VIR®

flowing ideas



CATALOGUE 2022

flowing ideas

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The force of a group that makes ideas flow

VIR was established in 1971 in Valduggia in the province of Vercelli, in the heart of the Cusio-Valsesia district. VIR – Valvoindustria Ing. Rizzio S.p.A., has its roots in the local tradition of bronze casting for the artisan production of bells and is perfectly integrated in a territory which is rated today amongst the major Italian valve and tap manufacturing centres.

VIR today is an international company with offices in three continents: in Europe, with its historical headquarters in the town of Valduggia (with three separate sites: the production, the warehouse and the foundry together with the plastic division); in North America with Red-White Valve Corp.; in Asia with its plant in Taizhou and its sales office in Shanghai, and in the Middle East with the Dubai office and warehouse. Fifty years of presence in the market, together with the creation of a new logistic centre in Valduggia in 2001, have made the VIR group an extremely competitive company, close to its customers' needs.





Our DNA

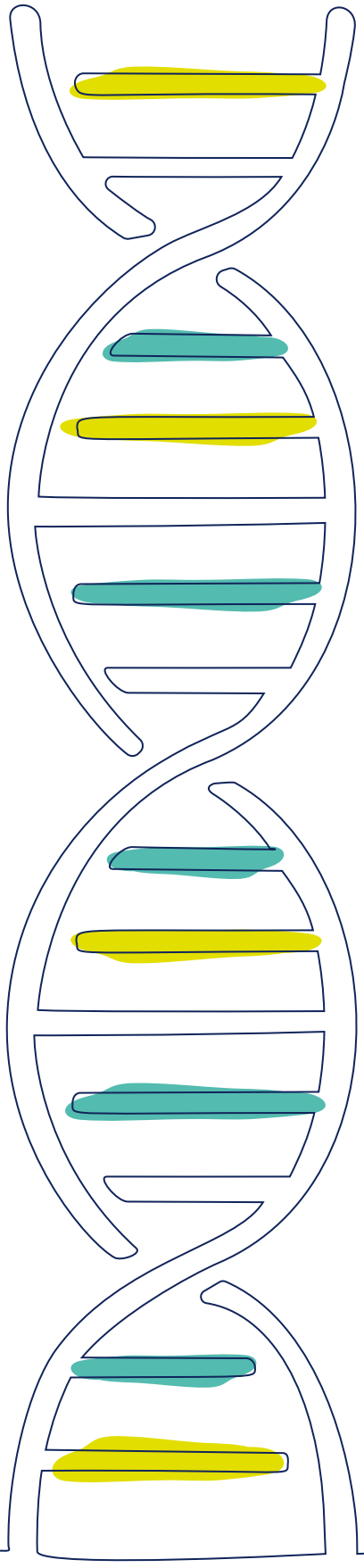
Started as a family business and now a successful international group, VIR has shaped its growth on the fundamental principles that have made it a dynamic business aware of the market needs.

VIR's great experience in control valves has its roots in a highly advanced technical department of fluid dynamics and in the location of its historical headquarters in the heart of the Cusio-Valsesia area, known for its expertise in metalworking, firstly thanks to the traditional local production of bronze bells and then that of valves and taps.

The high quality of the Made in Italy products is to be found in carefully studied solutions, which are realized to meet specific customer needs or designed by the technical department in order to anticipate market demands.

The key to innovation is reflected in the choice of materials: for over thirty years VIR has been dealing with drinking water contamination prevention, first with the introduction of DZR brass (dezincification resistant), then with the production of certified low-lead alloy valves and the possibility for its customers to also have traditional valves in the same alloy.

The next step, always in line with the constant attention to quality and innovation, will be the creation of the new Technological Centre in Valduggia.



BIM

BIM (Building Information Modeling) is the process which allows one to generate a digital model of a building, including several data such as structure, systems, foreseen furniture elements and so on.



The advantages of making a digitalized model are many. The digitalized model can become the keystone of cooperation between all the stakeholders of the building (system builders, architects, owners, and so on).

This allows for example:

- to verify how the various systems (electrics, heating/air conditioning, plumping, etc.) interact with one another, highlighting any problems and collisions that might arise between them;
- to make a "what if" analysis in support of decisions, evaluating at an early stage (when the cost of a change is lower) different technical solutions and/or layout alternatives.

Each actor involved provides his piece of information to a centralized digital model, thus making it available to any other participant in the project who may need it.

While BIM is a concept, it has to be supported by actual informatics tools allowing for the modelling of the buildings in the terms described. These tools have to be supported by a common file format, which allows to import into the building model all the parts coming from different sources.

VIR is BIM ready and offers a selection of families representing the most commonly used products in medium and large scale projects, which are increasingly being carried out following the BIM philosophy. These models can be downloaded on our website **www.vironline.com**



References



BOSCO VERTICALE MILANO ITALY – 2013 Heating/cooling system

GALLERIA UFFIZI FIRENZE ITALY - 2009 Heating/cooling system



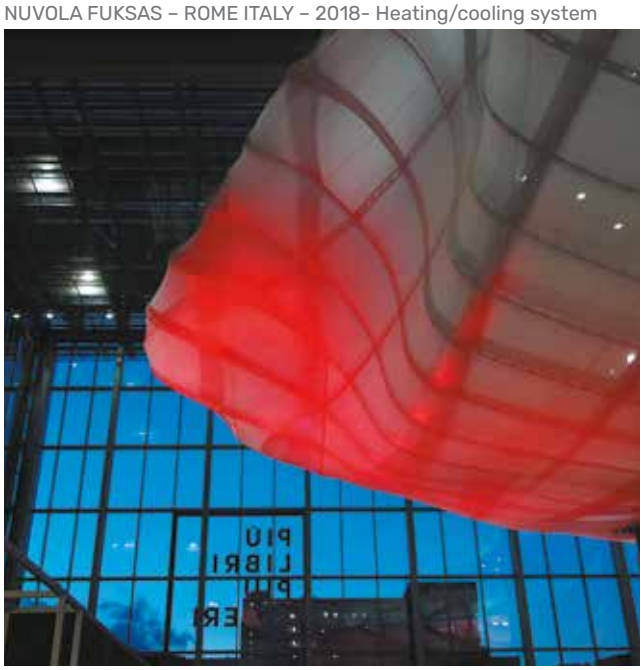


viz® flowing ideas



CITY LIFE MILANO ITALY – 2014 - Central heating/cooling + distribution

NUVOLA FUKSAS – ROME ITALY – 2018- Heating/cooling system





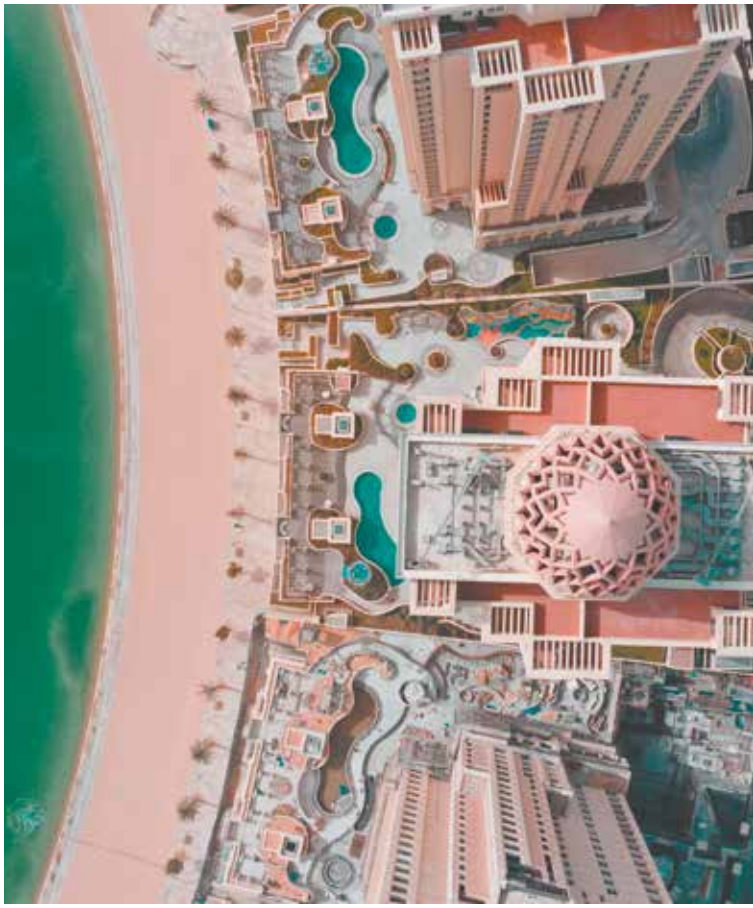
LAMBORGHINI - MODENA ITALY - 2016 Heating/cooling system

FONDAZIONE FENDI - PALAZZO DELLE CIVILTÀ ROMA ITALY – 2014 Heating/cooling system





FAIRMONT HOTEL DUBAI - UAE – 2012 Heating/cooling system



THE PEARL DOHA QATAR – 2008 Heating/cooling system

CAPE TOWN STADIUM SOUTH AFRICA – 2009 - Cooling system



DODGERS STADIUM LOS ANGELES – CALIFORNIA USA – 2013 – Retrofit





HONG KONG MUSEUM OF ART – HONG KONG CHINA – 2017
- Heating/cooling system



MGM HOTEL MACAU – CHINA – 2017 - Heating/cooling system



VENETIAN CASINO MACAU - CHINA – 2017 - Heating/cooling system

CENTAURUS TOWERS ISLAMABAD PAKISTAN – 2012 - Central heating/cooling + distribution



VIR's quality is certified

EN331 - Europe

TR CU 010 - Russia, Belarus and Kazakhstan

STF - Finland

ACS - France

IAPMO - USA

VA - Denmark

UL - USA, Canada

FM - USA

CSA - USA, Canada

NSF 61 e 372 - USA, Canada

WRAS - UK

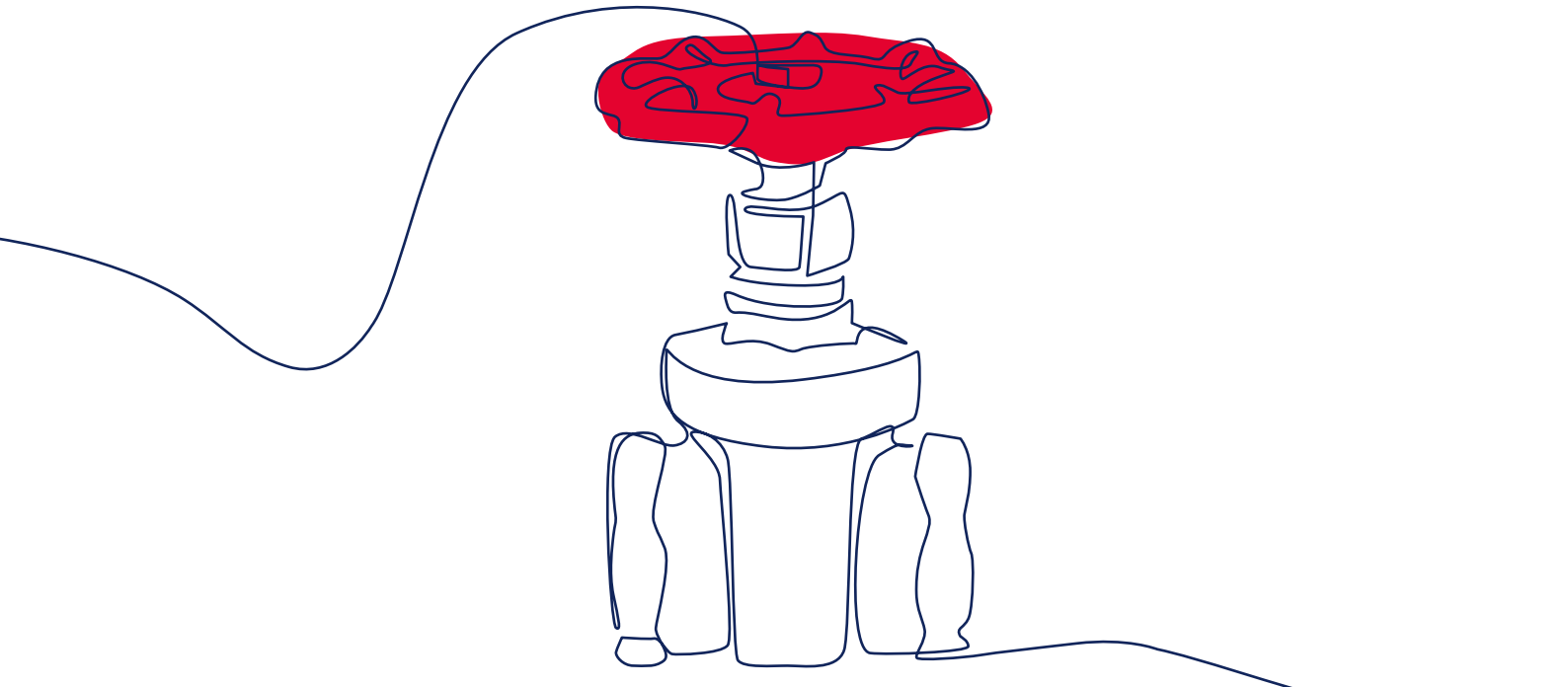
GDV - Denmark

SINTEF - Norway

Water Supplies Department - Hong Kong

TSSA - Canada

CE PED - Europe



VIR’s customer satisfaction

VIR, strengthened by a solid know-how and fuelled by a constant flow of ideas, designs and produces innovative, high quality valves, thus allowing an adequate and competitive offer to their customers and the most demanding markets.

VIR will be the future protagonist of systems increasingly aimed at energy saving and the preservation of water and its quality, with modular and easy-to-connect installation solutions.







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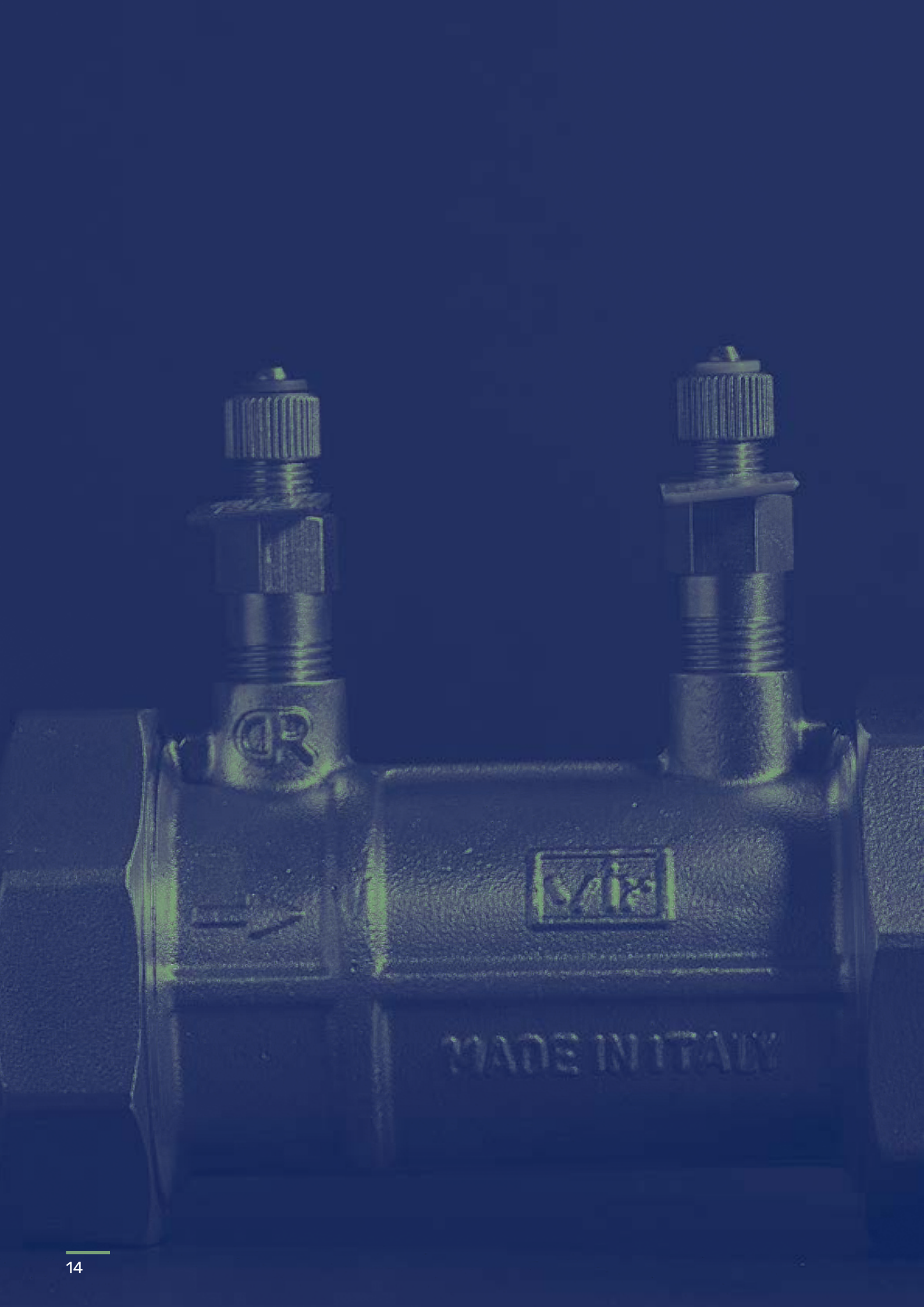
GAS

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POLYPROPYLENE

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MADE IN ITALY


KA9700001.800
24V~/= 50/60Hz
1.5W 2.5VA
130N (29 lb)
8s/mm
IP54 T50
Feedback
CAUTION: Disconnect power supply before servicing
BLK
RED
GRY
GRN
1
2
3
4
ITALY
351

BALANCING

STATIC BALANCING VALVES

9505 Variable orifice bronze double reg. valve PN25



Threaded F/F (ISO 228/1)
Bronze body, inner components and test points in DZR brass
PTFE disc gasket, EPDM Perox O-rings
ABS handwheel, supplied with allen key for setting
Working conditions: Water, -10°C to +130°C
Max 25bar up to 110°C, max 20bar above

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F9505B010.946	010 - 3/8"	15	482	7,2
F9505B015.946	015 - 1/2"	15	544	8,2
F9505B020.946	020 - 3/4"	15	586	8,8
F9505B025.946	025 - 1"	10	722	7,2
F9505B032.946	032 - 1 1/4"	10	1105	11,1
F9505B040.946	040 - 1 1/2"	8	1493	11,9
F9505B050.946	050 - 2"	5	2030	10,2

STF version available on request

9515 Fixed orifice DZR brass double reg. valve PN25



Threaded F/F (ISO 228/1 for DN15/20, ISO7/1 Rp above)
Body, inner components and test points in DZR brass
PTFE disc gasket, EPDM Perox O-rings
ABS handwheel, supplied with allen key for setting
DN15 also for low (L), very low (U) and ultra low flows (X)
Working conditions: Water, -10°C to +130°C
Max 25bar up to 110°C, max 20bar above

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F95V04015.1094	X 015 - X 1/2"	15	585	8,8
F95V03015.1094	U 015 - U 1/2"	15	585	8,8
F95V02015.1094	L 015 - L 1/2"	15	585	8,8
F95V01015.1094	015 - 1/2"	15	582	8,7
F95V01020.1094	020 - 3/4"	10	644	6,4
F95V01025.870	025 - 1"	10	766	7,7
F95V01032.870	032 - 1 1/4"	8	1265	10,1
F95V01040.870	040 - 1 1/2"	6	1583	9,5
F95V01050.870	050 - 2"	5	2172	10,9

Version with copper pipe adaptors on request

9585 Fixed orifice bronze double reg. valve PN25



Threaded F/F (ISO 228/1 for DN15/20, ISO7/1 Rp above)
Bronze body, inner components and test points in DZR brass
PTFE disc gasket, EPDM Perox O-rings
ABS handwheel, supplied with allen key for setting
DN15 also for low (L) and very low flows (U)
Working conditions: Water, -10°C to +130°C
Max 25bar up to 110°C, max 20bar above

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F95Z03015.2039	U 015 - U 1/2"	15	573	8,6
F95Z02015.2039	L 015 - L 1/2"	15	571	8,6
F95Z01015.2039	015 - 1/2"	15	566	8,5
F95Z01020.2039	020 - 3/4"	10	630	6,3
F95Z01025.2033	025 - 1"	10	801	8,0
F95Z01032.2033	032 - 1 1/4"	8	1317	10,5
F95Z01040.2033	040 - 1 1/2"	6	1683	10,1
F95Z01050.2033	050 - 2"	5	2274	11,4

Version with copper pipe adaptors on request

9525 DZR Brass ON/OFF terminal balancing valve PN20



Threaded F/F (ISO 228/1 for DN15/20, ISO7/1 Rp above)
Body, inner components and test points in DZR brass
Disc gasket and O-rings in EPDM Perox
ABS ON/OFF cap, may be used with Vaurien actuator
DN15 also in low flow version (L)
Working conditions: Water, -10°C to +130°C
Max 20bar up to 80°C, max 10bar at 130°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F95E0L015.1934	L 015 - L 1/2"	20	360	7,2
F95E00015.1934	015 - 1/2"	20	340	6,8
F95E00020.1934	020 - 3/4"	20	520	10,4
F95E00025.1934	025 - 1"	20	640	12,8

EAC WRAS

Vaurien 100N only for L-DN15, DN15 and DN20, Vaurien 125N for all DNs

VAURIEN Linear thermoelectric actuator



Supply voltage: 24V AC/DC or 230VAC
M30x1,5mm threaded nut with fast connection
Enclosure protection: IP54
2 points control
Stroke time: about 3 to 5 minutes
Normally closed (NC)
Normally open (NO) version available on request

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
230VAC version				
KA952AT50.800	100N	1	115	0,1
KA952AT05.800	125N	1	110	0,1
24V AC/DC version				
KA952AT52.800	100N	1	115	0,1
KA952AT07.800	125N	1	110	0,1

CE

9535 Variable orifice DZR brass double reg. valve PN20



Threaded F/F (ISO 228/1 for DN15/20, ISO7/1 Rp above)
Body, inner components and test points in DZR brass
Disc gasket and O-rings in EPDM Perox
ABS handwheel, supplied with allen key for setting
DN15 also in low flow version (L)
Working conditions: Water, -10°C to +130°C
Max 20bar up to 80°C, max 10bar at 130°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F95EBL015.2028	L 015 - L 1/2"	20	350	7,0
F95EB0015.2028	015 - 1/2"	20	390	7,8
F95EB0020.2028	020 - 3/4"	20	510	10,2
F95EB0025.2028	025 - 1"	20	650	13,0

EAC WRAS

STATIC BALANCING VALVES

9555P

Cast iron double reg. valve with test points **PN16**



Flanged PN16 (EN1092-2)
Cast Iron body
Brass inner components, EPDM O-ring gaskets
Composite material regulating disc
Polyamid handwheel
Supplied with 2 test points in DZR brass (unmounted)
Working conditions: Water, -10°C to +110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F9500I040.1959	040 - 1 1/2"	1	6100	6,1
F9500I050.1959	050 - 2"	1	8300	8,3
F9500I065.1959	065 - 2 1/2"	1	13400	13,4
F9500I080.1959	080 - 3"	1	17500	17,5
F9500I100.1959	100 - 4"	1	24000	24,0
F9500I125.1959	125 - 5"	1	34000	34,0
F9500I150.1959	150 - 6"	1	48500	48,5
F9500I200.1959	200 - 8"	1	114500	114,5
F9500I250.1959	250 - 10"	1	159000	159,0
F9500I300.1959	300 - 12"	1	210500	210,5
F9500I350.3161	350 - 14"	1	375000	375,0
F9500I400.3161	400 - 16"	1	510000	510,0
Spare handwheel				
KXV955040.2220	40-50	1	40	0,0
KXV955065.2220	65-150	1	118	0,1
KXV955200.2220	200-300	1	1000	1,0
KXV955350.2220	350-400	1	1850	1,9

9565P

Cast iron double reg. valve with orifice plate **PN16**



Flanged PN16 (EN1092-2)
Cast Iron body
Brass inner components, EPDM O-ring gaskets
Composite material regulating disc
Polyamid handwheel
Supplied with SS316 stainless steel orifice plate
Working conditions: Water, -10°C to +110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
9555P+9450	040 - 1 1/2"	1	7072	7,1
9555P+9450	050 - 2"	1	9442	9,4
9555P+9450	065 - 2 1/2"	1	14868	14,9
9555P+9450	080 - 3"	1	19262	19,3
9555P+9450	100 - 4"	1	25967	26,0
9555P+9450	125 - 5"	1	36560	36,6
9555P+9450	150 - 6"	1	51450	51,5
9555P+9450	200 - 8"	1	118640	118,6
9555P+9450	250 - 10"	1	164350	164,4
9555P+9450	300 - 12"	1	217330	217,3
9555P+9450	350 - 14"	1	387400	387,4
9555P+9450	400 - 16"	1	524500	524,5

9555J Variable orifice cast iron double regulating valve grooved PN16



Grooved (ANSI/AWWA C606 / Metric)
Cast Iron body
EPDM O-ring gaskets
Balancing cone in Ductile Iron
Supplied with 2 test points in DZR brass
Working conditions: Water, -10°C to +110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F9555J040.3210	040 - 1 1/2"	1	5800	5,8
F9555J050.3210	050 - 2"	1	9000	9,0
F9555J065.3210	065 - 2 1/2"	1	10800	10,8
F9555J080.3210	080 - 3"	1	26800	26,8
F9555J100.3210	100 - 4"	1	27400	27,4
F9555J125.3210	125 - 5"	1	52750	52,8
F9555J150.3210	150 - 6"	1	63800	63,8
F9555J200.3210	200 - 8"	1	161000	161,0
F9555J250.3210	250 - 10"	1	252000	252,0
F9555J300.3210	300 - 12"	1	310000	310,0

EAC

9595 Stainless steel balancing ball valve PN40



Flanged PN40 for DN≤50, PN16 above (EN1092-1)
Body and ball in stainless steel SS316
FPM stem seal, PTFE seats
PN16 for DN≥65
Working conditions: Water, -30°C to 200°C
DN≤50, max 40bar up to 90°C, max 0bar at 200°C
DN≥65, max 16bar up to 156°C, max 0bar at 200°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F95950015.1775	015 - 1/2"	1	2200	2,2
F95950020.1775	020 - 3/4"	1	2600	2,6
F95950025.1775	025 - 1"	1	3100	3,1
F95950032.1775	032 - 1 1/4"	1	4700	4,7
F95950040.1775	040 - 1 1/2"	1	5900	5,9
F95950050.1775	050 - 2"	1	7600	7,6
F95950065.1775	065 - 2 1/2"	1	9800	9,8
F95950080.1775	080 - 3"	1	11300	11,3
F95950100.1775	100 - 4"	1	15000	15,0
F95950125.1775	125 - 5"	1	22000	22,0
F95950150.1775	150 - 6"	1	30400	30,4
F95950200.1775	200 - 8"	1	51000	51,0
F95950250.1775	250 - 10"	1	100000	100,0

EAC CE

9594 Stainless steel balancing ball valve PN40



Welding ends
Body and ball in stainless steel SS316
FPM stem seal, PTFE seats
PN25 for DN≥65
Working conditions: Water, -30°C to 200°C
DN≤50, max 40bar up to 90°C, max 0bar at 200°C
DN≥65, max 25bar up to 131°C, max 0bar at 200°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F95940015.1215	015 - 1/2"	1	900	0,9
F95940020.1215	020 - 3/4"	1	900	0,9
F95940025.1215	025 - 1"	1	1100	1,1
F95940032.1215	032 - 1 1/4"	1	1300	1,3
F95940040.1215	040 - 1 1/2"	1	2100	2,1
F95940050.1215	050 - 2"	1	2600	2,6
F95940065.1215	065 - 2 1/2"	1	4300	4,3
F95940080.1215	080 - 3"	1	5200	5,2
F95940100.1215	100 - 4"	1	7200	7,2
F95940125.1215	125 - 5"	1	11500	11,5
F95940150.1215	150 - 6"	1	16400	16,4
F95940200.1215	200 - 8"	1	36000	36,0
F95940250.1215	250 - 10"	1	71000	71,0

EAC CE

STATIC BALANCING VALVES

9400 DZR brass metering station PN25



Threaded M/F ISO7/1 Rp (F side ISO 228/1 on DN15 and DN20)
Body and Venturi insert in DZR brass
EPDM/NBR test point gaskets
DN15 also for low (L), very low (U) and ultra low flows (X)
Working conditions: Water, -10°C to +130°C
Max 25bar up to 110°C, max 20bar above

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F95MS4015.1096	X 015 - X 1/2"	25	218	5,5
F95MS3015.1096	U 015 - U 1/2"	25	218	5,5
F95MS2015.1096	L 015 - L 1/2"	25	216	5,4
F95MS1015.1096	015 - 1/2"	25	213	5,3
F95MS1020.1096	020 - 3/4"	25	254	6,4
F95MS1025.707	025 - 1"	15	353	5,3
F95MS1032.707	032 - 1 1/4"	15	463	6,9
F95MS1040.707	040 - 1 1/2"	10	531	5,3
F95MS1050.707	050 - 2"	10	755	7,6

Version with copper pipe adaptors on request

9450 Stainless steel orifice plate PN16



Wafer type suitable for EN1092 PN16 flanges
SS316 stainless steel body (SS304 for DN≥450)
Supplied with extensions and test points
PN10 for DN≥350
Working conditions: Water, -10°C to +110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F94500040.1073	040 - 1 1/2"	1	972	1,0
F94500050.1073	050 - 2"	1	1142	1,1
F94500065.1073	065 - 2 1/2"	1	1468	1,5
F94500080.1073	080 - 3"	1	1762	1,8
F94500100.1073	100 - 4"	1	1967	2,0
F94500125.1073	125 - 5"	1	2560	2,6
F94500150.1073	150 - 6"	1	2950	3,0
F94500200.1073	200 - 8"	1	4140	4,1
F94500250.1073	250 - 10"	1	5350	5,4
F94500300.1073	300 - 12"	1	6830	6,8
F94500350.1073	350 - 14"	1	12400	12,4
F94500400.1073	400 - 16"	1	14500	14,5
F94500450.2383	450 - 18"	1	17000	17,0
F94500500.2383	500 - 20"	1	21000	21,0
F94500600.2383	600 - 24"	1	35000	35,0

DYNAMIC BALANCING VALVES

9900P

DZR brass automatic balancing valve **PN25**



Threaded F/F union ends (ISO 7/1 Rp)
With metallic cartridges from 0,02l/s to 2,6l/s
2 available ΔP ranges (up to max 440kPa depending on DN)
DZR brass body and cartridge
Working conditions: Water, -10°C to +130°C
Max 25bar up to 110°C, max 20bar above

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F990P0015.2281	015 - 1/2"	25	293	7,3
F990P0H15.2281	H 015 - H 1/2"	25	443	11,1
F990P0L20.2281	L 020 - L 3/4"	25	365	9,1
F990P0020.2281	020 - 3/4"	25	401	10,0
F990P0025.2281	025 - 1"	25	588	14,7
F990P0032.2281	032 - 1 1/4"	10	1342	13,4
F990P0040.2281	040 - 1 1/2"	10	1493	14,9
F990P0050.2281	050 - 2"	10	2027	20,3

EAC

9905V

DZR brass automatic bal. valve with test points **PN25**



Threaded F/F union ends (ISO 7/1 Rp)
With metallic cartridges from 0,02l/s to 9,7l/s
2 available ΔP ranges (up to max 440kPa depending on DN)
DZR brass body, test points and cartridge
Working conditions: Water, -10°C to +130°C (110°C for DN≥65)
Max 25bar up to 110°C, max 20bar above

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F990V5015.1904	015 - 1/2"	25	375	9,4
F990V5H15.1904	H 015 - H 1/2"	25	523	13,1
F990V5L20.1904	L 020 - L 3/4"	25	460	11,5
F990V5020.1904	020 - 3/4"	25	534	13,4
F990V5025.1904	025 - 1"	25	656	16,4
F990V5032.1904	032 - 1 1/4"	10	1554	15,5
F990V5040.1904	040 - 1 1/2"	10	1530	15,3
F990V5050.1904	050 - 2"	10	2064	20,6
F990V5H50.1904	H 050 - H 2"	2	3650	7,3
F990V5065.1904	065 - 2 1/2"	2	3872	7,7

Ver. with plugs available (allow later mounting of test points): F990V0mis.1903

EAC

9920, 9925

ON/OFF DZR brass automatic balancing valve **PN25**

9920



9925

Threaded F/F union ends (ISO 7/1 Rp)
With metallic cartridges from 0,02l/s to 0,95l/s
2 available ΔP ranges (up to max 440kPa depending on DN)
DZR brass body, test points (optional) and cartridge
With ON/OFF function, may be used with Vaurien actuator
Working conditions: Water, -10°C to +130°C
Max 25bar up to 110°C, max 20bar above

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 9920				
F99T00015.2164	015 - 1/2"	20	570	11,4
F99T00H15.2239	H 015 - H 1/2"	20	620	12,4
F99T00L20.2164	L 020 - L 3/4"	20	620	12,4
F99T00020.2239	020 - 3/4"	20	755	15,1
F99T00025.2239	025 - 1"	20	879	17,6
Fig. 9925				
F99T50015.2358	015 - 1/2"	20	570	11,4
F99T50H15.2359	H 015 - H 1/2"	20	620	12,4
F99T50L20.2358	L 020 - L 3/4"	20	620	12,4
F99T50020.2359	020 - 3/4"	20	755	15,1
F99T50025.2359	025 - 1"	20	879	17,6

Vaurien 100N for all DNs, Vaurien 125N only for H-DN15, DN20 and DN25 (pag.23)

EAC

DYNAMIC BALANCING VALVES

9955 Ductile iron dynamic balancing valve PN16



Wafer type suitable for EN1092 PN16 flanges
With metallic cartridges from 1,6l/s to 6,6l/s
Multi cartridge system for valves DN100 and above
With DZR brass extended test points
Working conditions: Water, -10°C to +110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F9955V065.2448	065 - 2 1/2"	1	4100	4,1
F9955V080.2448	080 - 3"	1	5600	5,6
F9955V100.2448	100 - 4"	1	8400	8,4
F9955V125.2448	125 - 5"	1	10600	10,6
F9955V150.2448	150 - 6"	1	12500	12,5
F9955V200.2448	200 - 8"	1	15800	15,8
F9955V250.2448	250 - 10"	1	22300	22,3
F9955V300.2448	300 - 12"	1	27700	27,7

Version PN25 available on request (.2449)
9955 series valves have 1 to 14 cartridge slots (depending on DN)
DN65, 1 cartridge - DN80, 1 cartridge - DN100, 2 cartridges - DN125, 3 cartridges - DN150, 4 cartridges - DN200, 7 cartridges - DN250, 10 cartridges - DN300, 14 cartridges

Cartucce Cartridges for automatic balancing valves



Cartridges for 9900P, 9905V, 9920/9925 and 9955
DZR brass body
Spring in stainless steel
Wide range of flows available
For Fig. 9955 blind caps must be used to blind off unused slots

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KRR91rnge.1880	015, L 020	50	54	2,7
KRR92rnge.1880	H 015, 020, 025	50	107	5,4
KRR94rnge.1880	032, 040, 050	15	271	4,1
KRR96rnge.1880	H 050 - 300	3	1420	4,3
KTT995000.2468	Cap	1	205	0,2

9700 Pressure independent control valve (PICV) PN20



Threaded M/M for unions (ISO 228/1)
With integral regulation cartridge for ΔP up to 400kPa
Full stroke modulation independently from the presetting
Suitable for Vaurien (on/off) or Vaurien-M (modulating) actuators
Body and inner components in DZR brass
Stainless steel spring, diaphragm and O-rings in EPDM
Working conditions: Water, -10°C to +130°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F97000L15.2436	L 015 - L 1/2"	16	380	6,1
F97000015.2436	015 - 1/2"	16	380	6,1
F97000020.2436	020 - 3/4"	12	583	7,0
F97000025.2436	025 - 1"	8	1041	8,3
F97000032.2436	032 - 1 1/4"	4	1971	7,9
Optional unions and nuts				
KBC9MI015.2517	015 - 1/2"	1	128	0,1
KBC9MI020.2517	020 - 3/4"	1	215	0,2
KBC9MI025.2517	025 - 1"	1	357	0,4
KBC9MI032.2517	032 - 1 1/4"	1	460	0,5

Vaurien 100N for DN≤20, Vaurien 125N and Vaurien-M 120N for all DNs

9705 Pressure independent control valve (PICV) PN20



Threaded M/M for unions (ISO 228/1)
With integral regulation cartridge for ΔP up to 400kPa
Full stroke modulation independently from the presetting
Suitable for Vaurien (on/off) or Vaurien-M (modulating) actuators
Body, inner components and test points in DZR brass
Stainless steel spring, diaphragm and O-rings in EPDM
Working conditions: Water, -10°C to +130°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F97050L15.2437	L 015 - L 1/2"	16	414	6,6
F97050015.2437	015 - 1/2"	16	414	6,6
F97050020.2437	020 - 3/4"	12	617	7,4
F97050025.2437	025 - 1"	8	1075	8,6
F97050032.2437	032 - 1 1/4"	4	2019	8,1
Optional unions and nuts				
KBC9MI015.2517	015 - 1/2"	1	128	0,1
KBC9MI020.2517	020 - 3/4"	1	215	0,2
KBC9MI025.2517	025 - 1"	1	357	0,4
KBC9MI032.2517	032 - 1 1/4"	1	460	0,5

Vaurien 100N for DN≤20, Vaurien 125N and Vaurien-M 120N for all DNs

9703 Pressure independent control valve (PICV) PN20



Threaded F/F (ISO 7/1 Rp)
With integral regulation cartridge for ΔP up to 400kPa
Full stroke modulation independently from the presetting
Suitable for Vaurien (on/off) or Vaurien-M (modulating) actuators
Body, inner components and test points in DZR brass
Stainless steel spring, diaphragm and O-rings in EPDM
Working conditions: Water, -10°C to +130°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F97030L15.3055	L 015 - L 1/2"	16	409	6,5
F97030015.3055	015 - 1/2"	16	409	6,5
F97030020.3055	020 - 3/4"	12	605	7,3
F97030025.3055	025 - 1"	8	1059	8,5
F97030032.3055	032 - 1 1/4"	4	2125	8,5

Vaurien 100N for DN≤20, Vaurien 125N and Vaurien-M 120N for all DNs

DYNAMIC BALANCING VALVES

VAURIEN

Linear thermoelectric actuator



Supply voltage: 24V AC/DC or 230VAC
M30x1,5mm threaded nut with fast connection
Enclosure protection: IP54
2 points control
Stroke time: about 3 to 5 minutes
Normally closed (NC)
Normally open (NO) version available on request

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
230VAC version				
KA952AT50.800	100N	1	115	0,1
KA952AT05.800	125N	1	110	0,1
24V AC/DC version				
KA952AT52.800	100N	1	115	0,1
KA952AT07.800	125N	1	110	0,1
4VAC version, 0-10V control (only for Fig. 9700/9705/9703)				
KA952AT09.800	DN15-DN20	1	111	0,1
KA952AT10.800	DN25-DN32	1	111	0,1
KA952AT11.800	DN15-DN32	1	111	0,1

CE

VAURIEN-M

Modulating electric actuator



Supply voltage: 24V AC/DC
M30x1,5 threaded connection
Enclosure protection: IP54
0-10V control signal, position feedback
(adjustable for 0-5VDC, 5-10VDC, 2-10VDC, 0-20mA o 4-20mA)
Max stroke 6,3mm, stroke time 8sec./mm
Linear characteristic (adjustable for equal-percentage characteristic)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KA9700001.800	130N	1	285	0,3
Version with electrical fail safe				
KA9700002.800	130N	1	200	0,2
KA9700002.800 configurator				
KA970CON2.800	130N	1	265	0,2

CE

9705B

Pressure independent control valve (PICV) **PN20**



Threaded F/F (ISO 7/1 Rp)
With differential pressure regulator for ΔP range 30-400kPa
Full stroke modulation independently from the presetting
Suitable for Vaurien-B actuators (ON/OFF or modulating)
Body and test points in DZR brass, ΔP regulator in PPS
Stainless steel spring, diaphragm and O-rings in EPDM
Working conditions: Water, -20 °C to 120 °C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F9705B040.2717	040 - 1 1/2"	1	3490	3,5
F9705B050.2717	050 - 2"	1	4020	4,0

EAC

Vaurien-B 300N for all DNs

VAURIEN-B Electric actuator



Supply voltage: 24VAC or 230VAC
M30x1,5 threaded connection
Enclosure protection: IP43
3 points control or 0-10VDC control (adjustable for other signals)
Stroke time: 2 to 3 minutes (depending on models)
Linear characteristic

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
230VAC version, 3-point control				
KA9705B03.800	300N	1	250	0,3
24VAC version, 3-point control				
KA9705B04.800	300N	1	250	0,3
24VAC version, 0-10V control				
KA9705B05.800	300N	1	250	0,3

CE

9755 Pressure independent control valve (PICV) PN16



Flanged PN16 (EN1092-2)
With differential pressure regulator for ΔP up to 400kPa
With 0-10VDC modulating actuator, power supply 24V AC/DC
Actuator enclosure protection: IP54
Cast iron body, aluminum regulator, brass disc
Stainless steel springs, diaphragm and O-rings in EPDM
Working conditions: Water, -10°C to +110°C
Max 16bar up to +90°C, max 13bar at +110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F97550065.2712	065 - 2 1/2"	1	25000	25,0
F97550080.2712	080 - 3"	1	27900	27,9
F97550100.2712	100 - 4"	1	35300	35,3
F97550125.2712	125 - 5"	1	48100	48,1
F97550150.2712	150 - 6"	1	77100	77,1

EAC

DYNAMIC BALANCING VALVES

9605 Differential pressure control valve (DPCV) PN25



Threaded F/F (ISO 7/1Rp)
DN15-DN32: Δp range 20-40kPa, 5-25kPa (L) or 20-65kPa (H)
DN40: Δp range 20-40kPa, 5-25kPa (L) or 35-75kPa (H)
DN50: Δp range 35-75kPa, 5-25kPa (U), 20-40kPa (L) or 60-100kPa (H)
DZR brass body (cast iron for DN40 and DN50) and shutter
Stainless steel spring, diaphragm and O-rings in EPDM
Working conditions: Water, -20°C to +120°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
FBB00L015.2434	L 015 - L 1/2"	1	772	0,8
FBB000015.2434	015 - 1/2"	1	772	0,8
FBB00H015.2434	H 015 - H 1/2"	1	772	0,8
FBB00L020.2434	L 020 - L 3/4"	1	822	0,8
FBB000020.2434	020 - 3/4"	1	822	0,8
FBB00H020.2434	H 020 - H 3/4"	1	822	0,8
FBB00L025.2434	L 025 - L 1"	1	1772	1,8
FBB000025.2434	025 - 1"	1	1772	1,8
FBB00H025.2434	H 025 - H 1"	1	1772	1,8
FBB00L032.2434	L 032 - L 1 1/4"	1	1972	2,0
FBB000032.2434	032 - 1 1/4"	1	1972	2,0
FBB00H032.2434	H 032 - H 1 1/4"	1	1972	2,0
FBB00L040.2434	L 040 - L 1 1/2"	1	3272	3,3
FBB000040.2434	040 - 1 1/2"	1	3522	3,5
FBB00H040.2434	H 040 - H 1 1/2"	1	3622	3,6
FBB00U050.2434	U 050 - U 2"	1	4122	4,1
FBB00L050.2434	L 050 - L 2"	1	4322	4,3
FBB000050.2434	050 - 2"	1	4522	4,5
FBB00H050.2434	H 050 - H 2"	1	4822	4,8
Spare capillary tube kit				
KCN960008.3212		1	112	0,1

9655 Differential pressure control valve (DPCV) PN16



Flanged PN16 (EN1092-2)
DN65-DN100: Δp range 20-80kPa, 80-160kPa (H)
DN125-DN150: Δp range 20-80kPa
Cast iron body, alluminum shutter
Stainless steel springs, diaphragm and O-rings in EPDM
Working conditions: Water, -10°C to +110°C
Max 16bar up to 90°C, max 13bar at 110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F96550065.2499	L 065 - L 2 1/2"	1	21600	21,6
F9655H065.2499	H 065 - H 2 1/2"	1	21600	21,6
F96550080.2499	L 080 - L 3"	1	28100	28,1
F96550H80.2499	H 080 - H 3"	1	28100	28,1
F96550100.2499	L 100 - L 4"	1	33600	33,6
F9655H100.2499	H 100 - H 4"	1	33600	33,6
F96550125.2499	125 - 5"	1	46400	46,4
F96550150.2499	150 - 6"	1	75400	75,4
Spare capillary tube kit				
KCN965508.3212		1	240	0,2

9610 Direct-acting brass pressure reducing valve PN25



Threaded F/F (ISO 228/1)
Max pressure reduction ratio 10:1
Downstream setting press. range from 0,5bar (1,5bar for DN≥32) to 6bar
Brass metal parts, stainless steel spring, NBR/Fasit gaskets
Piston type, pressure compensation system
With threaded F (¼" ISO 228/1) pressure gauge connection
Working conditions: Water, 0°C a +80°C; Air, 0°C to +80°C
PN16 when used with air

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F96100015.3016	015 - 1/2"	30	790	25,8
F96100020.3016	020 - 3/4"	30	860	40,2
F96100025.3016	025 - 1"	15	1340	31,4
F96100032.3016	032 - 1 1/4"	6	2090	13,1
F96100040.3016	040 - 1 1/2"	6	2180	18,6
F96100050.3016	050 - 2"	4	3100	16,4
F96100065.3016	065 - 2 1/2"	4	4100	22,1
F96100080.3016	080 - 3"	2	5520	13,9
F96100100.3016	100 - 4"	2	6970	23,7

9610DR Direct-acting DZR brass pressure reducing valve PN25



Threaded F/F (ISO 228/1)
Max pressure reduction ratio 10:1
Downstream setting press. range from 0,5bar (1,5bar for DN≥32) to 6bar
DZR brass metal parts, stainless steel spring, NBR/Fasit gaskets
Piston type, pressure compensation system
With threaded F (¼" ISO 228/1) pressure gauge connection
Working conditions: Water, 0°C a +80°C; Air, 0°C to +80°C
PN16 when used with air

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F96100015.2718	015 - 1/2"	30	790	23,7
F96100020.2718	020 - 3/4"	30	860	17,2
F96100025.2718	025 - 1"	15	1340	20,1
F96100032.2718	032 - 1 1/4"	6	2090	12,5
F96100040.2718	040 - 1 1/2"	6	2180	13,1
F96100050.2718	050 - 2"	4	3100	9,3
F96100065.2718	065 - 2 1/2"	4	4100	16,4
F96100080.2718	080 - 3"	2	5520	11,0
F96100100.2718	100 - 4"	2	6970	13,9

9660 Pilot operated ductile iron pressure reducing valve PN16



Flanged PN16
Max pressure reduction ratio 3:1
Downstream setting pressure range from 2,0bar to 11,0bar
Operation with pilot valve to stabilize the pressure
Independent of the flow rate

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F9660I050.3070	050 - 2"	1	19000	19,0
F9660I065.3070	065 - 2 1/2"	1	20000	20,0
F9660I080.3070	080 - 3"	1	33000	33,0
F9660I100.3070	100 - 4"	1	35000	35,0
F9660I125.3070	125 - 5"	1	48000	48,0
F9660I150.3070	150 - 6"	1	80000	80,0
F9660I200.3070	200 - 8"	1	180000	180,0
F9660I250.3070	250 - 10"	1	200000	200,0
F9660I300.3070	300 - 12"	1	460000	460,0

ACCESSORIES FOR BALANCING VALVES

95TP

Pressure test points



95TP

Threaded M 1/4" ISO 7/1 R
Body and cap in DZR brass
Gaskets in NBR/EPDM, polypropylene tie

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 95TP, short version				
KC95TP008.710	Blue tie	10	32	0,3
KC95TP008.711	Red tie	10	32	0,3
Fig. 95TP, long version				
KPR95TP08.2282	Blue tie	10	93	0,9
KPR95TP08.2283	Red tie	10	93	0,9

9315

Pressure test point with drain



Threaded M 1/4" ISO 7/1 R
Threaded M 1/2" ISO 228/1 drain
Body and cap in DZR brass
Gaskets in NBR/EPDM, polypropylene tie
Safety spring in plastic material

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KDV950008.1151	Red tie	40	160	6,4

T650

Diff. pressure manometer with flow calculation



Battery powered
With flow calculation App running on smartphone (NOT included)
App requires at least Android 7.0 or iOS 10.3
Enclosure protection: IP65
1000 kPa pressure range
Working conditions: -5°C to 90°C (fluid), -5°C to 50° (ambient)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KMMMAND04.720	-	1	1800	1,8
Spare measuring needles for VIR test points				
KMM2AG000.1451	-	1	300	0,3
Spare hoses for differential manometer				
KMMCAVIBR.1452	-	1	150	0,2

Shells

Shells for balancing valves





Polyethylene cross linked foam
Thickness 30mm
Thermal conductivity (Lambda factor, kcal/mh°C):
0,0298 at 0°C, 0,0303 at 10°C, 0,0326 at 40°C
Working conditions: -60°C to +90°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KSHfig015.1976	015 - 1/2"	1	30	0,0
KSHfig020.1976	020 - 3/4"	1	30	0,0
KSHfig025.1976	025 - 1"	1	30	0,0
KSHfig032.1976	032 - 1 1/4"	1	80	0,1
KSHfig040.1976	040 - 1 1/2"	1	80	0,1
KSHfig050.1976	050 - 2"	1	80	0,1
KSHfig065.1976	065 - 2 1/2"	1	130	0,1
KSHfig080.1976	080 - 3"	1	200	0,2
KSHfig100.1976	100 - 4"	1	320	0,3
KSHfig125.1976	125 - 5"	1	500	0,5
KSHfig150.1976	150 - 6"	1	700	0,7
KSHfig200.1976	200 - 8"	1	1200	1,2
KSHfig250.1976	250 - 10"	1	2000	2,0
KSHfig300.1976	300 - 12"	1	2800	2,8

Ordering code for Fig.9505: KSH950mis.1976
Ordering code for Fig.9555P: KSH950mis.1976
Ordering code for Fig. 9515: KSH95Vmis.1976
Shells for other VIR balancing valves available on request





CONNECTION KIT FOR TERMINAL UNITS

90BY-9705 EzConnect kit for terminal units PN20



- Fig. 90BY valve for HVAC terminal units mounting
- Fig. 900 standard strainer
- Fig. 9705 pressure independent control valve (PICV)

Working conditions: Water, -10°C to +130°C
Max 20bar up to 100°C, max 10bar at 130°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
JLP211030.4	015_{040} - 1/2"$_{040}$	1	1795	1,9
JLP311032.4	020_{040} - 3/4"$_{040}$	1	2417	2,5
JLP321030.4	020_{080} - 3/4"$_{080}$	1	3042	3,2
JLP421032.4	025_{080} - 1"$_{080}$	1	3982	4,0

1 1/4" version available on request

90BY-9515 EzConnect kit for terminal units PN20



- Fig. 90BY valve for HVAC terminal units mounting
- Fig. 900 standard strainer
- Fig. 9515 fixed orifice DRV

Working conditions: Water, -10°C to +130°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
JLF411030.4	015_{040} - 1/2"$_{040}$	1	1963	1,9
JLP511032.4	020_{040} - 3/4"$_{040}$	1	2444	2,4
JLP521030.4	020_{080} - 3/4"$_{080}$	1	3690	2,9
JLP621032.4	025_{080} - 1"$_{080}$	1	4490	3,3

1 1/4" version available on request

90BY-9525 EzConnect kit for terminal units PN20



- Fig. 90BY valve for HVAC terminal units mounting
- Fig. 900 standard strainer
- Fig. 9525 terminal balancing valve

Working conditions: Water, -10°C to +130°C
Max 20bar up to 80°C, max 10bar at 130°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
JLE411030.4	015_{040} - 1/2"$_{040}$	1	1626	1,6
JLE511032.4	020_{040} - 3/4"$_{040}$	1	2150	2,2
JLE521030.4	020_{080} - 3/4"$_{080}$	1	2703	2,7
JLE621032.4	025_{080} - 1"$_{080}$	1	3050	3,2

EZCONN-Shell Shell for fancoil kit PN20



Polyethylene cross linked foam
Thickness 30mm
Thermal conductivity (Lambda factor, kcal/mh°C):
0,0298 at 0°C, 0,0303 at 10°C, 0,0326 at 40°C
Working conditions: -60°C to +90°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KSHJPL200.2882	015_{040} - 1/2"$_{040}$	1	65	0,0
KSHJPL301.2882	020_{040} - 3/4"$_{040}$	1	100	0,0
KSHJPL300.2882	020_{080} - 3/4"$_{080}$	1	100	0,0
KSHJPL400.2882	025_{080} - 1"$_{080}$	1	100	0,0

For other orientation or balancing valve 9515 and 9525, available on request

90BY Valve for HVAC terminal units mounting PN25



Threaded F/F/F/F union ends (ISO 228/1)
Other connections (thr. M, ISO 7/1 Rp) or combin. on request
Chrome-plated DZR brass balls, Blow-out proof stems
PTFE Seats, EPDM Perox O-rings
40mm or 80mm center to center versions
Working conditions: Water, -10°C to +130°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Version with union ends				
F90BY0015.2256	015_{040} - 1/2"$_{040}$	1	759	1,1
F90BY0020.2256	020_{080} - 3/4"$_{080}$	1	1910	2,0
Version without union ends				
F90BY0015.2257	015_{040} - 1/2"$_{040}$	1	715	0,7
F90BY0020.2257	020_{080} - 3/4"$_{080}$	1	1330	1,3

Options Single union end and kit of stem extensions for 90BY



Single union and nut kit in DZR brass for 90BY
EPDM Perox O-rings

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F threaded connection (ISO 228/1)				
KBC325015.2289	015 x 015_{040}	1	108	0,1
KBC92D015.2086	015 x 020_{080}	1	133	0,1
KBC92D020.2086	020 x 020_{080}	1	145	0,1
Olive and nut connection for European copper tubing (Max 120°C)				
KBC325015.2290	015 x 015_{040}	1	139	0,1
KBC92D015.2088	015 x 020_{080}	1	164	0,2
KBC92D020.2088	020 x 020_{080}	1	182	0,2
M threaded connection (ISO 7/1 Rp)				
KBC90B015.2288	015 x 015_{040}	1	110	0,1
KBC92D015.2087	015 x 020_{080}	1	113	0,1
KBC90B020.2288	020 x 015_{040}	1	106	0,1
KBC92D020.2087	020 x 020_{080}	1	143	0,1
KBC92D025.2087	025 x 020_{080}	1	158	0,2

CONNECTION KIT FOR TERMINAL UNITS

Options

Single union end and kit of stem extensions for 90BY



Kit with three stem extensions (two main ways + by-pass)
Aluminum extensions, rod for by-pass in brass
Zinc plated screws

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KPR90B015.2131	015 x 015040	1	89	0,1
KPR90B020.2131	015 x 020080	1	111	0,1

92HS

Connection flessible hose



Threaded connection with swivel nut ISO 7/1R
EPDM Perox hoses with stainless steel braided sleeve
DZR brass fitting with EPDM Perox gasket for one side
Length 12" (300 mm)
Working conditions: Water, up to +90°C
27,5 bar up to DN25, 20,5 bar for DN32

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KCN9H0015.2801	015 - 1/2"	1	250	0,3
KCN9H0020.2801	020 - 3/4"	1	440	0,4
KCN9H0025.2801	025 - 1"	1	700	0,7
KCN9H0032.2801	032 - 1 1/4"	1	890	0,9

91BY-9703

EzConnect kit for terminal units **PN20**



- Fig. 91BY valve for HVAC terminal units mounting
- Fig. 91F DZR strainer
- Fig. 9703 pressure independent control valve (PICV)

Working conditions: Water, -10°C to +130°C
Max 20bar up to 100°C, max 10bar at 130°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
JLQ2A5030.3	015 - 1/2"	1	1704	1,7
JLQ2A5034.3	020 - 3/4"	1	1915	1,9
JLQ3A5032.3	020 - 3/4"	1	2020	2,0
JLQ3A5030.3	020 - 3/4"	1	2383	2,4
JLQ3A5034.3	025 - 1"	1	3105	3,1
JLQ4A5032.3	025 - 1"	1	3820	3,8

Fig. **9505** (page 16) variable orifice static balancing valve
Fig. **9515** (page 16) fixed orifice static balancing valve with optional actuator
Fig. **9525** (page 17) ON/OFF terminal balancing valve
Fig. **9900P** (page 21) or Fig **9905V** (page 21) automatic balancing valve
Fig. **9920/9925** (page 21) automatic balancing valve with optional actuator
Fig. **9700/9705** (page 23) pressure independent control valve (PICV)

EZCONN-Shell available on request

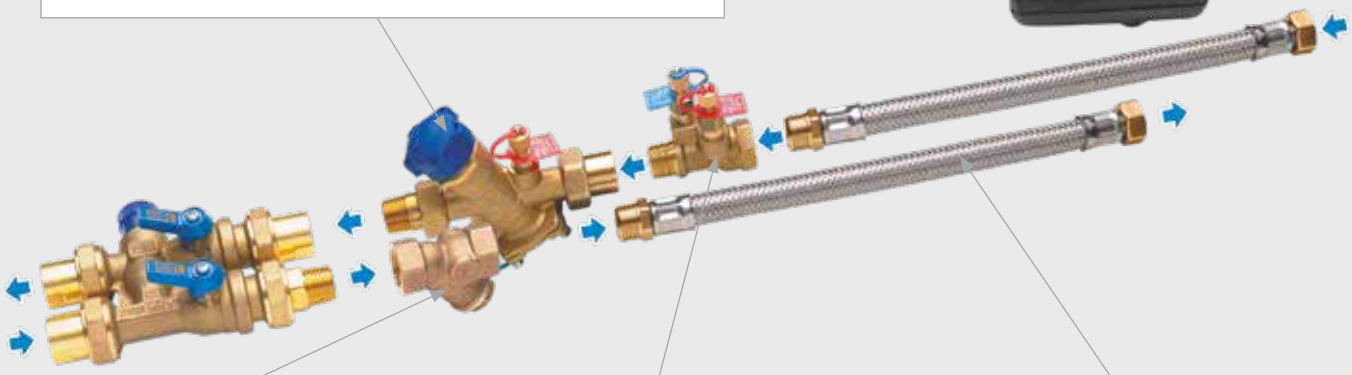


Fig. **900** (page 92) standard strainer
Fig. **89DV** (page 93) strainer with drain and side bosses

Fig. **9400** (page 20) optional flow meter (static balancing valves already allow flow measurement)

Fig. **92HS** EPDM Perox hoses with stainless steel braided sleeve and brass fittings. Available in different lengths.

Connection kits can be configured as needed and provided shrink wrapped. Examples of possible configurations as per above figure.



Fig. **91BY**: adjustable by-pass

Fig. **9703** (page 23) pressure independent control valve (PICV)

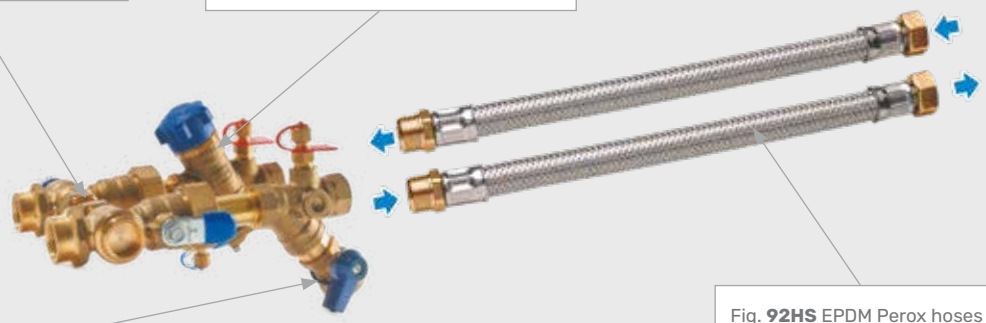
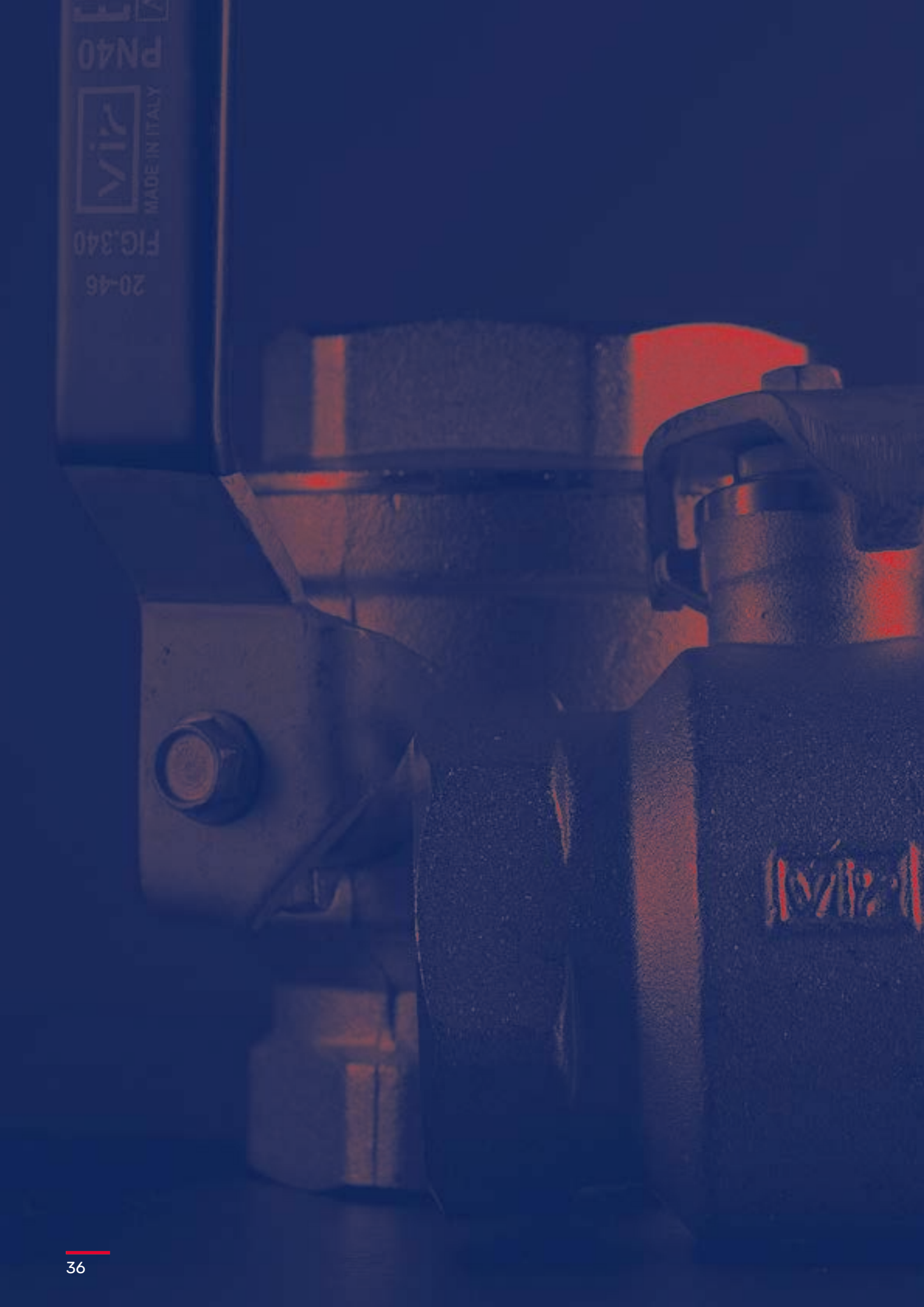


Fig. **91F**: strainer with drain

Fig. **92HS** EPDM Perox hoses with stainless steel braided sleeve and DZR brass fitting. Available in different lengths

Connection kits can be configured as needed and provided shrink wrapped. Examples of possible configurations as per above figure.




PN40
MADE IN ITALY
FIG.340
20-46



SHUT-OFF

BALL VALVES

340 Full port brass ball valve PN40



Threaded F/F (ISO 228/1)
Chrome-plated ball and body, blow-out proof stem
PTFE seats and packing, adjustable brass packing nut
Working conditions: Water, 0°C to +150°C; Air, -10°C to +150°C
PN40 for DN≤50 (Max 40bar up to 95°C, max 25bar at 150°C)
PN25 for DN≥65 (Max 25bar up to 95°C, max 16bar at 150°C)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Lever handle version				
F3400V008.1596	008 - 1/4"	125	107	13,4
F3400V010.1596	010 - 3/8"	125	117	14,6
F3400V015.1596	015 - 1/2"	90	214	19,3
F3400V020.1596	020 - 3/4"	60	305	18,3
F3400V025.1596	025 - 1"	35	514	18,0
F3400V032.1596	032 - 1 1/4"	25	823	20,6
F3400V040.1596	040 - 1 1/2"	16	1219	19,5
F3400V050.1596	050 - 2"	8	1848	14,8
F3400V065.1596	065 - 2 1/2"	6	3308	19,8
F3400V080.1596	080 - 3"	4	5292	21,2
F3400V100.1596	100 - 4"	2	8360	16,7
Version with red lever handle available on request (F3400Vmis.153)				
Butterfly handle version				
F3400V008.1665	008 - 1/4"	125	88	11,0
F3400V010.1665	010 - 3/8"	125	98	12,3
F3400V015.1665	015 - 1/2"	90	186	16,7
F3400V020.1665	020 - 3/4"	60	276	16,6
F3400V025.1665	025 - 1"	35	467	16,3
F3400V032.1665	032 - 1 1/4"	25	774	19,4
F3400V040.1665	040 - 1 1/2"	16	1150	18,4
F3400V050.1665	050 - 2"	8	1740	13,9
Version with red butterfly handle available on request (F3400Vmis.157)				

343 Brass ball valve full bore PN40



Threaded M/F (ISO 228/1)
Chrome-plated ball and body, blow-out proof stem
PTFE seats and packing, adjustable brass packing nut
Working conditions: Water, 0°C to +150°C; Air, -10°C to +150°C
Max 40bar up to 95°C, max 25bar at 150°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Lever handle version				
F3430V008.1597	008 - 1/4"	125	113	14,1
F3430V010.1597	010 - 3/8"	125	120	15,0
F3430V015.1597	015 - 1/2"	75	213	16,0
F3430V020.1597	020 - 3/4"	50	313	15,7
F3430V025.1597	025 - 1"	30	519	15,6
F3430V032.1597	032 - 1 1/4"	20	832	16,6
F3430V040.1597	040 - 1 1/2"	12	1220	14,6
F3430V050.1597	050 - 2"	8	1915	15,3
Version with red lever handle available on request (F3430Vmis.153)				
Butterfly handle version				
F3430V008.1665	008 - 1/4"	125	96	12,0
F3430V010.1665	010 - 3/8"	125	99	12,4
F3430V015.1665	015 - 1/2"	75	192	14,4
F3430V020.1665	020 - 3/4"	50	287	14,4
F3430V025.1665	025 - 1"	30	490	14,7
F3430V032.1665	032 - 1 1/4"	20	775	15,5
F3430V040.1665	040 - 1 1/2"	12	1210	19,4
F3430V050.1665	050 - 2"	8	1910	15,3
Version with red butterfly handle available on request (F3430Vmis.157)				

348 Brass ball valve full bore **PN40**



Threaded M/M (ISO 228/1)
Chrome-plated ball and body, blow-out proof stem
PTFE seats and packing, adjustable brass packing nut
Working conditions: Water, 0°C to +150°C; Air, -10°C to +150°C
Max 40bar up to 95°C, max 25bar at 150°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Lever handle version				
F3480V010.153	010 - 3/8"	125	121	15,1
F3480V015.153	015 - 1/2"	75	214	16,5
F3480V020.153	020 - 3/4"	50	323	16,3
F3480V025.153	025 - 1"	30	553	16,6
F3480V032.153	032 - 1 1/4"	20	858	17,2
F3480V040.153	040 - 1 1/2"	12	1203	14,4
F3480V050.153	050 - 2"	8	1927	15,4
Butterfly handle version				
F3480V010.157	010 - 3/8"	125	101	12,6
F3480V015.157	015 - 1/2"	75	195	14,6
F3480V020.157	020 - 3/4"	50	297	14,9
F3480V025.157	025 - 1"	30	502	15,1
F3480V032.157	032 - 1 1/4"	20	780	15,6
F3480V040.157	040 - 1 1/2"	12	1118	13,4
F3480V050.157	050 - 2"	8	1970	15,8

342 Brass ball valve with plug and drain cock **PN40**



Threaded F/F (ISO 228/1)
Chrome-plated ball and body, blow-out proof stem
PTFE seats and packing, adjustable brass packing nut
Working conditions: Water, 0°C to +150°C; Air, -10°C to +150°C
Max 40bar up to 95°C, max 25bar at 150°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Lever handle version				
F3420A015.131	015 - 1/2"	80	293	23,4
F3420A020.131	020 - 3/4"	40	377	15,1
F3420A025.131	025 - 1"	40	590	23,6
F3420A032.131	032 - 1 1/4"	20	880	17,6
F3420A040.131	040 - 1 1/2"	16	1295	20,7
F3420A050.131	050 - 2"	8	1927	15,4
Butterfly handle version				
F3420A015.133	015 - 1/2"	80	269	21,5
F3420A020.133	020 - 3/4"	40	357	14,3
F3420A025.133	025 - 1"	40	551	22,0
F3420A032.133	032 - 1 1/4"	20	800	16,0
F3420A040.133	040 - 1 1/2"	16	1300	20,8
F3420A050.133	050 - 2"	8	1880	15,0

BALL VALVES

33FF

Full port brass ball valve

PN32



Threaded F/F (ISO 228/1)
Chromium plated ball, nickel plated body, blow-out proof stem
Threads and internal parts not plated
PTFE seats, FKM+NBR stem O-ring. Reversible handle
Working conditions: Water, 0°C to +130°C; Air, -10°C to +130°C
PN20 when used with air

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Lever handle version				
F33FF0010.2572	010 - 3/8"	125	85	10,6
F33FF0015.2572	015 - 1/2"	100	165	16,5
F33FF0020.2572	020 - 3/4"	70	240	16,8
F33FF0025.2572	025 - 1"	40	400	16,0
F33FF0032.2572	032 - 1 1/4"	25	565	14,1
F33FF0040.2572	040 - 1 1/2"	20	835	16,7
F33FF0050.2572	050 - 2"	10	1325	13,3
Butterfly handle version				
F33FFF015.2578	015 - 1/2"	100	154	15,4
F33FFF020.2578	020 - 3/4"	70	229	17,2
F33FFF025.2578	025 - 1"	40	381	15,2
F33FFF032.2578	032 - 1 1/4"	25	546	13,7

33MF

Full port brass ball valve

PN32



Threaded M/F (ISO 228/1)
Chromium plated ball, nickel plated body, blow-out proof stem
Threads and internal parts not plated
PTFE seats, FKM+NBR stem O-ring. Reversible handle
Working conditions: Water, 0°C to +130°C; Air, -10°C to +130°C
PN20 when used with air.

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Lever handle version				
F33MF0010.2574	010 - 3/8"	125	90	11,3
F33MF0015.2574	015 - 1/2"	75	170	12,8
F33MF0020.2574	020 - 3/4"	50	260	13,0
F33MF0025.2574	025 - 1"	30	425	12,8
F33MF0032.2574	032 - 1 1/4"	20	600	12,0
F33MF0040.2574	040 - 1 1/2"	12	845	10,1
F33MF0050.2574	050 - 2"	8	1380	11,0
Butterfly handle version				
F33MFF015.2580	015 - 1/2"	75	170	12,8
F33MFF020.2580	020 - 3/4"	50	260	13,0
F33MFF025.2580	025 - 1"	30	425	12,8
F33MFF032.2580	032 - 1 1/4"	20	600	12,0

330

Full port brass ball valve

PN25



Threaded F/F (ISO 228/1)
Chrome-plated ball, nickel-plated body, blow-out proof stem
Threads and internal parts not plated
PTFE seats, NBR stem O-ring + PTFE packing
Working conditions: Water, 0°C to +95°C; Air, -10°C to +110°C
PN16 (or PN10 for DN≥65) when used with air

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Lever handle version				
F330K0008.1670	008 - 1/4"	36	120	4,3
F330K0010.1670	010 - 3/8"	36	120	4,3
F330K0015.1670	015 - 1/2"	24	178	4,3
F330K0020.1670	020 - 3/4"	16	240	3,8
F330K0025.1670	025 - 1"	10	420	4,2
F330K0032.1670	032 - 1 1/4"	36	590	21,2
F330K0040.1670	040 - 1 1/2"	24	850	20,4
F330K0050.1670	050 - 2"	12	1330	16,0
F330K0065.1598	065 - 2 1/2"	6	2963	17,8
F330K0080.1598	080 - 3"	4	3747	15,0
F330K0100.1598	100 - 4"	2	5841	11,7
Butterfly handle version				
F330K0008.1672	008 - 1/4"	36	100	3,6
F330K0010.1672	010 - 3/8"	36	100	3,6
F330K0015.1672	015 - 1/2"	24	143	3,4
F330K0020.1672	020 - 3/4"	16	210	3,4
F330K0025.1672	025 - 1"	10	360	3,6

333 Full port brass ball valve PN25



Threaded M/F (ISO 228/1).
Chrome-plated ball, nickel-plated body, blow-out proof stem.
Threads and internal parts not plated
PTFE seats, NBR stem O-ring + PTFE packing
Working conditions: Water, 0°C to +95°C; Air, -10°C to +110°C
PN16 when used with air

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Lever handle version				
F333K0008.1673	008 - 1/4"	36	125	4,5
F333K0010.1673	010 - 3/8"	36	128	4,6
F333K0015.1673	015 - 1/2"	24	194	4,7
F333K0020.1673	020 - 3/4"	16	262	4,2
F333K0025.1673	025 - 1"	10	445	4,5
F333K0032.1673	032 - 1 1/4"	36	635	22,9
F333K0040.1673	040 - 1 1/2"	24	900	21,6
F333K0050.1673	050 - 2"	12	1448	17,4
Butterfly handle version				
F333K0008.1687	008 - 1/4"	36	125	4,5
F333K0010.1687	010 - 3/8"	36	128	4,6
F333K0015.1687	015 - 1/2"	24	194	4,7
F333K0020.1687	020 - 3/4"	16	262	4,2
F333K0025.1687	025 - 1"	10	445	4,5

338 Full port brass ball valve PN25



Threaded M/M (ISO 228/1)
Chrome-plated ball, nickel-plated body, blow-out proof stem
Threads and internal parts not plated
PTFE seats, NBR stem O-ring + PTFE packing
Working conditions: Water, 0°C to +95°C; Air, -10°C to +110°C
PN16 when used with air

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Lever handle version				
F338K0015.1680	015 - 1/2"	24	196	4,7
F338K0020.1680	020 - 3/4"	16	265	4,2
F338K0025.1680	025 - 1"	10	449	4,5
F338K0032.1680	032 - 1 1/4"	36	647	23,3
F338K0040.1680	040 - 1 1/2"	24	891	21,4
F338K0050.1680	050 - 2"	12	1464	17,6
Butterfly handle version				
F338K0015.1688	015 - 1/2"	24	194	4,7
F338K0020.1688	020 - 3/4"	16	262	4,2
F338K0025.1688	025 - 1"	10	445	4,5

340 Solar Brass ball valve for high temperatures PN25



Threaded F/F (ISO 228/1)
Chrome-plated ball, blow-out proof stem
PTFE + graphite seats and grafoil packing
Adjustable brass packing nut
Working conditions: Water, -30°C to +180°C
Max 25bar up to 100°C (75°C for DN50), max 10bar at 180°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Lever handle version				
F340H0010.1937	010 - 3/8"	125	117	14,6
F340H0015.1937	015 - 1/2"	90	214	19,3
F340H0020.1937	020 - 3/4"	60	305	18,3
F340H0025.1937	025 - 1"	35	514	18,0
F340H0032.1937	032 - 1 1/4"	25	823	20,6
F340H0040.1937	040 - 1 1/2"	16	1219	19,5
F340H0050.1937	050 - 2"	8	1848	14,8
Butterfly handle version				
F340H0010.1938	010 - 3/8"	125	117	14,6
F340H0015.1938	015 - 1/2"	90	214	19,3
F340H0020.1938	020 - 3/4"	60	305	18,3
F340H0025.1938	025 - 1"	35	514	18,0

BALL VALVES

350TAB — Full port brass ball valve — 600WOG



Threaded F/F (NPT)
Chrome-plated ball, blow-out proof stem
PTFE seats and packing, adjustable brass packing nut
Brass parts in contact with water made in low lead brass
Working conditions: Water, 0°C to +150°C; Air, -10°C to +150°C
Valve specific to American market

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F340ET008.1657	008 - 1/4"	80	153	12,2
F340ET010.1657	010 - 3/8"	80	140	11,2
F340ET015.1657	015 - 1/2"	80	257	20,6
F340ET020.1657	020 - 3/4"	60	381	22,9
F340ET025.1657	025 - 1"	35	621	21,7
F340ET032.1657	032 - 1 1/4"	20	980	19,6
F340ET040.1657	040 - 1 1/2"	15	1418	21,3
F340ET050.1657	050 - 2"	10	2224	22,2
F340ET065.1657	065 - 2 1/2"	6	4487	26,9
F340ET080.1657	080 - 3"	4	6611	26,4
F340ET100.1657	100 - 4"	2	9391	18,8

340GS — Full port brass ball valve with sealable square top — PN25



Fig. 340GS threaded F/F (ISO 7/1 Rc)
Fig. 343GS, threaded M/F (ISO 7/1 R / ISO 7/1 Rc)
Chrome-plated ball, Blow-out proof stem
PTFE Seats, FKM O-ring. With sealable square handle
Working conditions: Water, 0°C to +110°C
Max 25bar up to 95°C, max 20bar at 110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 340GS				
F340GS015.2047	015 - 1/2"	80	196	15,7
F340GS020.2047	020 - 3/4"	60	273	16,4
F340GS025.2047	025 - 1"	40	421	16,8
F340GS032.2047	032 - 1 1/4"	25	591	14,8
F340GS040.2047	040 - 1 1/2"	16	1005	16,1
F340GS050.2047	050 - 2"	8	1466	11,7
Fig. 343GS				
F343GS015.2048	015 - 1/2"	80	198	15,8
F343GS020.2048	020 - 3/4"	60	281	16,9
F343GS025.2048	025 - 1"	40	441	17,6
F343GS032.2048	032 - 1 1/4"	25	618	15,5
F343GS040.2048	040 - 1 1/2"	16	1015	16,2
F343GS050.2048	050 - 2"	8	1570	12,6

340J — Full port grooved brass ball valve — PN40



Grooved (ANSI/AWWA C606 / Metric)
Chromium plated ball, blow-out proof stem
PTFE seats and packing, adjustable brass packing nut
Working conditions: Water, 0°C to +150°C; Air, -10°C to +150°C
PN40 for DN≤50 (max 40bar up to 95°C, max 25bar at 150°C)
PN25 for DN≥65 (max 25bar up to 95°C, max 16bar at 150°C)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F3400J032.2816	42,2	25	931	23,3
F3400J040.2816	48,3	16	1330	21,3
F3400J050.2816	60,4	8	2009	16,1
F3400J065.2816	76,1*	6	3442	20,6
F3400J080.2816	88,9	8	5512	44,1

*Metric groove standard

340DR

Full port DZR brass ball valve

PN40



Threaded F/F (ISO 228/1)
Chromium plated ball, blow-out proof stem
PTFE seats and packing, adjustable brass packing nut
Working conditions: Water, 0°C to +150°C; Air, -10°C to +150°C
Max 40bar up to 95°C, max 25bar at 150°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F340LL010.2936	010 - 3/8"	125	117	14,6
F340LL015.2936	015 - 1/2"	90	222	20,0
F340LL020.2936	020 - 3/4"	60	305	18,3
F340LL025.2936	025 - 1"	35	510	17,9
F340LL032.2936	032 - 1 1/4"	25	811	20,3
F340LL040.2936	040 - 1 1/2"	16	1430	22,9
F340LL050.2936	050 - 2"	8	2200	17,6

340LN

Full port long neck brass ball valve

PN25



Threaded F/F (ISO 228/1)
Chrom-plated ball and body
PTFE seats, adjustable brass packing nut
Working conditions: Water, 0°C to +150°C; Air, -10°C to +150°C
Max 25bar up to 110°C, max 16bar above
Max 20bar up to 110°C, max 16bar above when used with air

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F34L0F010.145	010 - 3/8"	50	213	10,7
F34L0F015.145	015 - 1/2"	50	289	14,5
F34L0F020.145	020 - 3/4"	40	379	15,2
F34L0F025.145	025 - 1"	25	620	15,5
F34L0F032.145	032 - 1 1/4"	15	920	13,8
F34L0F040.145	040 - 1 1/2"	8	1352	10,8
F34L0F050.145	050 - 2"	6	1930	11,6

380

Full port bronze ball valve

PN40



Threaded F/F (ISO 228/1)
Chrome-plated ball, blow-out proof stem
PTFE seats and packing, adjustable brass packing nut
Working conditions: Water and Air, -10°C to +185°C;
PN40 for DN≤50 (Max 40bar up to 95°C, max 10bar at 185°C)
PN25 for DN≥65 (Max 25bar up to 95°C, max 10bar at 185°C)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Lever handle version				
F3800B008.916	008 - 1/4"	100	142	14,2
F3800B010.916	010 - 3/8"	100	139	13,9
F3800B015.916	015 - 1/2"	50	259	13,0
F3800B020.916	020 - 3/4"	50	364	18,2
F3800B025.916	025 - 1"	25	630	15,8
F3800B032.916	032 - 1 1/4"	20	970	19,4
F3800B040.916	040 - 1 1/2"	12	1440	17,3
F3800B050.916	050 - 2"	8	2160	17,3
F3800B065.916	065 - 2 1/2"	6	4660	28,0
F3800B080.916	080 - 3"	2	6600	13,2
Butterfly handle version				
F3800B015.1391	015 - 1/2"	100	268	26,8
F3800B020.1391	020 - 3/4"	100	368	36,8
F3800B025.1391	025 - 1"	50	639	32,0

Version with lockable handle available up to DN50 (.3201)

BALL VALVES

380LN

Full port long neck bronze ball valve

PN25



Threaded F/F (ISO 228/1)
Chromium plated ball
PTFE seats and packing, adjustable brass packing nut
Working conditions: Water, 0°C to +150°C; Air, -10°C to +150°C
Max 25bar up to 110°C, max 16bar above
PN16 when used with air

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Lever handle version				
F38LN0015.2859	015 - 1/2"	50	346	17,3
F38LN0020.2859	020 - 3/4"	40	454	18,2
F38LN0025.2859	025 - 1"	25	715	17,9
F38LN0032.2859	032 - 1 1/4"	15	1069	16,0
F38LN0040.2859	040 - 1 1/2"	10	1698	17,0
F38LN0050.2859	050 - 2"	6	2500	15,0
Butterfly handle version				
F38LN0015.2860	015 - 1/2"	50	333	16,7
F38LN0020.2860	020 - 3/4"	40	441	17,6
F38LN0025.2860	025 - 1"	25	691	17,3
F38LN0032.2860	032 - 1 1/4"	15	1045	15,7
F38LN0040.2860	040 - 1 1/2"	10	1670	16,7
F38LN0050.2860	050 - 2"	6	2472	14,8

GDV and SINTEF version available on request

380I Solar

Bronze ball valve for high temperatures

PN40



Threaded F/F (ISO 228/1)
Stainless steel ball and stem, blow-out proof stem
PTFE + graphite seats and grafoil packing
Adjustable brass packing nut
Working conditions: Water, -30°C to +200°C
Max 40bar up to 100°C, max 10bar at 200°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F380HI015.2141	015 - 1/2"	50	249	12,5
F380HI020.2141	020 - 3/4"	50	357	17,9
F380HI025.2141	025 - 1"	25	584	14,6
F380HI032.2141	032 - 1 1/4"	20	923	18,5
F380HI040.2141	040 - 1 1/2"	12	1597	19,2
F380HI050.2141	050 - 2"	8	2526	20,2

360

Full port DZR brass ball valve

PN25



Threaded F/F (ISO 228/1)
Chromium plated ball, blow-out proof stem
PTFE seats and packing, adjustable brass packing nut
Working conditions: Water, 0°C to +150°C; Air, -10°C to +150°C
Max 25bar up to 95°C, max 16bar at 150°C
PN16 when used with air

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F3600Y008.213	008 - 1/4"	100	157	15,7
F3600Y010.213	010 - 3/8"	100	140	14,0
F3600Y015.213	015 - 1/2"	50	248	12,4
F3600Y020.213	020 - 3/4"	40	366	14,6
F3600Y025.213	025 - 1"	25	633	15,8
F3600Y032.213	032 - 1 1/4"	16	906	14,5
F3600Y040.213	040 - 1 1/2"	10	1505	15,1
F3600Y050.213	050 - 2"	8	2486	19,9

365 Full port DZR brass ball valve PN25



Olive and nut (O/N) for European copper tubing (EN1057)
Chromium plated ball, blow-out proof stem
PTFE seats and packing, adjustable brass packing nut
Working conditions: Water, 0°C to +150°C; Air, -10°C to +150°C
Max 25bar up to 95°C, max 16bar at 150°C
PN16 when used with air

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F3650Y012.1649	012	100	168	16,8
F3650Y015.1649	015	50	286	14,3
F3650Y018.1649	018	40	298	11,9
F3650Y022.1649	022	40	424	17,0
F3650Y028.1649	028	25	708	17,7
F3650Y035.1649	035	10	1092	10,9
F3650Y042.1649	042	8	1839	14,7
F3650Y054.1649	054	8	3134	25,1

390 Ductile iron ball valve full bore PN16



Flanged Ends (EN1092-2 PN16)
Lengths according EN558-1 series 14 (ex DIN3202 F4)
(EN558-1 series 15, ex DIN3202 F5, for DN200)
Handle in steel, chrome-plated brass ball
Certified version for GAS also available
Working conditions: Water: 0°C to +90°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F3900I025.868	025 - 1"	1	3200	3,2
F3900I032.868	032 - 1 1/4"	1	4400	4,4
F3900I040.868	040 - 1 1/2"	1	5500	5,5
F3900I050.868	050 - 2"	1	8500	8,5
F3900I065.868	065 - 2 1/2"	1	11500	11,5
F3900I080.868	080 - 3"	1	15500	15,5
F3900I100.868	100 - 4"	1	20000	20,0
F3900I125.868	125 - 5"	1	30000	30,0
F3900I150.868	150 - 6"	1	36000	36,0
F3900I200.868	200 - 8"	1	93000	93,0

Versions with actuator, locking device or gearbox on request

39BV0 Stainless steel ball valve PN64



Threaded F/F (ISO 7/1 Rp)
SS316 stainless steel ball and stem, blow-out proof stem
PTFE seats and packing
Stainless steel handle
Working conditions: Water, -20°C to +180°C
PN64 for DN≤50 (max 64bar up to 85°C, max 20bar above)
PN50 for DN≥65 (max 50bar up to 85°C, max 10bar above)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F39BV0008.1237	008 - 1/4"	1	250	0,3
F39BV0010.1237	010 - 3/8"	1	250	0,3
F39BV0015.1237	015 - 1/2"	1	400	0,4
F39BV0020.1237	020 - 3/4"	1	500	0,5
F39BV0025.1237	025 - 1"	1	900	0,9
F39BV0032.1237	032 - 1 1/4"	1	1600	1,6
F39BV0040.1237	040 - 1 1/2"	1	2300	2,3
F39BV0050.1237	050 - 2"	1	3600	3,6
F39BV0065.1237	065 - 2 1/2"	1	7200	7,2
F39BV0080.1237	080 - 3"	1	10800	10,8
F39BV0100.1237	100 - 4"	1	25180	25,2

BALL VALVES

5020DR

Full port brass EzPress ball valve

PN16



EzPress/EzPress ends (European copper and steel tubing)
DZR brass body, chrome-plated brass ball
PTFE seats and packing, adjustable brass packing nut
Blow-out proof brass stem
Working conditions: Water, 0°C to +120°C; Air, -10°C to +120°C
Max 16bar up to 85°C, max 10bar at 120°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F68G00015.3121	015	50	247	12,4
F68G00022.3121	022	40	347	13,9
F68G00028.3121	028	30	591	17,7
F68G00035.3121	035	20	886	17,7
F68G00042.3121	042	10	1567	15,7
F68G00054.3121	054	6	2502	15,0

5020

Full port bronze EzPress ball valve

PN16



5020

5020M

EAC ACS VD

EzPress/EzPress ends (European copper and steel tubing)
Bronze body, chrome-plated brass ball
PTFE seats and packing, adjustable brass packing nut
Blow-out proof brass stem
Working conditions: Water, 0°C to +120°C; Air, -10°C to +120°C
Max 16bar up to 85°C, max 10bar at 120°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
V profile				
F68P00012.1472	012	80	146	11,7
F68P00015.1472	015	50	240	12,0
F68P00018.1472	018	50	271	13,6
F68P00022.1472	022	40	365	14,6
F68P00028.1472	028	30	590	17,7
F68P00035.1472	035	20	896	17,9
F68P00042.1472	042	10	1389	13,9
F68P00054.1472	054	6	2079	12,5
M profile				
F68M00042.3116	042	10	1535	15,4
F68M00054.3116	054	6	2809	16,9

5020LN

Full port bronze EzPress ball valve

PN16



5020LN

5020MLN

VD

EzPress/EzPress ends (European copper and steel tubing)
Bronze body, chrome-plated brass ball
PTFE seats and packing, adjustable brass packing nut
Brass stem and packing nut extension
Working conditions: Water, 0°C to +120°C; Air, -10°C to +120°C
Max 16bar up to 85°C, max 10bar at 120°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
V profile				
F68LN0012.1638	012	50	277	13,9
F68LN0015.1638	015	30	343	10,3
F68LN0018.1638	018	30	361	10,8
F68LN0022.1638	022	30	473	14,2
F68LN0028.1638	028	25	735	18,4
F68LN0035.1638	035	20	1057	21,1
F68LN0042.1638	042	10	1870	18,7
F68LN0054.1638	054	8	2834	22,7
M profile				
F68MLN042.3127	042	10	1830	18,3
F68MLN054.3127	054	8	2809	22,5

5021 Full port bronze EzPress ball valve PN16



EzPress/M ends (European copper/steel tubing - ISO228/1)
Bronze body, chrome-plated brass ball
PTFE seats and packing, adjustable brass packing nut
Blow-out proof brass stem
Working conditions: Water, 0°C to +120°C; Air, -10°C to +120°C
Max 16bar up to 85°C, max 10bar at 120°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F688P0015.1472	015-1/2"	50	250	12,5
F688P0018.1472	018-1/2"	50	260	13,0
F688P0022.1472	022-3/4"	40	370	14,8
F688P0028.1472	028-1"	30	580	17,4
F688P0035.1472	035-1 1/4"	20	900	18,0
F688P0042.1472	042-1 1/2"	10	1570	15,7
F688P0054.1472	054-2"	6	2490	14,9

5028 Full port bronze EzPress ball valve PN16



EzPress/F (European copper/steel tubing - ISO228/1) ends
Female threaded end with tail piece
Bronze body, chrome-plated brass ball
PTFE seats and packing, adjustable brass packing nut
Blow-out proof brass stem
Working conditions: Water, 0°C to +120°C; Air, -10°C to +120°C
Max 16bar up to 85°C, max 10bar at 120°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F687P0015.1472	015-3/4"	50	322	16,1
F687P0018.1472	018-3/4"	50	332	16,6
F687P0022.1472	022-3/4"	50	428	21,4

5024 Full port bronze EzPress ball valve PN16



EzPress/F ends (European copper/steel tubing - ISO228/1)
Bronze body, chrome-plated brass ball
PTFE seats and packing, adjustable brass packing nut
Blow-out proof brass stem
Working conditions: Water, 0°C to +120°C; Air, -10°C to +120°C
Max 16bar up to 85°C, max 10bar at 120°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F683P0015.2030	015-1/2"	50	245	12,3
F683P0018.2030	018-1/2"	50	266	13,3
F683P0022.2030	022-3/4"	40	359	14,4
F683P0028.2030	028-1"	30	593	17,8
F683P0035.2030	035-1 1/4"	20	926	18,5
F683P0042.2030	042-1 1/2"	10	1587	15,9
F683P0054.2030	054-2"	6	2484	14,9

BALL VALVES

322 Boiler drain ball valve PN25



Threaded M (ISO 7/1 R) + hose union
Chromium plated ball, blow-out proof stem
PTFE seats, NBR stem O-ring + PTFE packing
Working conditions: Water, -10°C to +100C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F242X0015.2877	015 - 1/2"	100	165	16,5
F242X0020.2877	020 - 3/4"	65	255	16,6

EAC

323, 324 Brass mini ball valve PN25



Fig.323 thrd M/F (ISO 228/1), Fig.323 thrd F/F (ISO 228/1)
Chrome-plated ball, blow-out proof stem
PTFE Seats, NBR O-ring
Aluminum handle
Working conditions: Water, 5°C to +90°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 323				
F3230A008.917	008 - 1/4"	50	90	4,5
F3230A010.917	010 - 3/8"	50	85	4,3
F3230A015.917	015 - 1/2"	50	100	5,0
F3230A020.917	020 - 3/4"	25	150	3,8
Fig. 324				
F3240A008.917	008 - 1/4"	50	90	4,5
F3240A010.917	010 - 3/8"	50	85	4,3
F3240A015.917	015 - 1/2"	50	100	5,0
F3240A020.917	020 - 3/4"	25	150	3,8

EAC

310N Brass ball bib cock PN16



Threaded M (ISO 228/1) + hose union
Ring and hose union in brass
Chrome-plated ball, nickel-plated body, blow-out proof stem
PTFE seats, NBR stem O-ring
Also available with POM check valve embedded on thread
Working conditions: Water, 0°C to +95°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F310K0015.1779	015 - 1/2"	14	180	2,5
F310K0020.1779	020 - 3/4"	8	295	2,4
F310K0025.1779	025 - 1"	5	450	2,3

EAC

293LK

Brass bib cock with lockshield

PN16



Threaded M (ISO 228/1) + hose union
Ring and hose union in brass
Brass lockshield, NBR seal
PTFE packing, brass packing nut
Lockshield key included
Working conditions: Water, 0°C to +100°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F293LK015.3063	015 - 1/2"	14	255	3,6

328

Brass ball valve with union

PN20



Threaded F/M with union (ISO 228/1)
Chrome-plated ball, nickel-plated body, blow-out proof stem
PTFE seats and packing, NBR union O-ring
Aluminum handle
Working conditions: Water, 0°C to +80°C
PN16 when used with air or for DN≥25

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F3280A015.133	015 - 1/2"	20	200	4,0
F3280A020.133	020 - 3/4"	10	335	3,4
F3280A025.133	025 - 1"	10	530	5,3
F3280A032.133	032 - 1 1/4"	6	800	4,8

EAC

3WL

3 ways “L” port brass ball valve

PN25



Threaded F/F/F (ISO 228/1)
Reduced bore valve
Chrome-plated ball, two PTFE seats sealing, FKM+NBR O-rings
2 threaded bosses for mounting of accessories
Working conditions: Water: 0°C to +150°C; Air: -10°C to +150°C
DN≤50, max 25bar up to 95°C, max 16bar with air or above 95°C
DN≥65, max 25bar up to 95°C, max 10bar with air or above 95°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F3TL00010.847	010 - 3/8"	50	167	8,4
F3TL00015.847	015 - 1/2"	50	214	10,7
F3TL00020.847	020 - 3/4"	25	391	9,8
F3TL00025.847	025 - 1"	25	599	15,0
F3TL00032.847	032 - 1 1/4"	15	909	13,6
F3TL00040.847	040 - 1 1/2"	10	1325	13,3
F3TL00050.847	050 - 2"	6	2219	13,3
F3TL00065.847	065 - 2 1/2"	3	3776	11,3
F3TL00080.847	080 - 3"	2	5896	11,8

EAC

ACCESSORIES & SPARE PARTS FOR BALL VALVES

Flat levers and butterflies



Flat spare handles
Fig. 340T, 340G, 343G, 380, 380LN, 380I Solar, 5020, 5021, 5024, 5028

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
SS304 stainless steel levers				
KXM301008.1196	008 - 010	500	22	11,0
KXM301015.1196	015 - 020	250	40	10,0
KXM301025.1196	025 - 032	150	65	9,8
KXM301040.1196	040 - 050	100	116	11,6
KXM301065.1196	065 - 100	50	405	20,3
Dacromet steel butterflies				
KXF300008.379	008 - 010	500	16	8,0
KXF300015.379	015 - 020	500	28	14,0
KXF300025.379	025 - 032	250	44	11,0
KXF300040.379	040 - 050	250	86	21,5

Bent levers and butterflies



Bent spare handles
Fig. 340, 343, 348, 342, 340 Solar, 340J

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
SS304 stainless steel levers				
KXM300008.354	008 - 010	500	25	12,5
KXM300015.354	015 - 020	250	50	12,5
KXM300025.354	025 - 032	150	77	11,6
KXM300040.354	040 - 050	100	128	12,8
KXM300065.354	065	50	272	13,6
KXM300100.354	080 - 100	25	520	13,0
Aluminum butterflies				
KXF300008.359	008 - 010	500	7	3,5
KXF300015.359	015 - 020	500	20	10,0
KXF300025.359	025 - 032	250	30	7,5
KXF300040.359	040 - 050	200	44	8,8

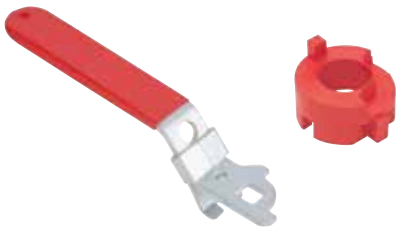
Stem extensions



Aluminum extension with brass rod
(Steel for 390 and 390G models)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 340, 343, 348, 342, 340 Solar, 340J				
K3000X008.277	008 - 010	250	30	7,5
K3000X015.277	015 - 020	250	59	14,8
K3000X025.277	025 - 032	100	78	7,8
K3000X040.277	040 - 050	50	90	4,5
KPR303065.2159	065 - 100	25	282	7,1
Fig. 330, 333, 338				
KPR5C0015.2131	015 - 020	400	50	20,0
KPR5C0025.2131	025 - 032	200	83	16,6
KPR5C0040.2131	040 - 050	100	117	11,7
Fig. 390, 390G				
KPR390040.266	040 - 050	1	500	0,5
KPR390065.266	065 - 100	1	550	0,6
KPR390125.266	125 - 150	1	600	0,6

Lock 99



Lockable flat steel lever
Supplied with polyamide adaptor
Fig. 340, 343, 348, 342, 340 Solar, 340J

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KXM303008.998	008 - 010	500	32	16,0
KXM303015.998	015 - 020	400	59	23,6
KXM303025.998	025 - 032	200	87	17,4
KXM303040.998	040 - 050	200	146	29,2

Lock one



Device to allow padlocking
Fig. 340G e 343G

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
K3000N008.279	008 - 010	100	3	0,3
K3000N015.279	015 - 020	100	6	0,6
K3000N025.279	025 - 032	100	8	0,8
K3000N040.279	040 - 050	50	13	0,7
K3000N065.279	065 - 100	6	36	0,2

Lock one with adaptor



Device to allow padlocking and change from bent to flat lever
Supplied with polyamide adaptor and flat lever
Fig. 340, 343, 348, 342, 340 Solar, 340J

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
K300NK008.656	008 - 010	100	59	5,9
K300NK015.656	015 - 020	100	90	9,0
K300NK025.656	025 - 032	100	117	11,7
K300NK040.656	040 - 050	50	190	9,5
K300NK065.656	065 - 100	6	665	4,0

BUTTERFLY VALVES

4020L, 4020G Ductile iron wafer butterfly valve PN16



Body in epoxy coated ductile iron GGG40
Disc in nickel pl. duct. iron GGG40, stem in SS416 stainless steel
EPDM seat, EPDM O-rings, PTFE bushings
With lockable lever (Fig. 4020L) or gear (4020G)
Max differential pressure 10bar for DN≥350
Working conditions: Water, -10°C a +110°C
Can be equipped with actuator (see page. 64)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 4020L - Cast iron lever				
F4020L032.927	032 - 1 1/4"	1	2600	2,6
F4020L040.927	040 - 1 1/2"	1	2800	2,8
F4020L050.927	050 - 2"	1	3650	3,7
F4020L065.927	065 - 2 1/2"	1	4700	4,7
F4020L080.927	080 - 3"	1	4500	4,5
F4020L100.927	100 - 4"	1	6250	6,3
F4020L125.927	125 - 5"	1	7700	7,7
F4020L150.927	150 - 6"	1	9100	9,1
F4020L200.927	200 - 8"	1	13600	13,6
F4020L250.927	250 - 10"	1	21700	21,7
F4020L300.927	300 - 12"	1	32000	32,0
Fig. 4020L - Aluminium lever				
F4020L032.2301	032 - 1 1/4"	1	2300	2,3
F4020L040.2301	040 - 1 1/2"	1	2600	2,6
F4020L050.2301	050 - 2"	1	3270	3,3
F4020L065.2301	065 - 2 1/2"	1	3970	4,0
F4020L080.2301	080 - 3"	1	4470	4,5
F4020L100.2301	100 - 4"	1	6070	6,1
F4020L125.2301	125 - 5"	1	7370	7,4
F4020L150.2301	150 - 6"	1	8770	8,8
F4020L200.2301	200 - 8"	1	13300	13,3
F4020L250.2301	250 - 10"	1	19800	19,8
F4020L300.2301	300 - 12"	1	31600	31,6
Fig. 4020G				
F4020G032.928	032 - 1 1/4"	1	7300	7,3
F4020G040.928	040 - 1 1/2"	1	7600	7,6
F4020G050.928	050 - 2"	1	8100	8,1
F4020G065.928	065 - 2 1/2"	1	8900	8,9
F4020G080.928	080 - 3"	1	9200	9,2
F4020G100.928	100 - 4"	1	11000	11,0
F4020G125.928	125 - 5"	1	13000	13,0
F4020G150.928	150 - 6"	1	12000	12,0
F4020G200.928	200 - 8"	1	21900	21,9
F4020G250.928	250 - 10"	1	27400	27,4
F4020G300.928	300 - 12"	1	39500	39,5
F4020G350.928	350 - 14"	1	49000	49,0
F4020G400.928	400 - 16"	1	85000	85,0
F4020G450.928	450 - 18"	1	117700	117,7
F4020G500.928	500 - 20"	1	160100	160,1
F4020G600.928	600 - 24"	1	257500	257,5

4320L, 4320G Ductile iron lug butterfly valve PN16



Body in epoxy coated ductile iron GGG40
Disc in nickel pl. duct. iron GGG40, stem in SS416 stainless steel
EPDM seat, EPDM O-rings, PTFE bushings
With lockable lever (Fig. 4320L) or gear (4320G)
Max differential pressure 10bar for DN≥350
Working conditions: Water, -10°C a +110°C
Can be equipped with actuator (see page. 64)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 4320L - Cast iron lever				
F4320L032.927	032 - 1 1/4"	1	3400	3,4
F4320L040.927	040 - 1 1/2"	1	3400	3,4
F4320L050.927	050 - 2"	1	4200	4,2
F4320L065.927	065 - 2 1/2"	1	5000	5,0
F4320L080.927	080 - 3"	1	5800	5,8
F4320L100.927	100 - 4"	1	7500	7,5
F4320L125.927	125 - 5"	1	10300	10,3
F4320L150.927	150 - 6"	1	11500	11,5
F4320L200.927	200 - 8"	1	19200	19,2
F4320L250.927	250 - 10"	1	27100	27,1
F4320L300.927	300 - 12"	1	50200	50,2

Version for PN10 flanges (F4320Lmis.2987) available for DN200-DN300

Fig. 4320L - Aluminium lever				
F4320L032.2301	032 - 1 1/4"	1	2980	3,0
F4320L040.2301	040 - 1 1/2"	1	3300	3,3
F4320L050.2301	050 - 2"	1	4670	4,7
F4320L065.2301	065 - 2 1/2"	1	4970	5,0
F4320L080.2301	080 - 3"	1	5370	5,4
F4320L100.2301	100 - 4"	1	8770	8,8
F4320L125.2301	125 - 5"	1	12370	12,4
F4320L150.2301	150 - 6"	1	13170	13,2
F4320L200.2301	200 - 8"	1	18100	18,1
F4320L250.2301	250 - 10"	1	28300	28,3
F4320L300.2301	300 - 12"	1	43800	43,8

Fig. 4320G				
F4320G032.928	032 - 1 1/4"	1	6300	6,3
F4320G040.928	040 - 1 1/2"	1	6300	6,3
F4320G050.928	050 - 2"	1	7100	7,1
F4320G065.928	065 - 2 1/2"	1	7900	7,9
F4320G080.928	080 - 3"	1	8600	8,6
F4320G100.928	100 - 4"	1	10400	10,4
F4320G125.928	125 - 5"	1	13200	13,2
F4320G150.928	150 - 6"	1	14400	14,4
F4320G200.928	200 - 8"	1	26300	26,3
F4320G250.928	250 - 10"	1	32800	32,8
F4320G300.928	300 - 12"	1	59900	59,9
F4320G350.928	350 - 14"	1	77400	77,4
F4320G400.928	400 - 16"	1	121830	121,8
F4320G450.928	450 - 18"	1	158700	158,7
F4320G500.928	500 - 20"	1	226600	226,6
F4320G600.928	600 - 24"	1	315500	315,5

Version with PN10 flanges (F4320Gmis.2988) available for DN200-DN300

BUTTERFLY VALVES

4029L, 4029G Ductile iron wafer butterfly valve PN16



Body in epoxy coated ductile iron GGG40
Disc and stem in SS316 stainless steel
NBR seat, FKM O-rings, PTFE bushings
With lockable lever (Fig. 4029L) or gear (4029G)
Max differential pressure 10bar for DN≥350
Working conditions: Water, -10°C a +90°C
Can be equipped with actuator (see page. 64)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 4029L - Cast iron lever				
F4029L032.929	032 - 1 1/4"	1	2300	2,3
F4029L040.929	040 - 1 1/2"	1	3300	3,3
F4029L050.929	050 - 2"	1	3700	3,7
F4029L065.929	065 - 2 1/2"	1	4400	4,4
F4029L080.929	080 - 3"	1	4900	4,9
F4029L100.929	100 - 4"	1	6500	6,5
F4029L125.929	125 - 5"	1	7800	7,8
F4029L150.929	150 - 6"	1	9200	9,2
F4029L200.929	200 - 8"	1	14700	14,7
F4029L250.929	250 - 10"	1	21200	21,2
F4029L300.929	300 - 12"	1	33000	33,0
Fig. 4029L - Aluminium lever				
F4029L032.2302	032 - 1 1/4"	1	2300	2,3
F4029L0402302	040 - 1 1/2"	1	3000	3,0
F4029L050.2302	050 - 2"	1	3270	3,3
F4029L065.2302	065 - 2 1/2"	1	3970	4,0
F4029L080.2302	080 - 3"	1	4470	4,5
F4029L100.2302	100 - 4"	1	6070	6,1
F4029L125.2302	125 - 5"	1	7370	7,4
F4029L150.2302	150 - 6"	1	8770	8,8
F4029L200.2302	200 - 8"	1	13300	13,3
F4029L250.2302	250 - 10"	1	19800	19,8
F4029L300.2302	300 - 12"	1	31600	31,6
Fig. 4029G				
F4029G032.1009	032 - 1 1/4"	1	7300	7,3
F4029G040.1009	040 - 1 1/2"	1	7600	7,6
F4029G050.1009	050 - 2"	1	8100	8,1
F4029G065.1009	065 - 2 1/2"	1	8900	8,9
F4029G080.1009	080 - 3"	1	9200	9,2
F4029G100.1009	100 - 4"	1	11000	11,0
F4029G125.1009	125 - 5"	1	13000	13,0
F4029G150.1009	150 - 6"	1	13370	13,4
F4029G200.1009	200 - 8"	1	25700	25,7
F4029G250.1009	250 - 10"	1	32200	32,2
F4029G300.1009	300 - 12"	1	46500	46,5
F4029G350.1009	350 - 14"	1	60000	60,0
F4029G400.1009	400 - 16"	1	103000	103,0
F4029G450.1009	450 - 18"	1	119000	119,0
F4029G500.1009	500 - 20"	1	162000	162,0
F4029G600.1009	600 - 24"	1	259000	259,0

4329L, 4329G Ductile iron lug butterfly valve PN16



Body in epoxy coated ductile iron GGG40
Disc and stem in SS316 stainless steel
NBR seat, FKM O-rings, PTFE bushings
With lockable lever (Fig. 4329L) or gear (4329G)
Max differential pressure 10bar for DN≥350
Working conditions: Water, -10°C a +90°C
Can be equipped with actuator (see page. 64)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 4329L - Cast iron lever				
F4329L032.929	032 - 1 1/4"	1	4400	4,4
F4329L040.929	040 - 1 1/2"	1	4600	4,6
F4329L050.929	050 - 2"	1	5100	5,1
F4329L065.929	065 - 2 1/2"	1	5000	5,0
F4329L080.929	080 - 3"	1	5800	5,8
F4329L100.929	100 - 4"	1	9200	9,2
F4329L125.929	125 - 5"	1	10400	10,4
F4329L150.929	150 - 6"	1	13600	13,6
F4329L200.929	200 - 8"	1	19500	19,5
F4329L250.929	250 - 10"	1	29700	29,7
F4329L300.929	300 - 12"	1	45200	45,2
Fig. 4329L - Aluminium lever				
F4329L032.2302	032 - 1 1/4"	1	4400	4,4
F4329L040.2302	040 - 1 1/2"	1	4600	4,6
F4329L050.2302	050 - 2"	1	5100	5,1
F4329L065.2302	065 - 2 1/2"	1	5000	5,0
F4329L080.2302	080 - 3"	1	5800	5,8
F4329L100.2302	100 - 4"	1	9200	9,2
F4329L125.2302	125 - 5"	1	10400	10,4
F4329L150.2302	150 - 6"	1	13600	13,6
F4329L200.2302	200 - 8"	1	19500	19,5
F4329L250.2302	250 - 10"	1	29700	29,7
F4329L300.2302	300 - 12"	1	45200	45,2
Fig. 4329G				
F4329G032.1009	032 - 1 1/4"	1	7600	7,6
F4329G040.1009	040 - 1 1/2"	1	8900	8,9
F4329G050.1009	050 - 2"	1	9500	9,5
F4329G065.1009	065 - 2 1/2"	1	11000	11,0
F4329G080.1009	080 - 3"	1	11600	11,6
F4329G100.1009	100 - 4"	1	13700	13,7
F4329G125.1009	125 - 5"	1	18000	18,0
F4329G150.1009	150 - 6"	1	19000	19,0
F4329G200.1009	200 - 8"	1	32000	32,0
F4329G250.1009	250 - 10"	1	42000	42,0
F4329G300.1009	300 - 12"	1	60000	60,0
F4329G350.1009	350 - 14"	1	85000	85,0
F4329G400.1009	400 - 16"	1	141000	141,0
F4329G450.1009	450 - 18"	1	168000	168,0
F4329G500.1009	500 - 20"	1	229000	229,0
F4329G600.1009	600 - 24"	1	312000	312,0

BUTTERFLY VALVES

4025L, 4025G Ductile iron wafer butterfly valve PN16



Body in epoxy coated ductile iron GGG40
Disc and stem in SS316 stainless steel
EPDM seat, EPDM O-rings, PTFE bushings
With lockable lever (Fig. 4025L) or gear (4025G)
Max differential pressure 10bar for DN≥350
Working conditions: Water, -10°C a +110°C
Can be equipped with actuator (see page. 64)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 4025L - Cast iron lever				
F4025L032.929	032 - 1 1/4"	1	2600	2,6
F4025L040.929	040 - 1 1/2"	1	2800	2,8
F4025L050.929	050 - 2"	1	3650	3,7
F4025L065.929	065 - 2 1/2"	1	4700	4,7
F4025L080.929	080 - 3"	1	4500	4,5
F4025L100.929	100 - 4"	1	6250	6,3
F4025L125.929	125 - 5"	1	7700	7,7
F4025L150.929	150 - 6"	1	9100	9,1
F4025L200.929	200 - 8"	1	13600	13,6
F4025L250.929	250 - 10"	1	21700	21,7
F4025L300.929	300 - 12"	1	32000	32,0
Fig. 4025L - Aluminium lever				
F4025L032.2302	032 - 1 1/4"	1	2300	2,3
F4025L040.2302	040 - 1 1/2"	1	2600	2,6
F4025L050.2302	050 - 2"	1	3270	3,3
F4025L065.2302	065 - 2 1/2"	1	3970	4,0
F4025L080.2302	080 - 3"	1	4470	4,5
F4025L100.2302	100 - 4"	1	6070	6,1
F4025L125.2302	125 - 5"	1	7370	7,4
F4025L150.2302	150 - 6"	1	8770	8,8
F4025L200.2302	200 - 8"	1	13300	13,3
F4025L250.2302	250 - 10"	1	19800	19,8
F4025L300.2302	300 - 12"	1	31600	31,6
Fig. 4025G				
F4025G032.1009	032 - 1 1/4"	1	7300	7,3
F4025G040.1009	040 - 1 1/2"	1	7600	7,6
F4025G050.1009	050 - 2"	1	6700	6,7
F4025G065.1009	065 - 2 1/2"	1	7600	7,6
F4025G080.1009	080 - 3"	1	8300	8,3
F4025G100.1009	100 - 4"	1	9150	9,2
F4025G125.1009	125 - 5"	1	10900	10,9
F4025G150.1009	150 - 6"	1	12000	12,0
F4025G200.1009	200 - 8"	1	21900	21,9
F4025G250.1009	250 - 10"	1	28000	28,0
F4025G300.1009	300 - 12"	1	46500	46,5
F4025G350.1009	350 - 14"	1	49480	49,5
F4025G400.1009	400 - 16"	1	92160	92,2
F4025G450.1009	450 - 18"	1	119000	119,0
F4025G500.1009	500 - 20"	1	162000	162,0
F4025G600.1009	600 - 24"	1	259000	259,0

4325L, 4325G Ductile iron butterfly valve **PN16**



Body in epoxy coated ductile iron GGG40
Disc and stem in SS316 stainless steel
EPDM seat, EPDM O-rings, PTFE bushings
With lockable lever (Fig. 4325L) or gear (4325G)
Max differential pressure 10bar for DN≥350
Working conditions: Water, -10°C a +110°C
Can be equipped with actuator (see page. 64)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 4325L - Cast iron lever				
F4325L032.929	032 - 1 1/4"	1	3400	3,4
F4325L040.929	040 - 1 1/2"	1	3400	3,4
F4325L050.929	050 - 2"	1	4200	4,2
F4325L065.929	065 - 2 1/2"	1	5000	5,0
F4325L080.929	080 - 3"	1	5800	5,8
F4325L100.929	100 - 4"	1	7500	7,5
F4325L125.929	125 - 5"	1	10300	10,3
F4325L150.929	150 - 6"	1	11500	11,5
F4325L200.929	200 - 8"	1	19200	19,2
F4325L250.929	250 - 10"	1	27100	27,1
F4325L300.929	300 - 12"	1	50200	50,2

Version for PN10 flanges (F4325Lmis.2989) available for DN200-DN300

Fig. 4325L - Aluminium lever				
F4325L032.2302	032 - 1 1/4"	1	2980	3,0
F4325L040.2302	040 - 1 1/2"	1	3300	3,3
F4325L050.2302	050 - 2"	1	4670	4,7
F4325L065.2302	065 - 2 1/2"	1	4970	5,0
F4325L080.2302	080 - 3"	1	5370	5,4
F4325L100.2302	100 - 4"	1	8770	8,8
F4325L125.2302	125 - 5"	1	12370	12,4
F4325L150.2302	150 - 6"	1	13170	13,2
F4325L200.2302	200 - 8"	1	18100	18,1
F4325L250.2302	250 - 10"	1	28300	28,3
F4325L300.2302	300 - 12"	1	43800	43,8

Fig. 4325G				
F4325G032.1009	032 - 1 1/4"	1	7980	8,0
F4325G040.1009	040 - 1 1/2"	1	8900	8,9
F4325G050.1009	050 - 2"	1	9500	9,5
F4325G065.1009	065 - 2 1/2"	1	7900	7,9
F4325G080.1009	080 - 3"	1	8600	8,6
F4325G100.1009	100 - 4"	1	10400	10,4
F4325G125.1009	125 - 5"	1	13200	13,2
F4325G150.1009	150 - 6"	1	14400	14,4
F4325G200.1009	200 - 8"	1	26300	26,3
F4325G250.1009	250 - 10"	1	32800	32,8
F4325G300.1009	300 - 12"	1	59900	59,9
F4325G350.1009	350 - 14"	1	77400	77,4
F4325G400.1009	400 - 16"	1	121830	121,8
F4325G450.1009	450 - 18"	1	143000	143,0
F4325G500.1009	500 - 20"	1	252000	252,0
F4325G600.1009	600 - 24"	1	312000	315,5

Version for PN10 flanges (F4325Gmis.2990) available for DN200-DN300

BUTTERFLY VALVES

402WL, 402WG Ductile iron wafer butterfly valve PN16



Body in epoxy coated ductile iron GGG40
Disc in epoxy coated duct. iron, stem in SS416 stainless steel
EPDM seat, EPDM O-rings, PTFE bushings
With lockable lever (Fig. 402WL) or gear (402WG)
Working conditions: Water, -10°C a +110°C
Can be equipped with actuator (see page. 64)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 402WL - Aluminium lever				
F402WL032.2904	032 - 1 1/4"	1	2900	2,9
F402WL040.2904	040 - 1 1/2"	1	3000	3,0
F402WL050.2904	050 - 2"	1	3650	3,7
F402WL065.2904	065 - 2 1/2"	1	4700	4,7
F402WL080.2904	080 - 3"	1	4500	4,5
F402WL100.2904	100 - 4"	1	6200	6,2
F402WL125.2904	125 - 5"	1	7300	7,3
F402WL150.2904	150 - 6"	1	8700	8,7
F402WL200.2904	200 - 8"	1	13300	13,3
F402WL250.2904	250 - 10"	1	19800	19,8
F402WL300.2904	300 - 12"	1	31600	31,6
Fig. 402WG				
F402WG032.928	032 - 1 1/4"	1	7900	7,9
F402WG040.928	040 - 1 1/2"	1	8000	8,0
F402WG050.928	050 - 2"	1	8650	8,7
F402WG065.928	065 - 2 1/2"	1	9700	9,7
F402WG080.928	080 - 3"	1	9500	9,5
F402WG100.928	100 - 4"	1	11200	11,2
F402WG125.928	125 - 5"	1	12300	12,3
F402WG150.928	150 - 6"	1	13700	13,7
F402WG200.928	200 - 8"	1	26300	26,3
F402WG250.928	250 - 10"	1	32800	32,8
F402WG300.928	300 - 12"	1	44600	44,6

432WL, 432WG Ductile iron lug butterfly valve PN16



Body in epoxy coated ductile iron GGG40
Disc in epoxy coated duct. iron, stem in SS416 stainless steel
EPDM seat, EPDM O-rings, PTFE bushings
With lockable lever (Fig. 432WL) or gear (432WG)
Working conditions: Water, -10°C a +110°C
Can be equipped with actuator (see page. 64)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 432WL - Aluminium lever				
F432WL032.2904	032 - 1 1/4"	1	3500	3,5
F432WL040.2904	040 - 1 1/2"	1	3800	3,8
F432WL050.2904	050 - 2"	1	5200	5,2
F432WL065.2904	065 - 2 1/2"	1	5500	5,5
F432WL080.2904	080 - 3"	1	5900	5,9
F432WL100.2904	100 - 4"	1	9300	9,3
F432WL125.2904	125 - 5"	1	12900	12,9
F432WL150.2904	150 - 6"	1	13700	13,7
F432WL200.2904	200 - 8"	1	19500	19,5
F432WL250.2904	250 - 10"	1	29700	29,7
F432WL300.2904	300 - 12"	1	45200	45,2
Fig. 432WG				
F432WG032.928	032 - 1 1/4"	1	9100	9,1
F432WG040.928	040 - 1 1/2"	1	9400	9,4
F432WG050.928	050 - 2"	1	10800	10,8
F432WG065.928	065 - 2 1/2"	1	11100	11,1
F432WG080.928	080 - 3"	1	11500	11,5
F432WG100.928	100 - 4"	1	14900	14,9
F432WG125.928	125 - 5"	1	18500	18,5
F432WG150.928	150 - 6"	1	19300	19,3
F432WG200.928	200 - 8"	1	28300	28,3
F432WG250.928	250 - 10"	1	38500	38,5
F432WG300.928	300 - 12"	1	54000	54,0

4520L, 4520G Ductile iron wafer butterfly valve PN25



Body in epoxy coated ductile iron GGG40
Disc in nickel pl. duct. iron GGG40, stem in SS416 stainless steel
EPDM seat, EPDM O-rings, PTFE bushings
With lockable lever (Fig. 4520L) or gear (4520G)
Working conditions: Water, -10°C a +110°C
Can be equipped with actuator (see page. 64)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 4520L				
F4520L050.927	050 - 2"	1	4300	4,3
F4520L065.927	065 - 2 1/2"	1	4700	4,7
F4520L080.927	080 - 3"	1	5100	5,1
F4520L100.927	100 - 4"	1	6100	6,1
F4520L125.927	125 - 5"	1	7900	7,9
F4520L150.927	150 - 6"	1	9600	9,6
Fig. 4520G				
F4520G050.928	050 - 2"	1	8400	8,4
F4520G065.928	065 - 2 1/2"	1	8800	8,8
F4520G080.928	080 - 3"	1	9200	9,2
F4520G100.928	100 - 4"	1	10200	10,2
F4520G125.928	125 - 5"	1	12000	12,0
F4520G150.928	150 - 6"	1	13700	13,7
F4520G200.928	200 - 8"	1	33900	33,0
F4520G250.928	250 - 10"	1	48000	48,0
F4520G300.928	300 - 12"	1	60000	60,0
F4520G350.928	350 - 14"	1	72000	72,0
F4520G400.928	400 - 16"	1	156000	156,0
F4520G450.928	450 - 18"	1	182000	182,0
F4520G500.928	500 - 20"	1	242000	242,0
F4520G600.928	600 - 24"	1	365000	365,0

4620L, 4620G Ductile iron lug butterfly valve PN25



Body in epoxy coated ductile iron GGG40
Disc in nickel pl. duct. iron GGG40, stem in SS416 stainless steel
EPDM seat, EPDM O-rings, PTFE bushings
With lockable lever (Fig. 4620L) or gear (4620G)
Working conditions: Water, -10°C a +110°C
Can be equipped with actuator (see page. 64)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 4620L				
F4620L050.927	050 - 2"	1	5100	5,1
F4620L065.927	065 - 2 1/2"	1	5000	5,0
F4620L080.927	080 - 3"	1	6000	6,0
F4620L100.927	100 - 4"	1	9200	9,2
F4620L125.927	125 - 5"	1	10400	10,4
F4620L150.927	150 - 6"	1	13600	13,6
Fig. 4620G				
F4620G050.928	050 - 2"	1	9500	9,5
F4620G065.928	065 - 2 1/2"	1	11000	11,0
F4620G080.928	080 - 3"	1	11600	11,6
F4620G100.928	100 - 4"	1	13700	13,7
F4620G125.928	125 - 5"	1	18000	18,0
F4620G150.928	150 - 6"	1	19000	19,0
F4620G200.928	200 - 8"	1	27500	27,5
F4620G250.928	250 - 10"	1	32800	32,8
F4620G300.928	300 - 12"	1	60000	60,0

BUTTERFLY VALVES

4820L Grooved ductile iron butterfly valve PN25



Body in ductile iron GGG50 epoxy coating
Disc in ductile iron GGG50 coated in EPDM
Stem in SS420 stainless steel
EPDM O-rings, PTFE bushing
PN10 for DN250 and DN300
Working conditions: Water, 0°C a +110°C
Can be equipped with actuator (see page. 64)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F482BL050.1944	60,3	1	3400	3,4
F482BL065.1944	76,1*	1	3300	4,3
F482BL080.1944	88,9	1	4800	4,8
F482BL100.1944	114,3	1	7000	7,0
F482BL125.1944	139,7*	1	9000	8,5
F482BL150.1944	168,3	1	11500	11,5
F482BL200.1944	219,1	1	15600	15,6
F482BL250.1944	273	1	29000	29,0
F482BL300.1944	323,9	1	36000	36,0

*Metric groove standard

ACCESSORIES FOR BUTTERFLY VALVES

Levers for butterfly valves



Cast iron version



Aluminum version

Available in cast iron or aluminum
ISO 5211 connection
Available with black coating

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Cast iron				
KXM4PAA00.932	032 - 080	1	900	0,9
KXM4PAB00.932	100	1	900	0,9
KXM4PAC00.932	125 - 150	1	900	0,9
KXM4PAD00.932	200	1	2000	2,0
KXM4PAE00.932	250	1	2000	2,0
KXM4PAF00.932	300	1	2000	2,0
Aluminum				
KXM4PCA00.1525	032 - 080	1	400	0,4
KXM4PCB00.1525	100	1	400	0,4
KXM4PCC00.1525	125 - 150	1	400	0,4
KXM4PCD00.1525	200	1	400	0,4
KXM4PCE00.1525	250	1	600	0,6
KXM4PCF00.1525	300	1	600	0,6

For all items except 4820L

Gears for butterfly valves



Cast iron gears
ISO5211 connection

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KXV4PAA00.932	032 - 080	1	3800	3,8
KXV4PAB00.932	100	1	5000	5,0
KXV4PAC00.932	125 - 150	1	3800	3,8
KXV4PAD00.932	200	1	9900	9,9
KXV4PAE00.932	250	1	8800	8,8
KXV4PAF00.932	300	1	15000	15,0

For all items except 4820L

Gear with limit switches



Aluminum gear with limit switches
Connection for valve according ISO 5211
1 open and 1 close limit switch, IP65

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KXV4PEA00.2933	032 - 080	1	5500	5,5
KXV4PEB00.2933	100	1	5500	5,5
KXV4PEC00.2933	125 - 150	1	5500	5,5
KXV4PED00.2933	200	1	8000	8,0
KXV4PEE00.2933	250	1	8000	8,0
KXV4PEF00.2933	300	1	10500	10,5

CE

For all items except 4820L

ACCESSORIES FOR BUTTERFLY VALVES

Limit switch for butterfly valves with lever



Limit switch for butterfly valves with lever
Enclosure protection: IP65
Supplied with mounting pad for flange ISO 5211 F05/F07
Suitable for mounting on open or close position
Mounting screws included

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Version for cast iron lever				
KSC4PEA00.1612	032 - 150	1	132	0,1
Version for aluminum lever				
KSC4PEA01.1612	032 - 300	1	80	0,1

CE

For all items except 4820L

Limit switch box for pneumatic actuator



NAMUR connection for actuator
Body in technopolymer
Enclosure protection: IP65
1NO/1NC open switch + 1NO/1NC close switch

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KA0FX00A2.801	-	1	230	0,2

CE

For all Hovercraft actuators

Solenoid valve for pneumatic actuator



NAMUR connection for actuator
Body in technopolymer
Enclosure protection: IP65
Convertible Monostable
Supply fluid pressures: 2,5bar to 10bar

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
230VAC version				
KA0010ZB2.801	-	1	170	0,2
24VAC version				
KA0080ZB2.801	-	1	170	0,2
24VDC version				
KA0030ZB2.801	-	1	170	0,2
110VAC version				
KA0020ZB2.801	-	1	170	0,2

CE

For all Hovercraft actuators

Electro pneumatic positioner for pneumatic actuator



NAMUR connection for actuator
Cast aluminum body
Enclosure protection IP66
Supply voltage 10-30 VDC
Input and output control signal: 4-20 mA
Allowable supply fluid pressures from 1,4bar to 7bar

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KAPEY0100.2553	-	1	2100	2,1

ACTUATORS FOR BUTTERFLY VALVES

CUTTER-AQ Electric Actuator



Fig. 4020, 4025, 4029, 402W
Fig. 4520
Fig. 4320, 4325, 4329, 432W
Fig. 4620

CE

Supply voltage: 85-260VAC/24VDC, 230VAC or 24VDC
ISO5211 connection
Enclosure protection: IP68
Travel time for 90°: 12" to 80" (depending on model)
Auxiliary microswitches: 2
3 point control
Manual override

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
85-260VAC or 24VDC version				
KACUTAQ00.800	-	1	2500	2,5
KACUTAQ01.800	-	1	2500	2,5
KACUTAQ02.800	-	1	3000	3,0
230VAC version				
KACUTAQ03.800	-	1	10000	10,0
KACUTAQ04.800	-	1	10000	10,0
KACUTAQ06.800	-	1	15000	15,0
KACUTAQ07.800	-	1	15000	15,0
KACUTAQ11.800	-	1	18000	18,0
KACUTAQ12.800	-	1	48000	48,0
KACUTAQ13.800	-	1	58000	58,0
24VDC version				
KACUTAQ08.800	-	1	10000	10,0
KACUTAQ09.800	-	1	10000	10,0
KACUTAQ10.800	-	1	15000	15,0

Modulating version with 4-20mA control and 4-20mA position transmitter on request

Vir Code	Fig. 4020, 4025, 4029, 402W Fig. 4320, 4325, 4329, 432W	Fig. 4520 Fig. 4620
85-260VAC or 24VDC version		
KACUTAQ00.800	DN032/DN040	-
KACUTAQ01.800	DN050/DN080	-
KACUTAQ02.800	DN100	DN050/DN080
230VAC version		
KACUTAQ03.800	DN125	DN100
KACUTAQ04.800	DN150	DN125
KACUTAQ06.800	DN200	DN150
KACUTAQ07.800	DN250	DN200
KACUTAQ11.800	DN300/DN350	-
KACUTAQ12.800	DN400/DN450	-
KACUTAQ13.800	DN500/DN600	-
24VDC version		
KACUTAQ08.800	DN125	DN100
KACUTAQ09.800	DN150	DN125
KACUTAQ10.800	DN200	DN150

HOVERCRAFT Aluminum Pneumatic Actuator



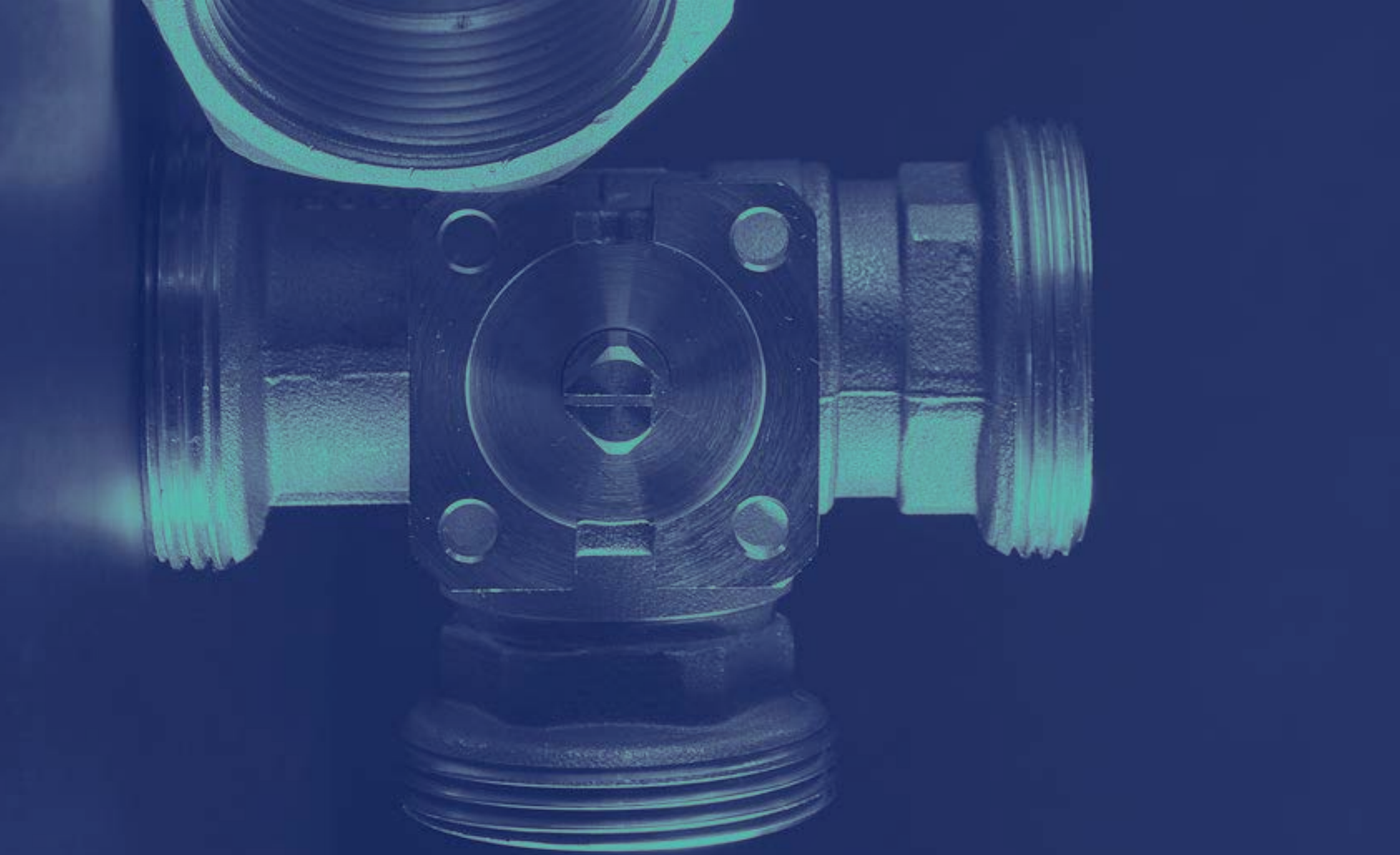
Fig. 4020, 4025, 4029, 402W
Fig. 4520
Fig. 4320, 4325, 4329, 432W
Fig. 4620

Anodized aluminum body
ISO5211 connection
Nickel plated steel pinion
Flange, end cap and pistons in die cast aluminum
Air supply: 1 to 10 bar
Double acting or spring return versions available

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Double acting version				
KAHOVER15.801	-	1	1830	1,8
KAHOVER16.801	-	1	2350	2,4
KAHOVER17.801	-	1	2870	2,9
KAHOVER18.801	-	1	4000	4,0
KAHOVER19.801	-	1	4840	4,8
KAHOVER21.801	-	1	9030	9,0
KAHOVER22.801	-	1	12460	12,5
KAHOVER23.801	-	1	17800	17,8
KAHOVER24.801	-	1	22180	22,2
KAHOVER25.801	-	1	36300	36,3
KAHOVER26.801	-	1	42800	42,8
KAHOVER27.801	-	1	66800	66,8
Spring return version				
KAHOVER29.801	-	1	2590	2,6
KAHOVER30.801	-	1	3250	3,3
KAHOVER31.801	-	1	4520	4,5
KAHOVER32.801	-	1	5570	5,6
KAHOVER34.801	-	1	10710	10,7
KAHOVER35.801	-	1	15020	15,0
KAHOVER36.801	-	1	22630	22,6
KAHOVER37.801	-	1	27000	27,0
KAHOVER38.801	-	1	45900	45,9
KAHOVER39.801	-	1	52400	52,4
KAHOVER40.801	-	1	82960	83,0

Vir Code	Fig. 4020, 4025, 4029, 402W Fig. 4320, 4325, 4329, 432W	Fig. 4520 Fig. 4620
Double acting version		
KAHOVER15.801	DN032/DN080	DN050
KAHOVER16.801	-	DN065
KAHOVER17.801	DN100	DN080
KAHOVER18.801	DN125	DN100
KAHOVER19.801	DN150	DN125
KAHOVER21.801	DN200	DN150
KAHOVER22.801	-	DN200
KAHOVER23.801	DN250	-
KAHOVER24.801	DN300/DN350	DN250
KAHOVER25.801	DN400	DN300
KAHOVER26.801	DN450	-
KAHOVER27.801	DN500	-
Spring return version		
KAHOVER29.801	DN032/DN050	-
KAHOVER30.801	DN065	-
KAHOVER31.801	DN080	DN050
KAHOVER32.801	DN100	DN065/DN080
KAHOVER34.801	DN125	DN100
KAHOVER35.801	DN150	DN125
KAHOVER36.801	DN200	-
KAHOVER37.801	-	DN150
KAHOVER38.801	DN250	DN200
KAHOVER39.801	DN300	-
KAHOVER40.801	DN350/DN400	-





REGULATING and CONTROL

REGULATING BALL VALVES

980S DZR brass 2-way regulation valve PN16



Threaded F/F
DZR brass body, flange, ball and stem
Chrome-plated ball, Blow-out proof stem, equal percentage char.
PTFE Seats, EPDM Perox O-rings
Actuator connection according ISO 5211 F04- □9mm
Working conditions: Water, -10°C to +130°C
Shell PN40, Max differential pressure 3,5bar

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F980Ss015.1861	015 - 1/2"	36	272	9,8
F980Ss020.1861	020 - 3/4"	36	303	10,9
F980Ss025.1861	025 - 1"	18	452	8,1
F980Ss032.1861	032 - 1 1/4"	18	689	12,4
F980Ss040.1861	040 - 1 1/2"	13	1114	14,5
F980Ss050.1861	050 - 2"	13	1748	22,7

Kv100%, DN15: 10 (s=0), 6,3 (s=1), 4,0 (s=2), 2,5 (s=3), 1,6 (s=4), 1,0 (s=5)
0,63 (s=6), 0,4 (s=7), 0,25 (s=8)
Kv100%, DN20: 10 (s=0), 6,3 (s=1), 4,0 (s=2)
Kv100%, DN25: 16 (s=0), 10 (s=1), 6,3 (s=2)
Kv100%, DN32: 25 (s=0), 16 (s=1), 10 (s=2)
Kv100%, DN40: 40 (s=0), 25 (s=1), 16 (s=2)
Kv100%, DN50: 63 (s=0), 40 (s=1), 25 (s=2)

980T DZR brass 3-way regulation valve PN16



Threaded F/F/F (ISO 7/1 Rp)
DZR brass body, flange, ball and stem
Chrome-plated ball, Blow-out proof stem, equal percentage char.
PTFE Seats, EPDM Perox O-rings
Actuator connection according ISO 5211 F04- □9mm
Working conditions: Water, -10°C to +130°C
Shell PN40, Max differential pressure 3,5bar

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F980Ts015.1861	015 - 1/2"	36	306	11,1
F980Ts020.1861	020 - 3/4"	36	375	13,5
F980Ts025.1861	025 - 1"	18	604	10,9
F980Ts032.1861	032 - 1 1/4"	13	971	12,6
F980Ts040.1861	040 - 1 1/2"	13	1364	17,7
F980Ts050.1861	050 - 2"	3	2266	6,8

Kv100%, DN15: 6,3 (s=1), 4,0 (s=2), 2,5 (s=3), 1,6 (s=4)
Kv100%, DN20: 6,3 (s=1), 4,0 (s=2)
Kv100%, DN25: 10 (s=1)
Kv100%, DN32: 16 (s=1)
Kv100%, DN40: 25 (s=1)
Kv100%, DN50: 63 (s=0), 40 (s=1)

988S DZR brass 2-way regulation valve PN16



Threaded M/M (ISO 228/1 for union)
DZR brass body, flange, ball and stem
Chrome-plated ball, Blow-out proof stem, equal percentage char.
PTFE Seats, EPDM Perox O-rings
Actuator connection according ISO 5211 F04- □9mm
Working conditions: Water, -10°C to +130°C
Shell PN40, Max differential pressure 3,5bar

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F988Ss015.2599	015 - 1/2"	18	358	6,4
F988Ss020.2599	020 - 3/4"	18	438	7,9
F988Ss025.2599	025 - 1"	18	524	9,4
F988Ss032.2599	032 - 1 1/4"	13	839	10,9
F988Ss040.2599	040 - 1 1/2"	13	1307	17,0
F988Ss050.2599	050 - 2"	6	2025	12,2

Kv100%, DN15: 6,3 (s=0), 4,0 (s=2), 2,5 (s=3), 1,6 (s=4), 1,0 (s=5)
Kv100%, DN20: 10 (s=0), 6,3 (s=1), 4,0 (s=2)
Kv100%, DN25: 16 (s=0), 10 (s=1), 6,3 (s=2)
Kv100%, DN32: 25 (s=0), 16 (s=1), 10 (s=2)
Kv100%, DN40: 40 (s=0), 25 (s=1), 16 (s=2)
Kv100%, DN50: 63 (s=0), 40 (s=1), 25 (s=2)

988T DZR brass 3-way regulation valve PN16



Threaded M/M/M (ISO 228/1 for union)
DZR brass body, flange, ball and stem
Chrome-plated ball, Blow-out proof stem, equal percentage char.
PTFE Seats, EPDM Perox O-rings
Actuator connection according ISO 5211 F04- □9mm
Working conditions: Water, -10°C to +130°C
Shell PN40, Max differential pressure 3,5bar

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F988Ts015.2599	015 - 1/2"	18	438	7,9
F988Ts020.2599	020 - 3/4"	18	528	9,5
F988Ts025.2599	025 - 1"	13	748	9,7
F988Ts032.2599	032 - 1 1/4"	6	1206	7,2
F988Ts040.2599	040 - 1 1/2"	6	1867	11,2
F988Ts050.2599	050 - 2"	3	2792	8,4

Kv100%, DN15: 6,3 (s=0), 4,0 (s=2), 2,5 (s=3), 1,6 (s=4)
Kv100%, DN20: 6,3 (s=1), 4,0 (s=2)
Kv100%, DN25: 10 (s=1)
Kv100%, DN32: 16 (s=1)
Kv100%, DN40: 25 (s=1)
Kv100%, DN50: 40 (s=1)

AM-980 Electric actuator



Supply voltage: 24VAC, 24VDC o 230VAC
ISO5211 F04- □9mm connection
Enclosure protection: IP54
Travel time for 90°: 30" to 120"
2/3 points control versions or 0-10V versions
Manual override

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
230VAC version, travel 120", 2/3 points control				
KAM15F120.800	015 - 050	1	700	0,7
24VAC version, travel 120", 2/3 points control				
KAM15F122.800	015 - 050	1	700	0,7
24V AC/DC version, adj. travel 35"/60"/120", 0-10V control				
KAM15S132.800	015 - 050	1	700	0,7

BALL VALVES FOR ACTUATORS

325

2-way brass valve with flange for actuator **PN16**



Threaded F/M with union (ISO 228/1) up to DN32 included
Threaded F/F (ISO 228/1) for DN40 and DN50
Chromium plated ball, blow-out proof stem
Ball and stem in brass, ISO 5211 F03-F05 adapter in aluminum
PTFE Seats, EPDM Perox O-rings
Working conditions: Water, -15°C to +110°C
Shell PN40, max differential pressure 3,5bar

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F325I0015.829	015 - 1/2"	18	384	6,9
F325I0020.829	020 - 3/4"	18	536	9,6
F325I0025.829	025 - 1"	8	804	6,4
F325I0032.829	032 - 1 1/4"	8	1202	9,6
F325I0040.828	040 - 1 1/2"	4	1297	5,2
F325I0050.828	050 - 2"	4	2098	8,4

EAC

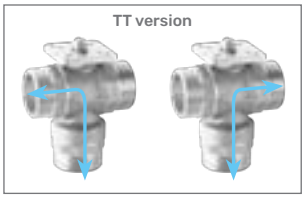
32T

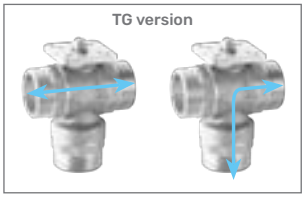
3-way brass valve with flange for actuator **PN16**



Threaded M for union (ISO 228/1) up to DN32 included
Threaded F/F/F (ISO 228/1) for DN40 and DN50
Chromium plated ball, blow-out proof stem
Ball and stem in brass, ISO 5211 F03-F05 adapter in aluminum
PTFE Seats, EPDM Perox O-rings
Working conditions: Water, -15°C to +110°C
Shell PN40, max differential pressure 3,5bar

EAC





Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 32TT				
F32TTI020.831	020 - 3/4"	8	570	4,6
F32TTI025.831	025 - 1"	8	862	6,9
F32TTI032.831	032 - 1 1/4"	8	1312	10,5
F32TTI040.911	040 - 1 1/2"	4	1834	7,3
F32TTI050.911	050 - 2"	4	3099	12,4
Fig. 32TG				
F32TGI020.831	020 - 3/4"	8	550	4,4
F32TGI025.831	025 - 1"	8	819	6,6
F32TGI032.831	032 - 1 1/4"	8	1236	9,9
F32TGI040.911	040 - 1 1/2"	4	1758	7,0
F32TGI050.911	050 - 2"	4	2892	11,6
Kit of unions and nuts (provided separately)				
KBC34B020.2897	020 - 3/4"	1	324	0,3
KBC34B025.2897	025 - 1"	1	549	0,5
KBC34B032.2897	032 - 1 1/4"	1	705	0,7

SLOOP II

Electric actuator 15Nm



Supply voltage: 230 VAC or 24 VAC
F05 flange, □9mm or □11mm stem connections
Enclosure protection: IP65
Travel time for 90°: 60"
2 or 3 points control
With aux. open switch or open/close switches connected to supply
Manual override

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
230VAC, 2 points control, 1 auxiliary switch				
KASL00P24.800	up to DN050	5	800	4,0
230VAC, 2 points control, open/close switches connected to supply				
KASL00P32.800	up to DN050	5	610	3,1
230VAC, 3 points control, 1 auxiliary switch				
KASL00P28.800	up to DN050	5	800	4,0
KASL00P35.800 (variant of KASL00P24.800) 10" and 6Nm up to DN32) available				
24VAC, 2 points control, 1 auxiliary switch				
KASL00P22.800	up to DN050	5	800	4,0
24VAC, 2 points control, open/close switches connected to supply				
KASL00P33.800	up to DN050	5	610	3,1
24VAC, 3 points control, 1 auxiliary switch				
KASL00P25.800	up to DN050	5	800	4,0
230VAC, 2 points control, 1 auxiliary switch + thermal break on stem				
KASL00P34.800	up to DN050	5	800	4,0

Suitable for 325, 32TT and 32TG valves

39BVF

Stainless steel ball valve with flange **PN40**



Threaded F/F (ISO 7/1 Rp)
SS316 stainless steel body and ball, blow-out proof stem
PTFE seat rings and gaskets
Actuator connection according to ISO5211
Working conditions: Water, -20°C a +180°C
PN64 for DN≤50 (max 64bar up to 85°C, max 20bar above)
PN50 for DN≥65 (max 50bar up to 85°C, max 10bar above)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F39BVF008.1677	008 - 1/4"	1	300	0,3
F39BVF010.1677	010 - 3/8"	1	300	0,3
F39BVF015.1677	015 - 1/2"	1	400	0,4
F39BVF020.1677	020 - 3/4"	1	600	0,6
F39BVF025.1677	025 - 1"	1	900	0,9
F39BVF032.1677	032 - 1 1/4"	1	1400	1,4
F39BVF040.1677	040 - 1 1/2"	1	2200	2,2
F39BVF050.1677	050 - 2"	1	3500	3,5
F39BVF065.1677	065 - 2 1/2"	1	6900	6,9
F39BVF080.1677	080 - 3"	1	10900	10,9
F39BVF100.1677	100 - 4"	1	23000	23,0

BALL VALVES FOR ACTUATORS

CUTTER-AQ Electric actuator



Supply voltage: 85-260VAC/24VDC, 230VAC or 24VDC
ISO5211 connection
Enclosure protection: IP68
Travel time for 90°: from 12" to 80" (depending on model)
Auxiliary switches: 2
3 points control
Manual override

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
85-260VAC / 24VDC version				
KACUTAQ00.800	up to 025	1	2500	2,5
KACUTAQ01.800	032 - 050	1	2500	2,5
230VAC version				
KACUTAQ03.800	065 - 080	1	10000	10,0
24VDC version				
KACUTAQ08.800	065 - 080	1	10000	10,0

Suitable for ball valves 39BVF, sized at max dP 6Bar
KACUTTR03.800 and KACUTTR00.800 also suitable for 325, 32TT and 32TG

HOVERCRAFT Aluminum pneumatic actuator



Anodized aluminum body
ISO5211 connection
Nickel plated steel pinion
Flange, end cap and pistons in die cast aluminum
Air supply: 1 to 10 bar
Double acting or spring return versions available

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Double acting version				
KAHOVER15.801	up to 050	1	1830	1,8
KAHOVER18.801	065 - 080	1	4000	4,0
Spring return version				
KAHOVER29.801	up to 032	1	2590	2,6
KAHOVER31.801	040 - 050	1	4520	4,5
KAHOVER34.801	065 - 080	1	10710	10,7

Suitable for ball valves 39BVF, sized at max dP 6bar
KAHOVER15.800 and KAHOVER29.800 also suitable for 325, 32TT and 32TG

325-ENO Two ways brass valve with flange for oenology PN16



Threaded ends M/M with unions (ISO 228/1) up to DN32 included
Threaded ends F-F (ISO 228/1) for DN40 and DN50
Chrome-plated ball, nickel-plated body, blow-out proof stem
Ball and stem in brass ISO 5211 F03-F05 adapter in aluminum
ISO 5211 F03-F05 adapter in coated aluminum
PTFE Seats, PEROX EPDM O-ring
Working conditions: Water, -15°C to +110°C
Shell PN40, max differential pressure 3,5bar

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F325I0015.2565	015 - 1/2"	18	468	8,4
F325I0020.2565	020 - 3/4"	18	670	12,1
F325I0025.2565	025 - 1"	8	924	7,4
F325I0032.2565	032 - 1 1/4"	8	1467	11,7
F325I0040.2354	040 - 1 1/2"	4	1297	5,2
F325I0050.2354	050 - 2"	4	2098	8,4

CUTTER-ENO Electric actuator for oenology



Supply voltage: 24 VAC
F05 flange, □9m stem connection
Enclosure protection: IP67
Travel time for 90°: 50"
2 or 3 points control
With auxiliary open and close limit switches
Manual override

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KACUTEN00.800	DN15-DN50	1	1160	1,2
Stainless steel stem extension kit, length 40mm				
KPR3MV015.2634	DN15-DN50	1	288	0,3
Stainless steel stem extension kit, length 70mm				
KPR3MV015.2823	DN15-DN50	1	482	0,5

CE

Suitable for 325-ENO valves

980F DZR brass 2-way ON/OFF valve PN16



Threaded F/F (ISO 7/1 Rp)
DZR brass body, flange, ball and stem
Chrome-plated ball, Blow-out proof stem
PTFE Seats, EPDM Perox O-rings
Actuator connection according ISO 5211 F04- □9mm
Working conditions: Water, -10°C to +130°C
Shell PN40, Max differential pressure 3,5bar

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F980F0015.2390	015 - 1/2"	36	275	9,9
F980F0020.2390	020 - 3/4"	36	360	13,0
F980F0025.2390	025 - 1"	18	465	8,4
F980F0032.2390	032 - 1 1/4"	18	690	12,4
F980F0040.2390	040 - 1 1/2"	13	1120	14,6
F980F0050.2390	050 - 2"	13	1750	22,8

EAC ACS

980FT, 980FL DZR brass 3-way ON/OFF valve PN16



Threaded F/F (ISO 7/1 Rp)
DZR brass body, flange, ball and stem
Chrome-plated ball, Blow-out proof stem
PTFE Seats, EPDM Perox O-rings
Actuator connection according ISO 5211 F04- □9mm
Working conditions: Water, -10°C to +130°C
Shell PN40, Max differential pressure 3,5bar

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 980FT				
F980FT015.2390	015 - 1/2"	36	310	11,2
F980FT020.2390	020 - 3/4"	18	730	13,1
F980FT025.2390	025 - 1"	18	640	11,5
F980FT032.2390	032 - 1 1/4"	13	960	12,5
F980FT040.2390	040 - 1 1/2"	13	1390	18,1
F980FT050.2390	050 - 2"	3	2280	6,8
Fig. 980FL				
F980FL015.2390	015 - 1/2"	36	320	11,5
F980FL020.2390	020 - 3/4"	18	745	13,4
F980FL025.2390	025 - 1"	18	650	11,7
F980FL032.2390	032 - 1 1/4"	13	985	12,8
F980FL040.2390	040 - 1 1/2"	13	1425	18,5
F980FL050.2390	050 - 2"	3	2360	7,1

EAC ACS

BALL VALVES FOR ACTUATORS

988F

DZR brass 2-way ON/OFF valve

PN16



Threaded M/M (ISO 228/1 for union)
DZR brass body, flange, ball and stem
Chrome-plated ball, Blow-out proof stem
PTFE Seats, EPDM Perox O-rings
Actuator connection according ISO 5211 F04- □9mm
Working conditions: Water, -10°C to +130°C
Shell PN40, Max differential pressure 3,5bar

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F988F0015.2596	015 - 1/2"	18	362	6,5
F988F0020.2596	020 - 3/4"	18	471	8,5
F988F0025.2596	025 - 1"	18	529	9,5
F988F0032.2596	032 - 1 1/4"	13	198	2,6
F988F0040.2596	040 - 1 1/2"	13	1306	17,0
F988F0050.2596	050 - 2"	6	2020	12,1

EAC ACS

988FT, 988FL

DZR brass 3-way ON/OFF valve

PN16



Threaded M/M/M (ISO 228/1 for union)
DZR brass body, flange, ball and stem
Chrome-plated ball, Blow-out proof stem
PTFE Seats, EPDM Perox O-rings
Actuator connection according ISO 5211 F04- □9mm
Working conditions: Water, -10°C to +130°C
Shell PN40, Max differential pressure 3,5bar

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 988FT				
F988FT015.2596	015 - 1/2"	18	436	7,8
F988FT020.2596	020 - 3/4"	13	670	8,7
F988FT025.2596	025 - 1"	13	756	9,8
F988FT032.2596	032 - 1 1/4"	6	1250	7,5
F988FT040.2596	040 - 1 1/2"	6	1900	11,4
F988FT050.2596	050 - 2"	3	2870	8,6
Fig. 988FL				
F988FL015.2596	015 - 1/2"	18	445	8,0
F988FL020.2596	020 - 3/4"	13	700	9,1
F988FL025.2596	025 - 1"	13	770	10,0
F988FL032.2596	032 - 1 1/4"	6	1270	7,6
F988FL040.2596	040 - 1 1/2"	6	1945	11,7
F988FL050.2596	050 - 2"	3	2960	8,9

EAC ACS

AM-980

Electric actuator

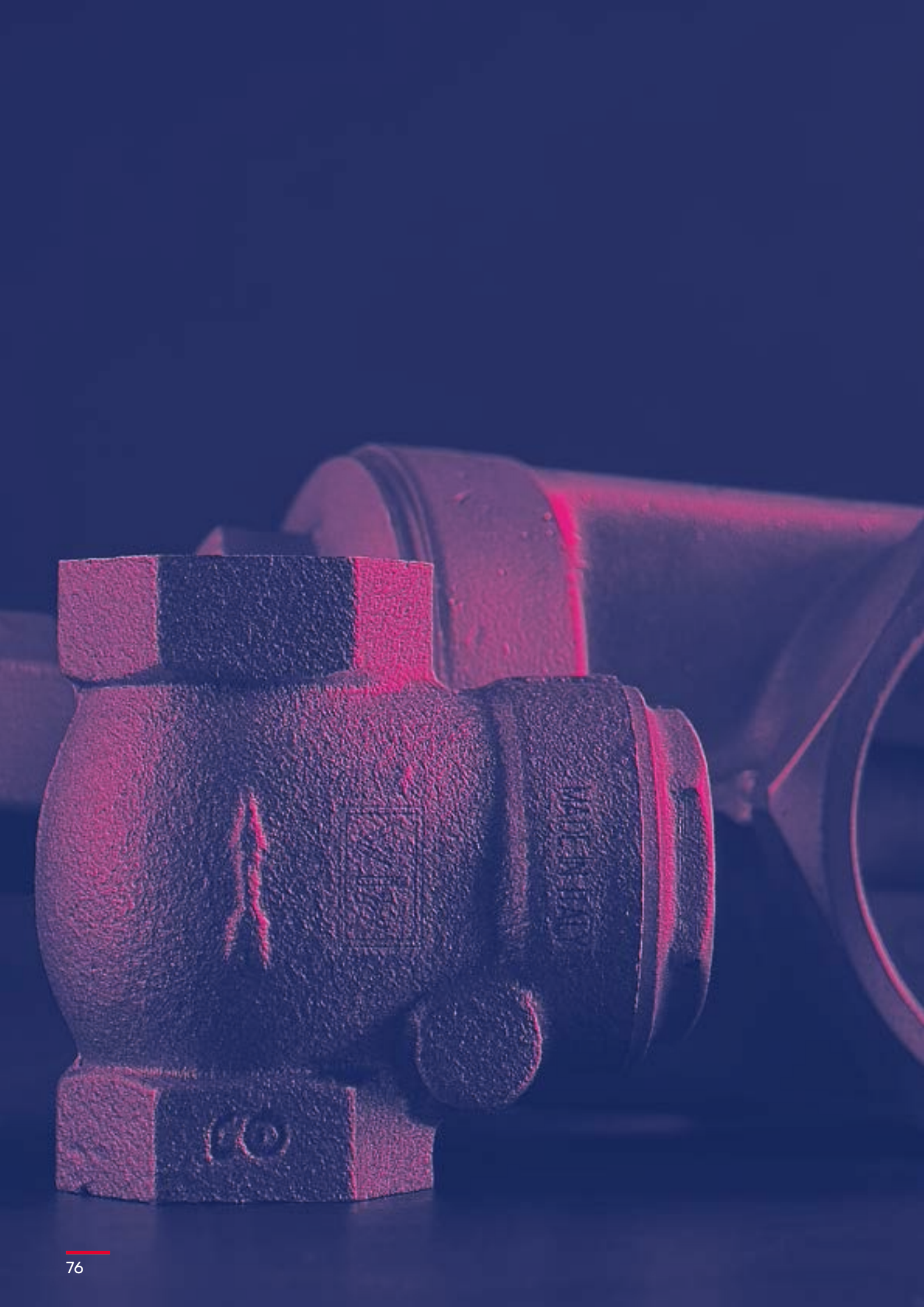


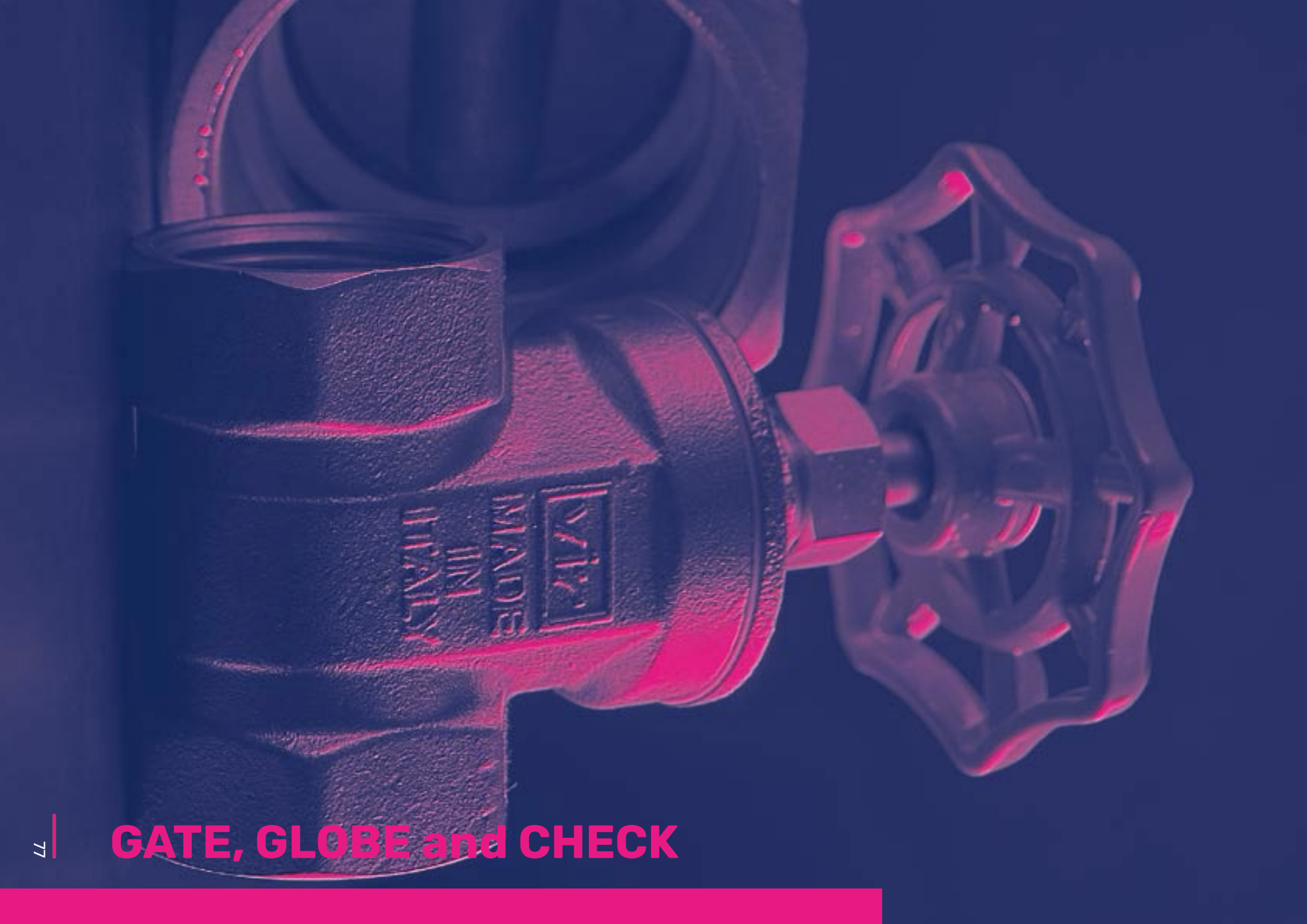
Supply voltage: 24VAC o 230VAC
ISO5211 F04- □9mm connection
Enclosure protection: IP54
Travel time for 90°: 120"
2 or 3 points control
Manual override

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
230VAC version				
KAM15F120.800	015 - 050	1	700	0,7
24VAC version				
KAM15F122.800	015 - 050	1	700	0,7

CE

Suitable for 980F, 980FT, 980FL, 988F and 988FT (max dP 3,5bar)





GATE, GLOBE and CHECK

GATE VALVES

40 Brass gate valve PN16



Threaded F/F (ISO 228/1)
Non rising blow-out proof stem
Steel handwheel
Stem and wedge in brass
Stem gasket in fiber, adjustable packing
Working conditions: Water, 0°C to +80°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F040K0015.1872	015 - 1/2"	80	181	14,5
F040K0020.1872	020 - 3/4"	60	257	15,4
F040K0025.1872	025 - 1"	30	357	10,7
F040K0032.1872	032 - 1 1/4"	20	501	10,0
F040K0040.1872	040 - 1 1/2"	15	667	10,0
F040K0050.1872	050 - 2"	10	1042	10,4
F040K0065.1872	065 - 2 1/2"	10	1620	16,2
F040K0080.1872	080 - 3"	8	2197	17,6
F040K0100.1872	100 - 4"	4	3939	15,8

EAC WRAS

56 Brass gate valve PN20



Threaded F/F (ISO 228/1)
Non rising blow-out proof stem
Aluminum handwheel
Stem and wedge in brass
Stem gasket in fiber, adjustable packing
Working conditions: Water, 0°C to +150°C (110°C for DN≥65)
DN≤50, max 20bar up to 100°C, max 13bar at 150°C
DN≥65, max 20bar up to 100°C, max 18bar at 110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F056G0015.945	015 - 1/2"	100	248	24,8
F056G0020.945	020 - 3/4"	70	364	25,5
F056G0025.945	025 - 1"	50	542	27,1
F056G0032.945	032 - 1 1/4"	30	770	23,1
F056G0040.945	040 - 1 1/2"	20	1071	21,4
F056G0050.945	050 - 2"	10	1796	18,0
F056G0065.945	065 - 2 1/2"	6	2865	17,2
F056G0080.945	080 - 3"	4	3839	15,4

EAC

90, 90LK Bronze gate valve PN16



Threaded F/F (ISO 228/1)
Non rising blow-out proof stem
With aluminum handwheel (Fig. 90) or lockshield (Fig. 90LK)
Bronze bonnet, DZR brass stem and wedge
Body-bonnet PTFE gasket
Stem gasket in graphite, adjustable packing
Working conditions: Water, -10°C to +170°C
Max 16bar up to 100°C, max 7bar at 170°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 90				
F0900B015.2683	015 - 1/2"	60	235	14,1
F0900B020.2683	020 - 3/4"	50	310	15,5
F0900B025.2683	025 - 1"	25	470	11,8
F0900B032.2683	032 - 1 1/4"	15	740	11,1
F0900B040.2683	040 - 1 1/2"	10	920	9,2
F0900B050.2683	050 - 2"	6	1580	9,5
Fig. 90LK				
F090LB015.2714	015 - 1/2"	60	221	13,3
F090LB020.2714	020 - 3/4"	50	298	14,9
F090LB025.2714	025 - 1"	25	459	11,5
F090LB032.2714	032 - 1 1/4"	15	707	10,6
F090LB040.2714	040 - 1 1/2"	10	937	9,4
F090LB050.2714	050 - 2"	6	1536	9,2

Lockshield key for Fig. 90LK (KUT090010.2800) available on request

EAC WRAS

100, 100LK Bronze gate valve PN20



Threaded F/F (ISO 228/1)
Non rising blow-out proof stem
With aluminum handwheel (Fig. 100) or lockshield (Fig. 100LK)
Bronze bonnet, DZR brass stem and wedge
Body-bonnet PTFE gasket
Stem gasket in graphite, adjustable packing
Working conditions: Water, -10°C to +170°C
Max 20bar up to 100°C, max 10bar at 170°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 100				
F1000B015.3000	015 - 1/2"	60	235	14,1
F1000B020.3000	020 - 3/4"	50	310	15,5
F1000B025.3000	025 - 1"	25	470	11,8
F1000B032.3000	032 - 1 1/4"	15	740	11,1
F1000B040.3000	040 - 1 1/2"	10	920	9,2
F1000B050.3000	050 - 2"	6	1580	9,5
Fig. 100LK				
F100LB015.3001	015 - 1/2"	60	221	13,3
F100LB020.3001	020 - 3/4"	50	298	14,9
F100LB025.3001	025 - 1"	25	459	16,1
F100LB032.3001	032 - 1 1/4"	15	707	10,6
F100LB040.3001	040 - 1 1/2"	10	937	9,4
F100LB050.3001	050 - 2"	6	1536	9,2

Lockshield key for Fig. 100LK (KUT090010.2800) available on request

110 Bronze gate valve PN25



Threaded F/F (ISO 7/1 Rp)
Non rising blow-out proof stem
Aluminum handwheel
Bronze bonnet and wedge, DZR brass stem
Stem gasket in graphite, adjustable packing
Working conditions: Water, -10°C to +170°C
Max 25bar up to 100°C, max 13bar at 170°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F1100B020.2796	020 - 3/4"	48	450	21,6
F1100B025.2796	025 - 1"	40	700	28,0
F1100B032.2796	032 - 1 1/4"	20	1000	20,0
F1100B040.2796	040 - 1 1/2"	16	1390	22,2
F1100B050.2796	050 - 2"	12	2120	25,4

120 Bronze gate valve union bonnet PN25



Threaded F/F (ISO 7/1 Rp)
Rising stem
Aluminum handwheel
Bronze bonnet and wedge, DZR brass stem, brass union nut
Stem gasket in graphite, adjustable packing
Working conditions: Water, -10°C to +170°C
Max 25bar up to 100°C, max 13bar at 170°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F1200B020.2799	020 - 3/4"	40	615	24,6
F1200B025.2799	025 - 1"	25	940	23,5
F1200B032.2799	032 - 1 1/4"	20	1370	27,4
F1200B040.2799	040 - 1 1/2"	9	1925	17,3
F1200B050.2799	050 - 2"	6	3000	18,0

GATE VALVES

914 Flanged soft sealed gate valve PN16



Flanged PN16 (EN1092-2)
Designed according EN558-1 series 14 (DIN 3202 F4)
Ductile iron EN-GJS 450-10 body, bonnet and handwheel
Ductile iron EN-GJS 450-10 wedge EPDM coated
Stainless steel stem, epoxy coating
Working conditions: Water, -10°C to +100°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F0914I040.1047	040 - 1 1/2"	1	8500	8,5
F0914I050.1047	050 - 2"	1	9200	9,2
F0914I065.1047	065 - 2 1/2"	1	11160	11,2
F0914I080.1047	080 - 3"	1	15000	15,0
F0914I100.1047	100 - 4"	1	18500	18,5
F0914I125.1047	125 - 5"	1	27500	27,5
F0914I150.1047	150 - 6"	1	34000	34,0
F0914I200.1047	200 - 8"	1	54000	54,0
F0914I250.1047	250 - 10"	1	85000	85,0
F0914I300.1047	300 - 12"	1	175000	175,0
F0914I350.1047	350 - 14"	1	175000	175,0
F0914I400.1047	400 - 16"	1	205000	205,0

Version for PN10 flanges (F0914Imis.1746) available for DN200-DN300

Extension operating devices, length 1m				
KPR091040.312	040 - 065	1	3000	3,0
KPR091080.312	080 - 100	1	3000	3,0
KPR091125.312	125 - 200	1	3000	3,0
KPR091250.312	250 - 300	1	3000	3,0
KPR091350.312	350 - 400	1	3000	3,0

Optional polyethylene cover for extension operating device				
KSH091040.2503	040 - 400	1	30	0,0

Spare handwheels				
KXV09I050.3062	050	1	800	0,8
KXV09I065.3062	065 - 080	1	1200	1,2
KXV09I100.3062	100	1	1200	1,2
KXV09I125.3062	125 - 150	1	2000	2,0
KXV09I200.3062	200	1	3400	3,4
KXV09I250.3062	250 - 300	1	4500	4,5
KXV09I350.3062	350 - 400	1	7200	7,2

OBLIQUE DISC GATE AND GLOBE VALVES

1520 Oblique disc gate valve PN16



Flanged PN16 (EN1092-2)
Cast iron GG25 body
EPDM seat
PA Handwheel (for DN≤125, metal + epoxy coating above)
Working conditions: Water, -10°C to +110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F1520I015.1376	015 - 1/2"	1	3400	3,4
F1520I020.1376	020 - 3/4"	1	3800	3,8
F1520I025.1376	025 - 1"	1	4300	4,3
F1520I032.1376	032 - 1 1/4"	1	5400	5,4
F1520I040.1376	040 - 1 1/2"	1	7600	7,6
F1520I050.1376	050 - 2"	1	9100	9,1
F1520I065.1376	065 - 2 1/2"	1	11900	11,9
F1520I080.1376	080 - 3"	1	16500	16,5
F1520I100.1376	100 - 4"	1	24200	24,2
F1520I125.1376	125 - 5"	1	28600	28,6
F1520I150.1376	150 - 6"	1	38300	38,3
F1520I200.1376	200 - 8"	1	74000	74,0

EAC

1510 Cast iron globe valve PN16



Flanged PN16 (EN1092-2)
Cast iron GG25 body and disc
Sealing ring in stainless steel
Rising stem and handwheel
Face to face dimensions conform to DIN3202 F1
Working conditions: Water, -10°C to +300°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F1510I015.1328	015 - 1/2"	1	3300	3,3
F1510I020.1328	020 - 3/4"	1	3800	3,8
F1510I025.1328	025 - 1"	1	5100	5,1
F1510I032.1328	032 - 1 1/4"	1	6600	6,6
F1510I040.1328	040 - 1 1/2"	1	9500	9,5
F1510I050.1328	050 - 2"	1	12000	12,0
F1510I065.1328	065 - 2 1/2"	1	18500	18,5
F1510I080.1328	080 - 3"	1	23500	23,5
F1510I100.1328	100 - 4"	1	35800	35,8
F1510I125.1328	125 - 5"	1	53000	53,0
F1510I150.1328	150 - 6"	1	75000	75,0
F1510I200.1328	200 - 8"	1	140000	140,0
F1510I250.1328	250 - 10"	1	220000	220,0
F1510I300.1328	300 - 12"	1	330000	330,0

EAC CE

WAFER CHECK VALVES

771 Brass spring loaded check valve PN16



Wafer type suitable for EN1092 PN10 or PN16 flanges
Spring and disc in SS316 stainless steel
Body in brass (cast iron GG25 beyond DN100)
Working conditions: Water, -10°C to +110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Brass version				
F77100015.1016	015 - 1/2"	1	90	0,1
F77100020.1016	020 - 3/4"	1	120	0,1
F77100025.1016	025 - 1"	1	190	0,2
F77100032.1016	032 - 1 1/4"	1	360	0,5
F77100040.1016	040 - 1 1/2"	1	550	0,6
F77100050.1016	050 - 2"	1	950	1,0
F77100065.1016	065 - 2 1/2"	1	1260	1,4
F77100080.1016	080 - 3"	1	2180	2,1
F77100100.1016	100 - 4"	1	3260	3,3
Cast iron version				
F77100125.1020	125 - 5"	1	6500	6,5
F77100150.1020	150 - 6"	1	8300	8,3
F77100200.1020	200 - 8"	1	14500	14,5

775 Stainless steel spring loaded check valve PN40



Wafer type suitable for EN1092 PN10 or PN16 flanges
Body, spring and disc in SS316 stainless steel
Working conditions: Water, -10°C a +220°C
Max 40bar up to 100°C, max 10bar above

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F77500015.1021	015 - 1/2"	1	100	0,2
F77500020.1021	020 - 3/4"	1	160	0,2
F77500025.1021	025 - 1"	1	280	0,3
F77500032.1021	032 - 1 1/4"	1	520	0,5
F77500040.1021	040 - 1 1/2"	1	700	0,7
F77500050.1021	050 - 2"	1	1100	1,0
F77500065.1021	065 - 2 1/2"	1	1500	1,5
F77500080.1021	080 - 3"	1	1760	1,8
F77500100.1021	100 - 4"	1	3300	3,3

776 Cast iron dual check valve PN16



Suitable for EN1092 PN16 flanges
Suitable also for flanges PN10 up to DN≤250
GG25 Cast iron body, EPDM seal
SS316 Stainless steel disc
Working conditions: Water, -10°C to +110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F77600050.1013	050 - 2"	1	1500	1,5
F77600065.1013	065 - 2 1/2"	1	2300	2,3
F77600080.1013	080 - 3"	1	3600	3,6
F77600100.1013	100 - 4"	1	4350	4,4
F77600125.1013	125 - 5"	1	6000	6,0
F77600150.1013	150 - 6"	1	8600	8,6
F77600200.1013	200 - 8"	1	15200	15,2
F77600250.1013	250 - 10"	1	24000	24,0
F77600300.1013	300 - 12"	1	32000	32,0
F77600350.1013	350 - 14"	1	40750	40,8
F77600400.1013	400 - 16"	1	62500	62,5
F77600450.1013	450 - 18"	1	98000	98,0
F77600500.1013	500 - 20"	1	125000	125,0
F77600600.1013	600 - 24"	1	170000	170,0

776H Ductile iron dual check valve PN25



Wafer type suitable for EN1092 PN25 flanges
Ductile iron GGG40 body, EPDM seal
SS316 stainless steel discs
Working conditions: Water, 0°C to +110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F77600050.2918	050 - 2"	1	1500	1,5
F77600065.2918	065 - 2 1/2"	1	2300	2,3
F77600080.2918	080 - 3"	1	3600	3,6
F77600100.2918	100 - 4"	1	4350	4,4
F77600125.2918	125 - 5"	1	6000	6,0
F77600150.2918	150 - 6"	1	8600	8,6
F77600200.2918	200 - 8"	1	15200	15,2
F77600250.2918	250 - 10"	1	22000	22,0
F77600300.2918	300 - 12"	1	30000	30,0
F77600350.2918	350 - 14"	1	48000	48,0

777 Wafer swing check valve PN16



Suitable for EN1092 PN10 or PN16 flanges
Carbon steel body
Stainless steel disc
EPDM seal
Working conditions: Water, 0°C to +100°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F77700050.1372	050 - 2"	1	850	0,9
F77700065.1372	065 - 2 1/2"	1	1140	1,1
F77700080.1372	080 - 3"	1	1400	1,4
F77700100.1372	100 - 4"	1	2250	2,3
F77700125.1372	125 - 5"	1	3000	3,0
F77700150.1372	150 - 6"	1	4200	4,2
F77700200.1372	200 - 8"	1	7000	7,0

SWING CHECK VALVES

830 Brass swing check valve PN10



Threaded F/F (ISO 228/1)
Disc in brass
NBR disc gasket
Body/bonnet gasket in fiber
PN6 for DN≥65
Working conditions: Water, 0°C to +100°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F8300Z015.62	015 - 1/2"	1	145	0,1
F8300Z020.62	020 - 3/4"	1	205	0,2
F8300Z025.62	025 - 1"	1	380	0,4
F8300Z032.62	032 - 1 1/4"	1	500	0,5
F8300Z040.62	040 - 1 1/2"	1	660	0,7
F8300Z050.62	050 - 2"	1	1000	1,0
F8300Z065.62	065 - 2 1/2"	1	1570	1,6
F8300Z080.62	080 - 3"	1	2260	2,3
F8300Z100.62	100 - 4"	1	3780	3,8

EAC

835 Bronze swing check valve PN16



Threaded F/F (ISO 228/1)
Bronze body, brass hinge cap and internal parts
Metal seal
Hinge cap O-ring in NBR
Body/bonnet gasket in NBR (PTFE for DN≥32)
Working conditions: Water, 0°C to +95°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F8350B010.14	010 - 3/8"	100	180	18,0
F8350B015.14	015 - 1/2"	100	210	21,0
F8350B020.14	020 - 3/4"	60	340	20,4
F8350B025.14	025 - 1"	40	470	18,8
F8350B032.14	032 - 1 1/4"	25	699	17,5
F8350B040.14	040 - 1 1/2"	16	840	13,4
F8350B050.14	050 - 2"	12	1330	16,0
F8350B065.14	065 - 2 1/2"	6	1970	11,8
F8350B080.14	080 - 3"	5	2900	14,5
F8350B100.14	100 - 4"	4	4800	19,2

EAC

890/890E Cast iron swing check valve PN16



Flanged PN16 (EN1092-2)
Body and disc in cast iron GG25
Metal seat (890) or EPDM seat (890E)
Body/bonnet gasket in EPDM
Working conditions: Water, 0°C to +100°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 890				
F8905I040.1015	040 - 1 1/2"	1	8800	8,8
F8905I050.1015	050 - 2"	1	12400	12,4
F8905I065.1015	065 - 2 1/2"	1	15200	15,2
F8905I080.1015	080 - 3"	1	19500	19,5
F8905I100.1015	100 - 4"	1	26810	26,8
F8905I125.1015	125 - 5"	1	42000	42,0
F8905I150.1015	150 - 6"	1	57720	57,7
F8905I200.1015	200 - 8"	1	93000	93,0
F8905I250.1015	250 - 10"	1	145000	145,0
F8905I300.1015	300 - 12"	1	221000	221,0
F8905I350.1015	350 - 14"	1	265000	265,0
F8905I400.1015	400 - 16"	1	357000	357,0
Fig. 890E				
F8905I040.2837	040 - 1 1/2"	1	8800	8,8
F8905I050.2837	050 - 2"	1	12400	12,4
F8905I065.2837	065 - 2 1/2"	1	15200	15,2
F8905I080.2837	080 - 3"	1	19500	19,5
F8905I100.2837	100 - 4"	1	26810	26,8
F8905I125.2837	125 - 5"	1	42000	42,0
F8905I150.2837	150 - 6"	1	57700	57,7
F8905I200.2837	200 - 8"	1	93000	93,0
F8905I250.2837	250 - 10"	1	145000	145,0
F8905I300.2837	300 - 12"	1	221000	221,0
F8905I350.2837	350 - 14"	1	265000	265,0
F8905I400.2837	400 - 16"	1	357000	357,0

8090 Cast iron piston check valve PN16



Flanged PN16 (EN1092-2)
Cast iron GG25 body
Carbon steel cover
Stainless steel disc
Graphite and stainless steel gasket
Working conditions: Water, -10°C to +300°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F8090I015.1438	015 - 1/2"	1	2600	2,6
F8090I020.1438	020 - 3/4"	1	3400	3,4
F8090I025.1438	025 - 1"	1	4400	4,4
F8090I032.1438	032 - 1 1/4"	1	5800	5,8
F8090I040.1438	040 - 1 1/2"	1	8400	8,4
F8090I050.1438	050 - 2"	1	10400	10,4
F8090I065.1438	065 - 2 1/2"	1	18000	18,0
F8090I080.1438	080 - 3"	1	20600	20,6
F8090I100.1438	100 - 4"	1	32000	32,0
F8090I125.1438	125 - 5"	1	44000	44,0
F8090I150.1438	150 - 6"	1	62000	62,0
F8090I200.1438	200 - 8"	1	110000	110,0
F8090I250.1438	250 - 10"	1	180000	180,0
F8090I300.1438	300 - 12"	1	250000	250,0

CHECK VALVES

806 Ball check valve PN16



Threaded F/F (ISO 228/1) or flanged PN16 (EN1092-2)
Body in cast iron GG25 for flanged version
Body in ductile iron GGG40 for threaded version
NBR coated metallic ball
Body/bonnet gasket in NBR
Working conditions: Water, 0°C to +80°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Threaded version				
F8060I025.2245	025 - 1"	1	1330	1,3
F8060I032.2245	032 - 1 1/4"	1	1430	1,4
F8060I040.2245	040 - 1 1/2"	1	2000	2,0
F8060I050.2245	050 - 2"	1	3500	3,5
Flanged version				
F8060I065.2246	065 - 2 1/2"	1	11500	11,5
F8060I080.2246	080 - 3"	1	15100	15,1
F8060I100.2246	100 - 4"	1	21500	21,5
F8060I125.2246	125 - 5"	1	33500	33,5
F8060I150.2246	150 - 6"	1	47000	47,0
F8060I200.2246	200 - 8"	1	85000	85,0
F8060I250.2246	250 - 10"	1	85000	85,0
F8060I300.2246	300 - 12"	1	203000	203,0

815V Brass foot valve PN10



Threaded F (ISO 228/1)
Nut, filter and disc in brass
SBR seal
Fiber body-strainer gasket
PN8 for DN≥32, PN6 for DN≥65
Working conditions: Water, 0°C to +90°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F8150Z015.62	015 - 1/2"	1	115	0,1
F8150Z020.62	020 - 3/4"	1	213	0,2
F8150Z025.62	025 - 1"	1	285	0,3
F8150Z032.62	032 - 1 1/4"	1	408	0,4
F8150Z040.62	040 - 1 1/2"	1	578	0,6
F8150Z050.62	050 - 2"	1	830	0,8
F8150Z065.62	065 - 2 1/2"	1	1300	1,3
F8150Z080.62	080 - 3"	1	1800	1,8
F8150Z100.62	100 - 4"	1	3075	3,1

765 Spring-loaded brass check valve **PN16**



Threaded F/F (ISO 228/1)
Stainless steel AISI 302 spring
Brass disc, NBR gasket
PN10 for DN≥65
Working conditions: Water, 0°C to +100°C

Optional foot strainer
Threaded M (ISO 228/1)
AISI 304 stainless steel body, polyamide end
Mesh 1000 micron

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F76500015.1014	015 - 1/2"	1	170	0,2
F76500020.1014	020 - 3/4"	1	155	0,2
F76500025.1014	025 - 1"	1	275	0,3
F76500032.1014	032 - 1 1/4"	1	350	0,4
F76500040.1014	040 - 1 1/2"	1	470	0,5
F76500050.1014	050 - 2"	1	710	0,7
F76500065.1014	065 - 2 1/2"	1	2830	2,8
F76500080.1014	080 - 3"	1	4200	4,2
F76500100.1014	100 - 4"	1	6265	6,3
Optional foot strainer				
KFF760015.1371	015 - 1/2"	1	7	0,1
KFF760020.1371	020 - 3/4"	1	11	0,1
KFF760025.1371	025 - 1"	1	20	0,1
KFF760032.1371	032 - 1 1/4"	1	25	0,1
KFF760040.1371	040 - 1 1/2"	1	35	0,1
KFF760050.1371	050 - 2"	1	45	0,1
KFF760065.1371	065 - 2 1/2"	1	75	0,1
KFF760080.1371	080 - 3"	1	125	0,1
KFF760100.1371	100 - 4"	1	175	0,2

765S Spring-loaded stainless steel valve **PN40**



Threaded F/F (ISO 7/1 Rp)
Stainless steel SS316 body and disc, PTFE gaskets
Stainless steel SS316 spring
Working conditions: Water, -20°C to +180°C
DN≤50: max 40bar up to 85°C, max 16bar above
DN≥65: max 40bar up to 85°C, max 10bar above

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F76500015.3018	015 - 1/2"	1	163	0,2
F76500020.3018	020 - 3/4"	1	286	0,3
F76500025.3018	025 - 1"	1	437	0,4
F76500032.3018	032 - 1 1/4"	1	725	0,7
F76500040.3018	040 - 1 1/2"	1	1014	1,0
F76500050.3018	050 - 2"	1	1577	1,6
F76500065.3018	065 - 2 1/2"	1	2913	2,9
F76500080.3018	080 - 3"	1	4775	4,8

CHECK VALVES

790 Cast iron silent check valve PN16





Flanged PN16 (EN1092-2)
Body in cast iron GG25, guide and disc in ductile iron GGG40
Stainless steel SS316 spring
EPDM seal
Working conditions: Water, 0°C to +80°C

Optional foot strainer
Flanged PN16 (EN1092-2)
Zinc plated steel body

EAC

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F7900I050.695	050 - 2"	1	5100	5,1
F7900I065.695	065 - 2 1/2"	1	7700	7,7
F7900I080.695	080 - 3"	1	9500	9,5
F7900I100.695	100 - 4"	1	12500	12,5
F7900I125.695	125 - 5"	1	20510	20,5
F7900I150.695	150 - 6"	1	29000	29,0
F7900I200.695	200 - 8"	1	47000	47,0
F7900I250.695	250 - 10"	1	70000	70,0
F7900I300.695	300 - 12"	1	105000	105,0
Optional foot strainer				
KFF790050.1582	050 - 2"	1	400	0,4
KFF790065.1582	065 - 2 1/2"	1	700	0,7
KFF790080.1582	080 - 3"	1	800	0,8
KFF790100.1582	100 - 4"	1	1000	1,0
KFF790125.1582	125 - 5"	1	1500	1,5
KFF790150.1582	150 - 6"	1	2700	2,7
KFF790200.1582	200 - 8"	1	3500	3,5
KFF790250.1582	250 - 10"	1	4500	4,5
KFF790300.1582	300 - 12"	1	5250	5,3





STRAINERS

STRAINERS

899I Brass strainer PN20



Threaded F/F (ISO 228/1)
Stainless steel AISI 302 filter
Body/bonnet gasket in fiber
PN16 for DN100
Working conditions: Water, 0°C to +80°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F8990Z008.62	008 - 1/4"	1	115	0,1
F8990Z010.62	010 - 3/8"	1	95	0,1
F8990Z015.62	015 - 1/2"	1	135	0,1
F8990Z020.62	020 - 3/4"	1	205	0,2
F8990Z025.62	025 - 1"	1	300	0,3
F8990Z032.62	032 - 1 1/4"	1	580	0,6
F8990Z040.62	040 - 1 1/2"	1	800	0,9
F8990Z050.62	050 - 2"	1	1350	1,4
F8990Z065.62	065 - 2 1/2"	1	2300	2,3
F8990Z080.62	080 - 3"	1	3140	3,1
F8990Z100.62	100 - 4"	1	4710	4,7

Spare strainer KFF899mis.2342 from DN10 to DN100 available on request

899S Stainless steel strainer PN40



Threaded F/F (ISO 7/1 Rp)
Stainless steel SS316 strainer
Stainless steel SS316 bonnet, body/bonnet gasket in PTFE
Working conditions: Water, -20°C to +180°C
DN≤50: max 40bar up to 85°C, max 16bar above
DN≥65: max 40bar up to 85°C, max 10bar above

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F8990S015.3017	015 - 1/2"	1	134	0,1
F8990S020.3017	020 - 3/4"	1	286	0,3
F8990S025.3017	025 - 1"	1	350	0,4
F8990S032.3017	032 - 1 1/4"	1	533	0,5
F8990S040.3017	040 - 1 1/2"	1	707	0,7
F8990S050.3017	050 - 2"	1	1018	1,0
F8990S065.3017	065 - 2 1/2"	1	2680	2,7
F8990S080.3017	080 - 3"	1	5380	5,4
F8990S100.3017	100 - 4"	1	5890	5,9

900 Bronze strainer PN20



WRAS

Threaded F/F (ISO 228/1)
Bronze body, stainless steel AISI 304 filter
Brass bonnet, body/bonnet gasket in fiber
Working conditions: Water, -10° to +150°
DN≥65, max 20bar up to 110°C, max 10bar above

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F9000B010.19	010 - 3/8"	100	175	17,5
F9000B015.19	015 - 1/2"	100	182	18,2
F9000B020.19	020 - 3/4"	50	286	14,3
F9000B025.19	025 - 1"	40	410	16,4
F9000B032.19	032 - 1 1/4"	20	685	13,7
F9000B040.19	040 - 1 1/2"	10	893	8,9
F9000B050.19	050 - 2"	10	1398	14,0
F9000B065.19	065 - 2 1/2"	8	2760	22,1
F9000B080.19	080 - 3"	4	3618	14,5
F9000B100.19	100 - 4"	2	7000	14,0

WRAS version with PTFE gasket for DN15-DN50 (F9000Bmis.1553) available on request

89DV Strainer with drain and probe holders PN25



Fig. 89DV



Fig. 89DV-241

Threaded F/F (ISO 228/1)
Stainless steel AISI 304 strainer
Body/bonnet gasket in PTFE
With threaded drain (3/8" ISO 7/1Rp)
With 4 threaded and plugged probe holders (1/4" ISO 7/1Rp)
Optional accessories available for drain and probe holders
Working conditions: Water, 0°C to +130°C
Max 25bar up to 110°C, max 20bar above

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F89DV0020.1979	020 - 3/4"	1	374	0,4
89DV-241 valve for drain				
F241X0010.1962	010 - 3/8"	1	130	0,1

Can be mounted on drain: Fig. 95TP/Fig. 9315 test point (pag.22) with drain or thermometer. Other accessories available on request.

91F DZR brass strainer with optional drain and test point PN25



Threaded F/F (ISO 228/1)
Stainless steel AISI 304 strainer with 20 mesh
Body/bonnet gasket in PTFE
With threaded drain (3/4" ISO 228/1) in option
Working conditions: Water, 0°C to +130°C
Max 25bar up to 110°C, max 20bar above

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Version with drain and test point				
F91F00015.3109	015 - 1/2"	1	320	0,3
F91F00020.3109	020 - 3/4"	1	413	0,4
F91F00025.3109	025 - 1"	1	549	0,5
Version with only strainer				
F91F00015.3196	015 - 1/2"	1	190	0,2
F91F00020.3196	020 - 3/4"	1	283	0,3
F91F00025.3196	025 - 1"	1	419	0,4

STRAINERS

895 Cast iron strainer PN16





Flanged PN16 (EN1092-2)
Cast iron GG25 body
Stainless steel AISI 304 strainer
Hole diameter 1,5mm up to DN≤150, 2,0mm above
Body/bonnet gasket in EPDM
Working conditions: Water, 0°C to +110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F8951I015.842	015 - 1/2"	1	2000	2,0
F8951I020.842	020 - 3/4"	1	3000	3,0
F8951I025.842	025 - 1"	1	4000	4,0
F8951I032.842	032 - 1 1/4"	1	6000	6,0
F8951I040.842	040 - 1 1/2"	1	7200	7,2
F8951I050.842	050 - 2"	1	10700	10,7
F8951I065.842	065 - 2 1/2"	1	15300	15,3
F8951I080.842	080 - 3"	1	20100	20,1
F8951I100.842	100 - 4"	1	25400	25,4
F8951I125.842	125 - 5"	1	37600	37,6
F8951I150.842	150 - 6"	1	52870	52,9
F8951I200.842	200 - 8"	1	90600	90,6
F8951I250.842	250 - 10"	1	135500	135,5
F8951I300.842	300 - 12"	1	184500	184,5
F8951I350.842	350 - 14"	1	293500	293,5
F8951I400.842	400 - 16"	1	389000	389,0
F8951I450.842	450 - 18"	1	510000	510,0
F8951I500.842	500 - 20"	1	640000	640,0
F8951I600.842	600 - 24"	1	1072000	1072,0
Spare strainer				
KFF895050.2025	050 - 2"	1	2300	2,3
KFF895065.2025	065 - 2 1/2"	1	3200	3,2
KFF895080.2025	080 - 3"	1	4700	4,7
KFF895100.2025	100 - 4"	1	6600	6,6
KFF895125.2025	125 - 5"	1	9500	9,5
KFF895150.2025	150 - 6"	1	13300	13,3
KFF895200.2025	200 - 8"	1	21600	21,6
KFF895250.2025	250 - 10"	1	31900	31,9
KFF895300.2025	300 - 12"	1	44100	44,1
KFF895350.2025	350 - 14"	1	60200	60,2
KFF895400.2025	400 - 16"	1	81300	81,3
Spare strainer with 1 mm (KFF895mis.3071) and 0,8mm (KFF-895mis.3072) hole diameter				
KFF895032.307s	032 - 1 1/2""	1	450	0,5
KFF895040.307s	040 - 1 1/4"	1	1280	1,3
KFF895050.307s	050 - 2"	1	2300	2,3
KFF895065.307s	065 - 2 1/2"	1	3200	3,2
KFF895080.307s	080 - 3"	1	4700	4,7
KFF895100.307s	100 - 4"	1	6600	6,6
KFF895125.307s	125 - 5"	1	9500	9,5
KFF895150.307s	150 - 6"	1	13300	13,3
KFF895200.307s	200 - 8"	1	21600	21,6
KFF895250.307s	250 - 10"	1	31900	31,9
KFF895300.307s	300 - 12"	1	44100	44,1
Spare graphite gasket				
KXG895040.3167	040 - 1 1/2"	1	3,5	0,1
KXG895050.3167	050 - 2"	1	4	0,1
KXG895065.3167	065 - 2 1/2"	1	4	0,1
KXG895080.3167	080 - 3"	1	5,5	0,1
KXG895100.3167	100 - 4"	1	6,5	0,1
KXG895125.3167	125 - 5"	1	11	0,1
KXG895150.3167	150 - 6"	1	12	0,1
KXG895200.3167	200 - 8"	1	19	0,1
KXG895250.3167	250 - 10"	1	24	0,1
KXG895300.3167	300 - 12"	1	30	0,1

895H Ductile iron strainer PN25



Flanged PN25 (EN1092-2)
Ductile iron GGG40 body
Stainless steel AISI 304 strainer
Body/bonnet gasket in graphite
Working conditions: Water, -10°C to +110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F8951I050.2932	050 - 2"	1	10000	10,0
F8951I065.2932	065 - 2 1/2"	1	15000	15,0
F8951I080.2932	080 - 3"	1	18000	18,0
F8951I100.2932	100 - 4"	1	26000	26,0
F8951I125.2932	125 - 5"	1	39000	39,0
F8951I150.2932	150 - 6"	1	50000	50,0
F8951I200.2932	200 - 8"	1	80000	80,0
F8951I250.2932	250 - 10"	1	130000	130,0
F8951I300.2932	300 - 12"	1	180000	180,0
F8951I350.2932	350 - 14"	1	285000	285,0

CE

895J Grooved ductile iron strainer PN25

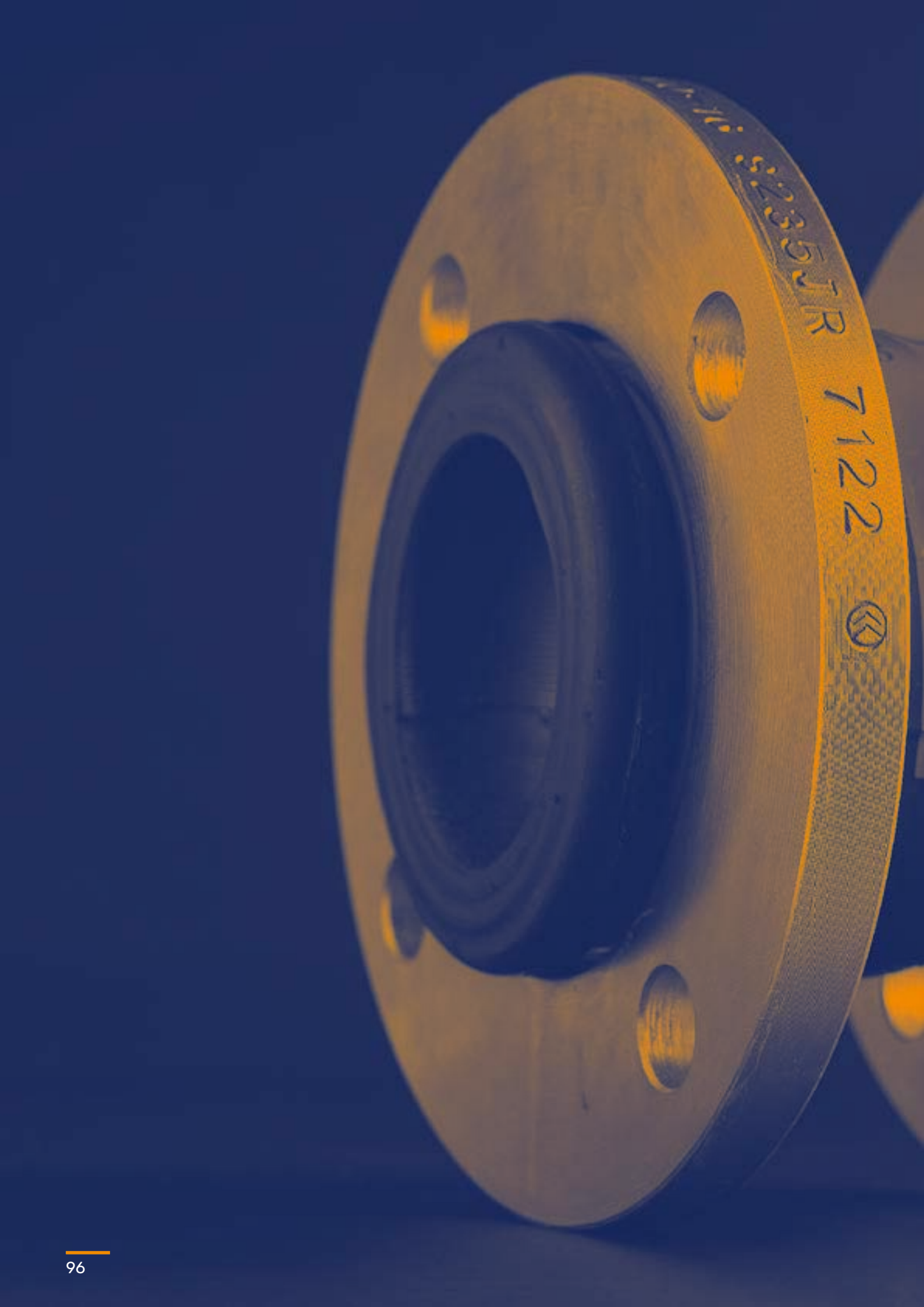


Grooved (ANSI/AWWA C606 / Metric)
Ductile iron GGG50 body
Stainless steel AISI 304 strainer
Working conditions: Water, -10°C to +100°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F8952I050.1945	60,3	1	10000	10,0
F8952I065.1945	76,1*	1	11000	11,0
F8952I080.1945	88,9	1	13000	13,0
F8952I100.1945	114,3	1	23000	23,0
F8952I125.1945	139,7*	1	42000	42,0
F8952I150.1945	168,3	1	51000	51,0
F8952I200.1945	219,1	1	100000	100,0
F8952I250.1945	273,0	1	125000	125,0
F8952I300.1945	323,9	1	160000	160,0

*Metric groove standard

CE


7122



FLEXIBLE JOINTS and AIR VENTS

FLEXIBLE JOINTS

KGTP Flexible joint PN10



Lug type for PN10 (EN1092-1) flanges
EPDM body, steel threaded inserts
Working conditions: Water, -20°C to +100°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KGT800020.2182	020 - 3/4"	1	2000	2,0
KGT800025.2182	025 - 1"	1	2400	2,4
KGT800032.2182	032 - 1 1/4"	1	3000	3,0
KGT800040.2182	040 - 1 1/2"	1	3400	3,4
KGT800050.2182	050 - 2"	1	4100	4,1
KGT800065.2182	065 - 2 1/2"	1	5000	5,0
KGT800080.2182	080 - 3"	1	6000	6,0
KGT800100.2182	100 - 4"	1	7000	7,0
KGT800125.2182	125 - 5"	1	8000	8,0
KGT800150.2182	150 - 6"	1	11100	11,1
KGT800200.2182	200 - 8"	1	16200	16,2

Version for PN16 flanges (KGT800200.2183) available for DN200

KGTF-HD Flanged flexible joint for “Heavy Duty” PN16



Flanged PN16 (EN1092-1)
EPDM body reinforced with polyamide wire
Deflection angle from 15° and 35° depending on the sizes
Allowable movement of 20mm for lateral and axial extension, 30mm for compression
Working conditions: Water, -35°C to +90°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KGT800050.3259	050 - 2"	1	4600	4,6
KGT800065.3259	065 - 2 1/2"	1	5300	5,3
KGT800080.3259	080 - 3"	1	7000	7,0
KGT800100.3259	100 - 4"	1	7600	7,6
KGT800125.3259	125 - 5"	1	9900	9,9
KGT800150.3259	150 - 6"	1	12400	12,4
KGT800200.3259	200 - 8"	1	17700	17,7

KGTF Flanged flexible joint PN16



Flanged PN16 (EN1092-1)
EPDM body reinforced with polyamide wire
Deflection angle 15°
Working conditions: Water, -10°C to +110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KGT800025.1124	025 - 1"	1	2500	2,5
KGT800032.1124	032 - 1 1/4"	1	2800	2,8
KGT800040.1124	040 - 1 1/2"	1	3600	3,6
KGT800050.1124	050 - 2"	1	5200	5,2
KGT800065.1124	065 - 2 1/2"	1	6000	6,0
KGT800080.1124	080 - 3"	1	7200	7,2
KGT800100.1124	100 - 4"	1	8600	8,6
KGT800125.1124	125 - 5"	1	11500	11,5
KGT800150.1124	150 - 6"	1	14700	14,7
KGT800200.1124	200 - 8"	1	20000	20,0
KGT800250.1124	250 - 10"	1	28000	28,0
KGT800300.1124	300 - 12"	1	32000	32,0
KGT800350.1124	350 - 14"	1	65000	65,0
KGT800400.1124	400 - 16"	1	88000	88,0
KGT800450.1124	450 - 18"	1	71000	71,0
KGT800500.1124	500 - 20"	1	105000	105,0
KGT800600.1124	600 - 24"	1	130000	130,0

Version for PN10 flanges (KGT800mis.1836) available for DN200-DN300

Optional tie rods

KVR800050.312	050 - 2"	1	2800	2,8
KVR800065.312	065 - 2 1/2"	1	3500	3,5
KVR800080.312	080 - 3"	1	2700	2,7
KVR800100.312	100 - 4"	1	3200	3,2
KVR800125.312	125 - 5"	1	3600	3,6
KVR800150.312	150 - 6"	1	5600	5,6
KVR800200.312	200 - 8"	1	6400	6,4
KVR800250.312	250 - 10"	1	12600	12,6
KVR800300.312	300 - 12"	1	13800	13,8

KGTT Threaded flexible joint PN16



Threaded union ends (ISO 228/1)
EPDM body reinforced with polyamide wire
Galvanized iron ends
Angular flexion 10° to 30° (depending on size)
Working conditions: Water, -10°C to +110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
KGT800020.1163	020 - 3/4"	1	700	0,7
KGT800025.1163	025 - 1"	1	1200	1,2
KGT800032.1163	032 - 1 1/4"	1	1500	1,5
KGT800040.1163	040 - 1 1/2"	1	2000	2,0
KGT800050.1163	050 - 2"	1	2600	2,6
KGT800065.1163	065 - 2 1/2"	1	4200	4,2
KGT800080.1163	080 - 3"	1	5500	5,5

AIR VENTS

9390 Automatic air vent PN10



Threaded M (ISO 228/1)
Brass body, EPDM gaskets
Vent plug in polypropylene
Working conditions: Water, 0°C to +110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F93900010.1776	010 - 3/8"	1	150	0,2
F93900015.1776	015 - 1/2"	1	154	0,2

EAC

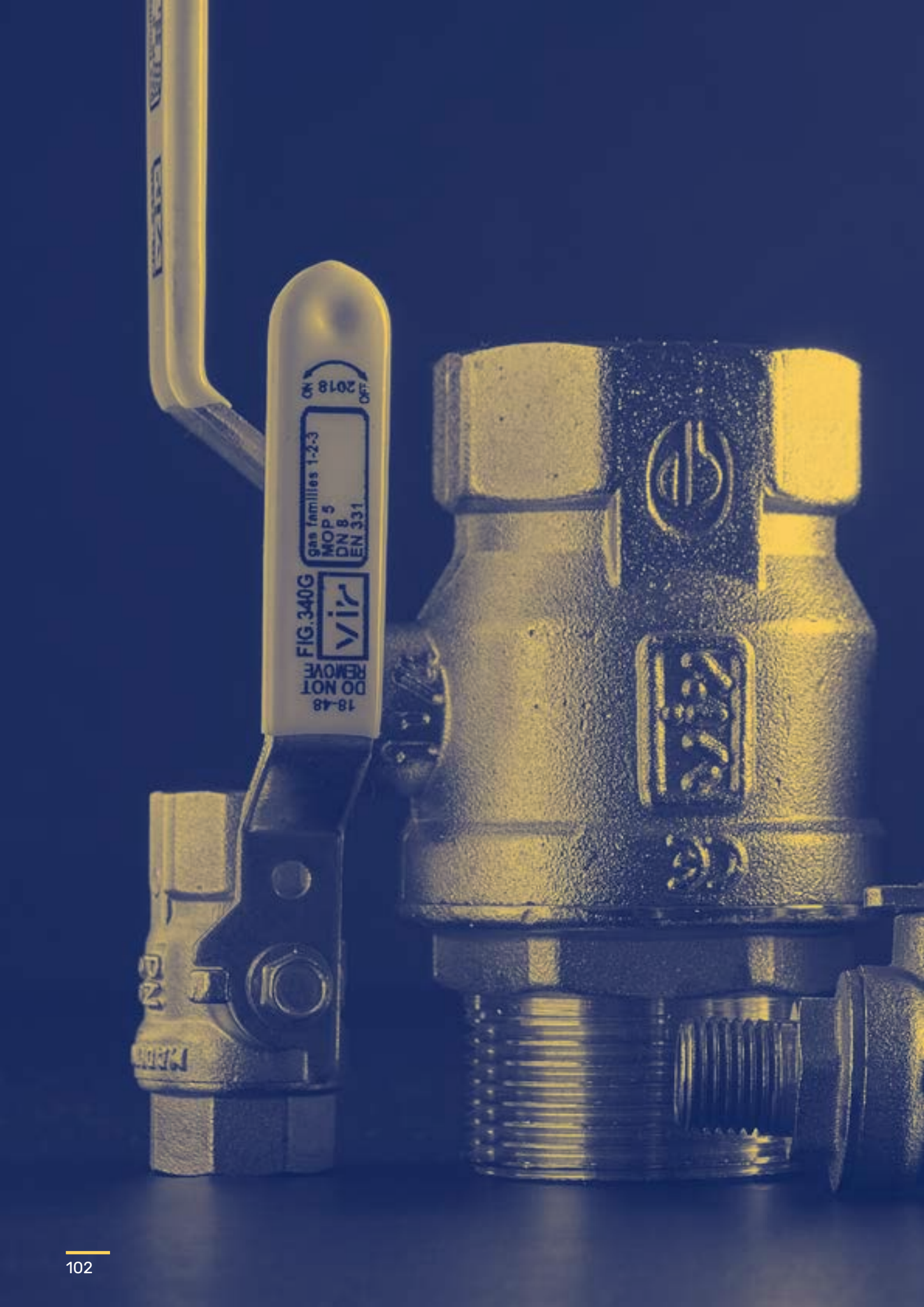
9380 Cast Iron Automatic Air Vent PN16

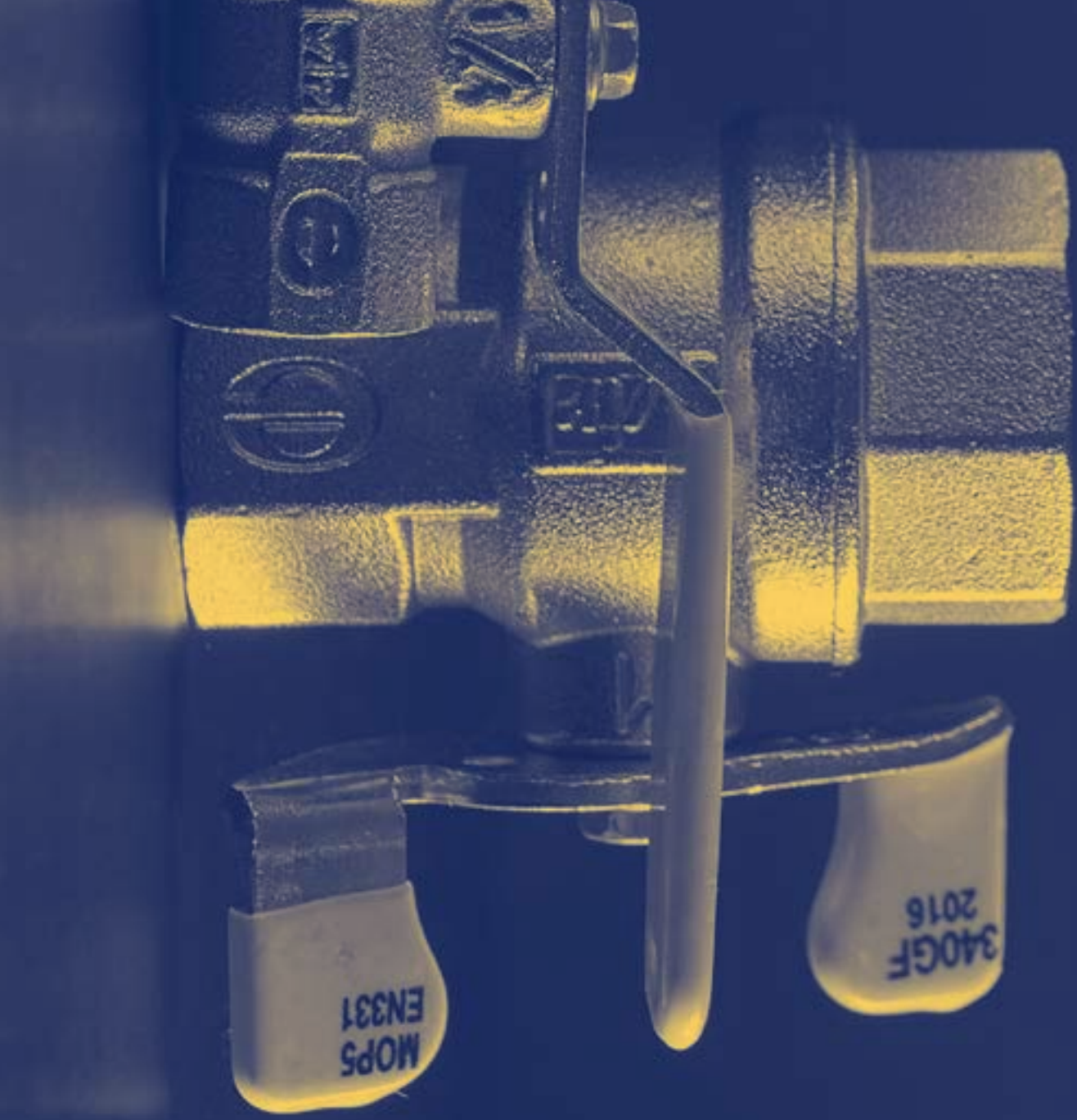


Threaded F (ISO 7/1 Rp)
Cast iron GG25 body, EPDM gaskets
Vent plug in polypropylene stainless steel AISI 304
Working conditions: Water, 0°C to +110°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F9380I015.2833	015 - 1/2"	1	3500	3,5
F9380I020.2833	020 - 3/4"	1	3500	3,5
F9380I025.2833	025 - 1"	1	3500	3,5
F9380I032.2833	032 - 1 1/4"	1	4000	4,0
F9380I040.2833	040 - 1 1/2"	1	4000	4,0
F9380I050.2833	050 - 2"	1	4000	4,0

EAC


ON
2018
OFF
gas families 1-2-3
MOP 5
DN 8
EN 331
FIG.340G
DO NOT
REMOVE
18-48



GAS

VALVES FOR GAS

340G — Brass ball valve for gas — PN25



Threaded F/F (ISO 228/1)
Valve for gas according to EN331, full bore
Chrome-plated ball, Blow-out proof stem
PTFE Seats, FKM O-ring
Working conditions: -20°C to +60°C
Also available with locking device

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F340GM008.792	008 - 1/4"	125	125	15,6
F340GM010.792	010 - 3/8"	125	117	14,6
F340GM015.792	015 - 1/2"	80	206	16,5
F340GM020.792	020 - 3/4"	60	288	17,3
F340GM025.792	025 - 1"	40	453	18,1
F340GQ032.793	032 - 1 1/4"	25	653	16,3
F340GQ040.793	040 - 1 1/2"	16	1174	18,8
F340GQ050.793	050 - 2"	8	1589	12,7

Butterfly handle option at same price
Code F340GF***.874 (up to DN32), F340GF***.871 (above)

343G — Brass ball valve for gas — PN25



Threaded F/F (ISO 7/1 Rc)
Valve for gas according to EN331, full bore
Chrome-plated ball, Blow-out proof stem
PTFE Seats, FKM O-ring
Working conditions: -20°C to +60°C
Also available with locking device

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F343GM008.795	008 - 1/4"	125	125	15,6
F343GM010.795	010 - 3/8"	125	120	15,0
F343GM015.795	015 - 1/2"	90	212	19,1
F343GM020.795	020 - 3/4"	60	302	18,1
F343GM025.795	025 - 1"	35	490	17,2
F343GQ032.796	032 - 1 1/4"	25	757	18,9
F343GQ040.796	040 - 1 1/2"	12	1098	13,2
F343GQ050.796	050 - 2"	8	1709	13,7

Butterfly handle option at same price
Code F343GF***.872 (up to DN32), F343GF***.873 (above)

390G — Ductile iron ball valve for gas — PN16



Flanged Ends (EN1092-2 PN16)
Lengths according EN558-1 series 14 (ex DIN3202 F4)
Handle in steel, chrome-plated brass ball
Valve for gas according to DVGW 3574-1
Working conditions: -20°C to +60°C
Versions with locking device, gearbox or actuator on request

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F3900I025.867	025 - 1"	1	3200	3,2
F3900I032.867	032 - 1 1/4"	1	4400	4,4
F3900I040.867	040 - 1 1/2"	1	5500	5,5
F3900I050.867	050 - 2"	1	8500	8,5
F3900I065.867	065 - 2 1/2"	1	11500	11,5
F3900I080.867	080 - 3"	1	15500	15,5
F3900I100.867	100 - 4"	1	20000	20,0
F3900I125.867	125 - 5"	1	30000	30,0
F3900I150.867	150 - 6"	1	36000	36,0
F3900I200.867	200 - 8"	1	93000	93,0



Lug type (suitable for EN1092 PN16 flanges)
Body in GGG40, SS420 stainless steel stem
Disc in GGG40 RILSAN coated
NBR seats, NBR O-ring, PTFE bushings
Comply to UNI9245:1988/A1
Working conditions: -10°C a +90°C
Supplied with lockable lever (gear for DN≥250)

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F4321L032.931	032 - 1 1/4"	1	1400	1,4
F4321L040.931	040 - 1 1/2"	1	2000	2,0
F4321L050.931	050 - 2"	1	3000	3,0
F4321L065.931	065 - 2 1/2"	1	3600	3,6
F4321L080.931	080 - 3"	1	4000	4,0
F4321L100.931	100 - 4"	1	5500	5,5
F4321L125.931	125 - 5"	1	7500	7,5
F4321L150.931	150 - 6"	1	8600	8,6
F4321L200.931	200 - 8"	1	12700	12,7
F4321L250.931	250 - 10"	1	22200	22,2
F4321L300.931	300 - 12"	1	30800	30,8



POLYPROPYLENE

POLYPROPYLENE VALVES

220 Polypropylene ball valve PN16



Threaded F/F (ISO 228/1)
Glass reinforced polyamide PA6 handle
Ball and stem in brass
PTFE seats, NBR O-ring
Working conditions: Water, 0°C to +75°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F2200L008.247	008 - 1/4"	100	66	6,6
F2200L010.247	010 - 3/8"	100	64	6,4
F2200L015.247	015 - 1/2"	50	83	4,2
F2200L020.247	020 - 3/4"	40	125	5,0
F2200L025.247	025 - 1"	25	256	6,4
F2200L032.247	032 - 1 1/4"	15	389	5,8
F2200L040.247	040 - 1 1/2"	10	671	6,7
F2200L050.247	050 - 2"	6	1009	6,1

NPT or ISO 7/1 Rp threads on request

Version with butterfly handle (F2200Lmis.246) available at the same price (up to DN32)

228 Polypropylene copolymer ball valve PN16



Threaded F/F (ISO 228/1)
Glass reinforced polyamide PA6 handle
Ball and stem in brass
PTFE seats, NBR O-ring
Working conditions: Water, -20°C to +75°C
Ice-damaging resistant

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F2280N015.496	015 - 1/2"	50	88	4,3
F2280N020.496	020 - 3/4"	40	126	5,1
F2280N025.496	025 - 1"	25	232	5,7

NPT or ISO 7/1 Rp threads on request

Version with butterfly handle (F2280Nmis.499) available at the same price

210 Polypropylene ball bib cock PN16



Threaded M (ISO 228/1) + hose union
Ring, hose union, inlet thread and stem in brass
Chrome-plated ball
PTFE seats, NBR O-ring
Working conditions: Water, 0°C to +75°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Lever version, brass hose union				
F2100L010.247	010 - 3/8"	50	149	7,2
F2100L015.247	015 - 1/2"	40	153	5,9
F2100L020.247	020 - 3/4"	25	246	6,2
F2100L025.247	025 - 1"	15	397	5,7
Butterfly version, brass hose union				
F2100L010.246	010 - 3/8"	50	145	7,3
F2100L015.246	015 - 1/2"	40	149	6,0
F2100L020.246	020 - 3/4"	25	245	6,1
F2100L025.246	025 - 1"	15	396	5,9
Lever version, plastic hose union				
F2100L010.836	010 - 3/8"	50	129	6,5
F2100L015.836	015 - 1/2"	40	172	6,9
F2100L020.2737	020 - 3/4"	25	263	6,6
Butterfly version, plastic hose union				
F2100L010.893	010 - 3/8"	50	131	6,6
F2100L015.893	015 - 1/2"	40	168	6,7
F2100L020.2738	020 - 3/4"	25	262	6,6

218 Polypropylene copolymer ball bib cock PN16



Threaded M (ISO 228/1) + hose union
Ring, hose union, inlet thread and stem in brass
Chrome-plated ball
PTFE seats, NBR O-ring
Working conditions: Water, -20°C to +75°C
Ice-damaging resistant

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Lever version, brass hose union				
F2180N015.528	015 - 1/2"	40	147	5,9
F2180N020.528	020 - 3/4"	25	243	6,1
F2180N025.528	025 - 1"	15	378	5,7
Butterfly version, brass hose union				
F2180N015.668	015 - 1/2"	40	142	5,7
F2180N020.668	020 - 3/4"	25	235	5,9
F2180N025.668	025 - 1"	15	377	5,7
Lever version, plastic hose union				
F2180N015.837	015 - 1/2"	40	125	5,0
F2180N020.2739	020 - 3/4"	25	253	6,3
Butterfly version, plastic hose union				
F2180N015.2428	015 - 1/2"	40	127	5,1
F2180N020.2740	020 - 3/4"	25	249	6,2

POLYPROPYLENE VALVES

500 Polypropylene random (PP-R80) ball valve PN20



Soldering ends (DIN 16962)
Glass reinforced polyamide PA6 handle
Ball and stem in brass
Available in different colors
PTFE seats, NBR O-ring
Working conditions: Water, 0°C to +75°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
F5000V020.400	020 - 3/4"	50	123	6,2
F5000V025.400	025 - 1"	25	135	3,4
F5000V032.400	032 - 1 1/4"	15	192	2,9
F5000V040.400	040 - 1 1/2"	10	347	3,5
F5000V050.400	050 - 2"	6	571	3,4
F5000V063.400	063 - 2 1/2"	5	935	4,7
F5000V075.400	075 - 3"	4	1400	5,6
F5000V090.400	090 - 4"	2	2482	5,0

Version with butterfly handle available at the same price (up to DN32)

500I Polyp. random (PP-R80) under plaster ball val. PN20



500IM

500IS

Soldering ends (DIN 16962)
Chromium plated triangular brass handle
Ball and stem in brass
PTFE seats, NBR O-ring
Available in different colors
Working conditions: Water, 0°C to +75°C

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Fig. 500IM with triangular handle				
F5000V020.448	020 - 3/4"	20	327	6,5
F5000V025.448	025 - 1"	15	339	5,1
F5000V032.448	032 - 1 1/4"	10	396	4,0
Fig. 500IS-L with light cover and plate				
F5000V020.447	020 - 3/4"	20	217	4,3
F5000V025.447	025 - 1"	15	229	3,4
F5000V032.447	032 - 1 1/4"	10	286	2,9
Fig. 500IS-H with heavy cover and plate				
F5000V020.428	020 - 3/4"	20	270	5,4
F5000V025.428	025 - 1"	15	282	4,2
F5000V032.428	032 - 1 1/4"	10	339	3,4



Polyamide handle
Available for code: 210, 218, 220, 228 e 500

Polyamide stem extension with zinc plated steel rod
Available for code: 210, 218, 220, 228 e 500 Nylon butterfly handle

Vir Code	DN mm - inches	pcs./box	Wgt (g)	Box (Kg)
Spare levers				
KXM200008.599	Mis. 1	250	16	4,0
KXM200015.599	Mis. 2	150	16	2,4
KXM200025.599	Mis. 3	100	28	2,8
KXM200040.599	Mis. 4	50	48	2,4
Spare butterflies				
KXF200008.669	Mis. 1	500	12	6,0
KXF200015.669	Mis. 2	500	15	3,8
KXF200025.669	Mis. 3	200	29	5,8
Stem extensions				
KPR500015.918	Mis. 2	250	31	7,8
KPR500025.918	Mis. 3	100	52	5,2
KPR500040.918	Mis. 4	100	49	4,9







	Fig.220/228	Fig.210/218	Fig.500
Mis.1	DN08/DN10	DN10/DN15	-
Mis.2	DN10/DN15	DN20/DN25	DN20/DN32
Mis.3	DN25/DN32	-	DN40/DN50
Mis.4	DN40/DN50	-	DN65/DN75

GENERAL CONDITIONS OF SALE

Art. 1 – GENERAL PROVISIONS
These General Conditions are valid and binding for any business transaction executed by VIR Valvoindustria Ing. Rizzio S.p.A., and shall apply to any and all offers, quotations and confirmations issued by VIR Valvoindustria Ing. Rizzio S.p.A. to the Purchaser, even in the absence of any direct reference to them.
Any exceptions to these General Conditions will not have any effect unless expressly agreed upon in writing between VIR Valvoindustria Ing. Rizzio S.p.A. and the Purchaser.
The undersigning of these General Conditions – and in any case the submission of any order and/or any contract to VIR Valvoindustria Ing. Rizzio S.p.A. – will imply the Purchaser expressly waiving the application of his own general contractual conditions, being entirely replaced by these General Conditions.
The invalidity or non-effectiveness of one or more clauses of these General Conditions will not jeopardise the validity, effectiveness and enforceability of the other clauses.

Art. 2 – ORDER
The Purchaser's order is accepted "SUBJET TO EXPRESS APPROVAL BY THE SELLER" and it is considered irrevocable for the period of one month starting from the date of the order confirmation (art. 1329 of the Italian Civil Code), as well as the request of performance without prior acceptance (art. 1327 of the Italian Civil Code).
Any sum paid as an advance will have the function of a confirmation deposit as set forth in article 1385 of the Italian Civil Code, without prejudice to the right of VIR Valvoindustria Ing. Rizzio S.p.A. to claim further damages in the event of a breach of contractual obligations. The Purchaser, once the order has been submitted, loses the right to cancel it..

Art. 3 – RETENTION OF TITLE
It is expressly agreed that the seller shall retain title to the goods object of the order, until payment has been carried out for the full amount of the order.
Therefore, the Purchaser acquires ownership of the products only with the full payment of the last instalment or of the full price of the goods, including any and all possible accrued interests.
The Purchaser shall, however, assume all the risks related to the goods from the delivery of them by VIR Valvoindustria Ing. Rizzio S.p.A. to the carrier and/or the shipper (art. 1523 of the Italian Civil Code), also in the case that they are appointed and/or paid by VIR Valvoindustria Ing. Rizzio S.p.A., being understood that VIR Valvoindustria Ing. Rizzio S.p.A. is not liable, not even partially for any loss or damage to the goods during the transport and in any case once they have left VIR Valvoindustria Ing. Rizzio S.p.A.'s domicile/ plants.
Until full payment of the products has been made, the Purchaser shall not be entitled to sell, give in pledge or give in use the goods, nor remove them from the domicile specified by the Purchaser without prior specific written consent of the seller and without having immediately informed the seller by registered letter.
In case of payment delays, even of a single instalment of the price, VIR Valvoindustria Ing. Rizzio S.p.A. will be entitled, without the need of any formality, including any formal payment reminder, to claim possession of all the goods object of the retention of title, wherever they are, without prejudice to any further remedy available for claiming damages suffered, including the right to withhold the advanced payment as a penalty.
In case of breach of even one of the above clauses, the Purchaser will immediately lose the benefit of the term with reference to the delayed payment and shall immediately pay the outstanding balance, without prejudice to the seller's right to compensation for further damages.

Art. 4 - PAYMENTS
All payments shall be carried out according to the agreed upon terms and procedures, at the registered office of VIR Valvoindustria Ing. Rizzio S.p.A., through payments made out in favour of VIR Valvoindustria Ing. Rizzio S.p.A.
Payments carried out in breach of the agreed upon terms and procedures, or made in favour of any third party or in favour of an agent who has not been expressly and duly authorized in writing to receive payments, will not be considered valid nor effective, and will not represent, not even partially, fulfilment of the Purchaser's obligations.
VIR Valvoindustria Ing. Rizzio S.p.A. reserves the faculty to delay the delivery of the goods, in the event that the Purchaser is in breach of any payment obligation, even with reference to any previous invoice or regarding orders other than the one object of the delivery.
The delayed payment, with respect to the agreed upon payment terms and conditions, implies the Purchaser's obligation to pay VIR Valvoindustria Ing. Rizzio S.p.A., in addition to the amount specified in the invoice, any default interest pursuant to art. 5 D.LGS. n. 231/2002.
Interest shall be fully payable, according to this clause and with no need of any formal notice, from the first calendar day following the invoice due date until the date of actual payment.
The Purchaser will not be entitled, in any case, to any claim, request or demand, by way of action or defence, against VIR Valvoindustria Ing. Rizzio S.p.A., until all the overdue invoices and the relevant interest and /or expenses and costs have been fully paid.
Payments received by VIR Valvoindustria Ing. Rizzio S.p.A. will pay off, in the following order, recovery costs, accrued interests, and eventually the capital.

Art. 5 – TERMINATION OF THE CONTRACT
The breach of payment obligations by the Purchaser, even of a single instalment provided by the contract, shall determine the loss of the Purchaser's benefit of the instalment term and shall entitle VIR Valvoindustria Ing. Rizzio S.p.A. to claim immediately the payment of the outstanding purchase price, or to consider the contract terminated according to art. 1456 of the Italian Civil Code, and therefore to request the immediate restitution of the goods which can be claimed by the seller also pursuant art. 3 above.
Partial payments shall be definitively retained by VIR Valvoindustria Ing. Rizzio S.p.A. as damages indemnity, without prejudice to the right to compensation for further damages..

Art. 6 – DELIVERY TERM
The delivery terms are specified with reference to each order.
In any case, they have to be considered as non-binding references and possible delays will not entitle the Purchaser to any compensation for damages, nor to terminate, even partially, the contract.
In any case, VIR Valvoindustria Ing. Rizzio S.p.A. shall not be responsible in the event of:
- Force majeure;
- Railway or other transport delays;
- Request for changes or corrections about the features of the products supplied;
- Partial failure or default of payment, even of a single instalment, by the Purchaser.

After 30 days from the specified date without any possibility to deliver the goods due to causes beyond VIR Valvoindustria Ing. Rizzio S.p.A. control, VIR Valvoindustria Ing. Rizzio S.p.A. will be entitled to consider the order as delivered and to apply the contractual terms of payment of the price.
The Purchaser, upon receipt of the goods and without having checked their status and entity, will not be entitled, in any case, to raise subsequent claims.

Art. 7 – LIMITATION OF LIABILITY
VIR Valvoindustria Ing. Rizzio S.p.A. will not, in any case, be responsible for any direct or indirect damage suffered by the Purchaser or by any third party, arising from the goods object of the order.

Art. 8 – CLAIMS
Any claim, except for what herein provided for, shall in any case be received by registered letter within the mandatory term of 10 days starting from the receipt of the goods, and shall contain the specification of the reasons of the claim.
In any case, claims for defects that may have been caused by transportation, because of an inappropriate use or of an inadequate conservation, care or incorrect assembly of the goods, will be rejected, and therefore considered unacceptable.

Art. 9 – WARRANTY
The warranty is applied to all the products of VIR Valvoindustria Ing. Rizzio S.p.A. for a 12 months period of operation, up to a maximum of 18 months from the date of the relevant invoice, with the mandatory term of notice, by registered letter, of any possible defect within the term of 10 days from its occurrence.
Any return of goods will have to be previously agreed upon in writing between VIR Valvoindustria Ing. Rizzio S.p.A. and the Purchaser.
In the event of returns, VIR Valvoindustria Ing. Rizzio S.p.A. will examine the relevant goods to verify that the defect exists and that it can be attributed to VIR Valvoindustria Ing. Rizzio S.p.A.'s responsibility.
Any other warranty, including the ones provided for by law, shall not apply and shall be considered superseded by these General Conditions.
In particular, it is excluded the right of recourse against VIR Valvoindustria Ing. Rizzio S.p.A. for any warranty issued by the seller vis-a-vis any third parties.

Art. 10 – AMENDMENTS AND INTEGRATIONS
These General Conditions cancel and supersede the general conditions of sales prior to 2019 and any previous agreement between the Parties having the same object.
Any amendment or integration of these General Conditions shall have, in order to be valid and enforceable, to result by an agreement in writing duly undersigned by VIR Valvoindustria Ing. Rizzio S.p.A. and the Purchaser.

Art. 11 – APPLICABLE LAW – JURISDICTION – LANGUAGE
The contractual relationship between VIR Valvoindustria Ing. Rizzio S.p.A. and the Purchaser shall be governed by, and construed and interpreted in accordance with, the laws of Italy.
Any dispute arising from the contract between VIR Valvoindustria Ing. Rizzio S.p.A. and the Purchaser, or in connection with its execution, interpretation, performance and termination, is subject to the exclusive jurisdiction of the Court of Vercelli in Italy, with specific derogation of any alternative jurisdiction set forth in articles 18 et seq. of the Italian Civil Procedure Code.
VIR Valvoindustria Ing. Rizzio S.p.A. and the Purchaser expressly agree that the Italian language shall be applied to any dispute concerning the interpretation, execution and termination of this General Conditions.



VIR – Valvoindustria Ing. Rizzio S.p.A.
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