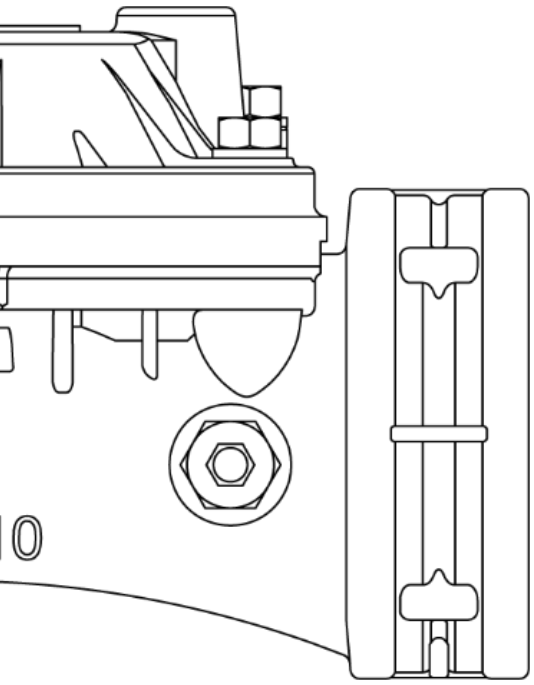
NYLON LINE HYDRAULIC VALVES

Cometal®
HIGH TECHNOLOGY FOR WATER

- ✓ PATENT MODEL: Perimeter ring in the platform of the valve body which avoid the diaphragm displacement.
- ✓ Excellent behavior in fertigation and high durability in underground installation.
- ✓ TWO NOMINAL PRESSURES: Two variants of diaphragms and springs according to needs. Standard pressure in irrigation PN10, and for very low pressure (valve open to 4mca) PN04.
- ✓ ACCESS AND MAINTENANCE: It allows an easy access to the inner part of the valve only manipulating the screws between covers and bodies.
- ✓ POSITION: Horizontal or vertical position of the valve, does not affect the operation or hydraulic specifications of the product.
- ✓ ONLY SUITABLE FOR AGRICULTURAL USE



SPECIFICATIONS

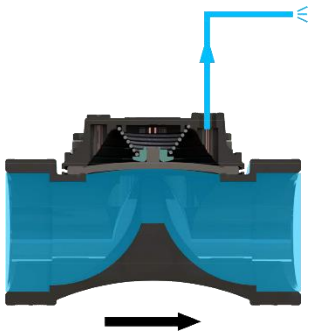
- CONNECTIONS: BSP (NPT under order) Female thread
  Multiconnection:
  BSP (NPT under order) Female thread
  ISO-7005-2 flanges (ANSI or BS under order)
  Grooved
- DESIGN: Single chamber line design / Multi connection.
- SIZES RANGE:
  Threaded: 1”-1½”-2”-2½”-3”-4”
  Flanged: 4”
  Grooved: 4”
- NOMINAL PRESSURE (bar): PN04, PN10.
  (psi): PN58, PN145.
- MINIMUM ACTIVATION PRESSURE:
  PN04: 0,4 bar
  PN10: 1,0 bar

MATERIALS

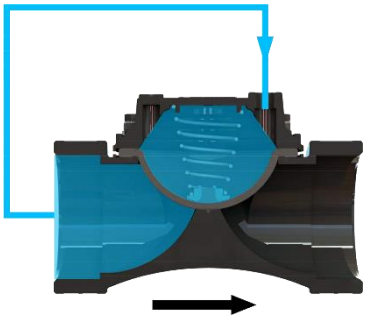
- BODY AND COVER: Polyamide with fibre-glass.
  High resistance to UV radiation
- DIAPHRAGM: Natural rubber reinforced with nylon.
- SPRING: Stainless Steel.

WORKING SCHEME

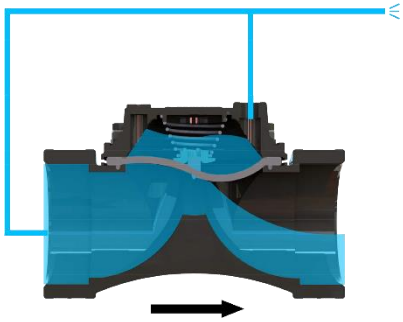
COMETAL hydraulic valves comply with the specifications of the standards **UNE - EN 1074** about valves for the supply of water and **ISO 9635** about irrigation valves with reference to **general requirements, mechanical resistance and watertightness.**



When the sum of the Control Chamber powers is less than the upstream pressure, the valve will open.

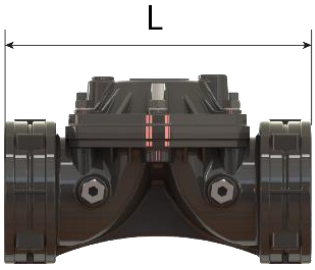


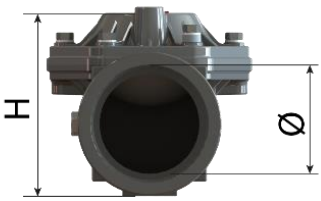
When the sum of the Control Chamber powers is higher or equal than the upstream pressure, the valve will close.



When the Control Chamber is partially full, the valve can be opening, closing or regulating.

DIMENSIONS AND WEIGHTS

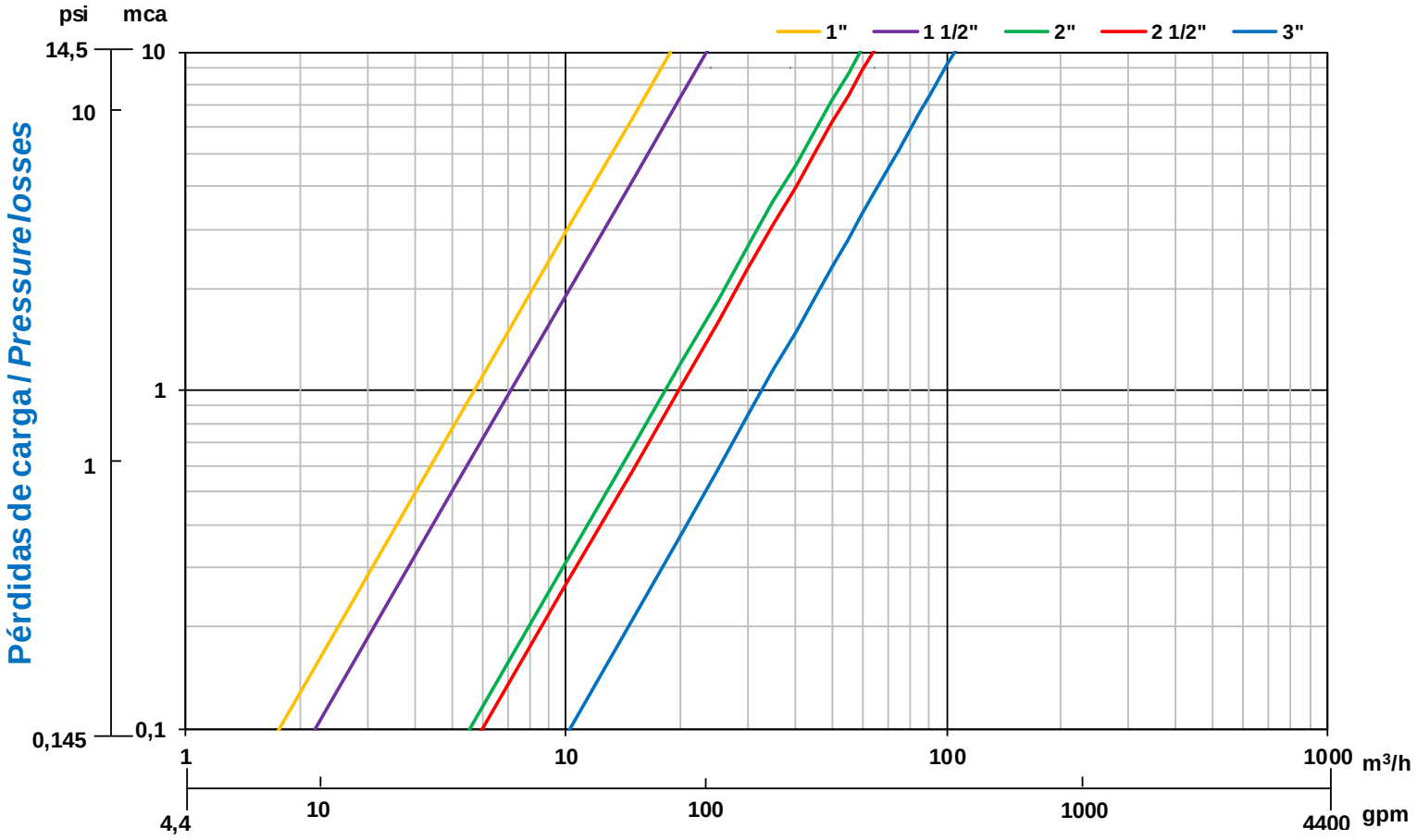




MODEL	CONNECTION	LENGTH (L)		HEIGHT (H)		INSIDE DIAM (ø)	WIDTH (W)		WEIGHT
		mm	inch	mm	inch	inch	mm	inch	Kg
LINE THREAD									
1”	THREAD	135	5.31	64	2.52	1”	90	3.54	0,26
1 ½”	THREAD	140	5.51	81	3.20	1 ½”	90	3.54	0,32
2”	THREAD	186	7.32	110	4.33	2”	135	5.31	0,76
2 ½”	THREAD	198	7.80	128	5.04	2 ½”	135	5.31	0,84
3”	THREAD	210	8.27	138	5.43	3”	146	5.75	0,98
MULTI CONNECTION									
4”	THREAD	316	12.4	233,5	9.2	4”	220,0	8.7	4,1
	FLANGED	372	14.6	189	7.4	4”	221,5	8.3	3,2
	GROOVED	372	14.6	189	7.4	4”	221,5	8.3	3,2

PLASTIC VALVES

COMETAL valves comply with the following standards for threaded connections: **BSP. 7.1 ISO - 228.1 ISO - UNE - EN 10226 - BS-EN 10226**. ISO standard and European standards.
NPT. ASME-ANSI B 1.20. American standard.



Friction Head Loss is measured from A to B

COMETAL hydraulic valves comply with the specifications of the standards UNE-EN 1267 and ISO 9644 in terms of friction head loss tests.

MODEL	CONNECTION	KV		CONTROL CHAMBER VOLUME
		m3/h	gpm	litres
1”	THREAD	19	83.7	0,01
1 ½”	THREAD	24	105.7	0,03
2”	THREAD	60	264.2	0,05
2 ½”	THREAD	65	286.2	0,05
3”	THREAD	105	462.3	0,13

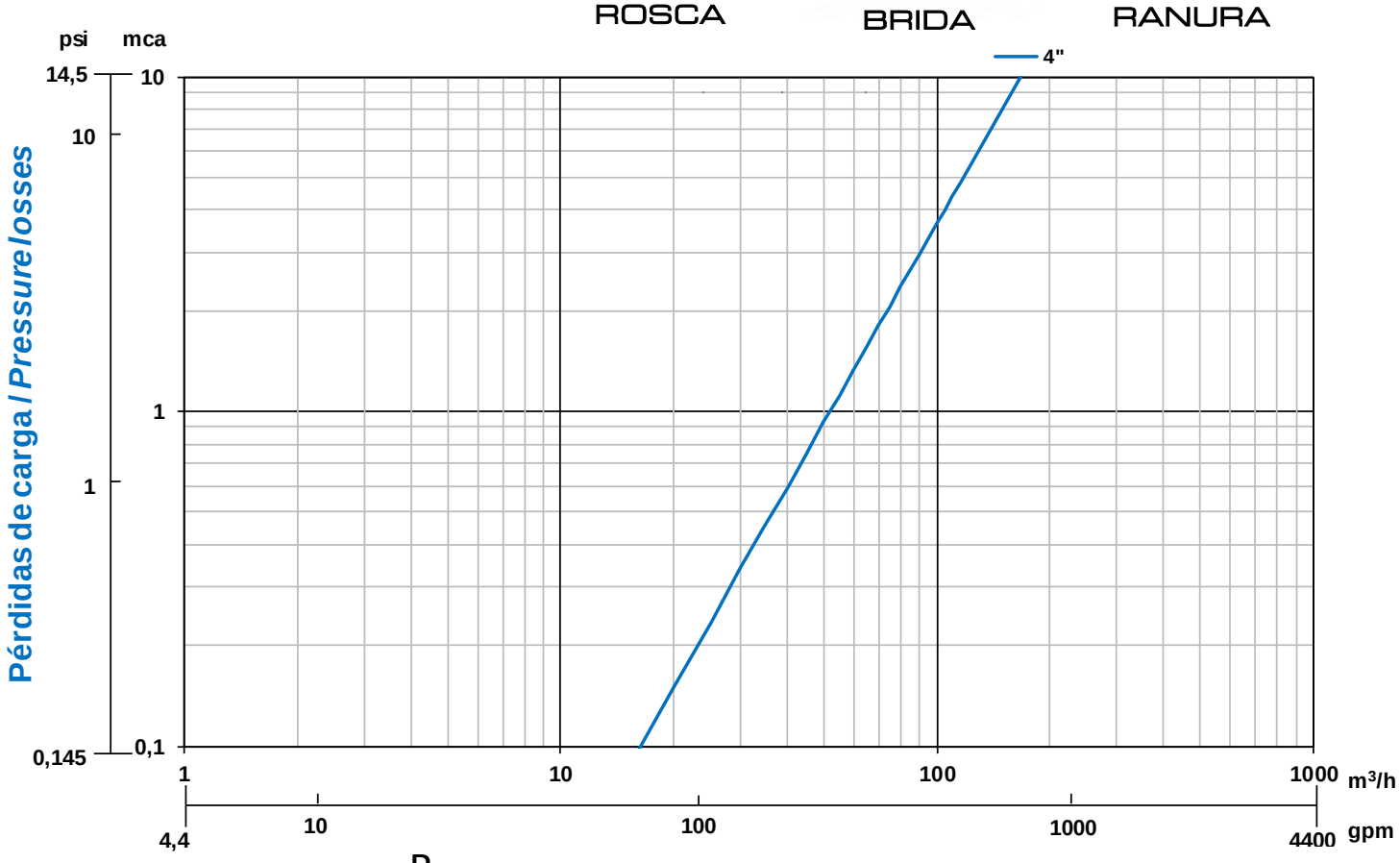
MULTI CONNECTION VALVES

COMETAL valves comply with the following standards for threaded connections: **BSP. 7.1 ISO - 228.1 ISO - UNE - EN 10226 - BS-EN 10226.** ISO standard and European standards.
NPT. ASME-ANSI B 1.20. American standard.
COMETAL valves comply with the following standards for flanged:
ISO 7005 - DIN - UNE-EN 1092-BS-EN 1092. ISO standard and European standards. **ASME-ANSI B 16.1 - 16.5 B**. American standard. **AS 2129**. Australian standard.
COMETAL valves comply with standard grooved specifications.


ROSCA


BRIDA


RANURA



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MODELO	CONNECTION	KV		CONTROL CHAMBER VOLUME
		m3/h	gpm	litres
4”	MULTI CONNECTION	175	770.5	0,70