

TECNIDRO



VALVOLE IDRAULICHE AUTOMATICHE

AUTOMATIC HYDRAULIC VALVES
VÁLVULAS HIDRÁULICAS AUTOMÁTICAS
VANNES HIDRALIQUES AUTOMATIQUES



IDROMEMBRANA®



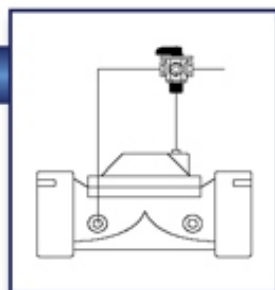
IM-CM4V

Valvola idraulica a comando manuale.

Hydraulically operated manual valve.

Válvula hidráulica con mando manual.

Vanne hydraulique à commande manuelle.



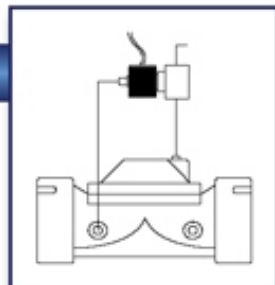
IM-EL

Valvola elettroidraulica con solenoide.

Electrohydraulically operated solenoid valve.

Válvula electrohidráulica con solenoide.

Vanne à commande électrique avec solénoïde.



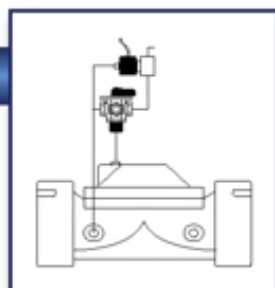
IM-EL-CM4V

Valvola elettroidraulica con solenoide e comando manuale.

Electrohydraulically operated solenoid valve with manual override.

Válvula electrohidráulica con solenoide y mando manual.

Vanne à commande électrique avec solénoïde et commande manuelle.



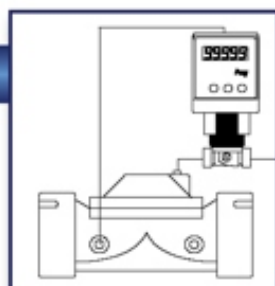
IM-PROG

Valvola con programmatore autonomo a batteria.

Battery controller operated valve.

Válvula hidráulica con programador autónomo.

Vanne hydraulique avec programmeur à piles.



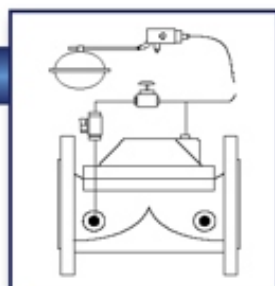
IM-GAL

Valvola di controllo livello a galleggiante modulante.

Modulating float control valve.

Válvula de control de nivel con flotador.

Vanne de contrôle de niveau à flotteur modulante.



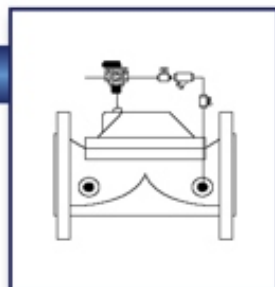
IM-NR

Valvola idraulica di non ritorno con velocità d'intervento regolabile.

Hydraulically operated check valve with adjustable closing speed control.

Válvula hidráulica de retención con rapidez de intervención ajustable.

Vanne hydraulique anti retour avec vitesse d'intervention réglable.





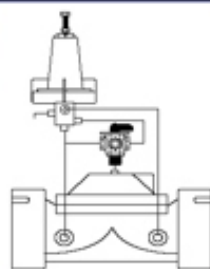
IM-RP3

Valvola riduttrice di pressione con pilota a 3 vie.

Pressure reducing control valve with 3 ways pilot.

Válvula reductora de presión aguas abajo con piloto de 3 vías.

Réducteur stabilisateur de pression aval avec pilote 3 voies.



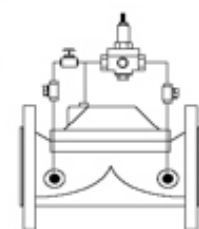
IM-RP2

Valvola riduttrice di pressione con pilota 2 vie.

Pressure reducing control valve with 2 ways pilot.

Válvula reductora de presión aguas abajo con piloto de 2 vías.

Réducteur stabilisateur de pression aval avec pilote 2 voies.



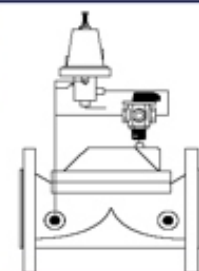
IM-SP3

Valvola di sostegno pressione di monte con pilota a 3 vie.

Pressure sustaining control valve with 3 ways pilot.

Válvula sostenedora de presión aguas arriba con piloto de 3 vías.

Mainteneur stabilisateur de pression amont avec pilote 3 voies.



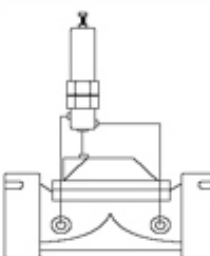
IM-SR

Valvola di scarico rapido contro il colpo d'ariete.

Quick relief valve against water hammer.

Válvula de alivio rápido contra el golpe de ariete.

Vanne de décharge rapide contre le coup de bélier.



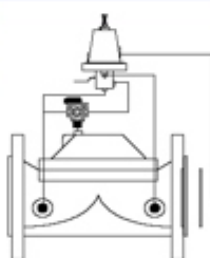
IM-QP

Valvola regolatrice di portata.

Rate-of-flow control valve.

Válvula limitadora de caudal.

Vanne de contrôle de débit.



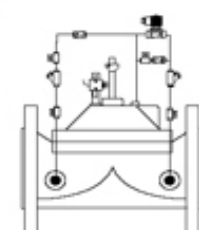
IM-CP

Valvola di controllo pompa.

Pump control valve.

Válvula de control de bomba.

Vanne de contrôle de pompe.



CARATTERISTICHE GENERALI/GENERAL FEATURES/CARACTERÍSTICAS GENERALES/CARACTÉRISTIQUES GÉNÉRALES

DIAMETRI/SIZES/DIÁMETROS/DIAMÈTRES: Threaded Ø 1"÷4" - Flanged DN 50÷DN 500

CONNESSIONI/END CONNECTIONS/CONEXIONES/CONNEXIONS:

FLANGIATO/FLANGED/BRIDAS/BRIDES: ISO - ANSI - BS - VICTAULIC STANDARD

FILETTATO/THREADED/ROSCAS/TARAUDAGES: BSP - NPT

PRESSIONI/PRESSURES/PRESIONES/PRESSIONS: min. 1,5 bar (22 psi) - max. 16 bar (225 psi)

Please contact us for lower & higher pressures

MATERIALI/MATERIALS/MATERIALES/MATÉRIAUX:

CORPO/BODY/CUERPO/CORPS: Cast Iron GG25 - Nodular Cast Iron GS 400 - Bronze - WCB

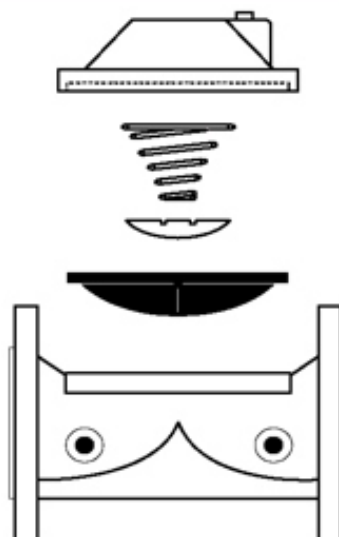
MEMBRANA/DIAPHRAGM/DIAFRAGMA/MEMBRANE: Natural Rubber - Nitrile, Nylon reinforced

MOLLA/SPRING/MUELLE/RESSORT: stainless steel

SUPPORTO MOLLA/SPRING SUPPORT/SOPORTE MUELLE/ASSISE DE RESSORT: plastic - metallic

BULLONERIA/BOLTS/TORNILLOS/BOULONS: galvanized steel - stainless steel

RIVESTIMENTO/COATINGS/RECUBRIMIENTO/REVÊTEMENT: epoxy - polyester



ALTRE ESECUZIONI DISPONIBILI SU RICHIESTA

OTHERS FEATURES AVAILABLE ON REQUEST/OTRAS REALIZACIONES DISPONIBLES SOBRE DEMANDA/AUTRES EXÉCUTIONS DISPONIBLES SUR DEMANDE

TECNIDRO PRODUCE ANCHE/TECNIDRO ALSO PRODUCE/TECNIDRO TAMBIEN FABRICA/TECNIDRO PRODUIT AUSSI

CONTATORI PER ACQUA

WATER METERS

CONTADORES DE AGUA

COMPTEURS D'EAU

VALVOLE DI REGOLAZIONE PN25

CONTROL VALVES PN25

VÁLVULAS DE REGULACIÓN PN25

VANNES DE REGULATION PN25

LIMITATORI DI PORTATA

FLOW LIMITERS

LIMITADORES DE CAUDAL

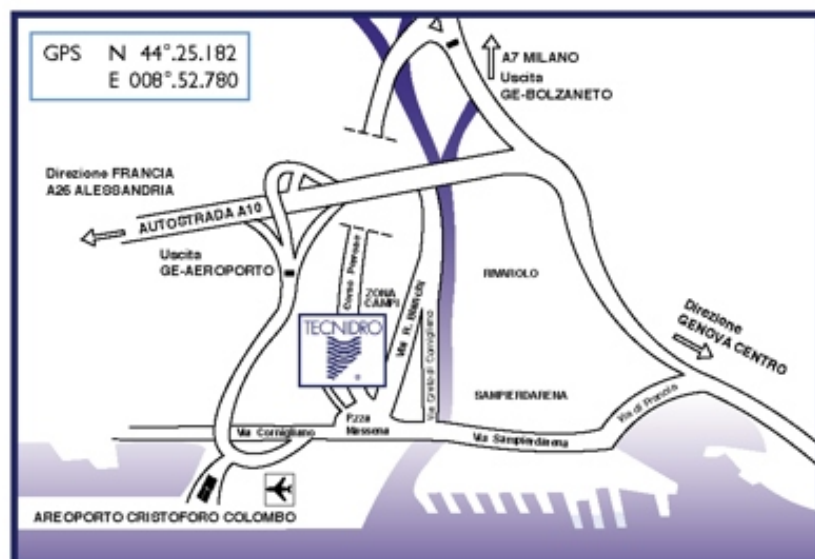
LIMITEURS DE DÉBIT

SISTEMI DI TELECONTROLLO

AUTOMATIC REMOTE CONTROLS

AUTOMATISMOS DE REDES

SYSTÈMES D'AUTOMATION CENTRALISÉS



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Distribuito da:

CARATTERISTICHE GENERALI - GENERAL FEATURES - CARACTERISTICAS GENERALES - CARACTERISTIQUES GENERALES

Corpo e Coperchio - Body and Cover Cuerpo y Tapa - Corps et Couvercle	GG25 Cast Iron
Verniciatura - Coating Pintura - Peinture	Epoxy - > 150 micron
Membrana - Diaphragm Membrana - Membrane	NR Nylon Reinforced
Molla - Spring Muelle - Ressort	AISI 302
Supporto Molla - Spring Support Soporte Muelle - Support Ressort	Polypropilene
Bulloni - Bolts Tornillos - Boulons	8.8 Galvanized Steel
Pressione Nominale - Nominal Pressure Presión Nominal - Pression Nominale	16,0 bar - 232,0 psi

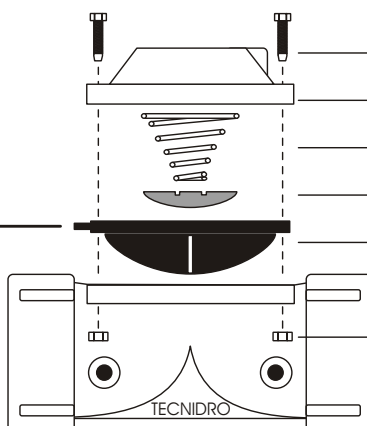
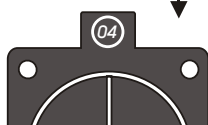


IDENTIFICAZIONE MEMBRANA
DIAPHRAGM IDENTIFICATION
IDENTIFICACION MEMBRANA
IDENTIFICATION MEMBRANE

Materiale e durezza
Material and hardness
Material y dureza
Materiel et dureté



Anno di fabbricazione
Year of production
Año de fabricación
Année de fabrication



ESPLOSO - SPARE PARTS
LISTA DE PARTES - PIECES DETACHEES

VITI - SCREWS - TORNILLOS - VIS

COPERCHIO - COVER - TAPA - COUVERCLE

MOLLA - SPRING - MUELLE - RESSORT

SUPPORTO - SUPPORT - SOPORTE - SUPPORT

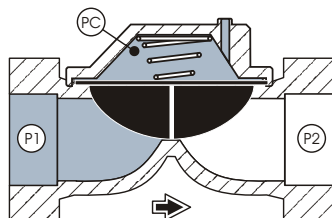
MEMBRANA - DIAPHRAGM - MEMBRANA - MEMBRANE

CORPO - BODY - CUERPO - CORPS

DADI - NUTS - TUERCAS - ECROUS

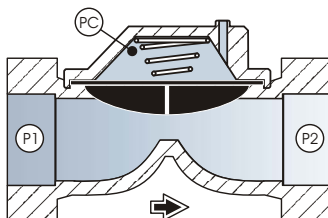
FUNZIONAMENTO - OPERATION - FUNCIONAMIENTO - FONCTIONNEMENT

VALVOLA CHIUSA
VALVE CLOSED
VALVULA CERRADA
VANNE FERMEE



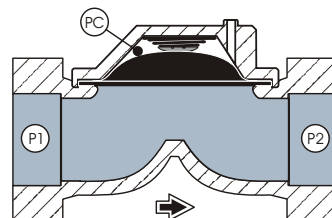
$P1 = PC > P2$

VALVOLA IN REGOLAZIONE
VALVE MODULATING
VALVULA EN REGULACION
VANNE EN REGULATION



$P1 > PC > P2$

VALVOLA APERTA
VALVE OPEN
VALVULA ABIERTA
VANNE OUVERTE



$P1 \approx P2 \quad PC = 0$

P1

Pressione di monte
Upstream pressure
Presión aguas arriba
Pression amont

P2

Pressione di valle
Downstream pressure
Presión aguas abajo
Pression aval

PC

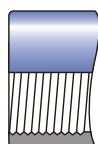
Pressione nella camera
Chamber pressure
Presión en la cámara
Pression dans la chambre



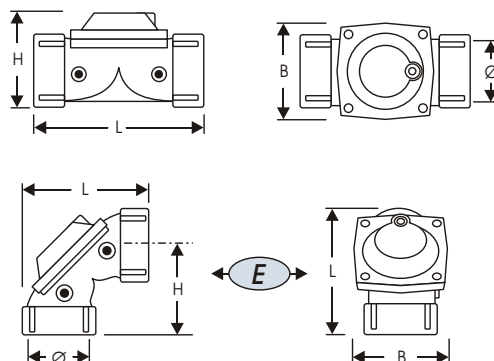
Direzione del flusso
Flow direction
Dirección del flujo
Direction du flux

DIMENSIONI & PESI - DIMENSIONS & WEIGHTS - DIMENSIONES & PESOS - DIMENSIONS & POIDS

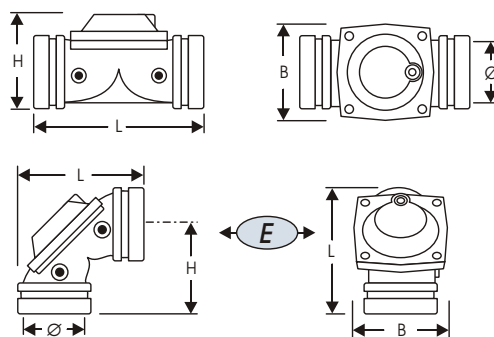
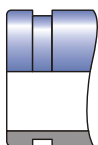
Filettato Threaded Roscado Taraudé	Ø	L	H	B	P
	Mod.	(mm)	(mm)	(mm)	(Kg)
	1"	116	50	70	1.5
	1"1/4	175	100	120	4.1
	1"1/2	175	100	120	3.7
	2"	175	100	120	3.5
	2"E	128	90	120	4.0
	2"1/2	200	115	120	4.5
	3"A	205	115	120	5.8
	3"C	230	135	165	8.0
	3"E	188	139	150	9.0
	3"F	285	170	210	15.0
	4"F	300	170	210	17.0



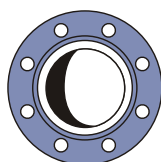
BSP - NPT



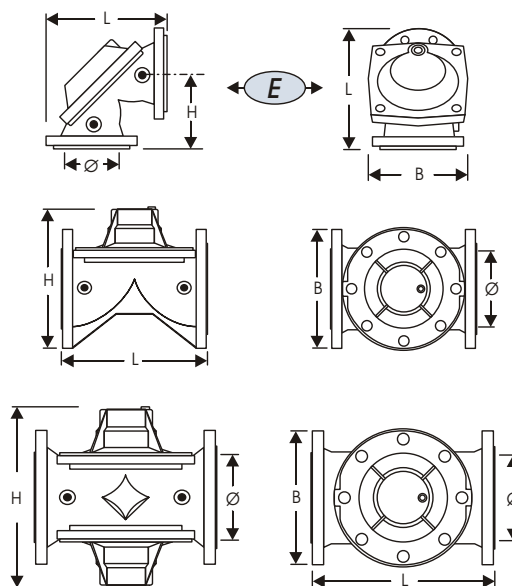
Scanalato Grooved Ranurado Victaulic	Ø	L	H	B	P
	Mod.	(mm)	(mm)	(mm)	(Kg)
	1"1/4V	175	100	120	4.1
	1"1/2V	175	100	120	3.7
	2"V	175	100	120	3.5
	2"1/2V	195	115	120	4.5
	3"AV	205	115	120	5.8
	3"CV	230	135	165	8.0
	3"EV	184	139	150	8.5
	4"FV	300	170	210	17.0
	4"EV	223	161	150	11.0



Flangiato Flanged Bridado Brides	Ø	L	H	B	P
	Mod.	(mm)	(mm)	(mm)	(Kg)
	DN 50	175	165	165	7.5
	DN 65	175	165	165	7.5
	DN 80	280	200	210	18.5
	DN 80P	220	200	200	11.0
	DN 80E	220	120	200	12.0
	DN 100	300	220	220	20.5
	DN100P	220	220	220	13.0
	DN100E	245	135	220	14.0
	DN 125	325	250	250	24.5
	DN 150	350	320	320	46.0
	DN 200	400	340	340	50.0
	DN 250	450	470	405	90.0
	DN 300	500	500	460	135.0
	DN 350	550	520	520	155.0
	DN 400	600	580	580	170.0
	DN 500	700	680	680	195.0



ISO PN16/10
ANSI 150
BS Table D



Le caratteristiche dimensionali possono essere variate in ogni momento senza preavviso.

Dimensional features may be changed at any time without notice.

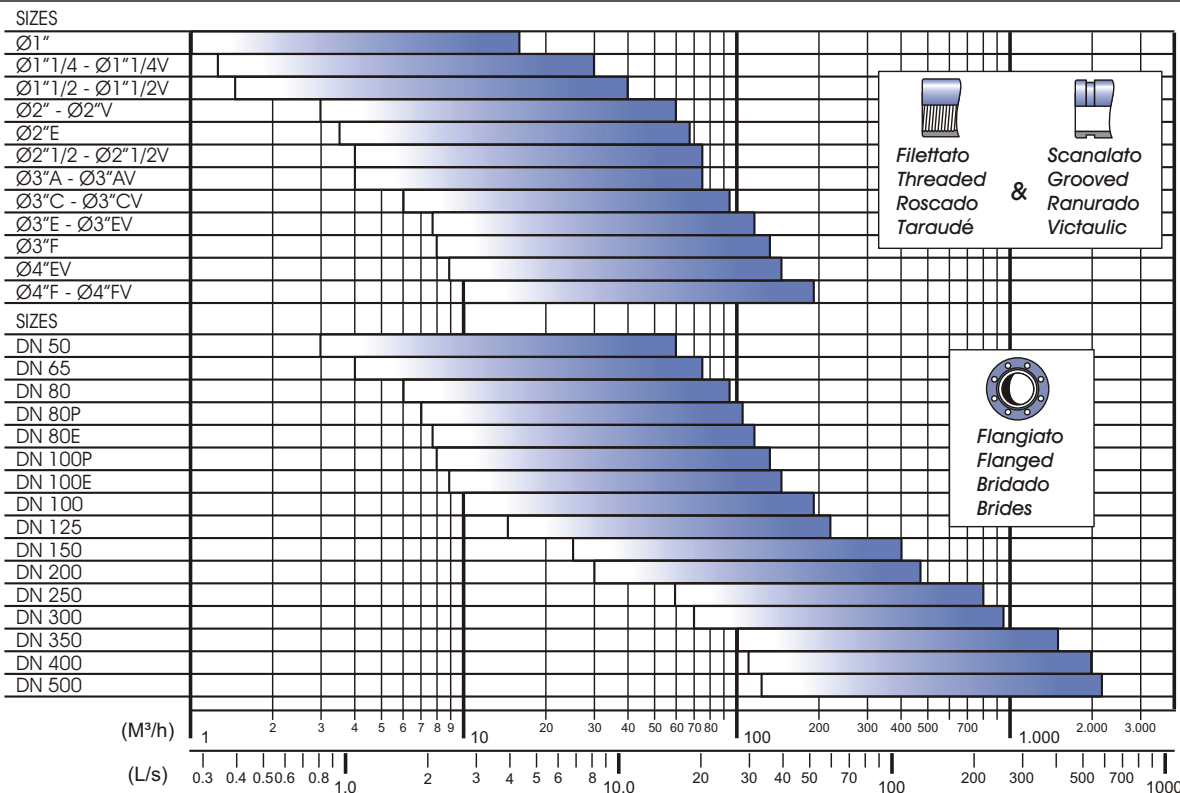
Las características dimensionales pueden variar en cualquier momento sin preaviso.

Les caractéristiques dimensionnelles peuvent varier en tout temps sans préavis.



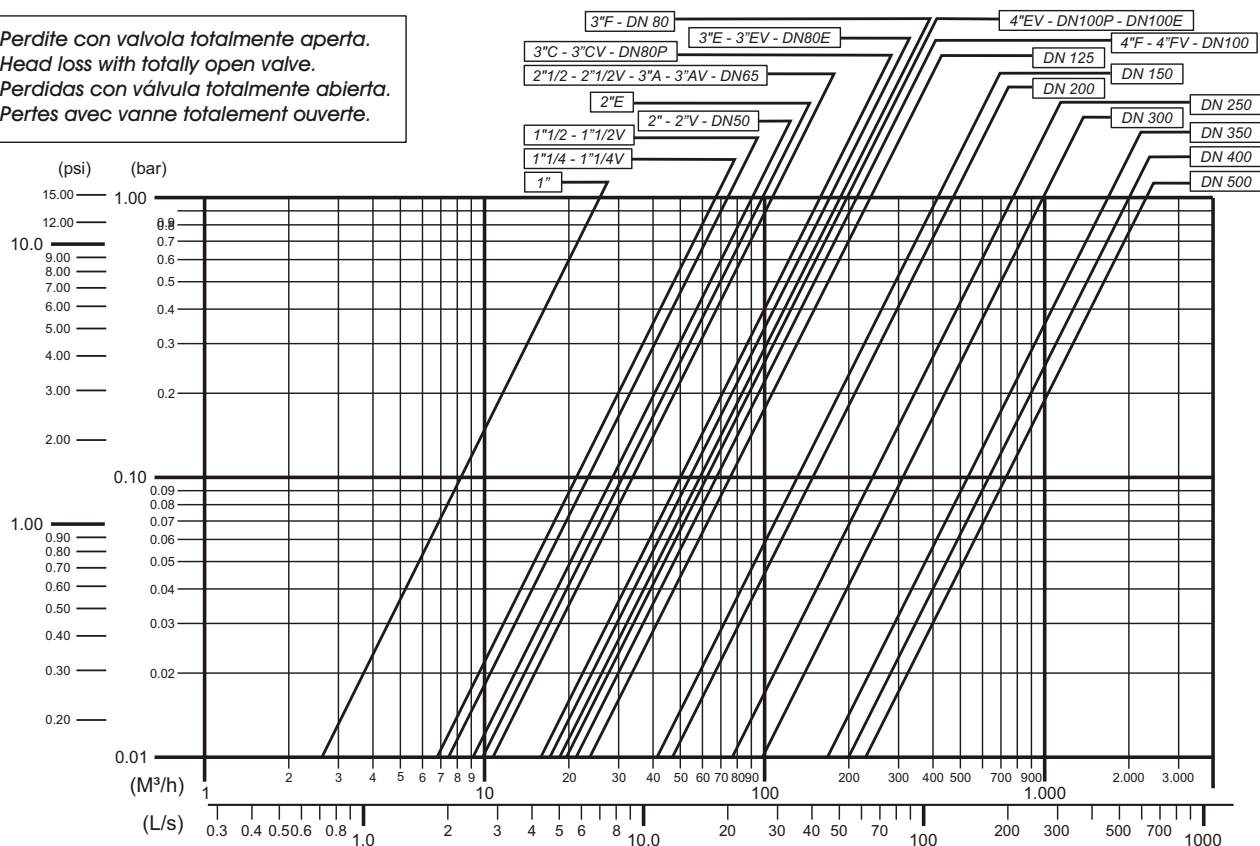
Valvole ad angolo
Elbow type valves
Válvulas en codo
Vannes en coude

PORTATE CONSIGLIATE - FLOW RATES RECOMMENDED - CAUDALES RECOMENDADOS - DEBITS CONSEILLES



PERDITE DI CARICO - HEAD PRESSURE LOSS - PERDIDAS DE CARGA - PERTES DE CHARGE

Perdite con valvola totalmente aperta.
Head loss with totally open valve.
Perdidas con válvula totalmente abierta.
Pertes avec vanne totalement ouverte.



CAMPI DI ESERCIZIO - OPERATION RANGES - RANGOS DE TRABAJO - PLAGES D'EXERCICE

DIAMETRO VALVOLA VALVE SIZE DIAMETRO VALVULA DIAMETRE VANNE	Tipo Type Tipo Type	MEMBRANA DIAPHRAGM MEMBRANA MEMBRANE (Cod.) (Sh)	MOLLA SPRING MUELLE RESSORT (Cod.) (Ø)	P min (bar) (psi)	P max (bar) (psi)
1"	ST	RIMMEM070NR50 50	- -	0.8 11.6	16.0 232.0
1 1/4 - 1 1/2 - 2" - 2"E - 2 1/2 - 3"A 1 1/4V - 1 1/2V - 2"V - 2 1/2V - 3"AV DN50 - DN65	LP	RIMMEM113NR40 40	RIMMOL0203020 20	0.6 8.7	6.0 87.0
	ST	RIMMEM113NR60 60	RIMMOL0203020 20	1.5 21.7	16.0 232.0
	HP	RIMMEM113NR75 75	RIMMOL0203030 30	2.3 33.4	16.0 232.0
3"C - 3"E - 3"CV - 3"EV - 4"EV DN80P - DN80E - DN100P - DN100E	LP	RIMMEM150NR50 50	RIMMOL030C045 45	0.9 13.0	6.0 87.0
	ST	RIMMEM150NR60 60	RIMMOL030C045 45	1.5 21.7	16.0 232.0
3"F - 4"F - 4"EV DN80 - DN100 - DN125	LP	RIMMEM200NR50 50	RIMMOL8010050 50	0.7 10.2	6.0 87.0
	ST	RIMMEM200NR70 70	RIMMOL8010060 60	1.7 24.6	16.0 232.0
DN150 - DN200	LP	RIMMEM294NR50 50	RIMMOL1520050 50	0.7 10.2	6.0 87.0
	ST	RIMMEM294NR70 70	RIMMOL1520080 80	1.4 20.3	16.0 232.0
DN250 - DN300 DN350 - DN400 - DN500 (*)	LP	RIMMEM380NR50 50	RIMMOL2540080 80	0.8 11.6	6.0 87.0
	ST	RIMMEM380NR70 70	RIMMOL2540100 100	1.4 20.3	16.0 232.0

P min Pressione minima di apertura - Minimum opening pressure - Presión mínima de abertura - Pression minimum d'ouverture

P max Pressione massima di esercizio - Maximum working pressure - Presión máxima de trabajo - Pression maximale d'exercice

(Cod.) Codice di identificazione - Identification code - Código de identificación - Code d'identification

(Sh) Durezza in Shore - Hardness in Shore - Dureza en Shore - Dureté en Shore

LP Bassa pressione - Low pressure - Presión baja - Basse pression

(Ø) Diametro del filo - Wire size - Diámetro del hilo - Diamètre du fil

ST Standard - Standard - Estandar - Standard

(*) Due membrane - Two diaphragms - Dos membranas - Deux membranes

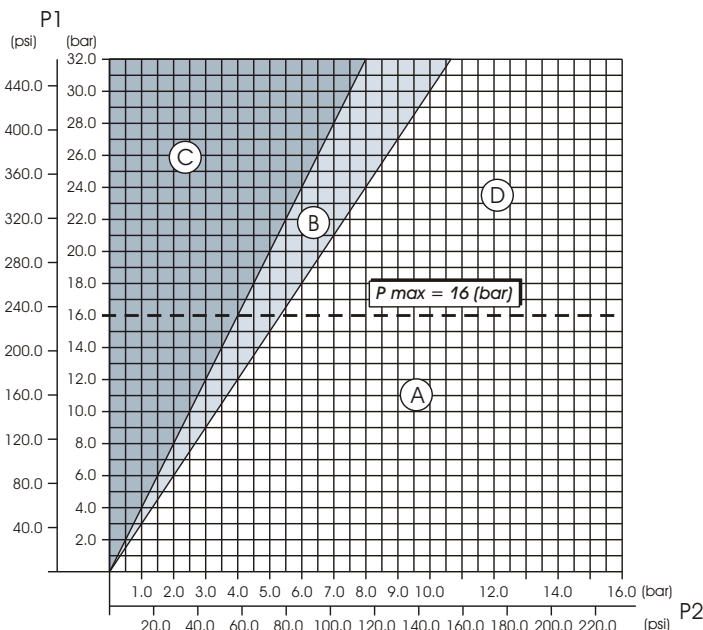
HP Alta pressione - High pressure - Presión alta - Haute pression

CURVA DI CAVITAZIONE - CAVITATION CURVE - CURVA DE CAVITACION - COURBE DE CAVITATION

- ZONE (A) Zona di esercizio corretta
Proper working zone
Zona de trabajo correcta
Zone d'exercice correcte
- ZONE (B) Basso rischio di cavitazione
Cavitation's low risk
Bajo riesgo de cavitación
Risque de cavitation bas
- ZONE (C) Rischio di cavitazione elevato
Cavitation's high risk
Riesgo de cavitación elevado
Risque de cavitation élevé
- ZONE (D) Pressione di esercizio eccessiva
Exceeded working pressure
Presión de trabajo excesiva
Pression d'exercice excessive

P1 Pressione di monte
Upstream pressure
Presión aguas arriba
Pression amont

P2 Pressione di valle
Downstream pressure
Presión aguas abajo
Pression aval



MINIPILOTA 3 VIE RP3/SP3/QP3

3 WAY MINIPILOT RP3/SP3/QP3
MINIPILOTO DE 3 VIAS RP3/SP3/QP3
MINIPILOTE 3 VOIES RP3/SP3/QP3

CARATTERISTICHE GENERALI - GENERAL FEATURES - CARACTERISTICAS GENERALES - CARACTERISTIQUES GENERALES

RP3B/RP3P

Riduttore di Pressione
Pressure Reducing
Reductor de Presión
Réducteur de Pression

SP3B/SP3P

Sostegno di Pressione
Pressure Sustaining
Sostenedor de Presión
Mainteneur de Pression

QP3B/QP3P

Regolatore di Portata
Flow Rate Regulating
Limitador de caudal
Régulateur de Débit

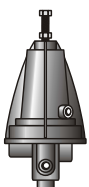
B

Corpo Metallico
Metallic Body
Cuerpo Metálico
Corps Métallique

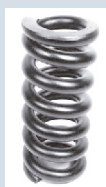


P

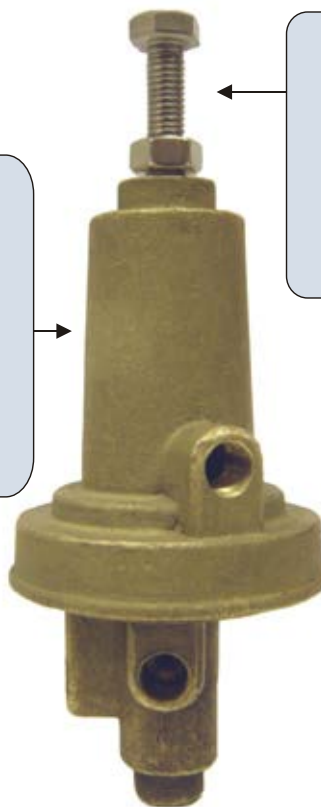
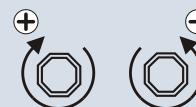
Corpo Plastica
Plastic Body
Cuerpo Plástico
Corps Plastique



Molla intercambiabile
Interchangeable spring
Muelle intercambiabile
Ressort interchangeable

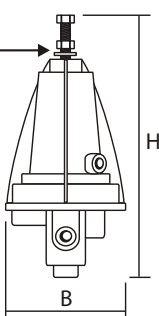


Vite di regolazione
Adjustment screw
Tornillo de ajuste
Vis de réglage



CARATTERISTICHE TECNICHE - TECHNICAL FEATURES - CARACTERISTICAS TECNICAS - CARACTERISTIQUES TECHNIQUES

Rondella di identificazione
Identification washer
Arandela de identificación
Rondelle d'identification



Colore Colour Color Couleur	 Grigio Grey Gris Gris	 Bianco White Blanco Blanc	 Rosso Red Rojo Rouge	 Nero Black Negro Noir
Durezza - Hardness Dureza - Dureté				
Pressioni di esercizio Working pressures Presiones de trabajo Pressions de service	P Min. 0.5 (bar) / 7.3 (psi) Max. 10.0 (bar) / 145.0 (psi)		B Min. 0.5 (bar) / 7.3 (psi) Max. 16.0 (bar) / 232.0 (psi)	
Campi di regolazione Regulation ranges Rangos de regulación Plages de régulation	0.2 ÷ 1.5 (bar) 2.9 ÷ 21.7 (psi)	0.2 ÷ 3.0 (bar) 2.9 ÷ 43.5 (psi)	1.0 ÷ 5.5 (bar) 14.5 ÷ 79.8 (psi)	1.0 ÷ 9.0 (bar) 14.5 ÷ 130.5 (psi)
Sensibilità Sensitivity Sensibilidad Sensibilité	± 0.2 (bar) ± 2.9 (psi)	± 0.2 (bar) ± 2.9 (psi)	± 0.2 (bar) ± 2.9 (psi)	± 0.2 (bar) ± 2.9 (psi)
Peso Weight Peso Poids	P 0.5 (kg) 1.1 (lbs)		B 0.8 (kg) 1.76 (lbs)	
Dimensioni Dimensions Dimensiones Dimensions	H = 122.0 (mm)		B = 62.0 (mm)	