3 GEMSOL NC AC	70800-006440

DESCRIPTION	CATALOG NUMBER
BACCARA SOLENOID BAR F/3 GEMSOL NC AC	70800-006445
BACCARA SOLENOID BAR F/4 GEMSOL NC AC	70800-006441
BACCARA SOLENOID BAR F/4 GEMSOL NC AC	70800-006446
BACCARA SOLENOID BAR F/5 GEMSOL NC AC	70800-006442
BACCARA SOLENOID BAR F/5 GEMSOL NC AC	70800-006447
BACCARA SOLENOID BAR F/6 GEMSOL NC AC	70800-006370
BACCARA SOLENOID BAR F/7 GEMSOL NC AC	70800-006443
BACCARA SOLENOID BAR F/8 GEMSOL NC AC	70800-006400
BACCARA SOLENOID BAR F/9 GEMSOL NC AC	70800-006410
GEM SOL COIL + CONN 415V AC 8W 50HZ	70800-002777
GEM SOL MZK 3WNO 1/8" BSP 1.6MM NBR	70800-002778
GEM SOL ST.ST 2WNO 1/4" BSP 2.4MM NBR	70800-002916
GEMA BRASS BSP 3WNC 1.6MM 24VAC 8W 60HZ	70800-006580
GEM-A-BR.1/4BSP 3WNO 1.6 48V/50HZ8W+CONN	70800-001222
GEMSOL BASE 3WNO 1/8" BSP 1.6 LOW POWER	70800-005601

2-Way Solenoids



→ CATALOG NUMBERS

PRODUCT NAME & ILLUSTRATION	CONFIGURATION	VOLTAGE	CATALOG NUMBER			
			OPERATOR	BASE	BASE + BRACKET	OPERATOR + BASE

S-80 2 WAY



2 WAY (NC)	24AC	71640-007140	71680-018350	71680-000240	-
	24DC	71680-031060			-
	12DC	71640-007020			-
	9-30DC LATCH	71680-018370			-

S-80 3 WAY



3 WAY (NO)	24AC	71640-007120	-	-	71640-006980
	24DC	71680-018310	-	-	71640-006990
	12DC	71640-007021	-	-	-
3 WAY (NC)	24AC	71640-007130	-	-	71640-007090

S-92 3 WAY LATCH



3 WAY (NO)	DC LATCH	71680-000180	-	-	71640-006992
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ii.ri™ Bluetooth Solenoids

SMART IRRIGATION CONTROLLER

Featuring a convenient, quick and user-friendly app. with a wide range of plans to manage your irrigation from a smartphone or tablet.

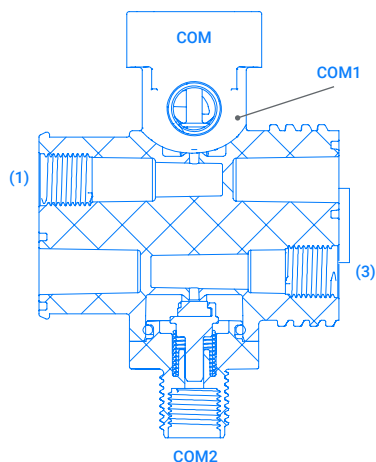


/ Benefits & Features

- ✓ Wireless operated by smart device
- ✓ Single station Irrigation Controller
- ✓ Four irrigation program types
- ✓ Minimum required iOS 7 or Android V4.3
- ✓ Battery included



→ 3 WAY HYDRAULIC ADAPTER



PORT	NO	NC
1	EXHAUST	PRESSURE
3	PRESSURE	EXHAUST
COM	OUT	OUT

→ CATALOG NUMBERS

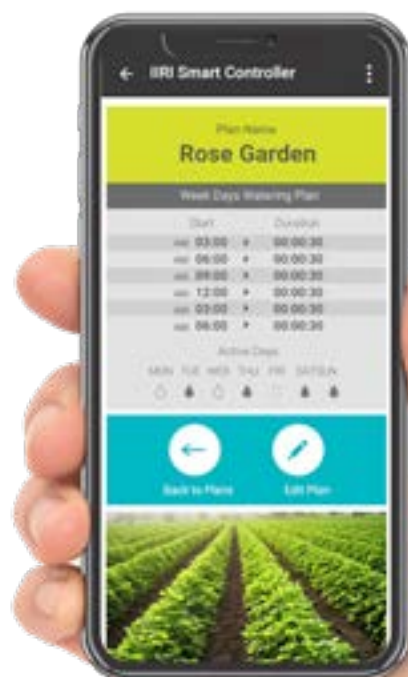
ii.ri CONTROLLER

II.RI TYPE	CATALOG NUMBER
II.RI 2-WAY	70800-000803
II.RI 3-WAY	70800-008805

→ CATALOG NUMBERS

BASIC VALVES - 80 SERIES

DIAMETER	CONN.	SHAPE	CONF.	CATALOG NUMBER
¾"	BSP	STRAIGHT	2W	71600-050115
	NPT			71600-050116
1"	BSP	STRAIGHT	2W	71600-001266
	NPT			71600-050130
1½"	BSP	STRAIGHT	2W	71640-007441
	NPT			-
	BSP	ANGLE	2W	71640-007440
	NPT			-
	BSP	STRAIGHT	3W	71600-002130
	NPT			71610-014389
	BSP	ANGLE		71600-050211
	NPT			71610-014387
2"	BSP	STRAIGHT	2W	71600-050711
	NPT			-
	BSP	ANGLE	2W	71640-007810
	NPT			-
	BSP	STRAIGHT	3W	71600-002720
	NPT			71610-014612
	BSP	ANGLE		71600-002715
	3"	BSP	ANGLE	3W
NPT		-		
UNF		71600-051000		



Simply look for ii.ri smart irrigation controller app on:



/ Complementary Accessories

Complementary Accessories

→ FITTINGS

ILLUSTRATION	DESCRIPTION	CATALOG NUMBERS
	ELBOW CONNECTOR 1/8"-8MM	76400-003400
	ELBOW CONNECTOR 1/4"-8MM	76400-003500
	STRAIGHT CONNECTOR 1/8"-8MM	76400-002100
	STRAIGHT CONNECTOR 1/4"-8MM	76400-002300
	T-CONNECTOR FOR TUBE 8MM- 1/8"-8MM	76400-004450
	T-CONNECTOR FOR TUBE 8MM-1/4"-8MM	71680-018575
	MALE PLUG 1/4" NPT	71610-000800
	MALE PLUG 3/8" NPT	71610-000810
	1/4" SELF-FLUSHING, INLINE CONTROL-FILTER	76400-013755
	TEFEN UNION CONNECTOR 8 MM	76400-001300
	TEFEN UNION TEE 8 MM	76400-004000
	TEFEN MALE RUN TEE 8 X 8 X 1/8"	76400-004550
	TEFEN PIPE REDUCING NIPPLE 1/4"-1/8"	76400-006600
	TEFEN PIPE REDUCING NIPPLE 1/2"- 1/4"	76400-006900
	KIT CHECK POINT TEE 8*1/8"*1/4" (CP)	76400-015901
	KIT CHECK POINT TEE 1/8"*8*1/4" (CP)	76400-015902
	SELF-FLUSHING, INLINE CONTROL FILTER 1/2"	71680-014100
	BUSHING MALE-FEMALE 1/2" - 1/4"	78301-003170

→ PRESSURE GAUGES

DESCRIPTION	CATALOG NUMBER
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BOTTOM INLET GLYCERIN GAUGE

NPG 2½" GLC 0-4 BAR ¼" BSP	77456-000222
NPG 2½" GLC 0-6 BAR ¼" BSP	77456-000223
NPG 2½" GLC 0-8 BAR ¼" BSP	77456-000224
NPG 2½" GLC 0-10 BAR ¼" BSP	77456-000225
NPG 2½" GLC 0-16 BAR ¼" BSP	77456-000226
NPG 2½" GLC 0-4 BAR ¼" NPT	77456-000227
NPG 2½" GLC 0-6 BAR ¼" NPT	77456-000228
NPG 2½" GLC 0-8 BAR ¼" NPT	77456-000229
NPG 2½" GLC 0-10 BAR ¼" NPT	77456-000230
NPG 2½" GLC 0-16 BAR ¼" NPT	77456-000231



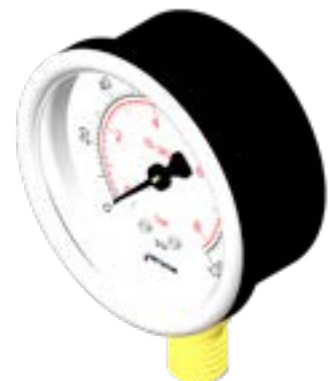
REAR INLET GLYCERIN GAUGE

NPG AX 2½" GLC 0-4 BAR ¼" BSP	77456-000232
NPG AX 2½" GLC 0-6 BAR ¼" BSP	77456-000233
NPG AX 2½" GLC 0-8 BAR ¼" BSP	77456-000234
NPG AX 2½" GLC 0-10 BAR ¼" BSP	77456-000235
NPG AX 2½" GLC 0-16 BAR ¼" BSP	77456-000236
NPG AX 2½" GLC 0-4 BAR ¼" NPT	77456-000237
NPG AX 2½" GLC 0-6 BAR ¼" NPT	77456-000238
NPG AX 2½" GLC 0-8 BAR ¼" NPT	77456-000239
NPG AX 2½" GLC 0-10 BAR ¼" NPT	77456-000240
NPG AX 2½" GLC 0-16 BAR ¼" NPT	77456-000241



BOTTOM INLET DRY GAUGE

NPG 2½" DRY 0-4 BAR ¼" BSP	77456-000100
NPG 2½" DRY 0-6 BAR ¼" BSP	77456-000101
NPG 2½" DRY 0-8 BAR ¼" BSP	77456-000210
NPG 2½" DRY 0-10 BAR ¼" BSP	77456-000103
NPG 2½" DRY 0-16 BAR ¼" BSP	77456-000104
NPG 2½" DRY 0-4 BAR ¼" NPT	77456-000120
NPG 2½" DRY 0-6 BAR ¼" NPT	77456-000121
NPG 2½" DRY 0-8 BAR ¼" NPT	77456-000211
NPG 2½" DRY 0-10 BAR ¼" NPT	77456-000123
NPG 2½" DRY 0-16 BAR ¼" NPT	77456-000124



REAR INLET DRY GAUGE

NPG AX 2½" DRY 0-4 BAR ¼" BSP	77456-000212
NPG AX 2½" DRY 0-6 BAR ¼" BSP	77456-000213
NPG AX 2½" DRY 0-8 BAR ¼" BSP	77456-000214
NPG AX 2½" DRY 0-10 BAR ¼" BSP	77456-000215
NPG AX 2½" DRY 0-16 BAR ¼" BSP	77456-000216
NPG AX 2½" DRY 0-4 BAR ¼" NPT	77456-000217
NPG AX 2½" DRY 0-6 BAR ¼" NPT	77456-000218
NPG AX 2½" DRY 0-8 BAR ¼" NPT	77456-000219
NPG AX 2½" DRY 0-10 BAR ¼" NPT	77456-000220
NPG AX 2½" DRY 0-16 BAR ¼" NPT	77456-000221



3-Way Selectors

3-way brass ball valve for hydraulic flow control. Automatic and computerized irrigation systems for agriculture and landscape gardening. Filtering, industrial, domestic water supply systems.



Reliable



Resistant



Ultimate
Durability

Benefits & Features

- ✓ The valves have a common port at the base of the valve body. Any of the three peripheral ports can be connected to the common port – the other ports are totally sealed
- ✓ Designed for three hydraulic control positions: Open, Closed, and Automatic
- ✓ Valves are sealed when handle position in between port position
- ✓ User friendly design allows smooth operation of handle with position indicator
- ✓ Easy viewing of the operating position

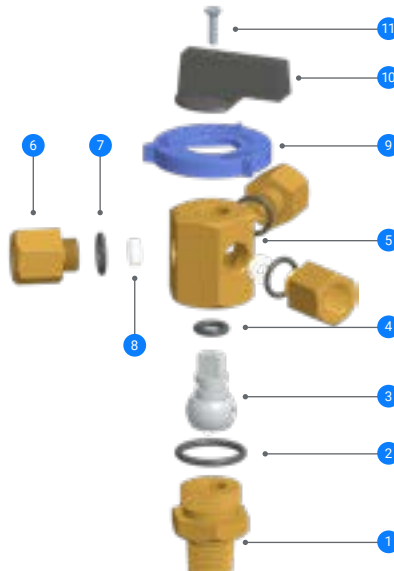
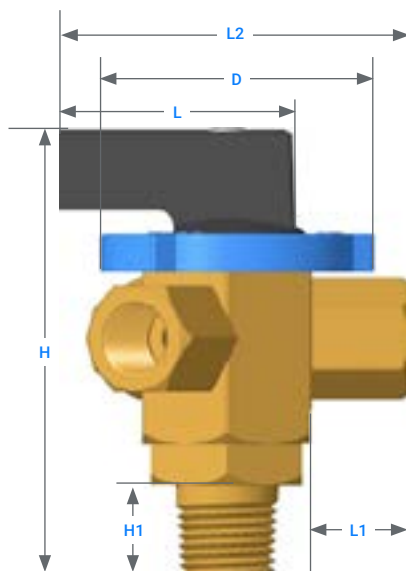
Specifications & Recommendations

- Common port at base of the valve body
- Base port thread: Male threaded 1/4" BSP or NPT
- Three threaded ports: Female threaded 1/8" BSP or NPT or 1/4" BSP or NPT
- Passage size: 3.5 mm
- Maximum working pressure: 10 Bar
- One moving part only

→ PACKAGING DATA

MODEL	QTY. P/BOX UNIT	BOX SIZES (CM X CM X CM)	BOX WEIGHT (KG)	BOXES P/PALLET
¼" MTH - 3 X ⅜" FTH	100	41.0 X 26.5 X 12.0	14.4	64
¼" MTH - 3 X ¼" FTH	40	26.7 X 19.5 X 13.5	9.7	120

→ TECHNICAL DIMENSIONS



→ MATERIAL SPECIFICATION

#	PART NAME	MATERIAL	QTY.
1	BASE	BRASS	1
2	BASE O-RING	EPDM	1
3	BALL	NICKEL PLATED BRASS	1
4	BALL O-RING	EPDM	1
5	BODY	BRASS	1
6	NOZZLE	BRASS	3
7	NOZZLE O-RING	EPDM	3
8	SEAL	TEFLON (PTFE)	3
9	BODY COVER	ABS	1
10	HANDLE	ABS	1
11	SCREW	STAINLESS STEEL	1

size	nom	D (MM)	L (MM)	L1 (MM)	L2 (MM)	H (MM)	H1 (MM)
¼" MTH - 3 X ⅜" FTH		33.0	43.5	13.0	58.0	53.2	12.0
¼" MTH - 3 X ¼" FTH		42.3	49.0	13.6	67.6	73.2	12.0

→ CATALOG NUMBERS

PRODUCT ILLUSTRATION	PRODUCT DESCRIPTION	CATALOG NUMBER
	NMV BR BALL VLV 3W ¼" MTH ⅜" FTH BSP	77455-000200
	NMV BR BALL VLV 3W ¼" MTH ⅜" FTH NPT	77455 000201
	NMV BR BALL VLV 3W ¼" MTH ¼" FTH BSP	77455 000202
	NMV BR BALL VLV 3W ¼" MTH ¼" FTH NPT	77455 000203

→ ADDITIONAL COMPONENTS

PRODUCT ILLUSTRATION	PRODUCT DESCRIPTION	CATALOG NUMBER
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3-WAY BRASS VALVES

	NMV BR BALL VLV 3W 1/4" MTH 1/8" FTH BSP	77455-000200
	NMV BR BALL VLV 3W 1/4" MTH 1/8" FTH NPT	77455-000201
	NMV BR BALL VLV 3W 1/4" MTH 1/4" FTH BSP	77455-000202
	NMV BR BALL VLV 3W 1/4" MTH 1/4" FTH NPT	77455-000203

BRASS MODEL

	PRESSURE GAUGE VALVE 1/4 SM	76040-001100
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* 1/4" NPT male x female threaded connection

* Max. Working Pressure: 25 Bar

PLASTIC MODEL

	NPG 1/4" MTH-FTH BSP VALVE	77456-000180
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* System vibration not affect the pressure gauge.

* 1/4" BSP or NPT male x female threaded connection

* Max. Working Pressure: 6 Bar

* All parts are chemical/corrosion resistant, color UV stabilized.

PRESSURE GAUGE PITOT NEEDLE

	NPG PITOT NEEDLE 1/4" BSP	77456-000200
	NPG PITOT NEEDLE 1/4" NPT	77456-000201

* 1/4" thread for direct connection to the pressure gauge

* Fits into dedicated measuring points (see below), allowing measuring pressure at any given point along the system.

PRESSURE MEASURING POINT

	PRESSURE MEASURING POINT - BARB	63000-002800
	PRESSURE MEASURING POINT - 1/8" BSP	63000-002750

/ Manual Valves

True Union Ball Valves

Physical shut off, manual restrictions, control or service needs in irrigation head controls, field plots, nurseries, greenhouses, Nutrigation™ systems, water conveyance systems.



High Quality



Ultimate Durability



Durable & Reliable

Benefits & Features

→ Saves operation costs

A quarter turn shut off valve, threaded or glued socket, user friendly design allowing smooth handle operation

Corrosion resistant and UV stabilized

A true union ball valve, specifically designed for water application and for safe pipe line operation

→ Saves labor costs and multiple investments in maintenance

In the closed position, the pipeline can be disconnected downstream from the valve without any leakage

The valve is removable from the pipeline, allowing quick maintenance

Highly reliable operation and durable over time

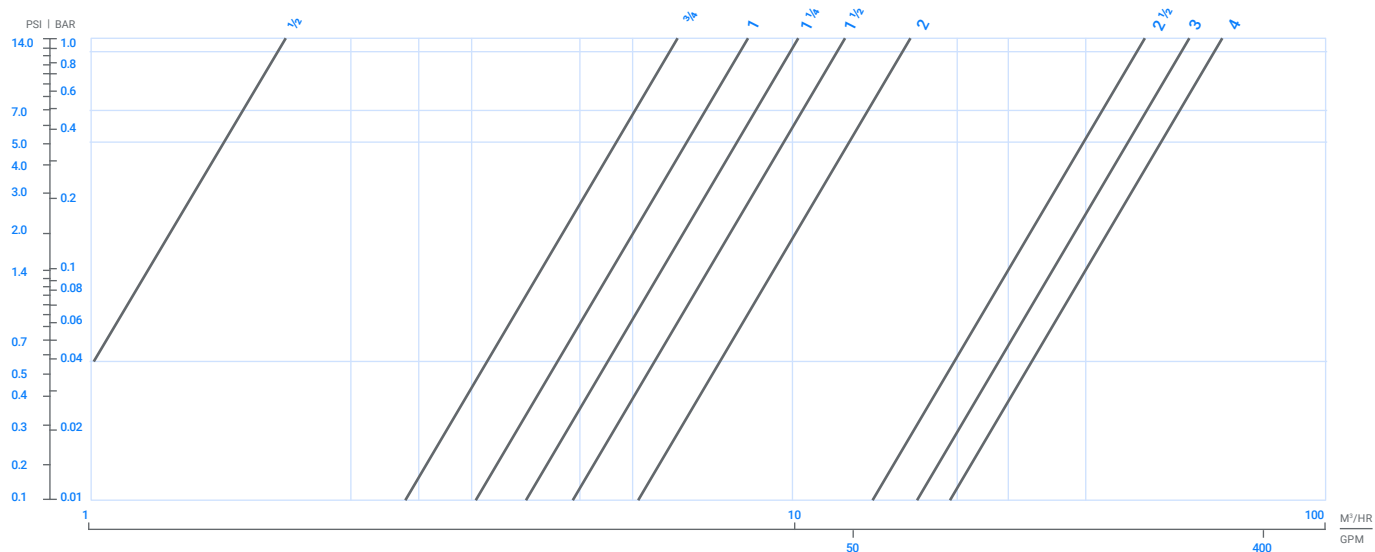
Specifications & Recommendations

- Ideal for application in temperature range of -5°C and 50°C, guaranteeing optimal performance in terms of mechanical resistance, good rigidity, low coefficients of thermal expansion and optimal safety factors in service
- Operational up to 10 bar
- Low head losses
- Wide range of connections:
Threaded (BSP or NPT standards) or SG, socket glued (ISO/DIN, ASTM, BS)

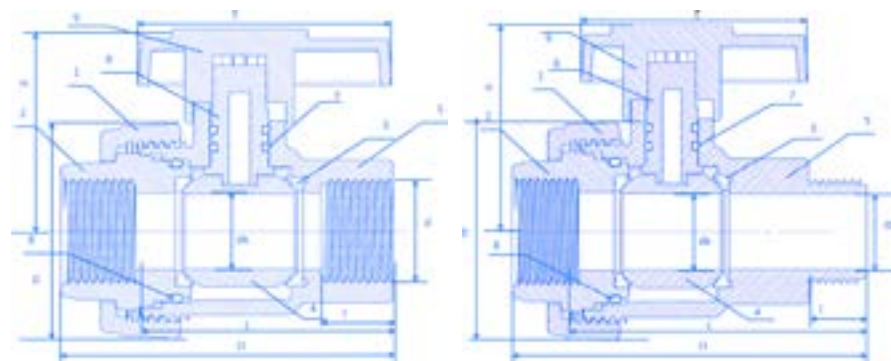
→ PACKAGING DATA

MODEL	QUANTITY P/BOX UNIT	BOX SIZES (CM X CM X CM)	FEMALE-FEMALE THREADED CONNECTION BOX WEIGHT (KG)	MALE-FEMALE THREADED CONNECTION BOX WEIGHT (KG)	SOCKET GLUED CONNECTION BOX WEIGHT (KG)	BOXES P/PALLET
1/2" - 20MM	150	43.0 X 33.0 X 39.0	24.55	26.00	24.70	12
3/4" - 25MM	150		22.11	23.83	22.33	
1" - 32MM	75		17.03	17.74	16.84	
1 1/4" - 40MM	50		17.54	18.09	17.34	
1 1/2" - 50MM	16		10.91	10.58	10.53	
2" - 63MM	8		8.68	8.90	8.52	
2 1/2" - 75 MM	8		12.08	12.04	11.86	
3" - 90MM	4		15.93	13.09	12.85	
4" - 110MM	2		9.84	9.64	9.84	

→ HEAD LOSS



→ TECHNICAL DIMENSIONS TRUE UNION BALL VALVES ½", ¾", 1", 1¼"



INLET CONNECTOR - THREADED MALE / OUTLET CONNECTOR - THREADED FEMALE

SIZE \ NOM	BSP (TPI)	NPT (TPI)	DK (MM)	D (MM)	I (MM)	L (MM)	LT (MM)	E (MM)	H (MM)
½"	14.00	14.00	20.00	60.00	16.00	80.20	99.15	60.80	56.50
¾"	14.00	14.00	20.00	60.00	18.00	80.20	99.15	60.80	56.50
1"	11.00	11.50	24.50	69.00	17.70	89.00	110.40	71.00	66.45
1¼"	11.00	11.50	31.80	79.50	25.70	88.00	122.80	105.00	70.30

INLET CONNECTOR - THREADED FEMALE / OUTLET CONNECTOR - THREADED FEMALE

SIZE \ NOM	BSP (TPI)	NPT (TPI)	DK (MM)	D (MM)	I (MM)	L (MM)	LT (MM)	E (MM)	H (MM)
½"	14.00	14.00	20.00	60.00	16.00	63.50	82.60	60.80	56.50
¾"	14.00	14.00	20.00	60.00	18.00	63.50	82.60	60.80	55.50
1"	11.00	11.50	24.50	69.00	19.55	70.50	93.00	71.00	66.45
1¼"	11.00	11.50	31.80	79.50	27.40	88.00	122.80	105.00	70.30

INLET CONNECTOR - SOCKET GLUED / OUTLET CONNECTOR - SOCKET GLUED

SIZE \ NOM	BSP (TPI)	NPT (TPI)	DK (MM)	D (MM)	I (MM)	L (MM)	LT (MM)	E (MM)	H (MM)
20MM	20.20	20.20	20.00	60.00	16.00	63.50	82.60	60.80	56.60
25MM	25.00	25.00	20.00	60.00	18.00	63.50	82.60	60.80	55.60
32MM	32.00	32.00	24.50	69.00	19.55	70.50	93.00	71.00	66.45
40MM	40.00	40.00	31.80	79.50	27.40	88.00	122.80	105.00	70.30

INLET CONNECTOR - SOCKET GLUED / OUTLET CONNECTOR - SOCKET GLUED

SIZE \ NOM	BSP (TPI)	NPT (TPI)	DK (MM)	D (MM)	I (MM)	L (MM)	LT (MM)	E (MM)	H (MM)
½"	21.20	21.40	20.00	60.00	18.00	63.50	82.60	60.80	55.60
¾"	26.67	26.00	20.00	60.00	18.00	63.50	82.60	60.80	55.60
1"	33.40	34.00	24.50	69.00	19.55	70.50	93.00	71.00	66.45
1¼"	42.16	42.00	31.80	79.50	27.40	88.00	122.80	105.00	70.30

→ MATERIAL SPECS PVC BALL VALVES ½", ¾", 1", 1¼"

#	PART NAME	MATERIAL	QTY.
1	RING	UPVC	1
2	BUSH**	UPVC	1
3	SEAL	TPE	2
4	BALL	UPVC	1
5	BODY	UPVC	1
6	SHAFT	UPVC	1
7	SHAFT O-RING	HNBR	2
8	MAIN O-RING**	HNBR	1
9	HANDLE	ABS	1
10	THREADED BUSH*	UPVC	1
11	BUSH BIG O-RING*	HNBR	1
12	BUSH SMALL O-RING*	HNBR	1
13	SOCKET*	UPVC	1

* 1¼" Ball Valve

** ¾" Ball Valve

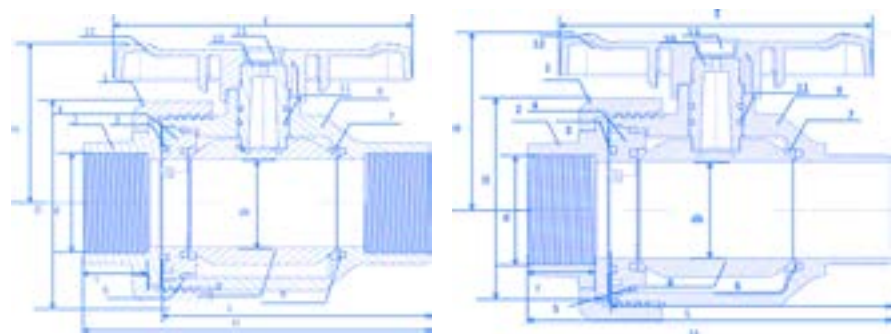
→ MATERIAL SPECS POLYPROPYLENE BALL VALVES ½", ¾", 1", 1¼"

#	PART NAME	MATERIAL	QTY.
1	RING	UPVC	1
2	BUSH**	UPVC	1
3	SEAL	TPE	2
4	BALL	UPVC	1
5	BODY	UPVC	1
6	SHAFT	UPVC	1
7	SHAFT O-RING	HNBR	2
8	MAIN O-RING**	HNBR	1
9	HANDLE	ABS	1

* 1¼" ball valve

** ¾" ball valve

→ TECHNICAL DIMENSIONS TRUE UNION BALL VALVES 1½", 2", 2½", 3"



INLET - THREADED MALE / OUTLET CONNECTOR - THREADED FEMALE

SIZE \ NOM	BSP (TPI)	NPT (TPI)	DK (MM)	D (MM)	I (MM)	L (MM)	LT (MM)	E (MM)	H (MM)
1½"	11.00	11.50	39.40	94.40	32.00	98.50	136.60	121.00	90.80
2"	11.00	11.50	49.50	116.00	35.40	119.00	164.80	150.00	97.00
2½"	11.00	8.00	59.00	131.60	45.50	139.50	197.20	162.00	110.00
3"	11.00	8.00	76.00	178.80	42.80	180.00	230.40	200.40	139.00

INLET CONNECTOR - THREADED FEMALE / OUTLET CONNECTOR - THREADED FEMALE

SIZE \ NOM	BSP (TPI)	NPT (TPI)	DK (MM)	D (MM)	I (MM)	L (MM)	LT (MM)	E (MM)	H (MM)
1½"	11.00	11.50	39.40	94.40	32.00	76.60	148.80	121.00	88.30
2"	11.00	11.50	49.50	116.00	35.40	119.00	164.80	150.00	97.00
2½"	11.00	8.00	59.00	131.60	45.50	140.85	195.40	162.00	110.00
3"	11.00	8.00	76.00	178.80	42.80	178.10	250.00	200.40	139.00

INLET CONNECTOR - SOCKET GLUED / OUTLET CONNECTOR - SOCKET GLUED

SIZE \ NOM	BSP (TPI)	NPT (TPI)	DK (MM)	D (MM)	I (MM)	L (MM)	LT (MM)	E (MM)	H (MM)
50MM	50.00	50.00	39.40	94.40	32.00	76.60	148.80	121.00	88.30
63MM	63.00	63.00	49.50	116.00	35.40	88.00	175.40	150.00	97.00
75MM	75.00	75.00	59.00	131.60	45.50	140.85	195.40	162.00	110.00
90MM	90.00	90.00	76.00	178.80	42.80	178.10	250.00	200.40	139.00

INLET CONNECTOR - SOCKET GLUED / OUTLET CONNECTOR - SOCKET GLUED

SIZE \ NOM	BSP (TPI)	NPT (TPI)	DK (MM)	D (MM)	I (MM)	L (MM)	LT (MM)	E (MM)	H (MM)
1½"	48.26	48.00	39.40	94.40	32.00	76.60	148.80	121.00	88.30
2"	60.33	60.00	49.50	116.00	35.40	88.00	175.40	150.00	97.00
2½"	73.03	75.00	59.00	131.60	45.50	140.85	195.40	162.00	110.00
3"	88.90	89.00	76.00	178.80	42.80	178.10	250.00	200.40	139.00

→ MATERIAL SPECS PVC BALL VALVES 1½", 2", 2½", 3"

#	PART NAME	MATERIAL	QTY.
1	RING	UPVC	1
2	SOCKET	UPVC	1
3	BUSH SMALL O-RING	HNBR	1
4	BUSH	UPVC	1
5	BUSH BIG O-RING	HNBR	1
6	SEAL WASHER*	HNBR	2
7	SEAL	TPE	2
8	BALL	UPVC	1
9	BODY	UPVC	1
10	SHAFT	UPVC	1
11	SHAFT O-RING**	HNBR	1
12	HANDLE	ABS	1
13	HANDLE LOGO	ABS	1

* 3" ball valve

** 2" Model

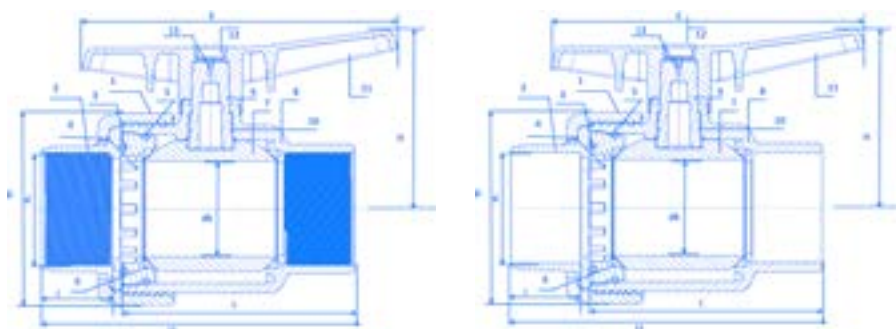
→ MATERIAL SPECS POLYPROPYLENE BALL VALVES 1½", 2", 2½", 3"

#	PART NAME	MATERIAL	QTY.
1	RING	PPGF	1
2	SOCKET	***UPVC /PPGF	1
3	BUSH SMALL O-RING	HNBR	1
4	BUSH	UPVC	1
5	BUSH BIG O-RING	HNBR	1
6	*SEAL WASHER	HNBR	2
7	SEAL	TPE	2
8	BALL	UPVC	1
9	BODY	PPGF	1
10	SHAFT	UPVC	1
11	SHAFT O-RING	HNBR	**2
12	HANDLE	PPGF	1
13	HANDLE LOGO	PPGF	1

* Only in 3" Ball valve, ** one in 2" Model

*** UPVC for solvent socket and PPGF for Threaded socket

→ TECHNICAL DIMENSIONS TRUE UNION BALL VALVES 4"



INLET CONNECTOR - THREADED MALE / OUTLET CONNECTOR - THREADED FEMALE

NOM SIZE	BSP (TPI)	NPT (TPI)	DK (MM)	D (MM)	I (MM)	L (MM)	LT (MM)	E (MM)	H (MM)
4"	11.00	8.00	98.30	197.00	60.00	200.00	268.00	270.10	186.00

INLET CONNECTOR - THREADED FEMALE / OUTLET CONNECTOR - THREADED FEMALE

NOM SIZE	BSP (TPI)	NPT (TPI)	DK (MM)	D (MM)	I (MM)	L (MM)	LT (MM)	E (MM)	H (MM)
4"	11.00	8.00	98.30	197.00	60.00	200.00	268.00	270.10	186.00

INLET CONNECTOR - SOCKET GLUED / OUTLET CONNECTOR - SOCKET GLUED

NOM SIZE	BSP (TPI)	NPT (TPI)	DK (MM)	D (MM)	I (MM)	L (MM)	LT (MM)	E (MM)	H (MM)
110MM	110.00	110.00	98.30	196.50	60.00	200.00	268.00	270.10	186.00

INLET CONNECTOR - SOCKET GLUED / OUTLET CONNECTOR - SOCKET GLUED

NOM SIZE	BSP (TPI)	NPT (TPI)	DK (MM)	D (MM)	I (MM)	L (MM)	LT (MM)	E (MM)	H (MM)
4"	114.30	114.00	98.30	196.50	60.00	200.00	268.00	270.10	186.00

→ MATERIAL SPECS PVC BALL VALVES 4"

#	PART NAME	MATERIAL	QTY.
1	RING	UPVC	1
2	SOCKET	UPVC	1
3	BUSH SMALL O-RING	HNBR	1
4	BUSH	UPVC	1
5	BUSH BIG O-RING	HNBR	1
6	SEAL	TPE	2
7	BALL	UPVC	1
8	BODY	UPVC	1
9	SHAFT	UPVC	1
10	SHAFT O-RING	HNBR	3
11	HANDLE	ABS	1
12	HANDLE LOGO	ABS	1

→ MATERIAL SPECS PLYPROPYLENE BALL VALVES 4"

#	PART NAME	MATERIAL	QTY.
1	RING	PPGF	1
2	SOCKET	***UPVC /PPGF	1
3	BUSH SMALL O-RING	NBR	1
4	BUSH	UPVC	1
5	BUSH BIG O-RING	NBR	1
6	SEAL	TPE	2
7	BALL	UPVC	1
8	BODY	PPGF	1
9	SHAFT	UPVC	1
10	SHAFT O-RING	NBR	3
11	HANDLE	PPGF	1
12	HANDLE LOGO	PPGF	1
13	HANDLE SCREW	SS	1

*** UPVC for solvent socket and PPGF for
Threaded socket

→ CATALOG NUMBERS TRUE UNION BALL VALVES

DESCRIPTION	CAT. NUMBER
NMV PVC BALL VLV 1 UNION ½" FFT BSP	77450-000216
NMV PVC BALL VLV 1 UNION ¾" FFT BSP	77450-000100
NMV PVC BALL VLV 1 UNION 1" FFT BSP	77450-000101
NMV PVC BALL VLV 1 UNION 1¼" FFT BSP	77450-000102
NMV PVC BALL VLV 1 UNION 1½" FFT BSP	77450-000103
NMV PVC BALL VLV 1 UNION 2" FFT BSP	77450-000104
NMV PVC BALL VLV 1 UNION 2½" FFT BSP	77450-000105
NMV PVC BALL VLV 1 UNION 3" FFT BSP	77450-000106
NMV PVC BALL VLV 1 UNION 4" FFT BSP	77450-000107
NMV PVC BALL VLV 1 UNION ½" FFT NPT	77450-000217
NMV PVC BALL VLV 1 UNION ¾" FFT NPT	77450-000208
NMV PVC BALL VLV 1 UNION 1" FFT NPT	77450-000209
NMV PVC BALL VLV 1 UNION 1¼" FFT NPT	77450-000210
NMV PVC BALL VLV 1 UNION 1½" FFT NPT	77450-000211
NMV PVC BALL VLV 1 UNION 2" FFT NPT	77450-000212
NMV PVC BALL VLV 1 UNION 2½" FFT NPT	77450-000213
NMV PVC BALL VLV 1 UNION 3" FFT NPT	77450-000214
NMV PVC BALL VLV 1 UNION 4" FFT NPT	77450-000215
NMV PVC BALL VLV 1 UNION ½" FMT BSP	77450-000218
NMV PVC BALL VLV 1 UNION ¾" FMT BSP	77450-000120
NMV PVC BALL VLV 1 UNION 1" FMT BSP	77450-000121
NMV PVC BALL VLV 1 UNION 1¼" FMT BSP	77450-000122
NMV PVC BALL VLV 1 UNION 1½" FMT BSP	77450-000123
NMV PVC BALL VLV 1 UNION 2" FMT BSP	77450-000124
NMV PVC BALL VLV 1 UNION 2½" FMT BSP	77450-000125
NMV PVC BALL VLV 1 UNION 3" FMT BSP	77450-000126
NMV PVC BALL VLV 1 UNION 4" FMT BSP	77450-000127
NMV PVC BALL VLV 1 UNION ½" FMT NPT	77450-000219
NMV PVC BALL VLV 1 UNION ¾" FMT NPT	77450-000149
NMV PVC BALL VLV 1 UNION 1" FMT NPT	77450-000150
NMV PVC BALL VLV 1 UNION 1¼" FMT NPT	77450-000152
NMV PVC BALL VLV 1 UNION 1½" FMT NPT	77450-000153
NMV PVC BALL VLV 1 UNION 2" FMT NPT	77450-000151
NMV PVC BALL VLV 1 UNION 2½" FMT NPT	77450-000154
NMV PVC BALL VLV 1 UNION 3" FMT NPT	77450-000155
NMV PVC BALL VLV 1 UNION 4" FMT NPT	77450-000156

DESCRIPTION	CAT. NUMBER
NMV PVC BALL VLV 1 UNION 20MM SG ISO/D	77450-000220
NMV PVC BALL VLV 1 UNION 25MM SG ISO/D	77450-000200
NMV PVC BALL VLV 1 UNION 32MM SG ISO/D	77450-000201
NMV PVC BALL VLV 1 UNION 40MM SG ISO/D	77450-000202
NMV PVC BALL VLV 1 UNION 50MM SG ISO/D	77450-000203
NMV PVC BALL VLV 1 UNION 63MM SG ISO/D	77450-000204
NMV PVC BALL VLV 1 UNION 75MM SG ISO/D	77450-000205
NMV PVC BALL VLV 1 UNION 90MM SG ISO/D	77450-000206
NMV PVC BALL VLV 1 UNION 110MM SG ISO/D	77450-000207
NMV PVC BALL VLV 1 UNION ½" SG BS	77450-000221
NMV PVC BALL VLV 1 UNION ¾" SG BS	77450-000360
NMV PVC BALL VLV 1 UNION 1" SG BS	77450-000361
NMV PVC BALL VLV 1 UNION 1¼" SG BS	77450-000362
NMV PVC BALL VLV 1 UNION 1½" SG BS	77450-000108
NMV PVC BALL VLV 1 UNION 2" SG BS	77450-000350
NMV PVC BALL VLV 1 UNION 2½" SG BS	77450-000109
NMV PVC BALL VLV 1 UNION 3" SG BS	77450-000110
NMV PVC BALL VLV 1 UNION 4" SG BS	77450-000367
NMV PVC BALL VLV 1 UNION ½" SG ASTM	77450-000380
NMV PVC BALL VLV 1 UNION ¾" SG ASTM	77450-000381
NMV PVC BALL VLV 1 UNION 1" SG ASTM	77450-000382
NMV PVC BALL VLV 1 UNION 1¼" SG ASTM	77450-000383
NMV PVC BALL VLV 1 UNION 1½" SG ASTM	77450-000384
NMV PVC BALL VLV 1 UNION 2" SG ASTM	77450-000385
NMV PVC BALL VLV 1 UNION 2½" SG ASTM	77450-000386
NMV PVC BALL VLV 1 UNION 3" SG ASTM	77450-000387
NMV PVC BALL VLV 1 UNION 4" SG ASTM	77450-000388

→ CATALOG NUMBERS POLYPROPYLENE TRUE UNION BALL VALVES

DESCRIPTION	CAT. NUMBER
NMV PP BALL VLV 1 UNION ¾" FFT BSP	77449-000101
NMV PP BALL VLV 1 UNION 1" FFT BSP	77449-000102
NMV PP BALL VLV 1 UNION 1¼" FFT BSP	77449-000103
NMV PP BALL VLV 1 UNION 1½" FFT BSP	77449-000104
NMV PP BALL VLV 1 UNION 2" FFT BSP	77449-000105
NMV PP BALL VLV 1 UNION 2½" FFT BSP	77449-000106
NMV PP BALL VLV 1 UNION 3" FFT BSP	77449-000107
NMV PP BALL VLV 1 UNION 4" FFT BSP	77449-000108
NMV PP BALL VLV 1 UNION ¾" FFT NPT	77449-000131
NMV PP BALL VLV 1 UNION 1" FFT NPT	77449-000132
NMV PP BALL VLV 1 UNION 1¼" FFT NPT	77449-000133
NMV PP BALL VLV 1 UNION 1½" FFT NPT	77449-000134
NMV PP BALL VLV 1 UNION 2" FFT NPT	77449-000135
NMV PP BALL VLV 1 UNION 2½" FFT NPT	77449-000136
NMV PP BALL VLV 1 UNION 3" FFT NPT	77449-000137
NMV PP BALL VLV 1 UNION 4" FFT NPT	77449-000138
NMV PP BALL VLV 1 UNION ¾" FMT BSP	77449-000151
NMV PP BALL VLV 1 UNION 1" FMT BSP	77449-000152
NMV PP BALL VLV 1 UNION 1¼" FMT BSP	77449-000153
NMV PP BALL VLV 1 UNION 1½" FMT BSP	77449-000154
NMV PP BALL VLV 1 UNION 2" FMT BSP	77449-000155
NMV PP BALL VLV 1 UNION 2½" FMT BSP	77449-000156
NMV PP BALL VLV 1 UNION 3" FMT BSP	77449-000157
NMV PP BALL VLV 1 UNION 4" FMT BSP	77449-000158
NMV PP BALL VLV 1 UNION ¾" FMT NPT	77449-000171
NMV PP BALL VLV 1 UNION 1" FMT NPT	77449-000172
NMV PP BALL VLV 1 UNION 1¼" FMT NPT	77449-000173
NMV PP BALL VLV 1 UNION 1½" FMT NPT	77449-000174
NMV PP BALL VLV 1 UNION 2" FMT NPT	77449-000175
NMV PP BALL VLV 1 UNION 2½" FMT NPT	77449-000176
NMV PP BALL VLV 1 UNION 3" FMT NPT	77449-000177
NMV PP BALL VLV 1 UNION 4" FMT NPT	77449-000178

DESCRIPTION	CAT. NUMBER
NMV PP BALL VLV 1 UNION 25MM SG ISO/D	77449-000201
NMV PP BALL VLV 1 UNION 32MM SG ISO/D	77449-000202
NMV PP BALL VLV 1 UNION 40MM SG ISO/D	77449-000203
NMV PP BALL VLV 1 UNION 50MM SG ISO/D	77449-000204
NMV PP BALL VLV 1 UNION 63MM SG ISO/D	77449-000205
NMV PP BALL VLV 1 UNION 75MM SG ISO/D	77449-000206
NMV PP BALL VLV 1 UNION 90MM SG ISO/D	77449-000207
NMV PP BALL VLV 1 UNION 110MM SG ISO/D	77449-000208
NMV PP BALL VLV 1 UNION ¾" SG ASTM	77449-000221
NMV PP BALL VLV 1 UNION 1" SG ASTM	77449-000222
NMV PP BALL VLV 1 UNION 1¼" SG ASTM	77449-000223
NMV PP BALL VLV 1 UNION 1½" SG ASTM	77449-000224
NMV PP BALL VLV 1 UNION 2" SG ASTM	77449-000225
NMV PP BALL VLV 1 UNION 2½" SG ASTM	77449-000226
NMV PP BALL VLV 1 UNION 3" SG ASTM	77449-000227
NMV PP BALL VLV 1 UNION 4" SG ASTM	77449-000228
NMV PP BALL VLV 1 UNION ¾" SG BS	77449-000241
NMV PP BALL VLV 1 UNION 1" SG BS	77449-000242
NMV PP BALL VLV 1 UNION 1¼" SG BS	77449-000243
NMV PP BALL VLV 1 UNION 1½" SG BS	77449-000244
NMV PP BALL VLV 1 UNION 2" SG BS	77449-000245
NMV PP BALL VLV 1 UNION 2½" SG BS	77449-000246
NMV PP BALL VLV 1 UNION 3" SG BS	77449-000247
NMV PP BALL VLV 1 UNION 4" SG BS	77449-000248

Dual Union Ball Valves

Physical shut off, manual restrictions, control or service needs in irrigation head controls, field plots, nurseries, greenhouses, Nutrigation™ systems, water conveyance systems.



High Quality



Ultimate Durability



Durable & Reliable

Benefits & Features

→ Saves operation costs

A quarter turn shut off valve, threaded or glued socket, user friendly design allowing smooth handle operation

Corrosion resistant and UV stabilized

The dual true union ball valve, specifically designed for water applications, for safe pipe line operation

→ Saves labor costs and multiple investments in maintenance

In the closed position, the pipeline can be disconnected downstream from the valve without any leakage

The valve is removable from the pipeline, allowing quick maintenance

Highly reliable operation and durable over time

Specifications & Recommendations

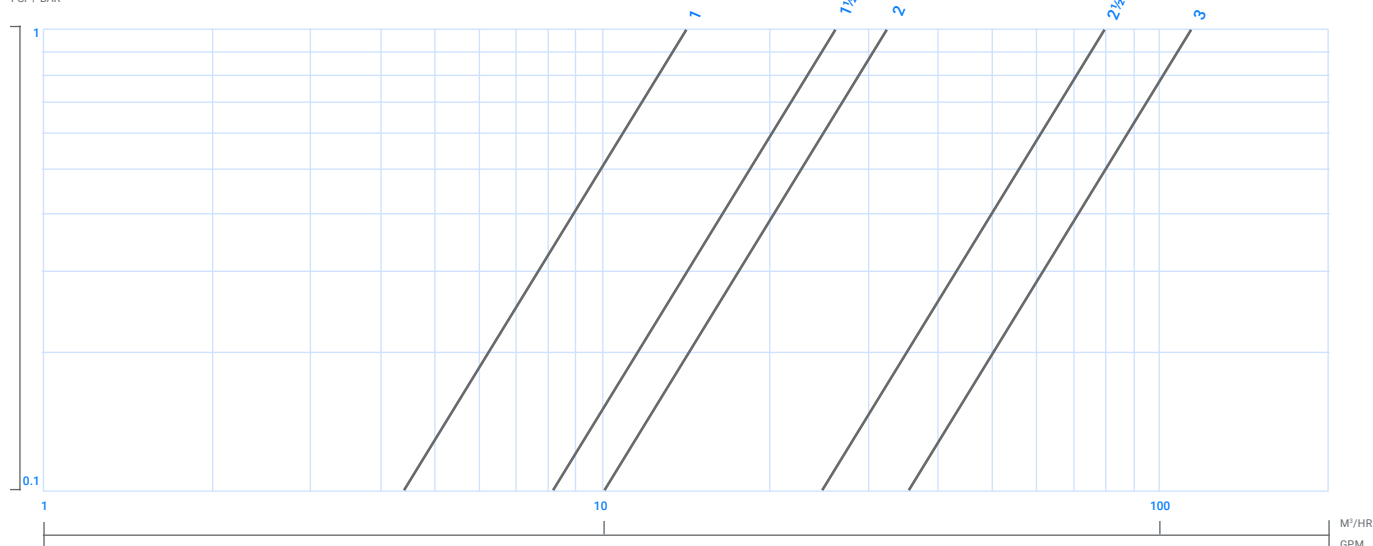
- Ideal for application in temperature range of -5°C and 50°C, guaranteeing optimal performance in terms of mechanical resistance, good rigidity, low coefficients of thermal expansion and optimal safety factors in service
- Operational up to 10 bar
- Low head losses
- Wide range of connections:
Threaded (BSP or NPT standards) or SG, socket glued (ISO/DIN, ASTM, BS)

→ PACKAGING DATA

MODEL	QUANTITY P/BOX UNIT	BOX SIZES (CM X CM X CM)	FEMALE-FEMALE THD CONN. BOX WEIGHT (KG)	SOCKET GLUED CONN. BOX WEIGHT (KG)	BOXES P/PALLET
1" - 32 MM	75	43.0 X 33.0 X 39.0	21.98	21.49	12
1½" - 50 MM	16	43.0 X 33.0 X 39.0	13.30	12.83	
2" - 63 MM	8	43.0 X 33.0 X 39.0	10.93	10.62	
2½" - 75 MM	8	43.0 X 33.0 X 44.5	14.84	14.60	
3" - 90 MM	4	43.0 X 33.0 X 39.0	15.69	15.55	

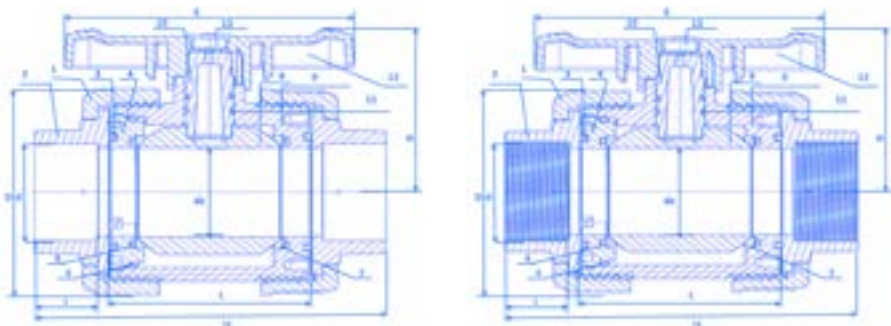
→ HEAD LOSS

PSI | BAR



→ TECHNICAL DIMENSIONS

DUAL UNION BALL VALVES 1", 1½", 2", 2½", 3"



→ MATERIAL SPECS

DUAL UNION BALL VALVES 1", 1½", 2", 2½", 3"

#	PART NAME	MATERIAL	QTY.
1	RING	UPVC	2
2	SOCKET	UPVC	2
3	BUSH SMALL O-RING	HNBR	2
4	BUSH	UPVC	1
5	BUSH BIG O-RING	HNBR	1
6	SEAL WASHER*	HNBR	2
7	SEAL	TPE	2
8	BALL	UPVC	1
9	BODY	UPVC	1
10	SHAFT	UPVC	1
11	SHAFT O-RING	HNBR	2**
12	HANDLE	ABS	1
13	HANDLE LOGO	ABS	1

* Only in 3" valve

** One in 2" valve

INLET CONNECTOR - FEMALE THREADED / OUTLET CONNECTOR - FEMALE THREADED

SIZE \ NOM	BSP (TPI)	NPT (TPI)	DK (MM)	D (MM)	I (MM)	L (MM)	LT (MM)	E (MM)	H (MM)
1"	11.00	11.50	24.50	69.00	20.20	55.50	112.60	71.00	66.50
1½"	11.00	11.50	39.50	94.40	32.00	73.25	149.60	121.00	88.30
2"	11.00	11.50	49.50	116.00	35.40	84.20	177.40	150.00	97.00
2½"	11.00	8.00	59.00	131.60	45.50	100.00	212.10	162.00	107.50
3"	11.00	8.00	76.00	178.80	42.80	138.10	241.10	200.40	140.00

INLET CONNECTOR - SOCKET GLUED / OUTLET CONNECTOR - SOCKET GLUED

SIZE \ NOM	BSP (TPI)	NPT (TPI)	DK (MM)	D (MM)	I (MM)	L (MM)	LT (MM)	E (MM)	H (MM)
32MM	32.00	32.00	24.50	69.00	20.20	55.50	110.00	71.00	66.50
50MM	50.00	50.00	39.50	94.40	32.00	73.25	149.60	121.00	88.30
63MM	63.00	63.00	49.50	116.00	35.40	84.20	177.40	150.00	97.00
75MM	75.00	75.00	59.00	131.60	45.50	100.00	212.10	162.00	107.50
90MM	90.00	90.00	76.00	178.80	42.80	138.10	241.10	200.40	140.00

INLET CONNECTOR - SOCKET GLUED / OUTLET CONNECTOR - SOCKET GLUED

SIZE \ NOM	BSP (TPI)	NPT (TPI)	DK (MM)	D (MM)	I (MM)	L (MM)	LT (MM)	E (MM)	H (MM)
1"	33.40	34.00	24.50	69.00	20.20	55.50	110.00	71.00	66.50
1½"	48.26	48.00	39.50	94.40	32.00	73.25	149.60	121.00	88.30
2"	60.33	60.00	49.50	116.00	35.40	84.20	177.40	150.00	97.00
2½"	73.03	75.00	59.00	131.60	45.50	100.00	212.10	162.00	107.50
3"	88.90	89.00	76.00	178.80	42.80	138.10	241.10	200.40	140.00

→ CATALOG NUMBERS

DESCRIPTION	CATALOG NUMBER
NMV PVC BALL VLV 2 UNION 1" FFT BSP	77451-000150
NMV PVC BALL VLV 2 UNION 1½" FFT BSP	77451-000152
NMV PVC BALL VLV 2 UNION 2" FFT BSP	77451-000153
NMV PVC BALL VLV 2 UNION 2½" FFT BSP	77451-000154
NMV PVC BALL VLV 2 UNION 3" FFT BSP	77451-000155
NMV PVC BALL VLV 2 UNION 32MM SG ISO/D	77451-000200
NMV PVC BALL VLV 2 UNION 50MM SG ISO/D	77451-000202
NMV PVC BALL VLV 2 UNION 63MM SG ISO/D	77451-000203
NMV PVC BALL VLV 2 UNION 75MM SG ISO/D	77451-000204
NMV PVC BALL VLV 2 UNION 90MM SG ISO/D	77451-000205
NMV PVC BALL VLV 2 UNION 1" FFT NPT	77451-000220
NMV PVC BALL VLV 2 UNION 1½" FFT NPT	77451-000221
NMV PVC BALL VLV 2 UNION 2" FFT NPT	77451-000222
NMV PVC BALL VLV 2 UNION 2½" FFT NPT	77451-000223
NMV PVC BALL VLV 2 UNION 3" FFT NPT	77451-000224
MV PVC BALL VLV 2 UNION 1" SG ASTM	77451-000250
NMV PVC BALL VLV 2 UNION 1½" SG ASTM	77451-000251
NMV PVC BALL VLV 2 UNION 2" SG ASTM	77451-000252
NMV PVC BALL VLV 2 UNION 2½" SG ASTM	77451-000253
NMV PVC BALL VLV 2 UNION 3" SG ASTM	77451-000254

Angle Seat "Y" Valves

ACTUATED PISTON VALVES

The piston actuator provides a linear motion to lift the seal off its seat.



High
Quality



Ultimate
Durability



Durable
& Reliable

Benefits & Features

- ✓ The flow is minimally impeded in the open position, resulting in an excellent flow rate and a low-pressure loss
- ✓ Sturdy and solid design
- ✓ Multi turn liner motion throttling valve
- ✓ Engineering plastic raw material used for strength and durability
- ✓ Easy to open and clean when used in underground valve box
- ✓ Smooth movement using throttling wheel, makes the user operate the valve easily
- ✓ No leakage within operating pressure range, when valve completely shut off
- ✓ Direction of flow mentioned
- ✓ Can be installed in horizontal and vertical lines
- ✓ Does not cause water hammering when operated
- ✓ Has lesser turbulence during throttling
- ✓ Chemical / Corrosion Resistant & UV protected

Specifications & Recommendations

- Operating pressure range up to 10 bars (PN10)
- High strength polypropylene
- 2" BSP or NPT male threaded
- Manual, hand operated
- Recommended flow up to 50 m³/h
- High quality nitrile seal

→ TECHNICAL DIMENSIONS

INLET - THREADED MALE / OUTLET CONNECTOR - THREADED MALE

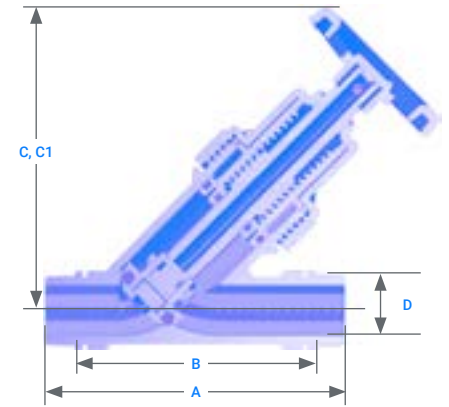
SIZE	NOM	BSP (TPI)	NPT (TPI)	A (MM)	B (MM)	C* (MM)	C1** (MM)
2"		11.00	11.50	252.0	200.0	254.0	292.0

* When valve is fully closed

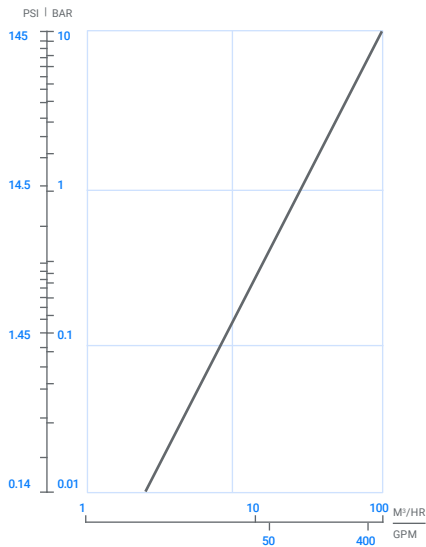
** When valve is fully opened

→ PACKAGING DATA

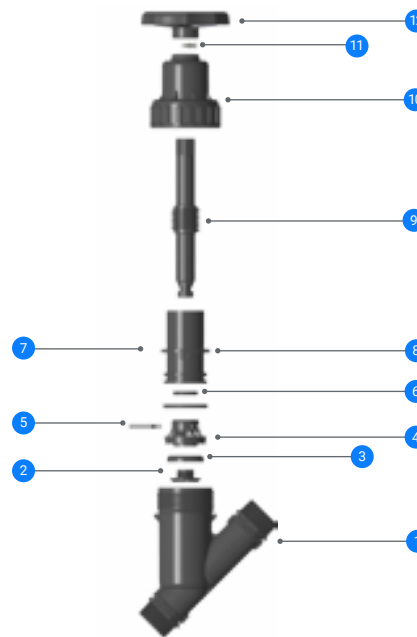
MODEL	QTY. P/BOX UNIT	BOX SIZES (CM X CM X CM)	BOX WEIGHT (KG)	BOXES P/PALLET
2"	2	39.5 X 36.5 X 14.5	2.8	63



→ HEAD LOSS



→ MATERIAL SPECIFICATIONS



STANDARD VERSION

#	PART NAME	MATERIAL	QTY.
1	BODY	PP	1
2	SEAL CUP LOCK	PP	1
3	SEAL	NBR	1
4	SEAL CUP	PP	1
5	LOCK CLIP	PP	1
6	STEM HOUSING O-RING (OUTER)	NBR	1
7	STEM HOUSING O-RING (INNER)	NBR	1
8	STEM HOUSING	PP	1
9	SHAFT	PP	1
10	CAP	PP	1
11	LOCK PIN	PP	1
12	THROTTLE WHEEL (PURPLE COLOR)	PP	1

"VITON" VERSION

#	PART NAME	MATERIAL	QTY.
1	BODY	PP	1
2	SEAL CUP LOCK	PP	1
3	SEAL	VITON	1
4	SEAL CUP	PP	1
5	LOCK CLIP	PP	1
6	STEM HOUSING O-RING (OUTER)	VITON	1
7	STEM HOUSING O-RING (INNER)	VITON	1
8	STEM HOUSING	PP	1
9	SHAFT	PP	1
10	CAP	PP	1
11	LOCK PIN	PP	1
12	THROTTLE WHEEL (PURPLE COLOR)	PP	1

PP = Polypropylene

→ CATALOG NUMBERS

PRODUCT ILLUSTRATION	PRODUCT DESCRIPTION	CATALOG NUMBER
	NMV PP ANGLE SEAT "Y" 2" BSP	77457-000100
	NMV PP ANGLE SEAT "Y" 2" NPT	77457-000101
	NMV PP ANGLE SEAT "Y" 2" BSP VITON	77457-000102
	NMV PP ANGLE SEAT "Y" 2" NPT VITON	77457-000103

Butterfly Valves

Physical shut off, manual restrictions, control or service needs in irrigation head controls, field plots, nurseries, greenhouses, water conveyance systems.



Resistant



Ultimate
Durability



Easy
Installation

Benefits & Features

→ Saves operation costs

A quarter turn shut off valve, user friendly design allowing smooth handle operation

Corrosion resistant and UV stabilized

Light weight and very easy to install between two flanges, at any position, saves labor costs and multiple investments in maintenance

Highly reliable operation and durable over time

Specifications & Recommendations

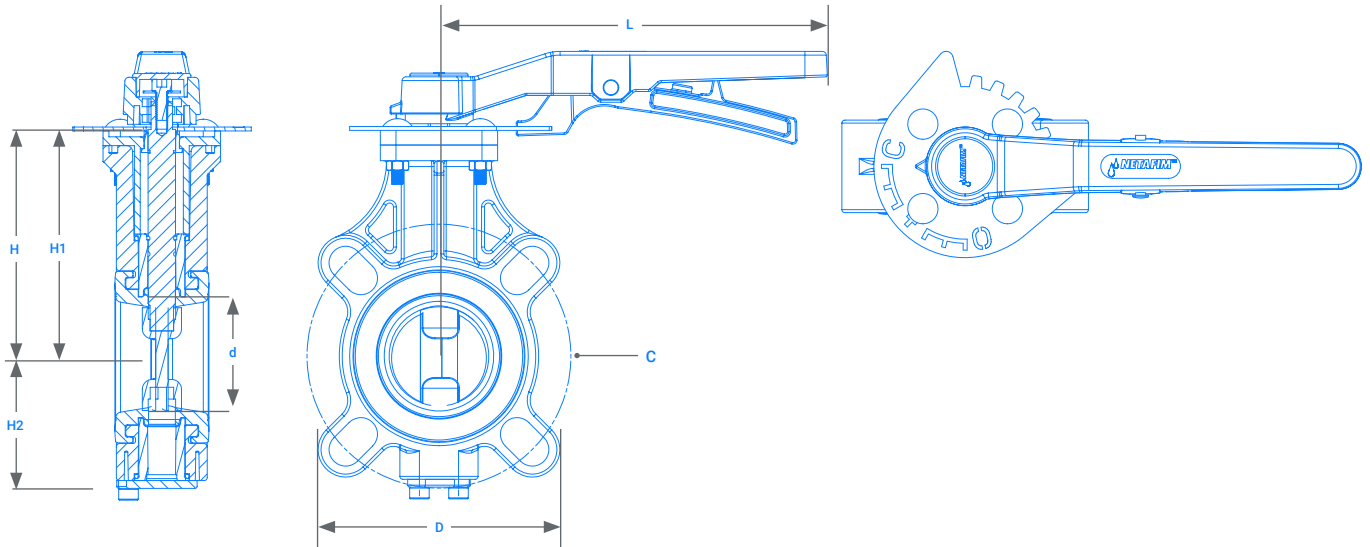
- For shutting off or manual regulating flow. Specifically designed for water and irrigation systems applications
- Ergonomic multifunctional handle enabling quick operation, with 15 degrees' adjustment graduations
- Drilling pattern with oval slots allowing coupling to flanges and complying with numerous international standards
- Can also be installed as an end line valve, bottom discharge valve or tank dump valve
- Operational up to 10 bar

- Low torque required to activate the valve under pressure, due to low-friction stem bushing
- PVC resins feature high value material strength and extremely long lifetime
- Low head losses
- One-piece body made of PVC-U
- Disc designed ensuring low torque and low head loss
- Suitable for piping in a limited space: 46 mm (models 2", 2½", 3") and 56 mm (model 4")

→ PACKAGING DATA

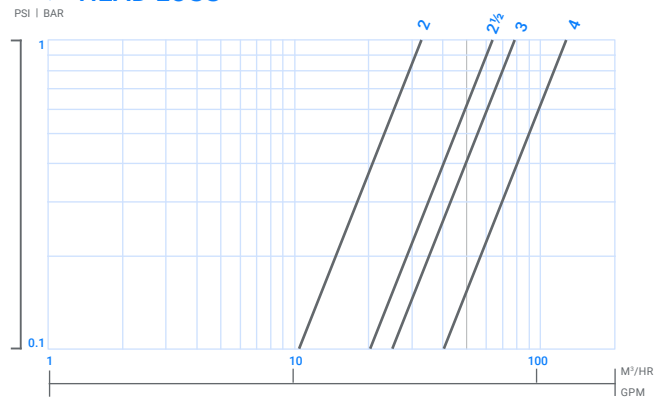
MODEL	QUANTITY P/BOX UNIT	BOX SIZES (CM X CM X CM)	BOX WEIGHT (KG)	BOXES P/PALLET
2"	2	39.5 X 28.5 X 13.0	2.98	48
2½"			3.40	
3"			3.73	
4"		40.0 X 37.5 X 13.5	5.79	30

→ TECHNICAL DIMENSIONS



MODE PART	2"	2½"	3"	4"
d	50	65	80	100
D	117	112	128	162
H1	130	134	144	152
H2	71	88	91	106
H	165	174	182	197
L	198.5	198.5	198.5	279.0
C(POD)	120.8	137.5	155.5	183.0

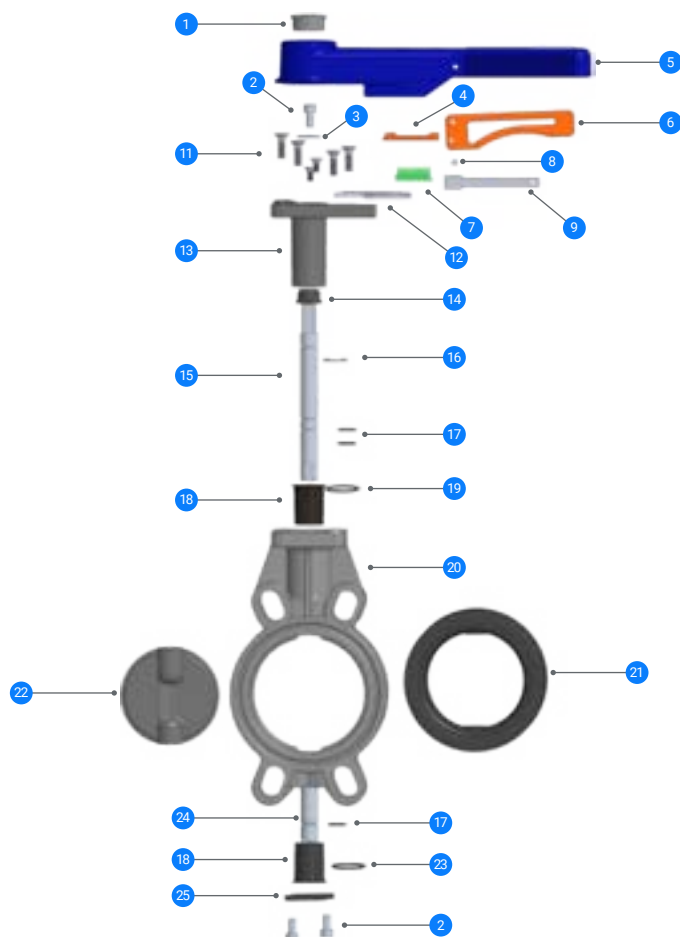
→ HEAD LOSS



→ CATALOG NUMBERS

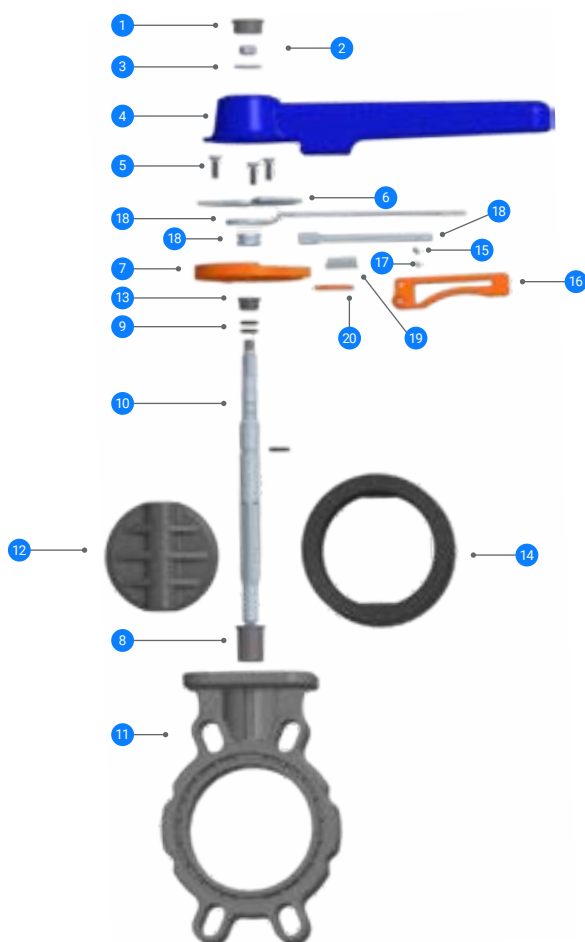
PRODUCT ILLUSTRATION	PRODUCT DESCRIPTION	CAT. NUMBER
	NMV PVC B.FLY VLV 2" 4 S BTW FLNG	77452-000100
	NMV PVC B.FLY VLV 2½" 4 S BTW FLNG	77452-000101
	NMV PVC B.FLY VLV 3" 4 S BTW FLNG	77452-000102
	NMV PVC B.FLY VLV 4" 4/8 S BTW FLNG	77452-000103

→ MATERIAL SPECIFICATION PVC BUTTERFLY VALVES 2", 2½", 3"



#	PART NAME	MATERIAL
1	LOGO CAP	ABS
2	ALLEN SCREW	SS304
3	HANDLE WASHER	SS304
4	HANDLE DOWEL	SS304/316
5	HANDLE	PPGF
6	LEVER	ABS
7	SPRING	SS304/316
8	LEVER PIN	SS304/316
9	LEVER PATTI	SS304/316
10	SPRING COVER	PPGF
11	CSK SCREW	SS304/316
12	CUTCH PLATE	SS304/316
13	SLEEVE	PVC
14	LOCKING BUSH	MOS2
15	BIG SHAFT	SS304/316
16	E-RING	SS304/316
17	SHAFT ORING	NBR
18	BIG BUSH	MOS2
19	BUSH ORING	NBR
20	BODY	PVC
21	SEAL	EPDM
22	DISC	SS304/316
23	BUSH ORING	NBR
24	SMALL SHAFT	SS304
25	BASE PLATE	POM

→ MATERIAL SPECIFICATION PVC BUTTERFLY VALVES 4"



#	PART NAME	MATERIAL
1	LOGO CAP	ABS
2	HEX BOLT	SS304
3	HANDLE WASHER	SS304
4	HANDLE	ABS
5	CSK BOLT	SS304/316
6	CLUTCH PLATE	SS304/316
7	HANDLE GUIDER	ABS
8	BIG BUSH	MOS2
9	SHAFT O-RING	NBR
10	SHAFT	SS304/316
11	BODY	PVC
12	DISC	PVC
13	LOCKING BUSH	MOS2
14	RUBBER SEAL	EPDM
15	HANDLE DOWEL	SS304/316
16	LEVER	ABS
17	LEVER DOWEL	SS304/316
18	LEVER PATTI	SS304/316
19	SPRING	SS304/316
20	SPRING LOCK PLATE	ABS

Throttle Valves

Manual restrictions in irrigation head controls, field plots, Nutrigation™ systems, filtration heads systems.



Accurate



Resistant



Ultimate
Durability

/ Benefits & Features

- Saves operation costs
User friendly design allows smooth handle operation
- Saves labor costs and multiple investments in maintenance
Highly reliable operation and durable over time
Chemical/corrosion resistant, UV stabilized

/ Specifications & Recommendations

- Multi turn, vertical motion
- Straight through flow with minimal head loss
- Visual float position indicator to show % throttle of piping system
- Slow operation pavement water hammer
- Maintaining seat leakage permissible limit as per Standard ANSI/FCI-70-2-2006 in class III (0.10%)
- Operational up to 6 bar
- Threaded connections (BSP or NPT standards)

→ PACKAGING DATA

MODEL	QUANTITY P/BOX UNIT	BOX SIZES (CM X CM X CM)	BOX WEIGHT (KG)	BOXES P/PALLET
2"	5	69.0 X 19.5 X 30.0	6.85	15
2½"		78.5 X 23.0 X 41.5	14.67	8
3"			13.82	

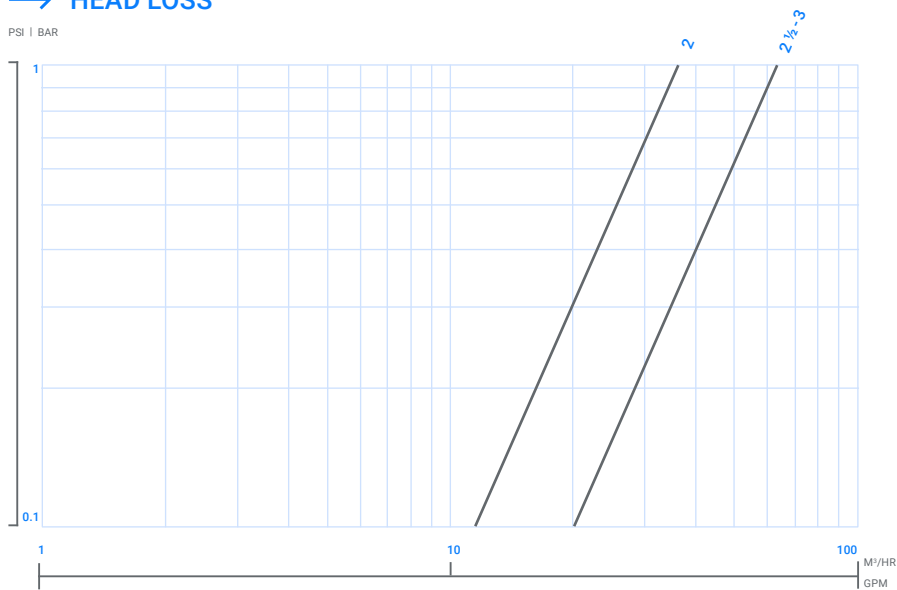
→ TECHNICAL DIMENSIONS

INLET CONNECTOR - FEMALE THREADED / OUTLET CONNECTOR - FEMALE THREADED

NOM SIZE	BSP (TPI)	NPT (TPI)	D (MM)	DK (MM)	E (MM)	L (MM)	H (MM)
2"	11.00	11.50	65.00	48.00	117.00	130.00	275.00
2½"	11.00	8.00	74.00	63.00	117.00	182.00	390.00
3"	11.00	8.00	93.00	74.00	117.00	182.00	390.00

→ HEAD LOSS

PSI | BAR



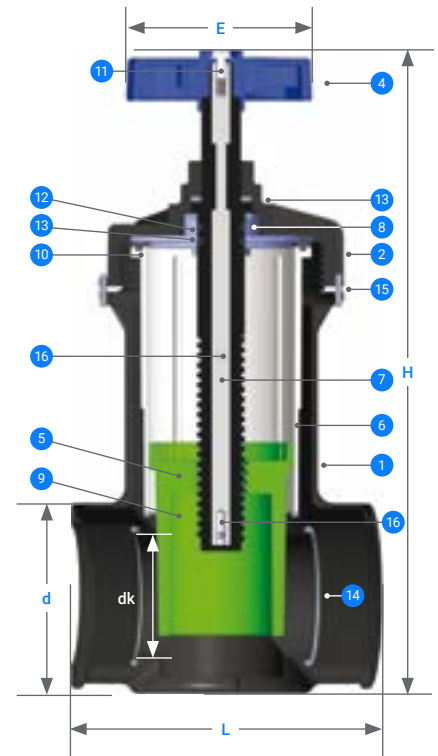
* When valve is fully closed

→ CATALOG NUMBERS

PRODUCT ILLUSTRATION	PRODUCT DESCRIPTION	CATALOG NUMBER
	NMV PP THROTTLE VLV 2" FFT BSP	77453-000200
	NMV PP THROTTLE VLV 2½" FFT BSP	77453-000201
	NMV PP THROTTLE VLV 3" FFT BSP	77453-000202

* Can be also ordered in NPT standard if required

→ MATERIAL SPECIFICATION



#	PART NAME	MATERIAL	QTY.
1	BODY	REINFORCED PP	1
2	FLANGE	REINFORCED PA	1
3	DISC	REINFORCED PA	1
4	HANDLE	REINFORCED PA	1
5	CYLINDER	REINFORCED PP	1
6	PC HOUSING	PP	1
7	SHAFT	REINFORCED PA+MS	1
8	SHAFT O-RING	HNBR	2
9	BOTTOM GASKET	HNBR	1
10	SLEEVE GASKET	HNBR	1
11	HANDLE SCREW	SS-304	1
12	TEFFLON SEAL BIG	TEFLON	1
13	TEFFLON SEAL SMALL	TEFLON	1
14	HOUSING GASKET	HNBR	2
15	LOCKING PIN	SS-304	2
16	DOWEL PIN (4*30) SS	SS-304	2

Swing Check Valves

In-line non return valve to stop fluids flowing back through the system.



Reliable



Resistant



Ultimate
Durability

/ Benefits & Features

→ Saves operation costs

The check valve is designed for free flow of water without interference and with minimal head loss

Made from PVC-U corrosive-resistant composite materials

→ Saves labor costs and multiple investments in maintenance

The valve is made from composite materials to withstand highly abrasive conditions and to ensure long-term service also in corrosive liquid environments

The valve connects between flanges and is supplied with seals for flange to flange installation

Light weight

/ Specifications & Recommendations

- Straight through flow with minimal head loss
- Slow operation pavement water hammer
- Operational up to 6 bar
- Minimum return pressure: 0.2 bar (to keep the valve closed)

→ PACKAGING DATA

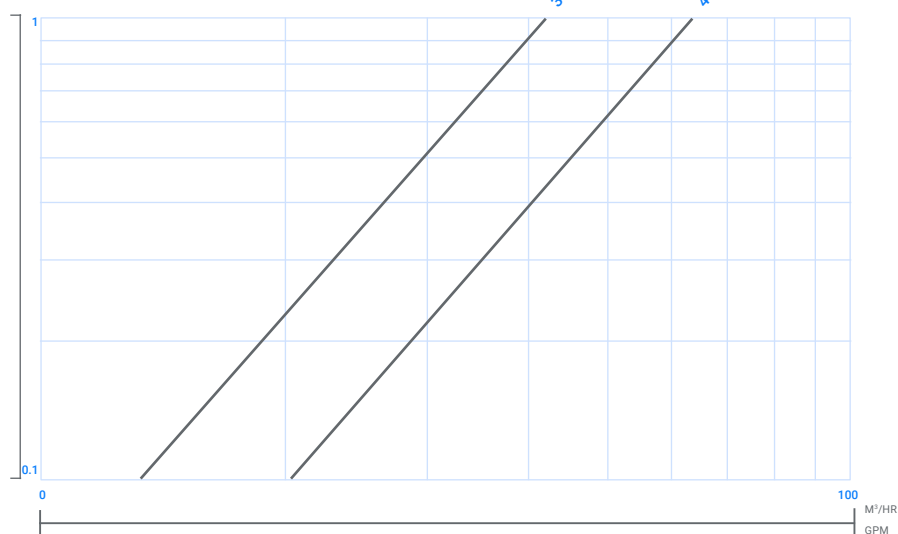
MODEL	QUANTITY P/BOX UNIT	BOX SIZES (CM X CM X CM)	BOX WEIGHT (KG)	BOXES P/PALLET
3"	40	30.0 X 30.0 X 31.5	17.2	27
4"	20	34.0 X 34.0 X 18.0	11.5	458

→ TECHNICAL DIMENSIONS

NOM SIZE	A (MM)	B (MM)	C (MM)	D (MM)
3"	54.3	129.0	21.0	68.0
4"	64.0	159.0	25.0	78.0

→ HEAD LOSS

PSI | BAR

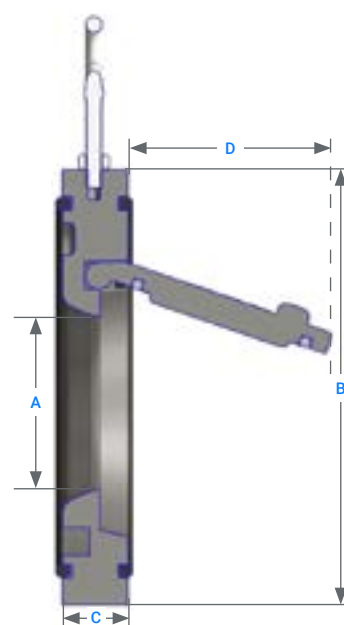


→ CATALOG NUMBERS

PRODUCT ILLUSTRATION	PRODUCT DESCRIPTION	CATALOG NUMBER
	NMV PVC S.CHECK VLV 3" BTW 2 FLNG	77454-000200
	NMV PVC S.CHECK VLV 4" BTW 2 FLNG	77454-000201

→ MATERIAL SPECIFICATION

#	PART NAME	MATERIAL	QTY.
1	BODY	PVC-U	1
2	FLAP	PVC-U	1
3	CAP	PVC-U	2
4	BODY O-RING	EPDM	2
5	FLAP O-RING	EPDM	1
6	H.SCREW	PLATED MS	1



Ball Check Valves

In-line non return valve to stop fluids flowing back through the system. As a foot valve at a pump inlet.



Reliable



Resistant



Ultimate
Durability

/ Benefits & Features

→ Saves operation costs

The check valve is designed for free flow of water with minimal head loss

Made from PP corrosive-resistant composite materials

→ Saves labor costs and multiple investments in maintenance

The valve is made from composite materials to withstand highly abrasive conditions and to ensure long-term service also in corrosive liquid environments

Light weight

/ Specifications & Recommendations

- Spring loaded ball check valve
- Flow with minimal head loss
- Slow operation prevent water hammer
- Operational up to 6 bar
- Minimum return pressure: 0.1 bar (to keep the valve closed)
- Horizontal or vertical installation
- Universal flanges, fits ISO, ANSI, BS10 standards

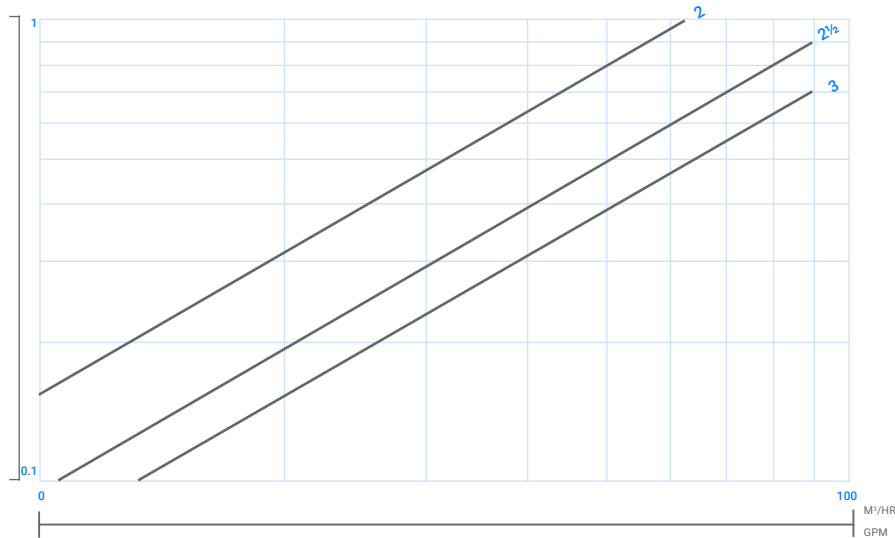
→ PACKAGING DATA

MODEL	QUANTITY P/BOX UNIT	BOX SIZES (CM X CM X CM)	BOX WEIGHT (KG)	BOXES P/PALLET
2"	8	62.0 X 31.5 X 18.0	8.9	15
2½"	4	43.6 X 43.6 X 26.0	8.2	16
3"			9.1	

→ TECHNICAL DIMENSIONS

NOM SIZE	NOMINAL DIAMETER (MM)	A (MM)	B (MM)	C (MM)	D (MM)
2"	50	150	164	50	18.5
2½"	65	188	235	65	20.5
3"	80	205	237	82	24.0

→ HEAD LOSS

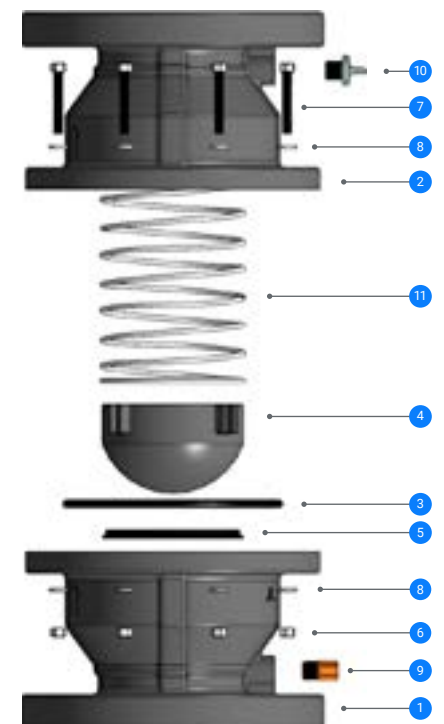
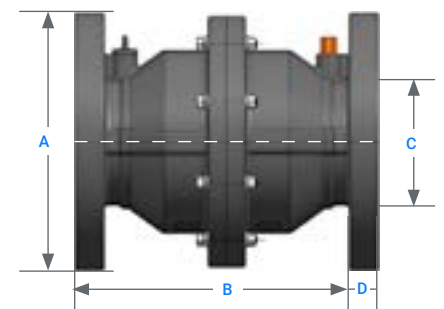


→ CATALOG NUMBERS

PRODUCT ILLUSTRATION	PRODUCT DESCRIPTION	CATALOG NUMBER
	NMV PP BALL CHECK VALVE 2"	77454-000200
	NMV PP BALL CHECK VALVE 2½"	77454-000221
	NMV PP BALL CHECK VALVE 3"	77454-000222

→ MATERIAL SPECIFICATION

#	PART NAME	MATERIAL	QTY.
1	BODY (INLET)	PPGF	1
2	BODY (OUTLET)	PPGF	1
3	BODY O-RING	NBR	1
4	BALL	ABS	1
5	BALL SEAL	NBR	1
6	NUT	SS	8
7	BOLT	SS	8
8	WASHER	SS	16
9	VACCUM BREAKER	BRASS	1
10	PLUG	PPGF	1
11	SPRING	SS	1



NR10 Check Valves

Prevents the return flow of water to its source and provides quiet closure and total sealing of the sealing face.



Tight
Closing



Extremely
Durable



Light
& Resistant

Benefits & Features

- ✓ Working pressures: Up to 10 bar, 16 bar
- ✓ Minimum working pressure: 0.2 bar.
- ✓ Maximum working temperature: 60°C.
- ✓ The body of the valve is made from composite materials.

NR-010 1½", 2"

- ✓ Female threaded BSPT or NPT for easy and secure connection to the pipeline.
- ✓ Removable cover allows for easy cleaning, maintenance and seal replacement without removing the valve from the pipeline.

NR-010 3" – 10"

- ✓ The valve connects between flanges.
- ✓ The valve is supplied together with seals for flanges.
- ✓ The spring assembly mechanism is outside of the flow cross-section and can be replaced without removing the valve from the line.

Applications

- After pumps/boosters
- Filtration systems
- Swimming pools (additional modifications are required for this application)
- Fertilizer system
- Greenhouses



NR-010 1½", 2"



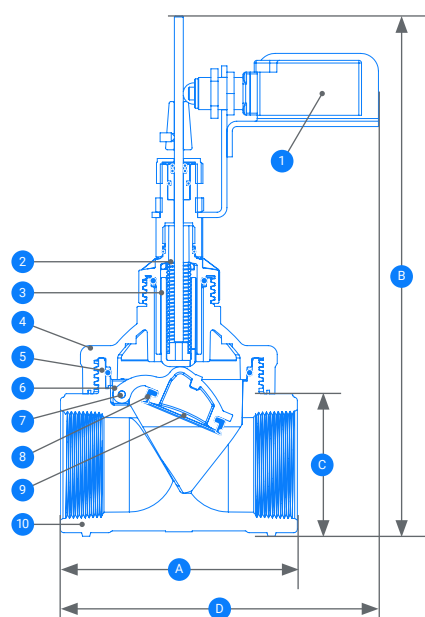
NR-010 3", 4"



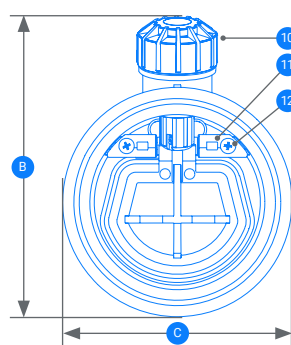
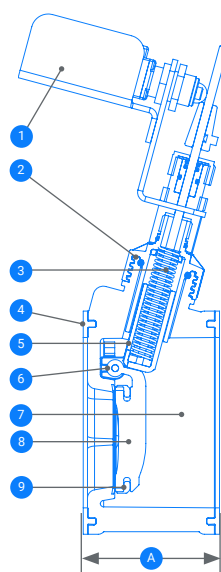
NR-010 6" - 10"

→ TECHNICAL DIMENSIONS & WEIGHTS

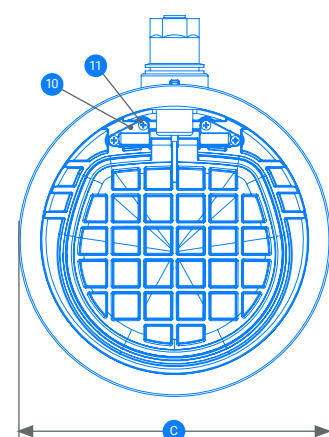
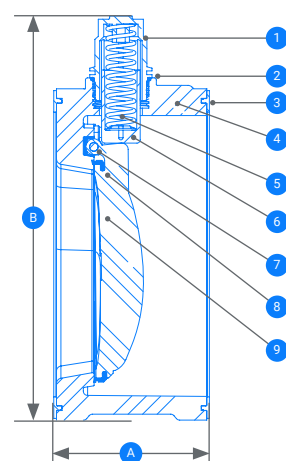
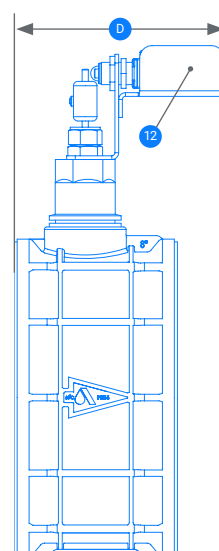
NR-010 1½", 2"



NR-010 3", 4"



NR-010 6" - 10"



NOMINAL SIZE	A	B	C	D	WEIGHT (GR)
NR10 1½"	133	149	65	180	605
NR10 LS 1½"	133	285	65	180	1050
NR10 2"	133	157	80	180	620
NR10 LS 2"	133	291	80	180	1070
NR10 3"	80	172	131	-	571
NR10 LS 3"	80	305	131	-	1070
NR10 4"	91	191	151	-	732
NR10 LS 4"	91	324	151	-	1250
NR10 6"	112	291	220	112	2600
NR10 LS 6"	112	380	220	162	3100
NR10 8"	132	323	259	132	3700
NR10 LS 8"	132	413	259	170	3800
NR10 10"	145	376	310	145	5200
NR10 LS 10"	145	465	310	145	5700

For determining the height of a check valve with a limit switch, add an additional space of 2 - 3 cm.

→ PARTS LIST

NR-010 1½", 2"

#	PART NAME	MATERIAL
1	LIMIT SWITCH ASSY.	
2	SPRING	STAINLESS STEEL 302
3	SPRING HOUSING	ACETAL
4	COVER	REINFORCED NYLON
5	O-RING	BUNA-N
6	SHAFT HOUSING	ACETAL
7	SHAFT	STAINLESS STEEL 316
8	SEAL	EPDM
9	DISC	REINFORCED NYLON
10	BODY	REINFORCED NYLON

NR-010 3", 4"

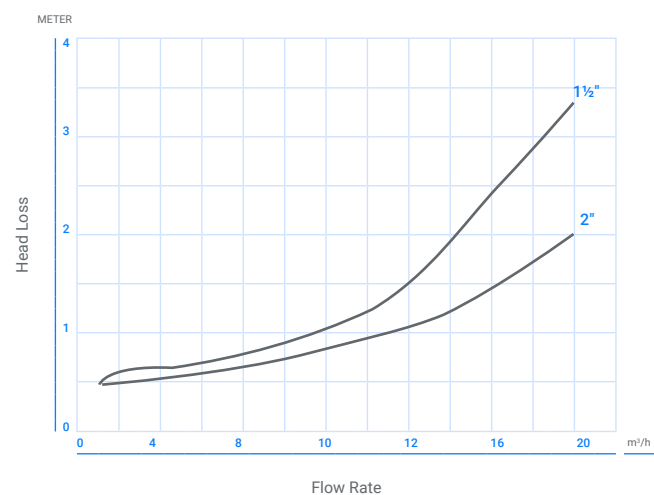
#	PART NAME	MATERIAL
1	LIMIT SWITCH ASSY.	
2	O-RING	BUNA-N
3	SPRING	STAINLESS STEEL 302
4	FLANGE SEALS	EPDM
5	SPRING HOUSING	ACETAL
6	SHAFT	STAINLESS STEEL 316
7	BODY	REINFORCED NYLON
8	DISC	REINFORCED NYLON
9	SEAL	EPDM
10	SPRING COVER	REINFORCED NYLON
11	SHAFT HOUSING	ACETAL
12	BOLT (X2)	STAINLESS STEEL 316

NR-010 6" - 10"

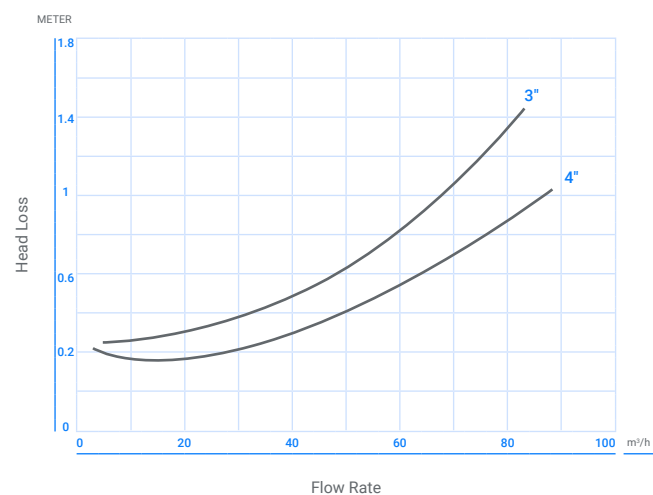
#	PART NAME	MATERIAL
1	SPRING COVER	REINFORCED NYLON
2	O-RING	BUNA-N
3	FLANGE SEALS	EPDM
4	BODY	REINFORCED NYLON
5	SPRING	STAINLESS STEEL 302
6	SPRING HOUSING	ACETAL
7	SHAFT	STAINLESS STEEL 316
8	FLAP SEAL	EPDM
9	FLAP	REINFORCED NYLON
10	SHAFT HOUSING	ACETAL
11	BOLT (X2)	STAINLESS STEEL 316
12	LIMIT SWITCH ASSY.	

→ HEAD LOSS

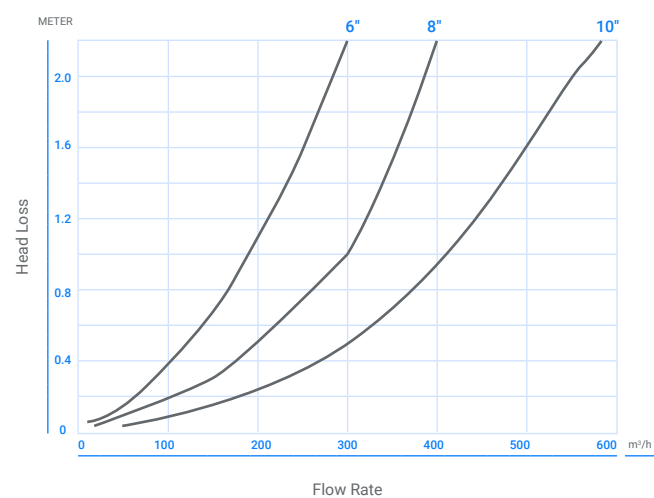
NR-010 1½", 2"



NR-010 3", 4"



NR-010 6" - 10"



→ CATALOG NUMBERS

DIAMETER	CONNECTION		DESCRIPTION	CATALOG NUMBERS
1½"	40MM	BSP	CHECK VALVE NR-010 1.5" PN10	70420-000600
		NPT	CHECK VALVE NR-010 1.5" PN10	70420-006000
	40MM (LS)	BSP	CHECK VA NR-010 1.5" W/LS PN10	70420-006010
		NPT	CHECK VAL NR-010 1.5" W/LS PN10	70420-005500
2"	50MM	BSP	CHECK VALVE NR-010 2" PN10 BSP	70420-000700
		NPT	CHECK VALVE NR-010 2" PN10 NPT	70420-006020
	50MM (LS)	BSP	CH. VAL NR-010 2" W/LS PN10 BSP	70420-005550
		NPT	CH. VAL NR-010 2" W/LS PN10 NPT	70420-006030
3"	PN-10 (80MM)		CHECK VALVE NR-010 3" PN10	70420-000800
			CHECK VALVE NR-010 3" W/LS PN10	70420-005600
	PN-16 (80MM)		CHECK VALVE NR-010 3" PN16	70420-006040
			CHECK VALVE NR-010 3" W/LS PN16	70420-006041
4"	PN-10 (100MM)		CHECK VALVE NR-010 4" PN10	70420-001180
			CHECK VALVE NR-010 4" W/LS PN10	70420-005650
	PN-16 (100MM)		CHECK VALVE NR-010 4" PN16	70420-006050
			CHECK VALVE NR-010 4" W/LS PN16	70420-006051
6"	PN-10 (150MM)		CHECK VALVE NR-010 6" PN10	70420-005660
			CHECK VALVE NR-010 6" W/LS PN10	70420-006070
	PN-16 (150MM)		CHECK VALVE NR-010 6" PN16	70420-006081
			CHECK VALVE NR-010 6" W/LS PN16	70420-006083
			CHECK VALVE NR-010 6" W/STEM PN16	70420-006082
8"	PN-10 (200MM)		CHECK VALVE NR-010 8" PN10	70420-005670
			CHECK VALVE NR-010 8" W/LS PN10	70420-006100
			CHECK VALVE NR-010 8" W/STEM PN10	70420-006090
	PN-16 (200MM)		CHECK VALVE NR-010 8" PN16	70420-006101
			CHECK VALVE NR-010 8" W/LS PN16	70420-006103
			CHECK VALVE NR-010 8" W/STEM PN16	70420-006102
10"	PN-10 (250MM)		CHECK VALVE NR-010 10" PN10	70420-006110
			CHECK VALVE NR-010 10" W/LS PN10	70420-006130
			CHECK VALVE NR-010 10" W/STEM PN10	70420-006120

* W/LS = With Limit Switch

NR-10 Check Foot Valves

A one-way or anti-siphon valve with a filtration net. The valve is installed on the pick-up end of the water pipe near the bottom of the well or at the bottom of a pump station suction pipe.



Tight
Closing



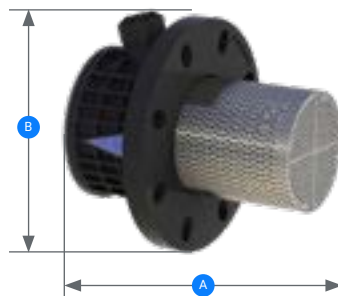
Extremely
Durable



Light
& Resistant

→ TECHNICAL DIMENSIONS & WEIGHTS

3" - 4"



6" - 10"



NOMINAL SIZE	A	B	WEIGHT (GR)
NR10 FOOT VALVE 3"	204	226	1300
NR10 FOOT VALVE 4"	231	286	2000
NR10 FOOT VALVE 6"	414	324	5500
NR10 FOOT VALVE 8"	575	365	8000
NR10 FOOT VALVE 10"	688	427	11000

NOMINAL SIZE	3"	4"	6"	8"	8"	10"	10"
SCREEN HOLE DIAMETER (MM)	3	3	3	3	6	3	6
SCREEN AREA (MM²)	41684	60936	118771	153311	153311	204905	204905
SCREEN OPEN AREA (MM²)	33%	33%	33%	33%	62%	35%	62%
	13756	20109	39194	50592	95053	71717	127041
INLET PASSAGE AREA (MM²)	3249	5315	13449	19410	19410	31934	31934
RATIO SCREEN PASSAGE AREA / INLET PASSAGE AREA	4.2	3.8	2.9	2.6	4.9	2.2	4.0
INLET PASSAGE AREA FOR NOMINAL DIAMETER (MM²)	4416	7850	17663	31400	31400	49063	49063
RATIO NOMINAL INLET SCREEN PASSAGE / AREA	3.1	2.6	2.2	1.6	3.0	1.5	2.6

Butterfly Valves

Simple, light and reliable for installation wherever there is a need to cut the flow passage in pipes and equipment.



Resilient



Robust



Resistant

Benefits & Features

→ Outstanding performance

Netafim manual valves are manufactured using materials of the highest quality, always complying with the standards for hydraulically operated devices

→ Ultimated durability

The quality of the Netafim butterfly valve gives it great resistance over time. The replaceable seat guarantees bidirectional watertightness, easy maintenance due to its innovative design and longer life of the valve

→ Extremely versatile

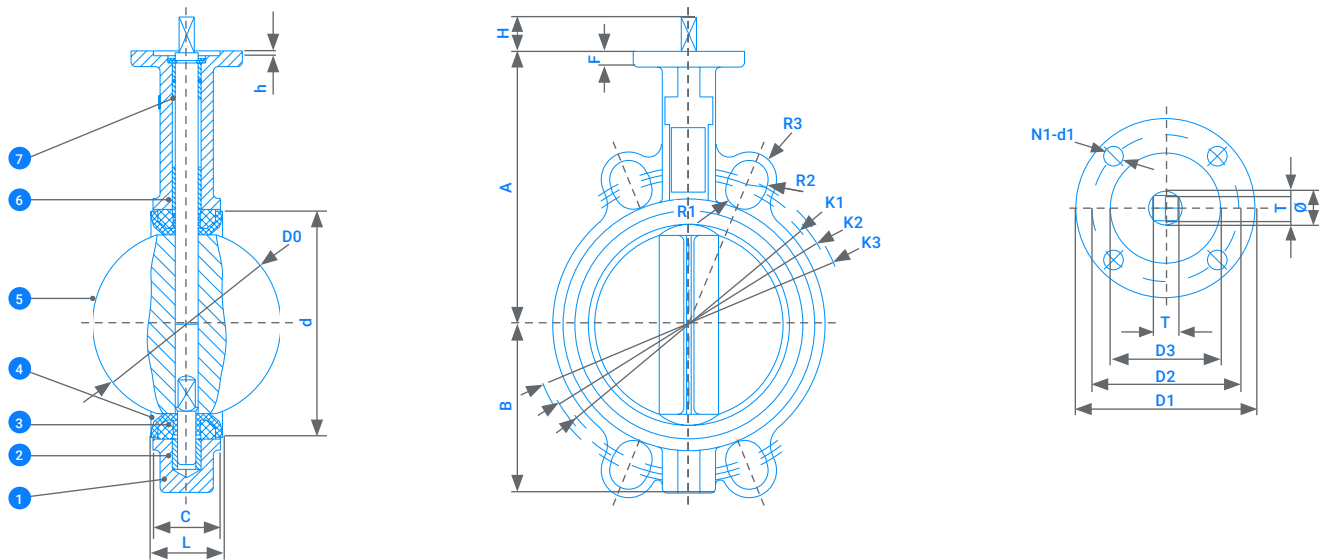
Different disc material options: ductile iron, stainless steel or aluminum bronze

→ TECHNICAL SPECIFICATIONS

TYPE	CONCENTRIC
PRESSURE GRADE	PN16
WORKING PRESSURE	16 BAR
AVAILABLE DIAMETERS	DN50 TO DN600
WORKING TEMPERATURE	0°C TO 80°C
CONNECTION	WAFER
COATING	FUSION BONDED EPOXY 250 µM

* Other materials and specifications on request.

→ TECHNICAL DIMENSIONS FOR BODY



DN	A	B	H	D0	C	L	D	K1	K2	K3	R1	R2	R3	F	D1	D2	D3	H	4-D1	Ø	T
50	125	73	28	52.6	43	46	73.3	120.6	125	124	10.5	-	10.5	10	65	50	35	4	7	12.6	9
65	136	82	28	64.3	46	49	86.0	139.7	145	145	10.5	-	10.5	10	65	50	35	4	7	12.6	9
80	142	91	28	78.8	46	49	100.9	152.4	160	160	10.5	-	10.5	10	65	50	35	4	7	12.6	9
100	163	107	28	104	52	55	132	180	180	190.5	10.5	-	10.5	12	90	70	55	4	10	15.77	11
125	176	127	28	123.3	56	59	156	210	210	215.9	12.2	-	12.2	12	90	70	55	4	10	18.92	14
150	197	143	28	155.7	56	59	185.4	240	240	241.3	12.2	-	12.2	12	90	70	55	4	10	18.92	14
200	230	170	38	202.4	60	64	235.2	295	295	298.5	12.2	12.5	12.2	15	125	102	70	4	12	22.1	17
250	260	204	38	250.4	68	72	289.4	350	355	361.9	13.7	15	13.7	15	125	102	70	4	12	28.45	22
300	292	240	38	301.5	78	82	341.2	400	410	431.8	13.7	15	13.7	15	125	102	70	4	12	31.6	22

→ MATERIAL SPECIFICATION FOR BODY TYPE A*

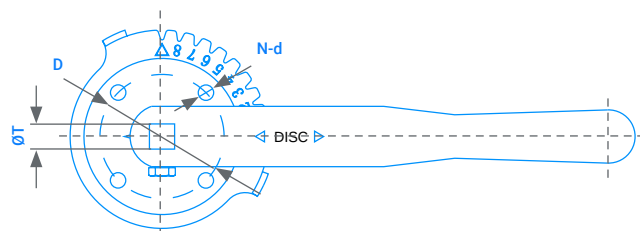
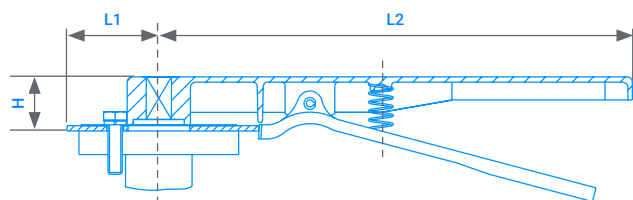
#	COMPONENT	MATERIAL	SPECIFICATION
1	BODY	DUCTILE IRON	GGG40
2	SHAFT	STAINLESS STEEL	AISI 420
3	DISC	DUCTILE IRON	AISI 316
4	SEAT	EPDM	EN681
5	BEARING	PFTE	COMMERCIAL
6	RING SEAL	EPDM	EN681
7	INDICATOR PLATE	STAINLESS STEEL	AISI 420

→ MATERIAL SPECIFICATION FOR BODY TYPE B*

#	COMPONENT	MATERIAL	SPECIFICATION
1	BODY	DUCTILE IRON	GGG40
2	SHAFT	STAINLESS STEEL	AISI 420
3	DISC	STAINLESS STEEL	AISI 316
4	SEAT	EPDM	EN681
5	BEARING	PFTE	COMMERCIAL
6	RING SEAL	EPDM	EN681
7	INDICATOR PLATE	STAINLESS STEEL	AISI 420

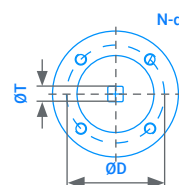
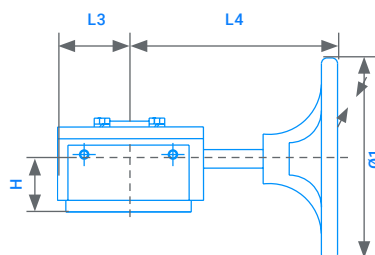
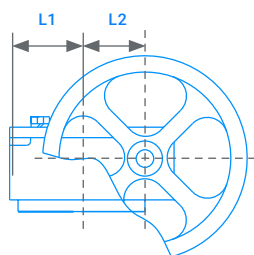
* For butterfly valves up to 300mm

→ TECHNICAL DIMENSIONS FOR LEVER



DN	H	L1	L2	D	N-d	ØT
50	28	52	267	50	4-7	9
65	28	52	267	50	4-7	9
80	28	52	267	50	4-7	9
100	28	52	267	70	4-10	11
125	28	52	267	70	4-10	14
150	28	52	267	70	4-10	14
200	38	75	359	102	4-12	17
250	38	75	359	102	4-12	22
300	38	75	359	102	4-12	22

→ TECHNICAL DIMENSIONS FOR GEARBOX



DN	H	L1	L2	L3	L4	Ø1	D1	N-d	ØT
50	35	51	43	51	151	154	50	4-M6	9
65	35	51	43	51	151	145	50	4-M6	9
80	35	51	43	51	151	145	50	4-M6	9
100	35	51	43	51	151	145	70	4-M8	11
125	35	51	43	51	151	145	70	4-M8	14
150	35	51	43	51	151	145	70	4-M8	14
200	42	72	65	72	210	285	102	4-M10	17
250	42	72	65	72	210	285	102	4-M10	22
300	45	94	79	94	190	285	102	4-M10	22

→ CATALOG NUMBERS FOR TYPE A

DESCRIPTION	CATALOG NUMBER
GAER BUTTERFLY VALVE 3" GEAR OPERATED	71660-000940
GAER BUTTERFLY VALVE 4" GEAR OPERATED	71660-000941
GAER BUTTERFLY VALVE 6" GEAR OPERATED	71660-000942
GAER BUTTERFLY VALVE 8" GEAR OPERATED	71660-000943
GAER BUTTERFLY VALVE 10" GEAR OPERATED	71660-000944
GAER BUTTERFLY VALVE 12" GEAR OPERATED	71660-000945
GAER BUTTERFLY VALVE 3" LEVER OPERATED	71660-000950
GAER BUTTERFLY VALVE 4" LEVER OPERATED	71660-000951
GAER BUTTERFLY VALVE 6" LEVER OPERATED	71660-000952
GAER BUTTERFLY VALVE 8" LEVER OPERATED	71660-000953
GAER BUTTERFLY VALVE 10" LEVER OPERATED	71660-000954

→ CATALOG NUMBERS FOR TYPE B

DESCRIPTION	CATALOG NUMBER
GAER BUTTERFLY VALVE 2" LEVER -SST DISC	71660-000970
GAER BUTTERFLY VALVE 3" LEVER -SST DISC	71660-000971
GAER BUTTERFLY VALVE 4" LEVER -SST DISC	71660-000972
GAER BUTTERFLY VALVE 6" LEVER -SST DISC	71660-000973
GAER BUTTERFLY VALVE 8" LEVER -SST DISC	71660-000974
GAER BUTTERFLY VALVE 10" LEVER -SST DISC	71660-000975
GAER BUTTERFLY VALVE 2" GEAR -SST DISC	71660-000980
GAER BUTTERFLY VALVE 3" GEAR -SST DISC	71660-000981
GAER BUTTERFLY VALVE 4" GEAR -SST DISC	71660-000982
GAER BUTTERFLY VALVE 6" GEAR -SST DISC	71660-000983
GAER BUTTERFLY VALVE 8" GEAR -SST DISC	71660-000984
GAER BUTTERFLY VALVE 10" GEAR -SST DISC	71660-000985

* Additional diameters, materials and specifications are available upon request.

Gate Valves

Designed for use in distribution of fluids such as water, and neutral fluids in a wide range of temperatures and working conditions.



WHEEL
TYPE



EXTENSION SHAFT
FOR SQUARE KEY TYPE



Resilient



Robust



Durable

/ Benefits & Features

→ Outstanding performance

The pitch diameter of this type of valve is equal to the nominal diameter when the valve is in totally open position. In this way minimum load losses are obtained

→ Ultimated durability

Its configuration guarantees complete and directional tightness in its entire range of pressures, with smooth movement of the shaft during its entire travel

→ Extremely versatile

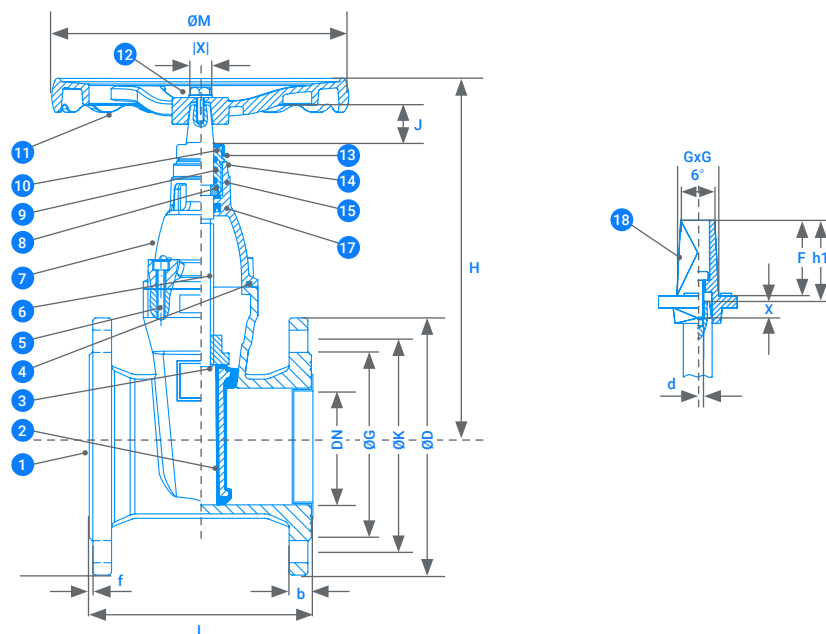
Resilient seat, operated by handwheel, square cap or extendable shaft according to the application

→ TECHNICAL SPECIFICATIONS

DESIGN TYPE	NON-RISING STEM
PRESSURE GRADE	PN16
WORKING PRESSURE	16 BAR
AVAILABLE DIAMETERS	DN50 TO DN600
WORKING TEMPERATURE	0°C TO 80°C
CONNECTION	FLANGE
COATING	FUSION BONDED EPOXY 250 µM

* Other materials and specifications upon request.

→ TECHNICAL DIMENSIONS FOR PN 16 NARROW MODEL



DN	DIMENSIONS (MM)																
	SHAPE					FLANGES PN16					SQUARE STEM						
	L(F4)	L(F5)	H	M	J	D	K	G	b	f	IXI	h1	GxG	F	d	X	
50	150	250	215	200	30	165	125	99	19	3	14X14	285	35X35	63	M8	15	
65	170	270	235	200	30	185	145	118	19	3	14X14	300	35X35	63	M8	15	
80	180	280	265	254	30	200	160	132	19	3	17X17	320	35X35	63	M8	15	
100	190	300	315	254	32	220	180	156	19	3	17X17	390	35X35	63	M8	15	
125	200	325	350	315	32	250	210	184	19	3	19X19	430	35X35	63	M8	15	
150	210	350	385	315	32	285	240	211	19	3	19X19	470	35X35	63	M8	15	
200	230	400	485	315	35	340	295	266	20	3	19X19	560	35X35	63	M8	15	
250	250	450	600	406	35	405	355	319	22	3	24X24	680	35X35	63	M10	15	
300	270	500	680	406	35	460	410	370	24.5	4	24X24	770	35X35	63	M10	15	
350	290	550	810	500	45	520	470	429	26.5	4	27X27	900	48X48	75	M10	20	
400	310	600	890	500	45	580	525	480	28	4	27X27	1000	48X48	75	M10	20	
450	330	650	1050	500	50	640	585	548	30	4	27X27	1150	48X48	75	M10	20	
500	350	700	1230	650	55	715	650	609	31.5	4	30X30	1330	48X48	75	M12	20	
600	390	800	1260	650	55	840	770	720	36	5	30X30	1500	48X48	75	M12	20	

→ TECHNICAL DIMENSIONS FOR HOLE SIZE ASSEMBLY

		PN10		PN16		ANSI150		BSTD	
		K	n-d	K	n-d	K	n-d	K	n-d
2"	50	125	4X19	125	4X19	121	4X19	114	4X18
2-1/2"	65	145	4X19	145	4X19	140	4X19	127	4X18
3"	80	160	8X19	160	8X19	152	4X19	146	4X18
4"	100	180	8X19	180	8X19	191	8X19	178	4X18
5"	125	210	8X19	210	8X19	216	8X22	210	4X18
6"	150	240	8X23	240	8X23	241	8X22	235	8X18
8"	200	295	8X23	295	12X23	298	8X22	292	8X18
10"	250	350	12X23	355	12X28	362	12X25	356	8X22
12"	300	400	12X23	410	12X28	432	12X25	406	12X22
14"	350	460	16X23	470	16X28	476	12X29	470	12X26
16"	400	515	16X28	525	16X31	540	16X29	521	12X26
18"	450	565	20X28	585	20X31	578	16X32	584	12X26
20"	500	620	20X28	650	20X34	635	20X32	641	16X26
24"	600	725	20X31	770	20X37	749	20X35	756	16X30

→ MATERIAL SPECIFICATION FOR PN 16 NARROW MODEL

	COMPONENT	MATERIAL	SPECIFICATION
1	BODY	DUCTILE IRON	GGG50
2	DISC	DUCTILE IRON + EPDM	GGG50
3	SHAFT NUT	BRASS	CUZN39PB2
4	COVER SEAL	NBR	UNE-EN 681-1
5	COVER SCREWS	STAINLESS STEEL	A2(AISI 304)
6	SHAFT	STAINLESS STEEL	AISI 420
7	COVER	DUCTILE IRON	GGG50
8	CLAMPING RING	BRASS	CUZN39PB2
9	O-RING	NBR	UNE-EN 681-1
10	THRUST NUT	BRASS	CUZN39PB2
11	HANDWHEEL	DUCTILE IRON	GGG50
12	SCREW	STAINLESS STEEL	A2(AISI 304)
13	DUST PROTECTORS	NBR	UNE-EN 681-1
14	O-RING	NBR	UNE-EN 681-1
15	O-RING	NBR	UNE-EN 681-1
16	UNITS SEPARATED OF NYLON	NYLON 66	
17	SELF-CLOSING RING	NBR	UNE-EN 681-1
18	SQUARE STEM	DUCTILE IRON	GGG50

→ CATALOG NUMBERS

DESCRIPTION	OPERATION	CONNECTION TYPE		
		ISO	BSTD	ANSI
2"	WHEEL	71660-000870	71660-000871	71660-000872
	SQUARE KEY **	71660-000873	71660-000874	71660-000875
3"	WHEEL	71660-000880	71660-000881	71660-000882
	SQUARE KEY **	71660-000883	71660-000884	71660-000885
4"	WHEEL	71660-000890	71660-000891	71660-000892
	SQUARE KEY **	71660-000893	71660-000894	71660-000895
6"	WHEEL	71660-000900	71660-000901	71660-000902
	SQUARE KEY **	71660-000903	71660-000904	71660-000905
8"	WHEEL	71660-000910	71660-000911	71660-000912
	SQUARE KEY **	71660-000913	71660-000914	71660-000915
10"	WHEEL	71660-000920	71660-000921	71660-000922
	SQUARE KEY **	71660-000923	71660-000924	71660-000925
12"	WHEEL	71660-000930	71660-000931	71660-000932
	SQUARE KEY **	71660-000933	71660-000934	71660-000935

* Additional diameters, materials and specifications available upon request

** Extension shaft is supplied for any square key gate valve

Check Valves

Designed for use in distribution of fluids such as water, and neutral fluids in a wide range of temperatures and working conditions.



Reliable



Resilient



Durable

Benefits & Features

→ Double flap check valve

The discs are opened by the pressure of the circulating fluid, and let the fluid pass in the required direction. When the flow is stopped, the valve shuts off rapidly thanks to a closing spring, thus preventing reverse flow

→ Swing check valve

Suited for work with wastewater, dirty water or water with high concentrations of suspended solids. Its shutoff system is free of possible obstructions and requires minimum pressure both for opening and closing

→ Foot check valve

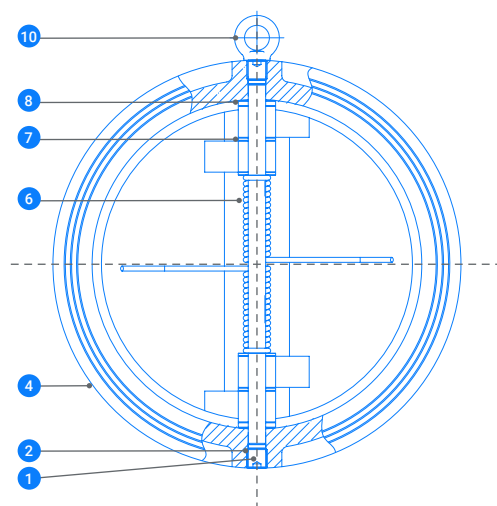
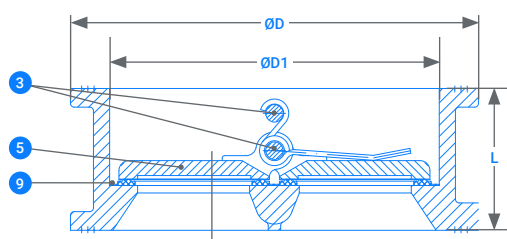
The ideal solution to prevent emptying of the suction lines in pumps. Its design and manufacture guarantee hermetic closing. The stainless steel strainer prevents entry of solid particles into the pipe

→ TECHNICAL SPECIFICATIONS

DESIGN TYPE	RESILIENT SWING
PRESSURE GRADE	PN16
WORKING PRESSURE	16 BAR
AVAILABLE DIAMETERS	DN50 TO DN600
WORKING PRESSURE	16 BAR
WORKING TEMPERATURE	0°C TO 80°C
MIN. CLOSING PRESSURE	1 BAR (FOR DOUBLE FLAP & SWING), 0.3 BAR (FOR FOOT)
COATING	FUSION BONDED EPOXY 250 µM

* Other materials and specifications on request.

→ TECHNICAL DIMENSIONS FOR DOUBLE FLAP

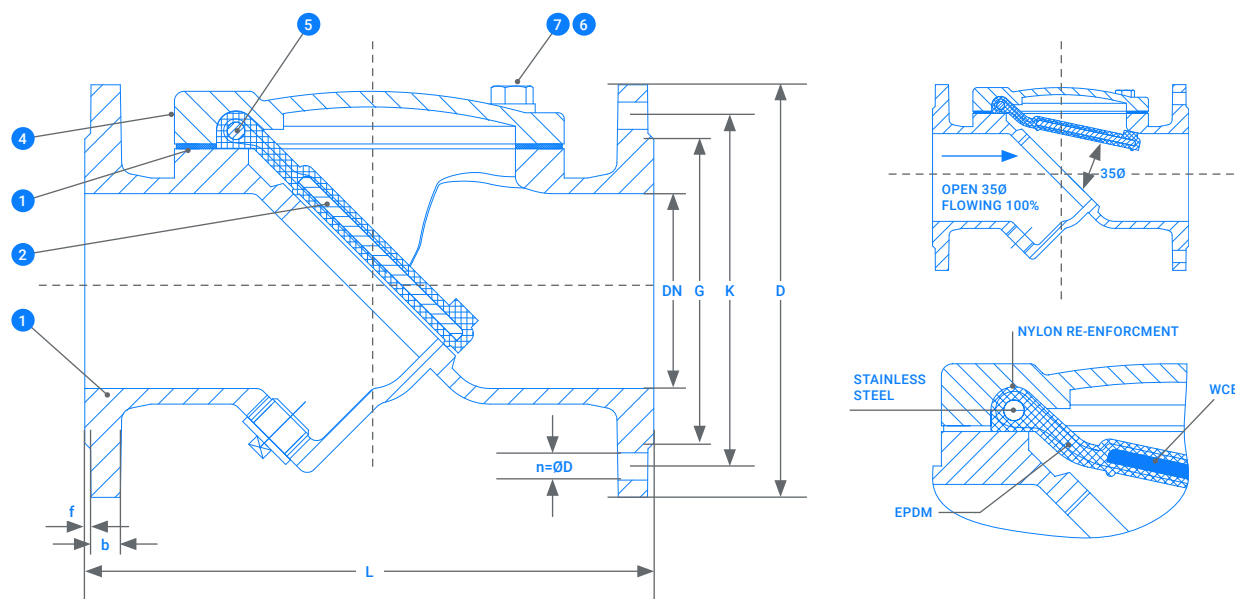


DN	L	ØD1	ØD
50 (2")	43	65	103
65 (2.5")	46	80	123
80 (3")	64	94	129
100 (4")	64	117	157
125 (5")	70	145	192
150 (6")	76	170	218
200 (8")	89	224	268
250 (10")	114	265	328
300 (12")	114	310	375
350 (14")	127	360	438
400 (16")	140	410	489
450 (18")	152	450	537
500 (20")	152	505	592
600 (24")	178	624	694

→ MATERIAL SPECIFICATION FOR DOUBLE FLAP

	DESCRIPTION	MATERIAL
1	SCREW	CARBON STEEL
2	SEALING RING	EPDM
3	SHAFT	SS316
4	BODY	DI
5	DISC	CF8M
6	SPRING	SS316
7	GASKET	PTFE
8	GASKET	PTFE
9	SEAT	EPDM
10	LIFTING RING	CARBON STEEL

→ TECHNICAL DIMENSIONS FOR SWING CHECK VALVE

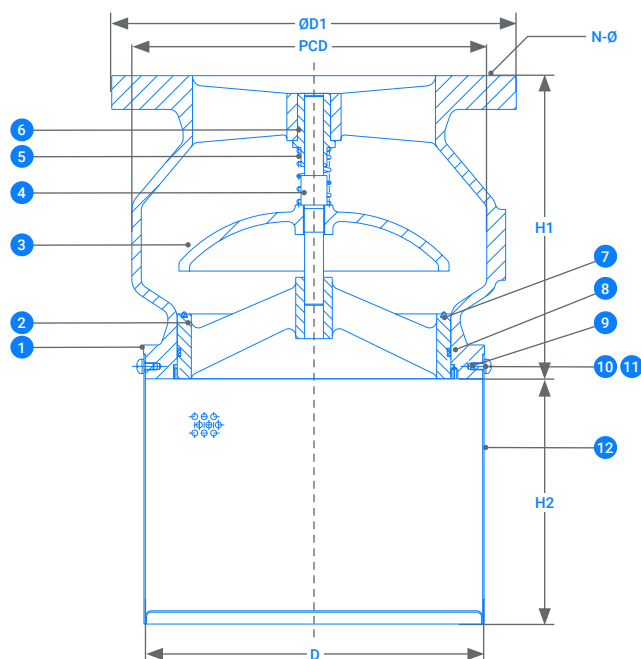


DN	L	D	G	B	F	KG	INCH	PN10		PN16		ANSI150		BSTD	
	(MM)	(MM)	(MM)	(MM)	(MM)			K	n-d	K	n-d	K	n-d	K	n-d
50	203	165	99	19	3	10,45	2"	125	4X19	125	4X19	121	4X19	114	4X18
65	216	185	118	19	3	13,6	2-1/2"	145	4X19	145	4X19	140	4X19	127	4X18
80	241	200	132	19	3	16	3"	160	8X19	160	8X19	152	4X19	146	4X18
100	292	220	156	19	3	21	4"	180	8X19	180	8X19	191	8X19	178	4X18
125	330	250	184	19	3	26	5"	210	8X19	210	8X19	216	8X22	210	4X18
150	356	285	211	19	3	36	6"	240	8X23	240	8X23	241	8X22	235	8X18
200	495	340	266	20	3	73	8"	295	8X23	295	12X23	298	8X22	292	8X18
250	622	405	319	22	3	120	10"	350	12X23	355	12X28	362	12X25	356	8X22
300	698	460	370	24.5	4	215	12"	400	12X23	410	12X28	432	12X25	406	12X22
350	787	520	429	26.5	4	230	14"	460	16X23	470	16X28	476	12X29	470	12X26
400	914	580	480	28	4	335	16"	515	16X28	525	16X31	540	16X29	521	12X26
450	978	640	548	30	4	401	18"	565	20X28	585	20X31	578	16X32	584	12X26
500	978	715	609	31.5	4	502	20"	620	20X28	650	20X34	635	20X32	641	16X26
600	1295	840	720	36	5	818	24"	725	20X31	770	20X37	749	20X35	756	16X30

→ MATERIAL SPECIFICATION FOR SWING CHECK VALVE

	COMPONENT	MATERIAL	SPECIFICATION
1	BODY	DUCTILE IRON	GGG50
2	SEAT	NBR	EN 681
3	DISC	WCB + NBR	WCB + NBR
4	COVER	DUCTILE IRON	GGG50
5	PIN	STAINLESS STEEL	AISI 316
6	SCREW	STAINLESS STEEL	AISI 316
7	WASHER	STAINLESS STEEL	AISI 316
8	NUT	DUCTILE IRON	GGG50

→ TECHNICAL DIMENSIONS FOR FOOT VALVE



SIZE	H1	H2	D	BS EN 1092-2 PN16		D1
				PCD	N-Ø	
2"	133	68	114	Ø125	4-Ø19	Ø165
2,5"	140	93	130	Ø145	4-Ø19	Ø185
3"	152	108	144	Ø160	8-Ø19	Ø200
4"	185	138	177	Ø180	8-Ø19	Ø220
5"	216	163	203	Ø210	8-Ø19	Ø250
6"	229	189	237	Ø240	8-Ø23	Ø285
8"	257	208	290	Ø295	12-Ø23	Ø340
10"	293	225	330	Ø355	12-Ø28	Ø405
12"	362	245	383	Ø410	12-Ø28	Ø460
14"	400	270	470	Ø470	16-Ø28	Ø520
16"	448	290	520	Ø525	16-Ø31	Ø580
18"	476	315	570	Ø585	20-Ø31	Ø640
20"	524	340	630	Ø650	20-Ø34	Ø715
24"	610	365	740	Ø770	20-Ø37	Ø840

→ MATERIAL SPECIFICATION FOR FOOT VALVE

	DESCRIPTION	MATERIAL
1	BODY	DI
2	SEAT	DI
3	DISC	DI
4	STEM	SS410
5	SPRING	SS304
6	BUSHING	ASTM B584
7	O-RING	EPDM
8	O-RING	EPDM
9	SCREW	SS316
10	SCREW	SS316
11	WASHER	SS316
12	SCREEN	SS304

→ CATALOG NUMBERS FOR CHECK VALVES

DESCRIPTION	CONNECTION TYPE		
	ISO	ANSI	WAFER
CHECK VALVE 2" DOUBLE FLAP	-	-	71660-000800
CHECK VALVE 2" SWING	71660-000801	71660-000802	-
CHECK VALVE 2" FOOT	71660-000803	71660-000804	-
CHECK VALVE 3" DOUBLE FLAP	-	-	71660-000810
CHECK VALVE 3" SWING	71660-000811	71660-000812	-
CHECK VALVE 3" FOOT	71660-000813	71660-000814	-
CHECK VALVE 4" DOUBLE FLAP	-	-	71660-000820
CHECK VALVE 4" SWING	71660-000821	71660-000822	-
CHECK VALVE 4" FOOT	71660-000823	71660-000824	-
CHECK VALVE 6" DOUBLE FLAP	-	-	71660-000830
CHECK VALVE 6" SWING	71660-000831	71660-000832	-
CHECK VALVE 6" FOOT	71660-000833	71660-000834	-
CHECK VALVE 8" DOUBLE FLAP	-	-	71660-000840
CHECK VALVE 8" SWING	71660-000841	71660-000842	
CHECK VALVE 8" FOOT	71660-000843	71660-000844	
CHECK VALVE 10" DOUBLE FLAP			71660-000850
CHECK VALVE 10" SWING	71660-000851	71660-000852	
CHECK VALVE 10" FOOT	71660-000853	71660-000854	
CHECK VALVE 12" DOUBLE FLAP			71660-000860
CHECK VALVE 12" SWING	71660-000861	71660-000862	
CHECK VALVE 12" FOOT	71660-000863	71660-000864	

* Additional diameters, materials and specifications are available upon request

"Y" Strainers

Strainers, also known as stone trappers, are installed at the entrance of pumps, water meters, valves and control devices to protect them from solid remains that may cause damage on the installation.



Robust



Reliable



Easy
Maintenance

Benefits & Features

- **Perfect geometry**
 - Designed to allow a laminar and constant flow
 - Very small head losses are achieved, that are a critical point in most installations
- **Made of robust materials**
 - The cover is completely sealed throughout the range of pressures and incorporates a threaded plug for easy and quick evacuation of retained solids
 - Screen is in stainless steel, allowing corrosive fluids flow without difficulty

Specifications & Recommendations

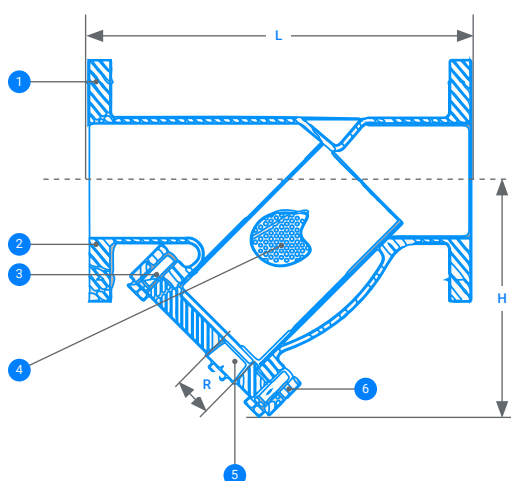
- **Working pressure**
DN50-600 / PN16, DN50-300 / PN25
- **Working temperature**
-10°C to 120°C for EPDM liner,
-10°C to 85°C for NBR liner
- **Standards**
Flange dimensions: EN 1092-2
Face to face dimensions: EN 558 series 1

→ TECHNICAL DATA

DN	C V VALUE	WEIGHT(KG)	STANDARD SCREENS		
			HOLE DIAMETER(MM)	FREE FLOW AREA(%)	TOTAL AREA(MM²)
50	16	10	1.5	33	4624
65	32	14.5			7709
80	47	19			9549
100	73	32	3.0	40	25485
125	108	40			37780
150	158	62			45065
200	278	109			85166
250	474	197			128827
300	632	253			161697
350	885	458			300324
400	1297	556			374732
450	1739	627			480342
500	2245	780			548323
600	-	1080			834423

→ TECHNICAL DIMENSIONS

DN	L(MM)	H(MM)	CONNECTION
50	230	145	½"
65	290	170	1"
80	310	195	1"
100	350	233	1"
125	400	276	1-1/4"
150	480	318	1-1/2"
200	600	370	1-1/2"
250	730	518	2"
300	850	545	2"
350	980	755	2"
400	1100	827	2"
450	1200	930	2"
500	1250	980	2"
600	1450	1170	2"



→ MATERIAL SPECIFICATIONS

#	PART	MATERIAL	SPECIFICATION
1	BODY	CAST IRON	ASTM A126 CLASS B (GG25)
2	BONNET	CAST IRON	ASTM A126 CLASS B (GG25)
3	GASKET	EPDM	COMMERCIAL
4	SCREEN	STAINLESS STEEL	AISI 304
5	PLUG	CAST IRON	ASTM A126 CLASS B
6	BOLTS	STAINLESS STEEL	AISI 304

*Other materials upon request

/ Control Valves Application

Netafim Valves App.

A one of its kind tool for designers,
dealers & end-users!



/ Benefits & Features

- **Product portfolio** A digital product catalog that contains various product sheets
- **Technical guides** Any technical material that can assist to select, install and maintain a valve
- **Hydraulic calculations** Simply calculating the valves head loss, recommended flow rates, etc.
- **Product finder** A list of standard products that is extremely easy to select from. Plus, a quick guide for selecting unique products

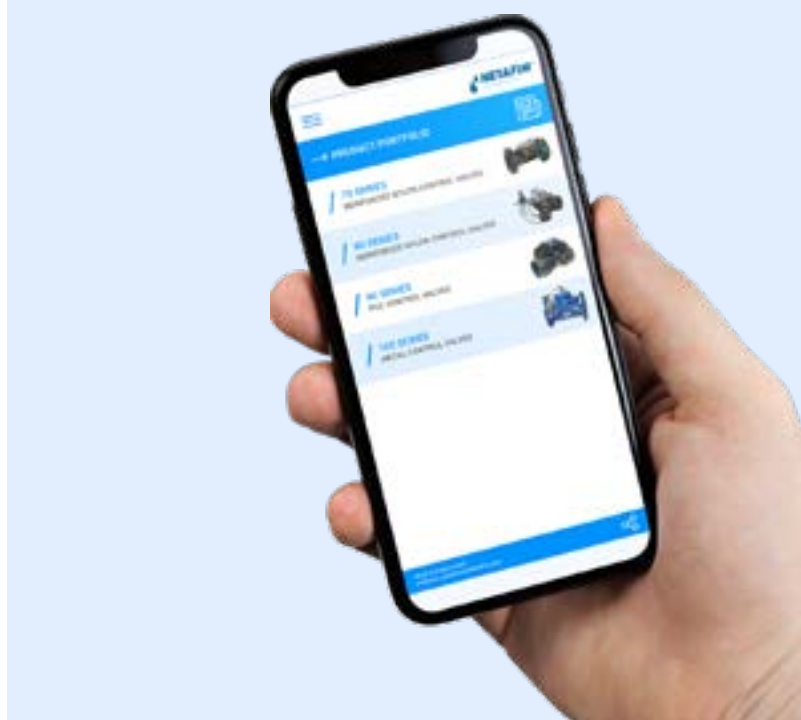
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