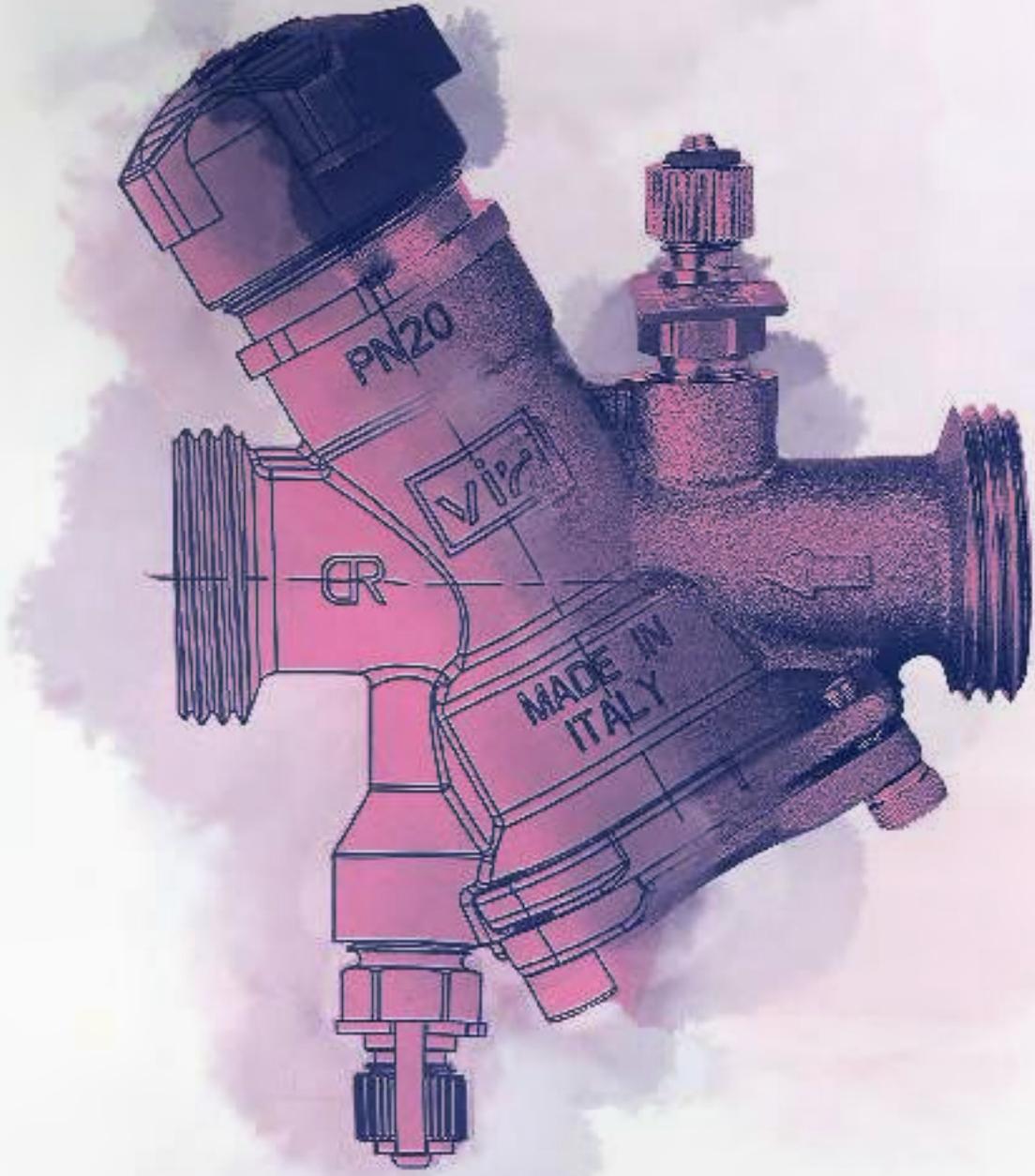




*flowing ideas*

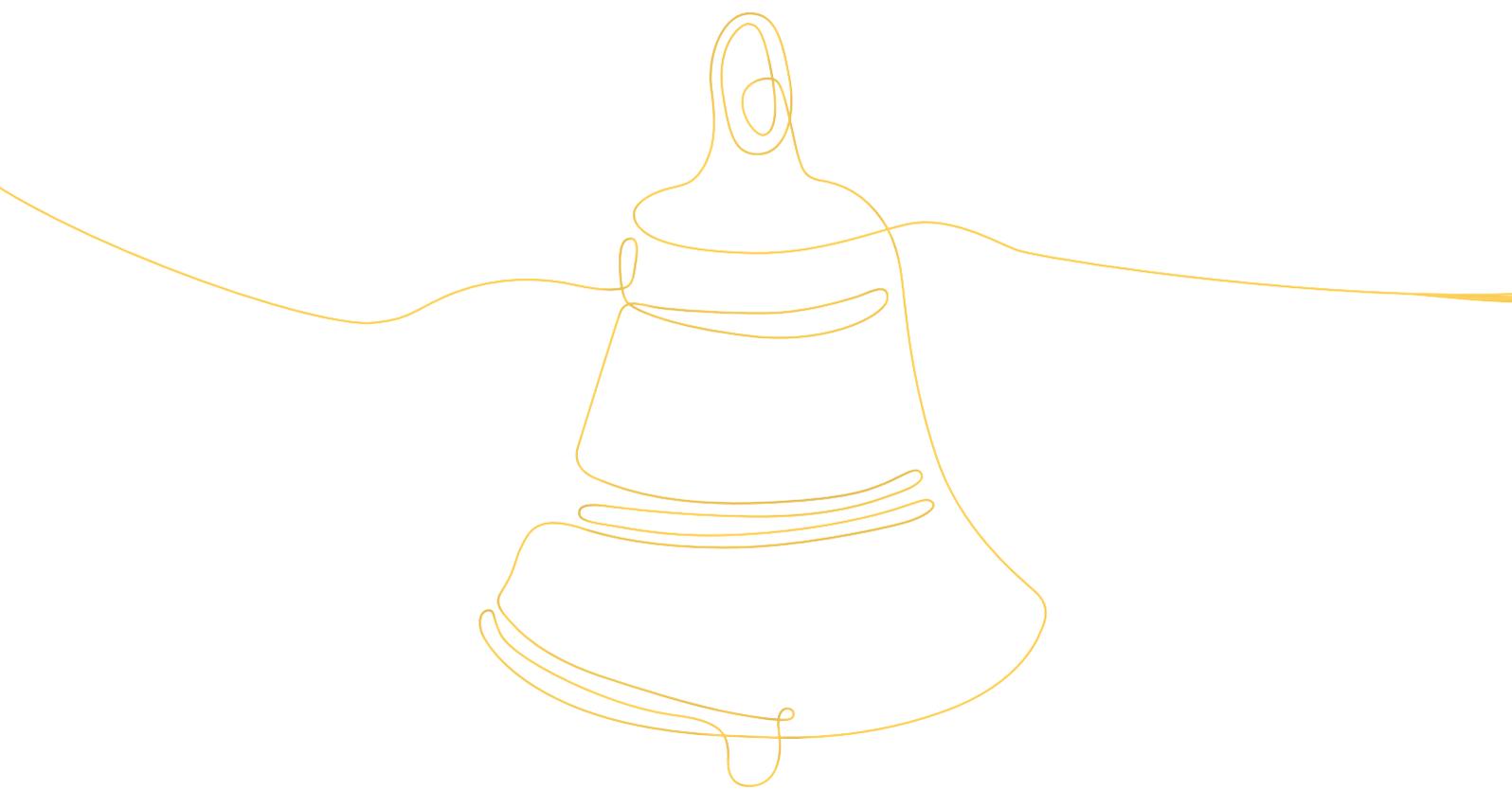


# CATALOGUE 2024



*flowing ideas*

# CATALOGUE 2024



# 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. and its warehouses in Lake Forest (CA), Menlo Park (CA), Arvada (CO), Lakeville (MN), Atlanta (GA), Nashville (TN), Houston (TX); 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.



## About VIR

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. 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.

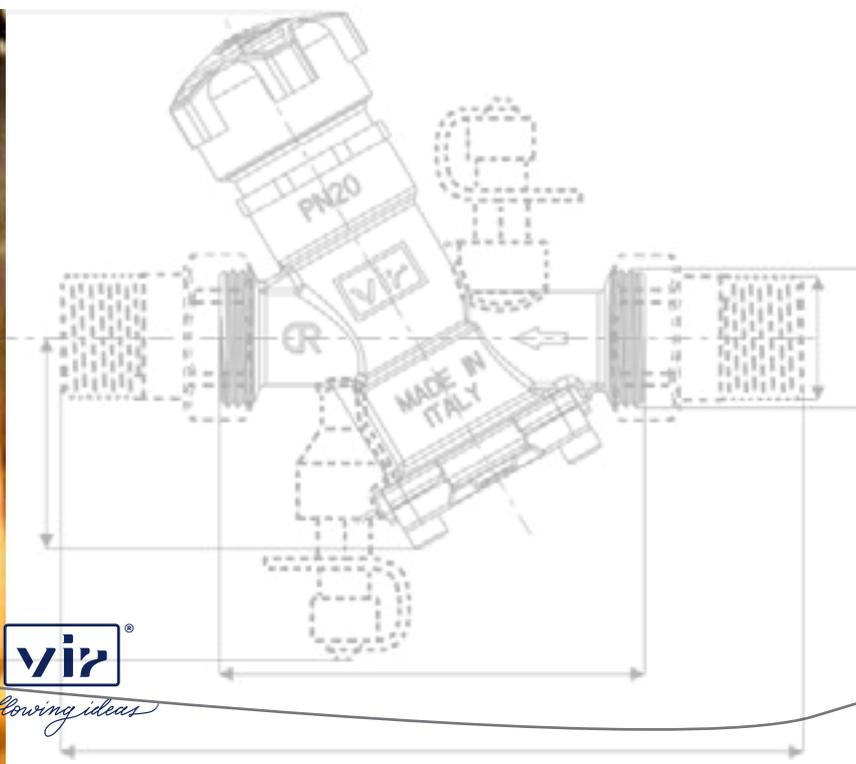
### TYPES OF APPLICATIONS

- HVAC
- OEM
- IRRIGATION
- WATER AND GAS DISTRIBUTION NETWORKS

### TYPES OF MATERIALS

- BRONZE
- BRASS
- DUCTILE AND CAST IRON
- POLYPROPYLENE
- STAINLESS STEEL

VIR today exports to 75 different countries, using its own five commercial business locations and its fifteen warehouses, branching out its trade and reaching all corners of the world.



# 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 is also 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](http://www.vironline.com)



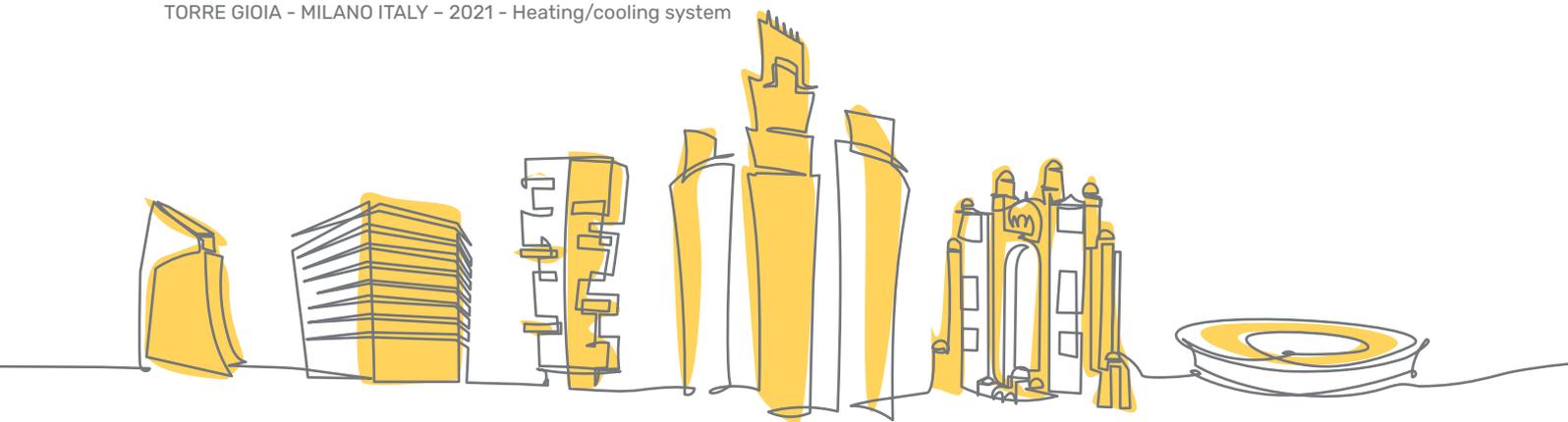
# References

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TORRE GIOIA - MILANO ITALY - 2021 - Heating/cooling system

FERRARI - MARANELLO ITALY - 2020 - Heating/cooling system





CAMPUS HUMANITAS - ROZZANO ITALY 2021 - Heating/cooling system



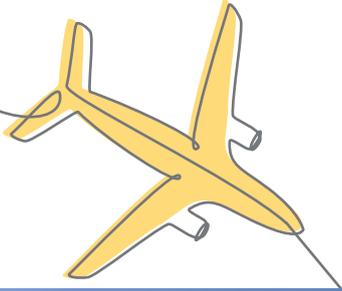
TORRE UNIPOLSAI - MILANO ITALY - 2023 - Central heating/cooling

WATERFRONT DI LEVANTE - GENOVA ITALY - ongoing - Heating/cooling system



LEONARDO - BOLOGNA  
ITALY - 2022  
Heating/cooling system





KULA TOWER - BELGRADE SERBIA - 2022 - Heating/cooling system



KOWLOON EAST REGIONAL POLICE HQ1 - HONG KONG CHINA - 2022 - Heating/cooling system

OZO RESORT - KUDAKURUTHU MALDIVES - 2021 - Water supply system



NEW KOTELNIKI RESIDENCES - MOSCOW RUSSIA - 2022 - Heating system





DIFENCE HEADQUARTERS – AKUREGODA COLOMBO – 2021  
Heating/cooling system



GRAND BLEU TOWER – DUBAI UAE – 2022 - Heating/cooling system



DIOR BOUTIQUE - HO CHI MINH CITY VIETNAM – 2021  
Heating/cooling system

KAOSIUNG MARITIME CULTURAL AND POPULAR MUSIC CENTER  
TAIWAN – 2022 - Central heating/cooling + distribution



## **Water and Energy**

We, at VIR, believe that the involvement in the process of providing these two essential services above all implies an ethical commitment to the environment and the people.

Because in a world that is constantly and rapidly changing, our sense of responsibility requires us to act concretely and positively for the protection of climate and health, by working every day to contribute to the creation of a safer, fairer and more resourceful world.



**LEAD FREE VALVE RANGE**



**PTFE COATED BALLS**



**EDP CERTIFICATION**



**WIDE RANGE OF BALANCING VALVES**

**WITH US THE FUTURE FLOWS TOWARDS SUSTAINABILITY**

# More energy towards sustainability

## HYDRONC BALANCING

Energy saving is the global challenge that we, as a company, are required to cope with: in fact, HVAC systems are amongst the most responsible for energy consumption around the world.

This is why we cultivate and promote synergies with the main industry players such as installers, designers, wholesalers, contractors and buyers, to encourage them to make virtuous choices, aimed at reaching comfortable temperatures in buildings, while minimizing the consumption of energy and operating costs, when choosing to use our balancing valves.

### THE BENEFITS OF A BALANCED HYDRAULIC SYSTEM:



**THERMAL COMFORT**



**MOISTURE ACCUMULATION**



**ECOLOGICAL IMPACT ON CONSUMPTION**

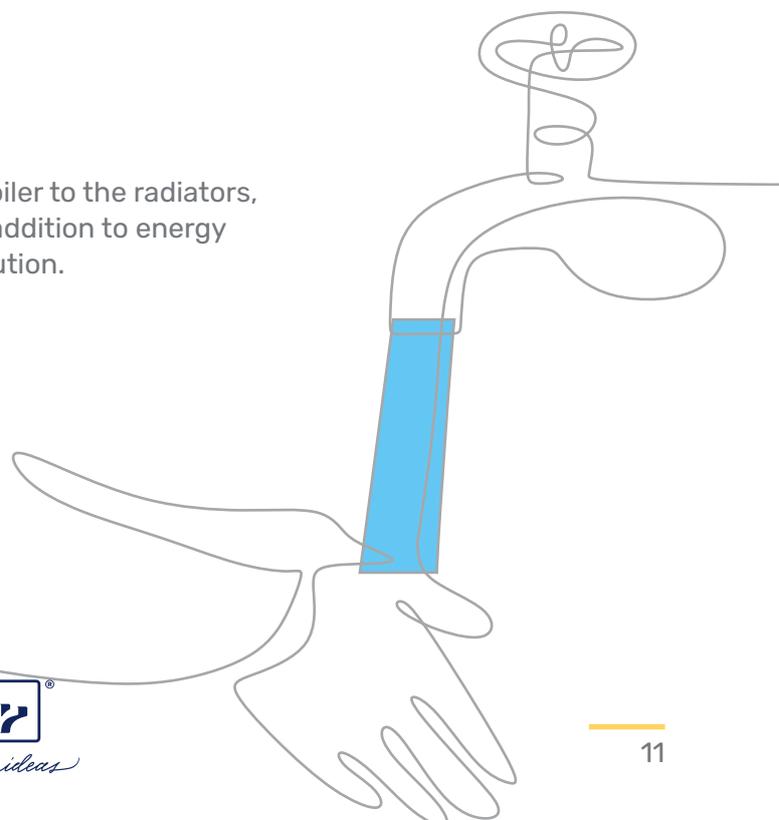


**ENERGY SAVING**

HOW TO OBTAIN THESE BENEFITS?

WITH OUR **BALANCING VALVES!**

They correctly distribute the flow of water from the boiler to the radiators, optimizing the yield and efficiency of the systems. In addition to energy consumption, they reduce noise, wear, costs and pollution.



*flowing ideas*



## BALANCING

### Static Balancing p.16

9505 - 9515 - 9585 - 9525 - Vaurien - 9535 - 9555P - 9555H  
9555J - 9595 - 9594 - 9400 - 9450

### Dynamic Balancing p.21

9900P - 9905V - 9955 - Cartucce - 9700 - 9705 - 9703  
Vaurien - VaurienM - 9705B - VaurienB - 9755 - 9605 - 9655  
9610 - 9610DR - 9660 - T650 - Accessories - Shells



## EZCONNECT

### Connection Kit for terminal units p.32

91BY 9703 - 92HS - Ezconn Shell



## SHUT-OFF

### Ball valves p.36

340 - 343 - 348 - 342 - 340DR - 340J - 340GS - 340 Solar  
340LN - 350TAB - 33FF - 33MF - 330 - 333 - 380 - 380LN  
380I Solar - 360 - 365 - 5020DR - 5020 - 5020LN - 5021  
5024 - 5028 - 390 - 39BVO - 322 - 323/324 - 310N - 293LK  
328 - 3WL - Accessories

### Butterfly valves p.52

4020 - 4320 - 4029 - 4329 - 4025 - 4325 - 402W - 432W  
4520 - 4620 - 4820L - Actuators - Accessories



## REGULATING and CONTROL

### Regulating ball valves p.68

980S - 980T - 988S - 988T - AM980 - AM980L

### Ball valves for actuators p.70

325 - 32T - SLOOP II - 39BVF - CUTTERAQ - HOVERCRAFT  
325 ENO - CUTTER ENO - 980F - 980FT - 980FL - 988F  
988FT - 988FL - AM980 - AM980L



## **GATE and CHECK**

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**Gate valves** p.78

40 - 56 - 90/90LK - 100/100LK - 110 - 120 - 914

**Check valves** p.82

771 - 775 - 776 - 776H - 777 - 830 - 835 - 890/890E - 806  
815V - 765S - 765K - 765 - 790



## **STRAINERS**

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**Strainers** p.92

899I - 899H - 899S - 900 - 89DV - 91F - 895 - 895H - 895J



## **FLEXIBLE JOINTS and AIR VENTS**

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**Flexible joints** p.98

KGTT - KGTF HD - KGTP - KGTF

**Air vents** p.100

9390 - 9393 - 9380



## **GAS**

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**Valves for gas** p.104

340G - 343G - 390G - 4321

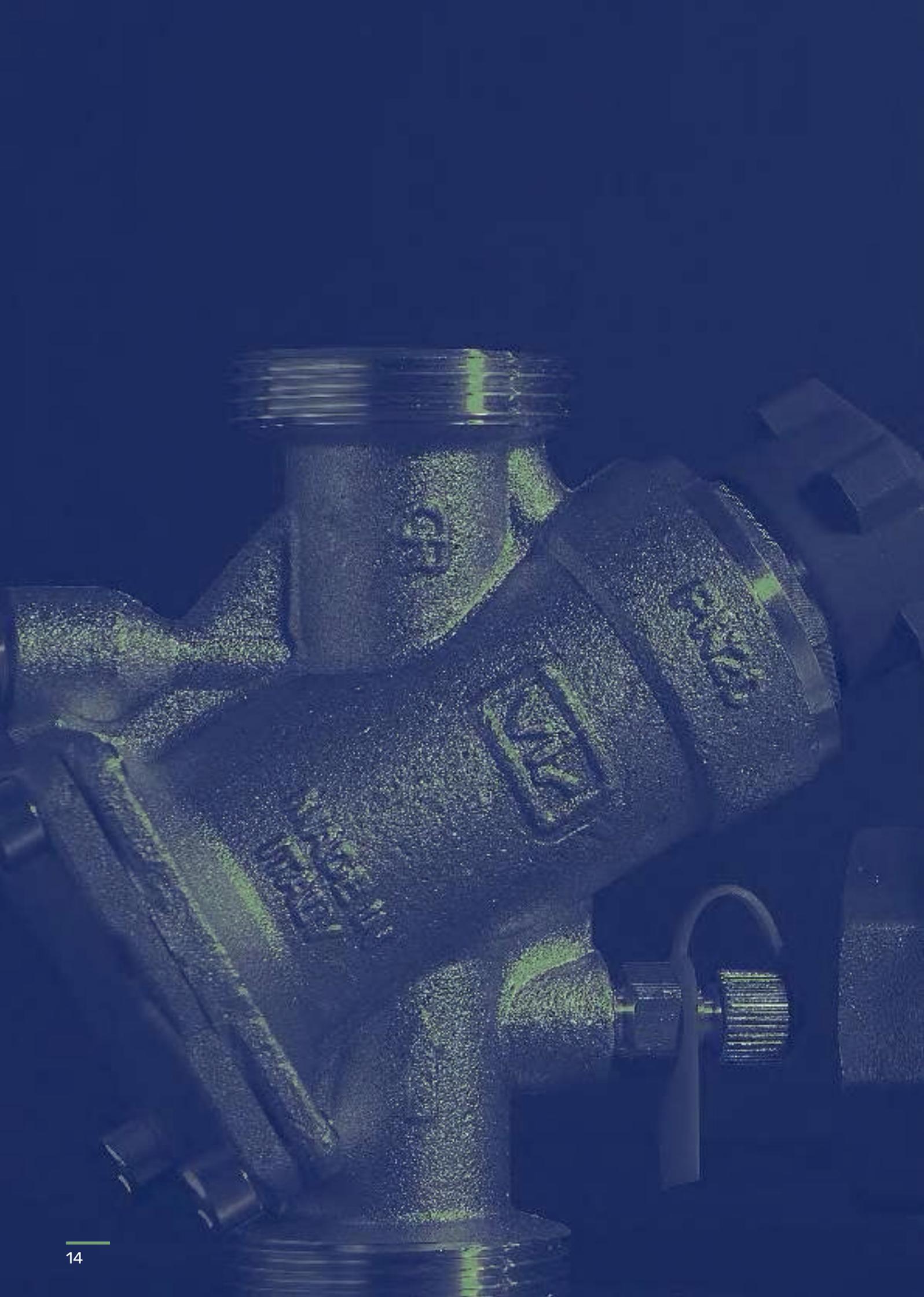


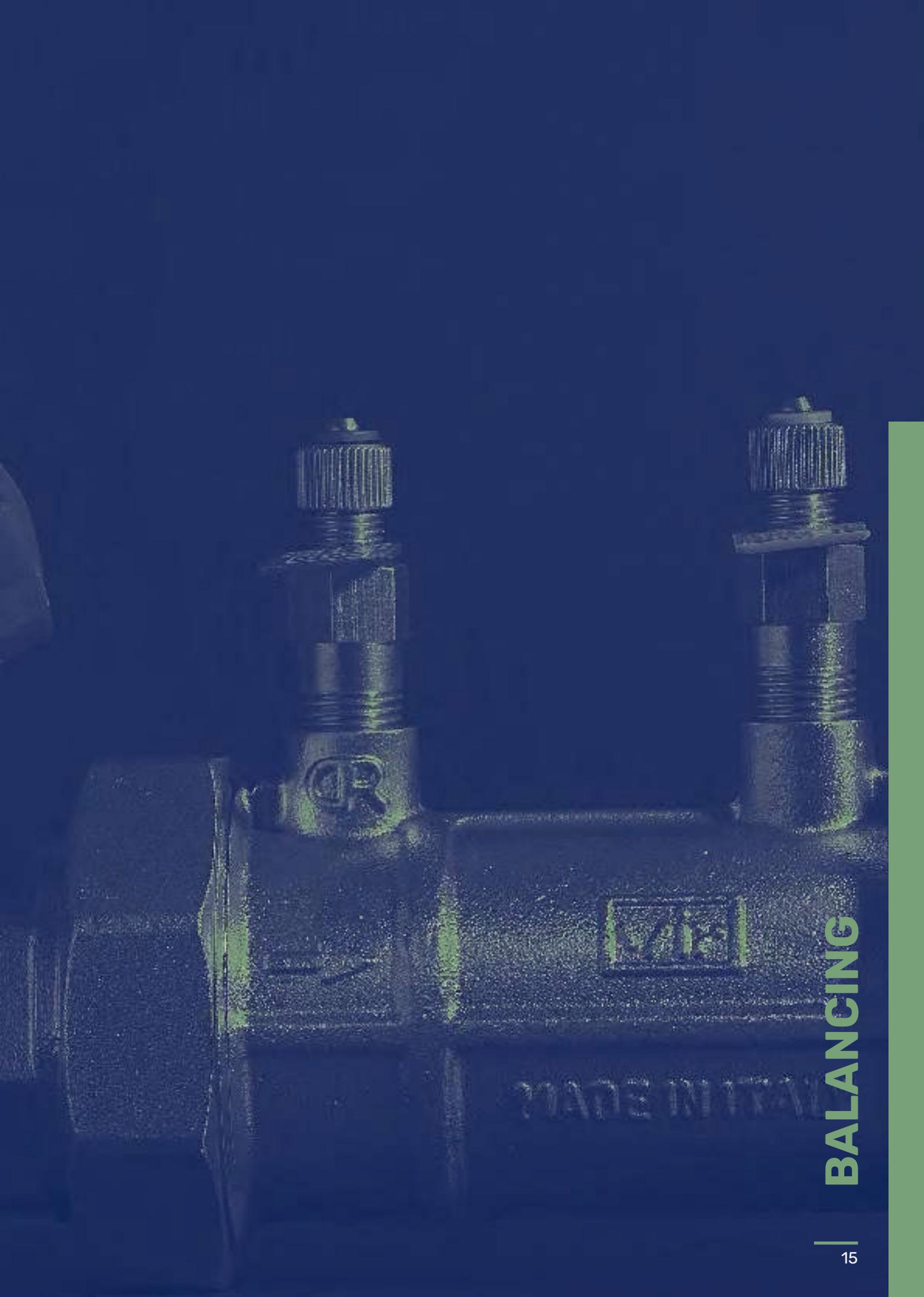
## **POLYPROPYLENE**

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**PP and PP-R valves** p.108

220 - 228 - 210 - 218 - 500 - 500I - Accessories





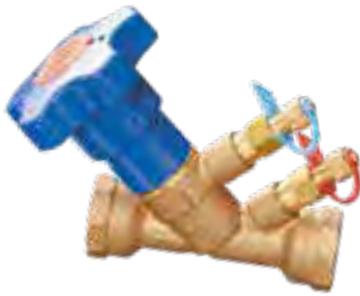
# BALANCING

# 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

ERC



STF

Spare handwheel available (KXV950015.3402) for DN10 - DN50

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

ERC



Spare handwheel available (KXV950015.3402) for DN10 - DN50

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

ERC



Spare handwheel available (KXV950015.3402) for DN10 - DN50

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

Vaurien 100N only for L-DN15, DN15 and DN20, Vaurien 125N for all DN's

**EAC****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]
<b>230VAC version</b>				
KA952AT50.800	100N	1	115	0,1
KA952AT05.800	125N	1	110	0,1
<b>24V AC/DC version</b>				
KA952AT52.800	100N	1	115	0,1
KA952AT07.800	125N	1	110	0,1

**CE**

Vaurien montabile solo su fig. 9525

**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**

# 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



ERC CE

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
<b>Spare handwheel</b>				
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

**9555H**

Ductile iron double reg. valve with variable orifice

**PN25**



Flanged PN25 (EN1092-2)  
Ductile iron body  
EPDM gasket  
Ductile iron handwheel  
Supplied with 2 test points in brass  
Working conditions: Water, 0°C to +110°C



CE

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
F9555H065.3312	065 - 2 1/2"	1	14700	14,7
F9555H080.3312	080 - 3"	1	17000	17,0
F9555H100.3312	100 - 4"	1	24300	24,3
F9555H125.3312	125 - 5"	1	32700	32,7
F9555H150.3312	150 - 6"	1	44800	44,8
F9555H200.3312	200 - 8"	1	83000	83,0
F9555H250.3312	250 - 10"	1	123000	123,0
F9555H300.3312	300 - 12"	1	168000	168,0

## 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	48,0	1	5800	5,8
F9555J050.3210	60,3	1	9000	9,0
F9555J065.3210	76,1 *	1	10800	10,8
F9555J080.3210	88,9	1	26800	26,8
F9555J100.3210	114,3	1	27400	27,4
F9555J125.3210	139,7 *	1	52750	52,8
F9555J150.3210	165,1 *	1	63800	63,8
F9555J200.3210	219,1	1	161000	161,0
F9555J250.3210	273,0	1	252000	252,0
F9555J300.3210	323,9	1	310000	310,0

\* Metric groove standard

**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



ERC

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



ERC

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 metal 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
F990POL20.2281	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

ERC

## 9905V

DZR brass automatic bal. valve with test points

PN25



Threaded F/F union ends (ISO 7/1 Rp)  
 With metal 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

ERC

Ver. with plugs available (for subsequent mounting of test points): F990V0mis.1903

# DYNAMIC BALANCING VALVES

9955

Ductile iron dynamic balancing valve

PN16



Wafer type suitable for EN1092 PN16 flanges  
 With metal 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

ERC

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

## Cartridges

Cartridges for automatic balancing valves



Cartridges for 9900P, 9900V/9905V 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]
KRR991rge.1880	015, L 020	50	54	2,7
KRR992rge.1880	H 015, 020, 025	50	107	5,4
KRR994rge.1880	032, 040, 050	15	271	4,1
KRR996rge.1880	H 050 - 300	3	1420	4,3
KTT995000.2468	Cap	1	205	0,2

ERC

## 9700

Pressure independent control valve (PICV)

PN20



Threaded M/M for unions (ISO 228/1)  
With integral regulation cartridge for  $\Delta P$  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,  $-10^{\circ}\text{C}$  to  $+130^{\circ}\text{C}$



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"	9	1041	8,3
F97000032.2436	032 - 1 1/4"	6	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  $\text{DN} \leq 20$ , Vaurien 125N and Vaurien-M 130N for all DN's

ERC **PATENTED**

## 9705

Pressure independent control valve (PICV)

PN20



Threaded M/M for unions (ISO 228/1)  
With integral regulation cartridge for  $\Delta P$  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,  $-10^{\circ}\text{C}$  to  $+130^{\circ}\text{C}$



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"	9	1075	8,6
F97050032.2437	032 - 1 1/4"	6	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  $\text{DN} \leq 20$ , Vaurien 125N and Vaurien-M 130N for all DN's

ERC **PATENTED**

## 9703

Pressure independent control valve (PICV)

PN20



Threaded F/F (ISO 7/1 Rp)  
With integral regulation cartridge for  $\Delta P$  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,  $-10^{\circ}\text{C}$  to  $+130^{\circ}\text{C}$



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"	9	1059	8,5
F97030032.3055	032 - 1 1/4"	6	2125	8,5

Vaurien 100N for  $\text{DN} \leq 20$ , Vaurien 125N and Vaurien-M 130N for all DN's

ERC **PATENTED**

# 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]
<b>230VAC version</b>				
KA952AT50.800	100N	1	115	0,1
KA952AT05.800	125N	1	110	0,1
<b>24V AC/DC version</b>				
KA952AT52.800	100N	1	115	0,1
KA952AT07.800	125N	1	110	0,1
<b>24VAC, 0-10V version (only for Fig. 9700/9705/9703)</b>				
KA952AT09.800	DN15-DN20	1	111	0,1
KA952AT10.800	DN25-DN32	1	111	0,1
KA952AT11.800	DN15-DN32	1	111	0,1



## 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
<b>Version with electrical fail safe</b>				
KA9700002.800	130N	1	200	0,2
<b>KA9700002.800 configurator</b>				
KA970CON2.800	130N	1	265	0,2



## 9705B

Pressure independent control valve (PICV)

PN20



Threaded F/F (ISO 7/1 Rp)  
 With differential pressure regulator for  $\Delta P$  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,  $\Delta P$  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

Vaurien-B 300N for all DN's



## 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]
<b>230VAC version, 3-point control</b>				
KA9705B03.800	300N	1	250	0,3
<b>24VAC version, 3-point control</b>				
KA9705B04.800	300N	1	250	0,3
<b>24VAC version, 0-10V control</b>				
KA9705B05.800	300N	1	250	0,3

CE

## 9755

Pressure independent control valve (PICV)

PN16



Flanged PN16 (EN1092-2)  
With differential pressure regulator for  $\Delta P$  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

ERC

# 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



ERC

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
<b>Spare capillary tube kit</b>				
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, aluminum 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



ERC

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
F9655H080.2499	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
<b>Spare capillary tube kit</b>				
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 (1/4" 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	23,7
F96100020.3016	020 - 3/4"	20	860	17,2
F96100025.3016	025 - 1"	15	1340	20,1
F96100032.3016	032 - 1 1/4"	6	2090	12,6
F96100040.3016	040 - 1 1/2"	6	2180	13,1
F96100050.3016	050 - 2"	4	3100	12,4
F96100065.3016	065 - 2 1/2"	4	4100	16,4
F96100080.3016	080 - 3"	4	5520	22,1
F96100100.3016	100 - 4"	2	6970	13,9



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 (1/4" 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"	20	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"	3	3100	9,3
F96100065.2718	065 - 2 1/2"	4	4100	16,4
F96100080.2718	080 - 3"	2	5520	11,1
F96100100.2718	100 - 4"	2	6970	13,9



9660

Pilot operated ductile iron pressure reducing valve

PN16



Flanged PN16  
 Body in ductile iron  
 Downstream setting pressure range from 1,0 bar to 12,0 bar  
 Operation with pilot valve to stabilize the pressure  
 Independent from the flow rate



Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
F9660i050.3070	050 - 2"	1	13500	13,5
F9660i065.3070	065 - 2 1/2"	1	18600	18,6
F9660i080.3070	080 - 3"	1	21200	21,2
F9660i100.3070	100 - 4"	1	30700	30,7
F9660i125.3070	125 - 5"	1	45000	45,0
F9660i150.3070	150 - 6"	1	65000	65,0
F9660i200.3070	200 - 8"	1	138000	138,0
F9660i250.3070	250 - 10"	1	271000	271,0
F9660i300.3070	300 - 12"	1	409000	409,0

# ACCESSORIES FOR BALANCING VALVES

## 95TP

Pressure test points



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]
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**Fig. 95TP, short version**

KC95TP008.710	Blue tie	10	32	0,3
KC95TP008.711	Red tie	10	32	0,3

**Fig. 95TP, long version with extension**

KPR95TP08.2282	Blue tie	10	93	0,9
KPR95TP08.2283	Red tie	10	93	0,9

ERC

## 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]
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KDV950008.1151	Red tie	40	160	6,4
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ERC



## 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]
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KMMMAND04.720	-	1	1800	1,8
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**Spare measuring needles for VIR test points**

KMM2AG000.1451	-	1	300	0,3
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**Spare hoses for differential manometer**

KMMCAVIBR.1452	-	1	150	0,2
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CE

## Shells

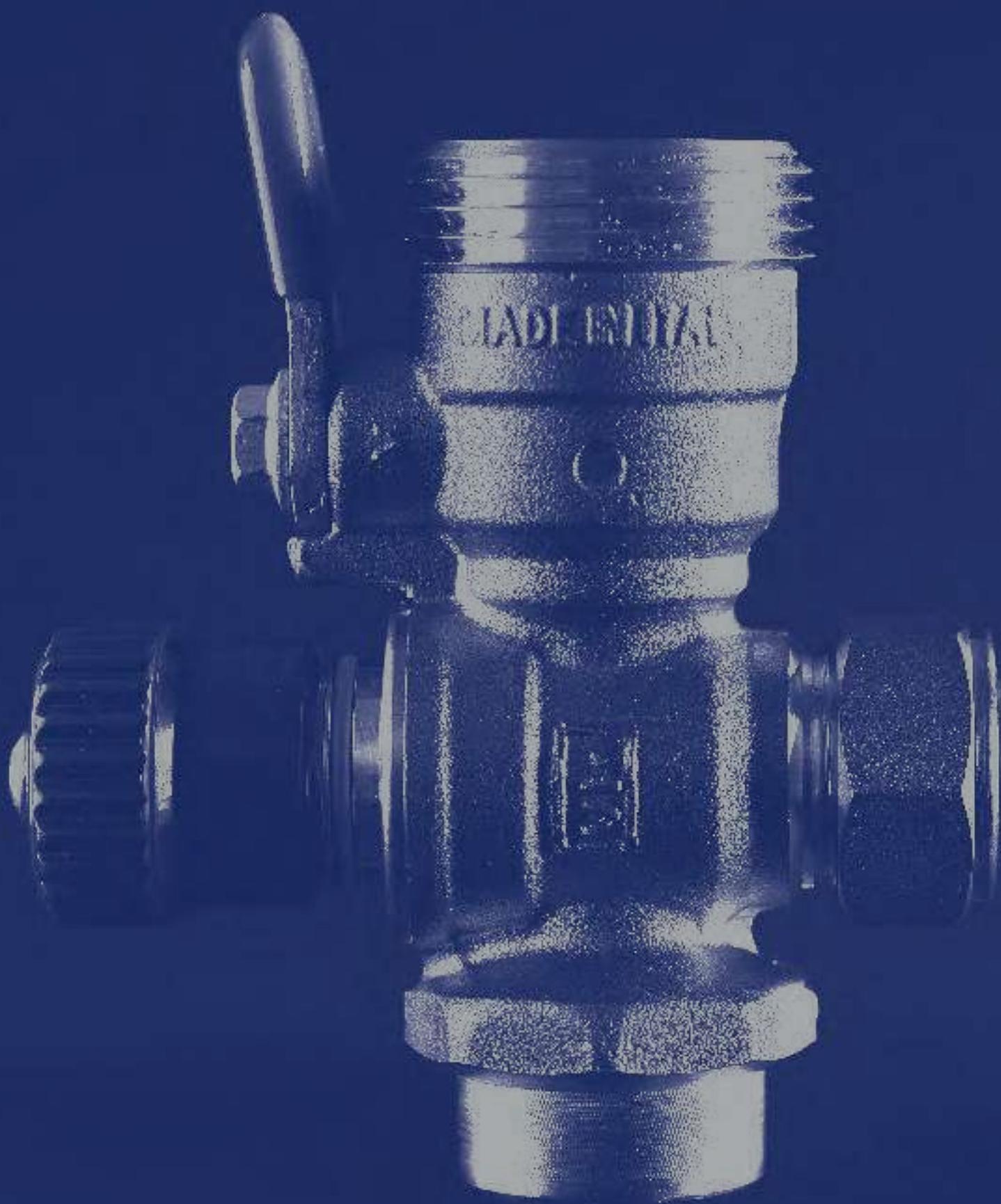
### Shells for balancing valves

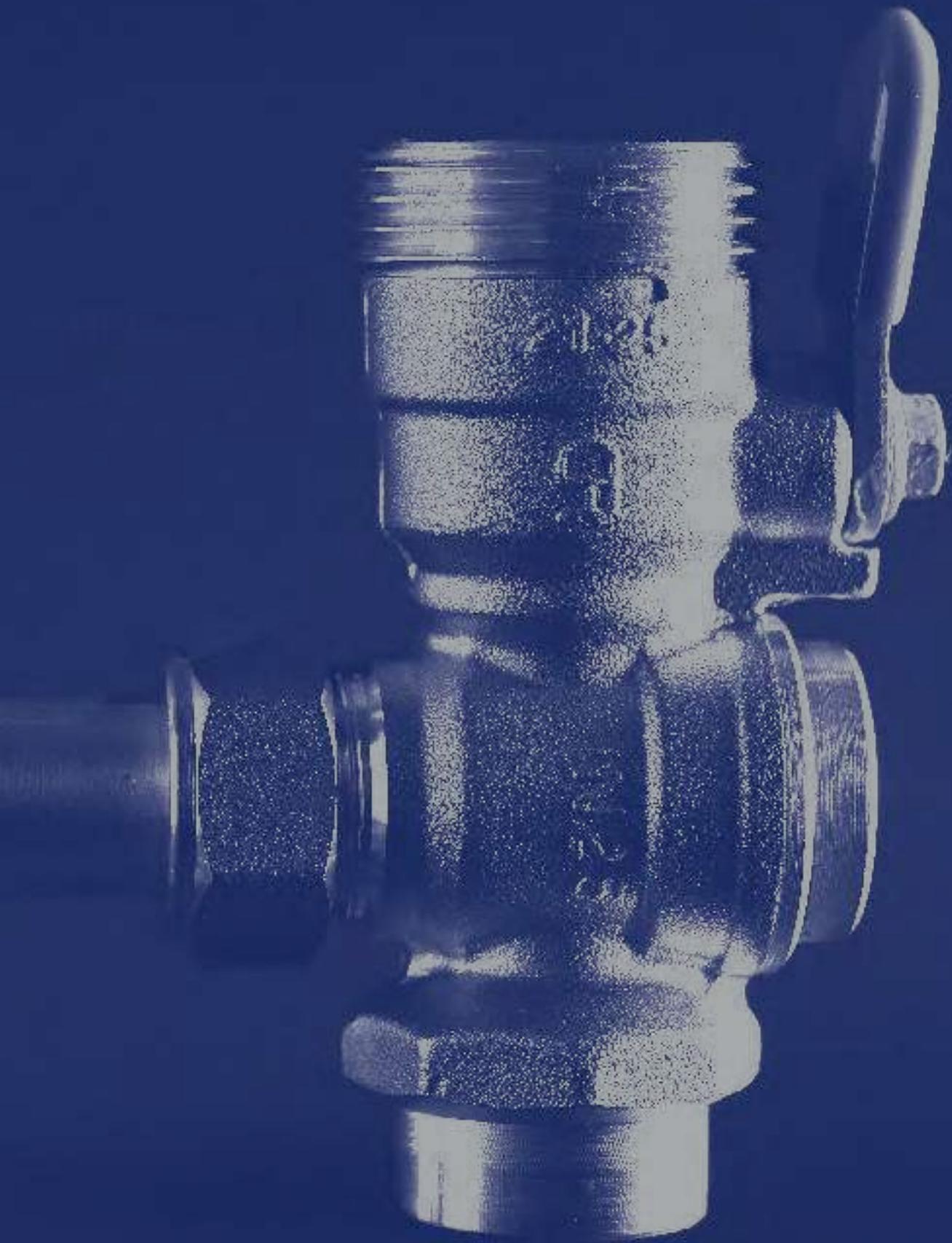


Polyethylene cross linked foam  
 Thickness 30mm  
 Thermal conductivity (Lambda factor, kcal/mh°C):  
 0,0298 at 0°C, 0,0303 at 10°C, 0,0326 at 40°C  
 Working conditions: -60°C to +90°C

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





**EZCONNECT**

# CONNECTION KIT FOR TERMINAL UNITS

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	1/2" - 1/2"	1	1704	1,7
JLQ2A5034.3	3/4" - 1/2"	1	1915	1,9
JLQ3A5032.3	3/4" - 3/4"	1	2020	2,0
JLQ3B5030.3	3/4" - 3/4"	1	2383	2,4
JLQ3B5034.3	1" - 3/4"	1	3105	3,1
JLQ4B5032.3	1" - 1"	1	3820	3,8

\* Pipe connection - Nominal size  
(Flexible hoses of different sizes can be connected using dedicated nipples)

92HS

Connection flexible hose

PN25



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	1167	1,2
KCN9H0040.2801	040 - 1 1/2"	1	1577	1,6
KCN9H0050.2801	032 - 1 1/4"	1	2332	2,3

Available version with length of 600mm (KCN9H2mis.2801) on request

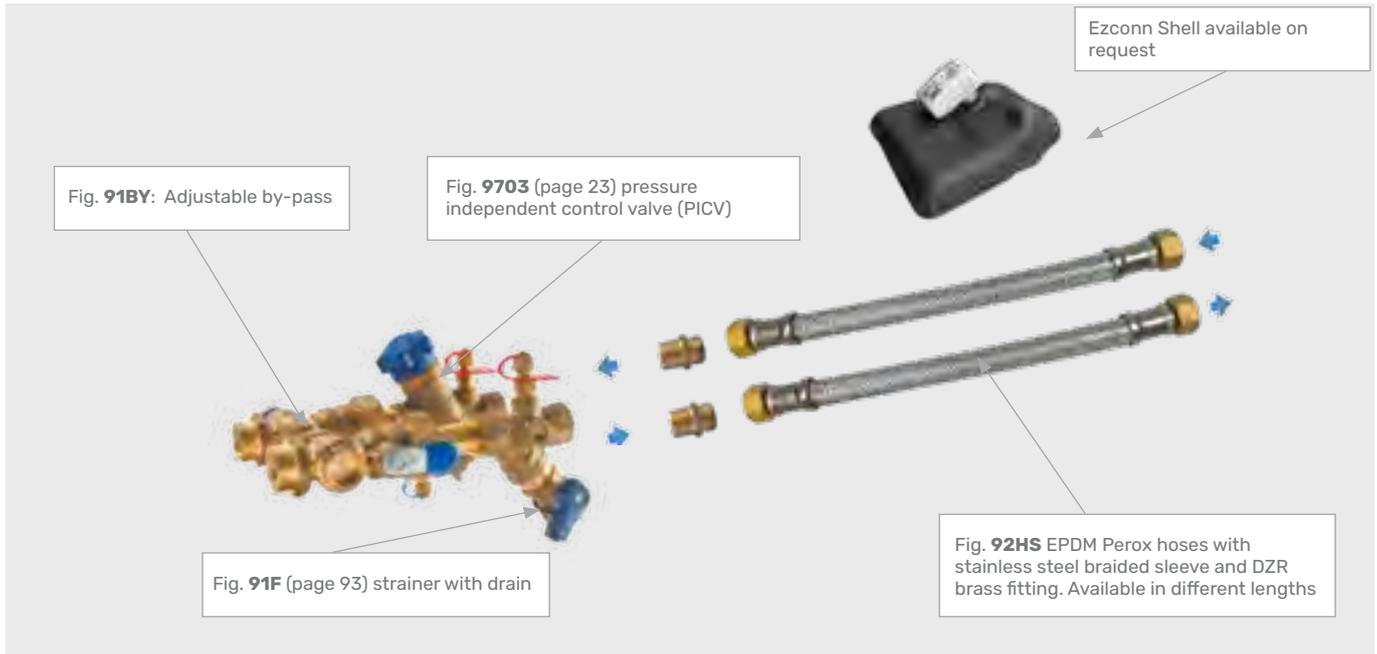
EZCONN-Shell Shell for fancoil kit



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]
KSHJLQ200.2882	DN015/DN020*	1	65	0,0
KSHJLQ300.2882	DN25**	1	100	0,0

\* Shell suitable for fig. JLQ2A5030.3 - JLQ2A5034.3 - JLQ3A5032.3  
\*\* Shell suitable for fig. JLQ4B5032.3



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



## EZCONNECT 2.0 BROCHURE (ENG) - DOWNLOAD



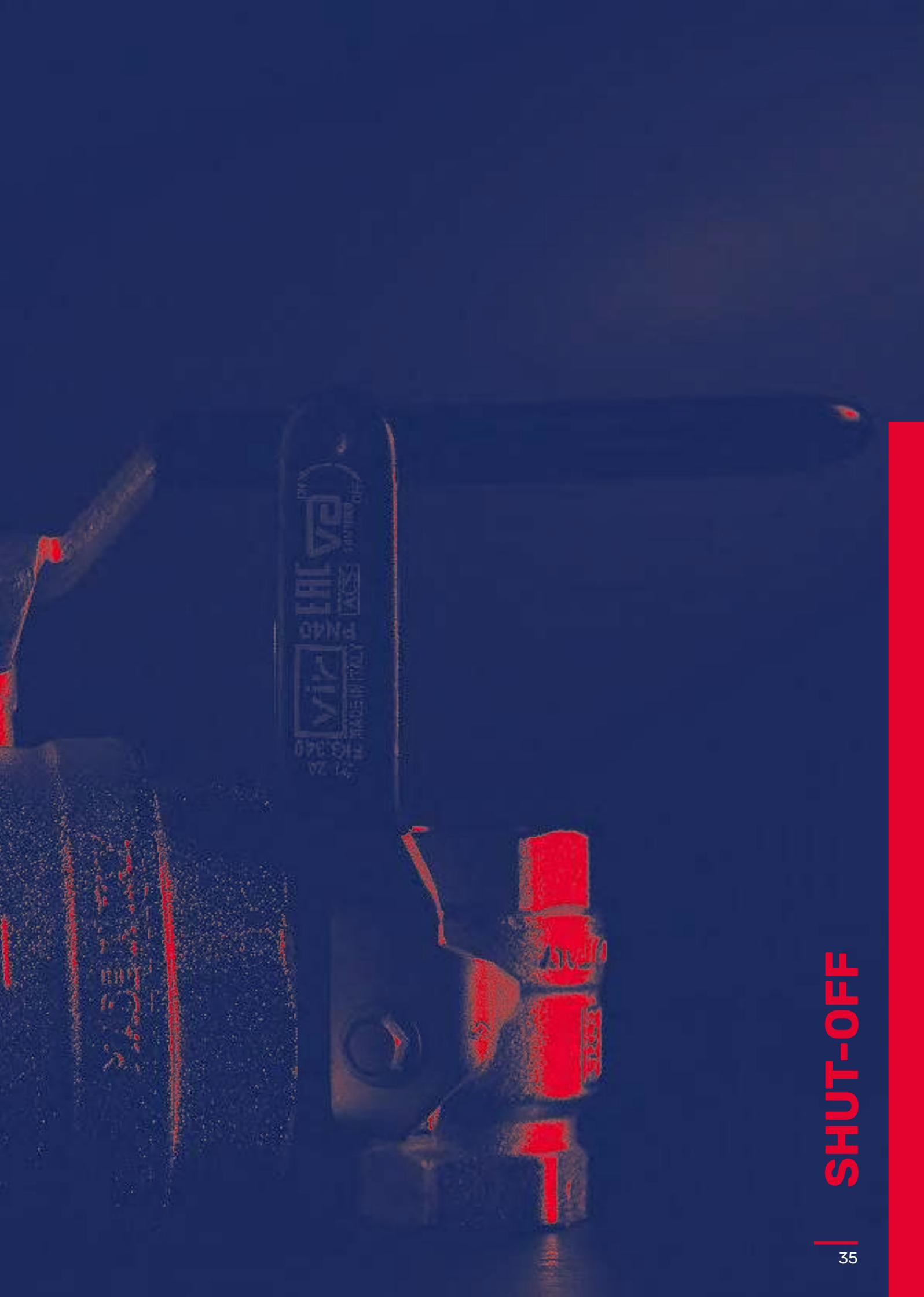
- Description & benefits
- Main features
- Codes & configurations
- Functional schemes
- Accessories





ON LIFE  
SAFETY  
EHL  
SAFETY  
PN 40  
ACS  
VIR  
MADE IN ITALY  
FIG. 340  
20-46

VIR



# 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]
<b>Lever handle version</b>				
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 (F3400Vmis.153) and NPT threaded (F3400Vmis.163) available

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Butterfly handle version</b>				
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]
<b>Lever handle version</b>				
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
<b>Butterfly handle version</b>				
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]
<b>Lever handle version</b>				
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

<b>Butterfly handle version</b>				
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

**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]
<b>Lever handle version</b>				
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

<b>Butterfly handle version</b>				
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

## 340DR

Full port DZR brass 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, 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



## 340J

Full port grooved brass ball valve

PN40



Grooved (ANSI/ AWWA C606/ Metric)  
 Chrome-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



## 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]
<b>Fig. 340GS</b>				
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
<b>Fig. 343GS</b>				
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



### 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]
<b>Lever handle version</b>				
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
<b>Butterfly handle version</b>				
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

### 340LN

Full port "long neck" brass ball valve

PN25



Threaded F/F (ISO 228/1)  
 Chrome-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

### 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  
 Working conditions: Water, 0°C to +150°C; Air, -10°C to +150°C  
 Valve for 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

# BALL VALVES

## 33FF

Full port brass ball valve

## PN32



ERC



Threaded F/F (ISO 228/1)  
 Chrome-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]
<b>Lever handle version</b>				
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
<b>Butterfly handle version</b>				
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



ERC



Threaded M/F (ISO 228/1)  
 Chrome-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]
<b>Lever handle version</b>				
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
<b>Butterfly handle version</b>				
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

**ERC**

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Lever handle version</b>				
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
F330K0065.1670	065 - 2 1/2"	6	2963	17,8
F330K0080.1670	080 - 3"	4	3747	15,0
F330K0100.1670	100 - 4"	2	5841	11,7
<b>Butterfly handle version</b>				
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
F330K0032.1672	032 - 1 1/4"	10	535	4,2

ACS Version for DN10 - DN50

**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

**ERC**

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Lever handle version</b>				
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
<b>Butterfly handle version</b>				
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
F333K0032.1687	032 - 1 1/4"	10	635	6,4

ACS Version for DN10 - DN50

# BALL VALVES

**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]
<b>Lever handle version</b>				
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
Version with NPT thread and red lever handle (F3800Bmis.915) available				
<b>Butterfly handle version</b>				
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)

Available GDV version

**380LN**

Full port long neck bronze ball valve

**PN25**



Threaded F/F (ISO 228/1)  
 Chrome-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]
<b>Lever handle version</b>				
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
<b>Butterfly handle version</b>				
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

Available GDV and SINTEF version

### 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)  
Chrome-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)  
Chrome-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



# BALL VALVES

## 5020DR

Full port DZR brass EzPress ball valve

PN16



EzPress/EzPress ends (European copper/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



EzPress/EzPress ends (European copper/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]
<b>V Profile</b>				
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
<b>M Profile</b>				
F68M00042.3116	042	10	1535	15,4
F68M00054.3116	054	6	2809	16,9

Available GDV version

## 5020LN

Full port bronze EzPress ball valve

PN16



EzPress/EzPress ends (European copper/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]
<b>V Profile</b>				
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
<b>M Profile</b>				
F68MLN042.3127	042	10	1830	18,3
F68MLN054.3127	054	8	2809	22,5

Available GDV version



*flowing ideas*

**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



Available GDV version

**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



Available GDV version

**5028**

Full port bronze EzPress ball valve

**PN16**



EzPress/F ends (European copper/steel tubing - ISO228/1)  
 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



Available GDV version

# BALL VALVES

**390**

Ductile iron ball valve full bore

**PN16**



Flanged Ends (Lengths according to 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



ERC



CE

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)



ERC

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

**322**

Boiler drain ball valve

**PN25**



Threaded M (ISO 7/1 R) + hose union  
 ChromE-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

**ERC**

**323, 324**

Brass mini ball valve

**PN10**



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]
<b>Fig. 323</b>				
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
<b>Fig. 324</b>				
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

**ERC**

**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

**ERC**

# BALL VALVES

**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

**ERC**

**3WL**

3 way "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

**ERC**

# 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]
<b>SS304 stainless steel levers</b>				
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
<b>Dacromet steel butterflies</b>				
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]
<b>SS304 stainless steel levers</b>				
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
Available black Geomet steel lever handle (KXM300mis.3347) for DN08-DN50				
<b>Aluminum butterflies</b>				
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

# ACCESSORIES & SPARE PARTS FOR BALL VALVES

## 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

## Stem extensions



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

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Fig. 340, 343, 348, 342, 340 Solar, 340J</b>				
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
<b>Fig. 330, 333</b>				
KPR5C0015.2131	015 - 020	400	50	20,0
KPR5C0025.2131	025 - 032	200	83	16,6
KPR5C0040.2131	040 - 050	100	117	11,7
<b>Fig. 390, 390G</b>				
KPR390040.266	040 - 050	1	500	0,5
KPR390065.266	065 - 100	1	550	0,6
KPR390125.266	125 - 150	1	600	0,6
<b>Fig. 33FF, 33MF</b>				
KPR33X015.2810	015 - 020	250	59	14,8
KPR33X025.2810	025 - 032	250	78	7,8
KPR33X040.2810	040 - 050	100	90	4,5
<b>Fig. 380</b>				
K3000X008.278	008 - 010	250	30	7,5
K3000X015.278	015 - 020	250	59	14,8
K3000X025.278	025 - 032	100	78	7,8
K3000X040.278	040 - 050	50	90	4,5

# 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 pages 61-62)



ERC CE

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Fig. 4020L - Aluminium lever</b>				
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

<b>Fig. 4020L - Cast iron lever</b>				
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

<b>Fig. 4020G</b>				
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 pages 61-62)



ERC CE

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Fig. 4320L - Aluminium lever</b>				
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

<b>Fig. 4320L - Cast iron lever</b>				
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

<b>Fig. 4320G</b>				
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 for 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 in SS316 stainless steel, stem in SS416 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 pages 61-62)



ERC CE

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Fig. 4029L - Aluminium lever</b>				
F4029L032.2302	032 - 1 1/4"	1	2300	2,3
F4029L040.2302	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

<b>Fig. 4029G</b>				
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



Body in epoxy coated ductile iron GGG40  
 Disc in **SS316 stainless steel**, stem in SS416 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 pages 61-62)



**ERC** **CE**

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Fig. 4329L - Aluminium lever</b>				
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

<b>Fig. 4329G</b>				
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 in **SS316** stainless steel, stem in SS416 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 pages 61-62)



Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Fig. 4025L - Aluminium lever</b>				
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

<b>Fig. 4025L - Cast iron lever</b>				
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

<b>Fig. 4025G</b>				
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 lug butterfly valve

PN16



Body in epoxy coated ductile iron GGG40  
 Disc in SS316 stainless steel, stem in SS416 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 pages 61-62)



ERC



CE



Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Fig. 4325L - Aluminium lever</b>				
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. 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. 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 pages 61-62)



ERC



CE

ACS

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Fig. 402WL - Aluminium lever</b>				
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
<b>Fig. 402WG</b>				
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 pages 61-62)



ERC



CE

ACS

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Fig. 432WL - Aluminium lever</b>				
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
<b>Fig. 432WG</b>				
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 pages 61-62)



ERC CE

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Fig. 4520L</b>				
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
<b>Fig. 4520G</b>				
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 pages 61-62)



ERC CE

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Fig. 4620L</b>				
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
<b>Fig. 4620G</b>				
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 pages 61-62)



ERC CE

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

# ACTUATORS FOR BUTTERFLY VALVES

## CUTTER-AQ

Electric actuator



Supply voltage: 85-260VAC/24VDC, 230VAC or 24VDC  
 ISO 5211 connection  
 Enclosure protection: IP68  
 Travel time for 90°: 12" to 80" (depending on model)  
 Auxiliary microswitches: 2  
 3 point control  
 Manual override



CE

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>85-260VAC or 24VDC version</b>				
KACUTAQ00.800	-	1	2500	2,5
KACUTAQ01.800	-	1	2500	2,5
KACUTAQ02.800	-	1	3000	3,0
<b>230VAC version</b>				
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
<b>24VDC version</b>				
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
<b>85-260VAC or 24VDC version</b>		
KACUTAQ00.800	DN032/DN040	-
KACUTAQ01.800	DN050/DN080	-
KACUTAQ02.800	DN100	DN050/DN080
<b>230VAC version</b>		
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	-
<b>24VDC version</b>		
KACUTAQ08.800	DN125	DN100
KACUTAQ09.800	DN150	DN125
KACUTAQ10.800	DN200	DN150

# ACTUATORS FOR BUTTERFLY VALVES

## HOVERCRAFT Aluminum pneumatic actuator



Anodized aluminum body  
ISO 5211 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]
<b>Double acting version</b>				
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

<b>Spring return version</b>				
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
<b>Double acting version</b>		
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	-
<b>Spring return version</b>		
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	-

# ACCESSORIES FOR PNEUMATIC ACTUATOR

## 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

For all Hovercraft actuators

CE

## 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]
<b>230VAC version</b>				
KA0010ZB2.801	-	1	170	0,2
<b>24VAC version</b>				
KA0080ZB2.801	-	1	170	0,2
<b>24VDC version</b>				
KA0030ZB2.801	-	1	170	0,2
<b>10VAC version</b>				
KA0020ZB2.801	-	1	170	0,2

For all Hovercraft actuators

CE

## 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

# ACCESSORIES & SPARE PARTS FOR BUTTERFLY VALVES

## Levers for butterfly valves



Cast iron version



Aluminum version

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

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Cast iron</b>				
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
<b>Aluminium</b>				
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  
ISO 5211 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 / 350	1	15000	15,0
KXV4PAG00.932	400 / 450	1	36000	36,0
<b>Chain drive gear</b>				
KXV4PHA00.3321	032 / 150	1	5800	5,8
KXV4PHB00.3321	200 / 250	1	10500	10,5
KXV4PHC00.3321	300 / 350	1	12300	12,3
KXV4PHD00.3321	400 / 600	1	29100	29,1

Spare pin for handwheel-stem connection:  
KVR4PGA00.3320 - DN32 / DN150  
KVR4PGD00.3320 - DN200 / DN350

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  
 Enclosure protection: 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 / 350	1	10500	10,5

CE

For all items except 4820L

## Limit switch for butterfly valves with lever



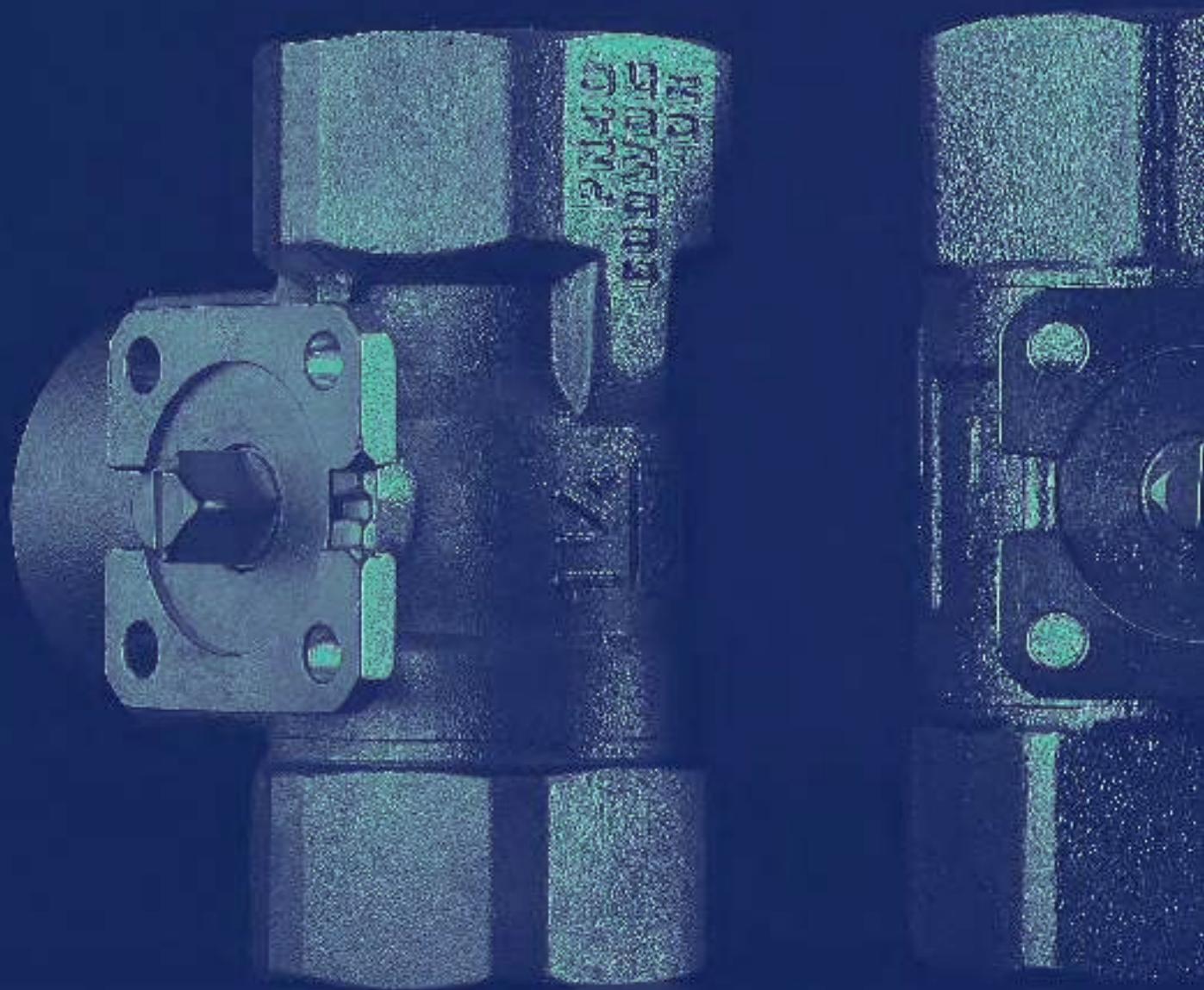
Limit switch for butterfly valves with lever  
 Enclosure protection: IP65  
 Supplied with mounting pad for flange ISO 5211 F05/F07  
 Suitable for mounting on open or closed position  
 Mounting screws included

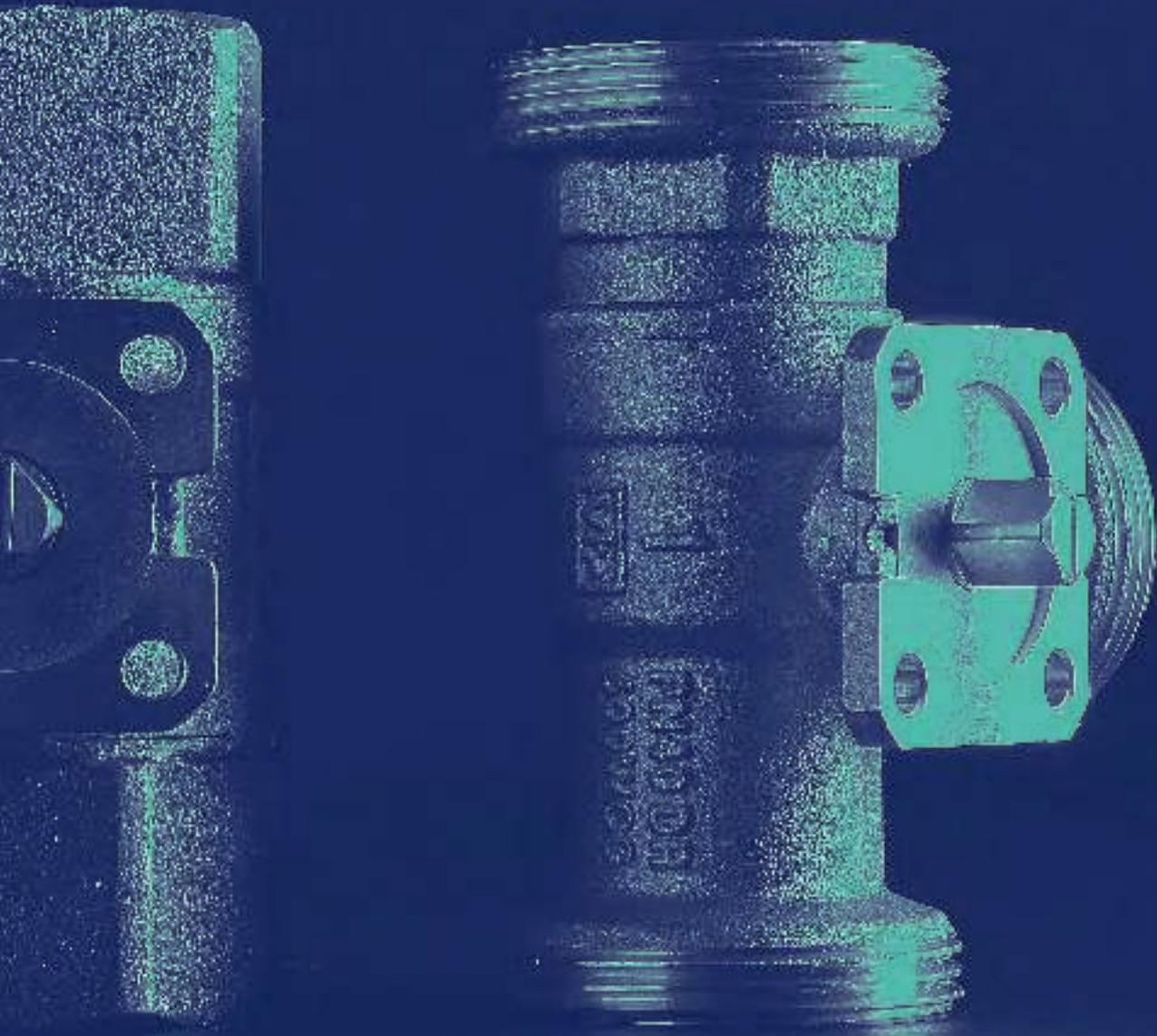


Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Version for cast iron lever</b>				
KSC4PEA00.1612	032 - 150	1	132	0,1
<b>Version for aluminium lever</b>				
KSC4PEA01.1612	032 - 300	1	80	0,1

CE

For all items except 4820L





## 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 unions)  
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 unions)  
 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: 24V AC/DC or 230VAC  
 ISO 5211 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]
<b>230VAC version, travel 120", 2/3 points control</b>				
KAM15F120.800	015 - 050	1	700	0,7
<b>24VAC version, travel 120", 2/3 points control</b>				
KAM15F122.800	015 - 050	1	700	0,7
<b>24V AC/DC version, adj. travel 35"/60"/120", 0-10V control</b>				
KAM15S132.800	015 - 050	1	700	0,7



AM-980L

Electric actuator



Supply voltage: 24V AC/DC or 230VAC  
 ISO 5211 F04 - □9mm fast connection  
 Enclosure protection: da IP44 a IP54  
 Travel time for 90°: 5" to 30"  
 2 points, 3 points or 0-10V control versions  
 Integrated manual override



Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>230VAC version, travel 30", 2 points control</b>				
KAM980L00.800	015 - 050	1	505	0,5
<b>230VAC version, travel 30", 2 points control, 1 auxiliary switch</b>				
KAM980L01.800	015 - 050	1	505	0,5
<b>24VAC version , travel 30", 2 points control</b>				
KAM980L02.800	015 - 050	1	505	0,5
<b>24VAC version , travel 30", 2 points control, 1 auxiliary switch</b>				
KAM980L03.800	015 - 050	1	505	0,5
<b>24VDC version , travel 30", 2/3 points control, 1 auxiliary switch</b>				
KAM980L04.800	015 - 050	1	505	0,5
<b>24V AC/DC version, 0-10V control, 1 auxiliary switch</b>				
KAM980L05.800	015 - 050	1	505	0,5



# BALL VALVES FOR ACTUATORS

325

2-way brass valve with flange for actuator

PN16



F/M Version  
(DN15/32)

F/F Version  
(DN40/50)

Threaded F/M with union (ISO 228/1) up to DN32 included  
 Threaded F/F (ISO 228/1) for DN40 and DN50  
 Chrome-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

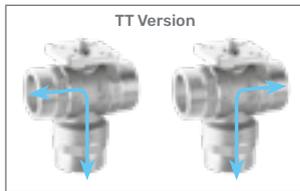
Available F/F version (F325I0mis.3166) for DN15 - DN32

ERC

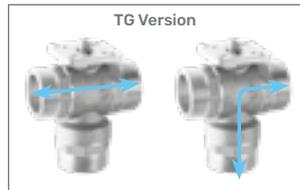
32T

3-way brass valve with flange for actuator

PN16



TT Version



TG Version

Threaded M/M/M (ISO 228/1) up to DN32 included  
 Threaded F/F/F (ISO 228/1) for DN40 and DN50  
 Chrome-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]
<b>Fig. 32TT</b>				
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
<b>Fig. 32TG</b>				
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
<b>Kit of unions and nuts (provided separately)</b>				
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

\* version available with reduced 1/2" union, threaded M ISO 7/1 R (KBC91V015.3400)

ERC

## 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



CE

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>230VAC version, 2 points control, 1 auxiliary switch</b>				
KASLOOP24.800	up to DN050	5	800	4,0
<b>230VAC version, 2 points control, open/close switches connected to supply</b>				
KASLOOP32.800	up to DN050	5	610	3,1
<b>230VAC version, 3 points control, 1 auxiliary switch</b>				
KASLOOP28.800	un to DN050	5	800	4,0
KASLOOP35.800 (variant of KASLOOP24.800) 10" and 6Nm (up to DN32) alternative				
<b>24VAC version, 2 points control, 1 auxiliary switch</b>				
KASLOOP22.800	up to DN050	5	800	4,0
<b>24VAC version, 2 points control, open/close switches connected to supply</b>				
KASLOOP33.800	up to DN050	5	610	3,1
<b>24VAC version, 3 points control, 1 auxiliary switch</b>				
KASLOOP25.800	up to DN050	5	800	4,0
<b>230VAC version, 2 points control, 1 auxiliary switch + thermal break on stem</b>				
KASLOOP34.800	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 ISO 5211  
 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)



EAC

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  
 ISO 5211 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]
<b>85-260VAC / 24VDC version</b>				
KACUTAQ00.800	up to 025	1	2500	2,5
KACUTAQ01.800	032 - 050	1	2500	2,5
<b>230VAC version</b>				
KACUTAQ03.800	065 - 080	1	10000	10,0
<b>24VDC version</b>				
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  
 ISO 5211 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]
<b>Double acting version</b>				
KAHOVER15.801	up to 050	1	1830	1,8
KAHOVER18.801	065 - 080	1	4000	4,0
<b>Spring return version</b>				
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

2-way 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 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,  $\varnothing$ 9mm 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
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### Stainless steel stem extension kit, length 70mm

KPR3MV015.2823	DN15-DN50	1	482	0,5
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Suitable for 325-ENO valves

CE

## 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-  $\varnothing$ 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

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

PN16



Threaded F/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-  $\varnothing$ 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]
<b>Fig. 980FT</b>				
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
<b>Fig. 980FL</b>				
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

# 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

ERC

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]
<b>Fig. 988FT</b>				
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
<b>Fig. 988FL</b>				
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

ERC

## AM-980

Electric actuator



Supply voltage: 24V AC/DC or 230VAC  
ISO 5211 F04 -  $\square$ 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]
<b>230VAC version, travel 120°, 2/3 points control</b>				
KAM15F120.800	015 - 050	1	700	0,7
<b>24VAC version, travel 120°, 2/3 points control</b>				
KAM15F122.800	015 - 050	1	700	0,7

Suitable for 980F, 980FT, 980FL, 988F, and 988FT (Max dP 3,5Bar) valves

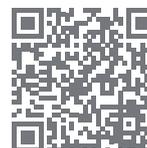


## AM-980L

Electric actuator

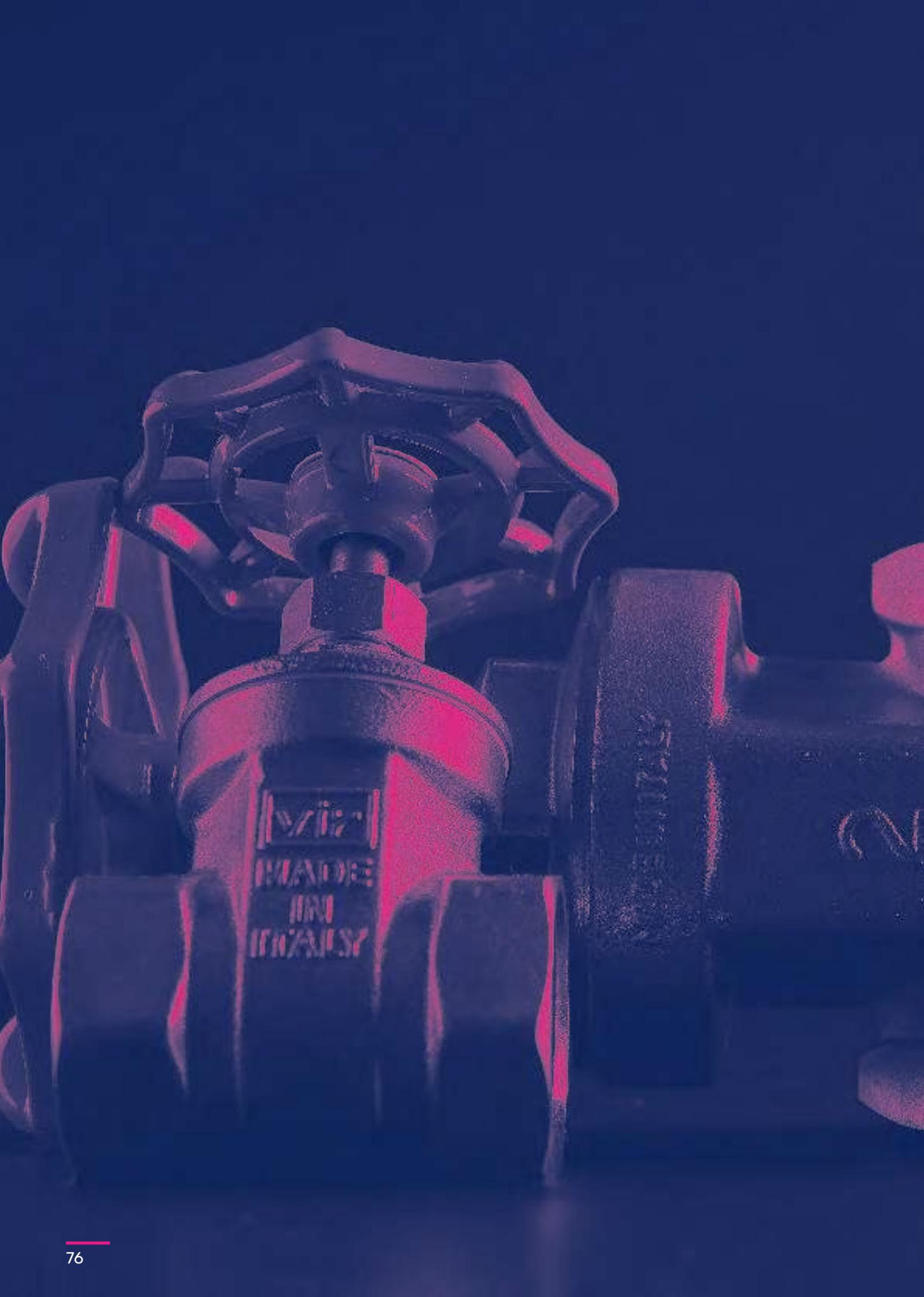


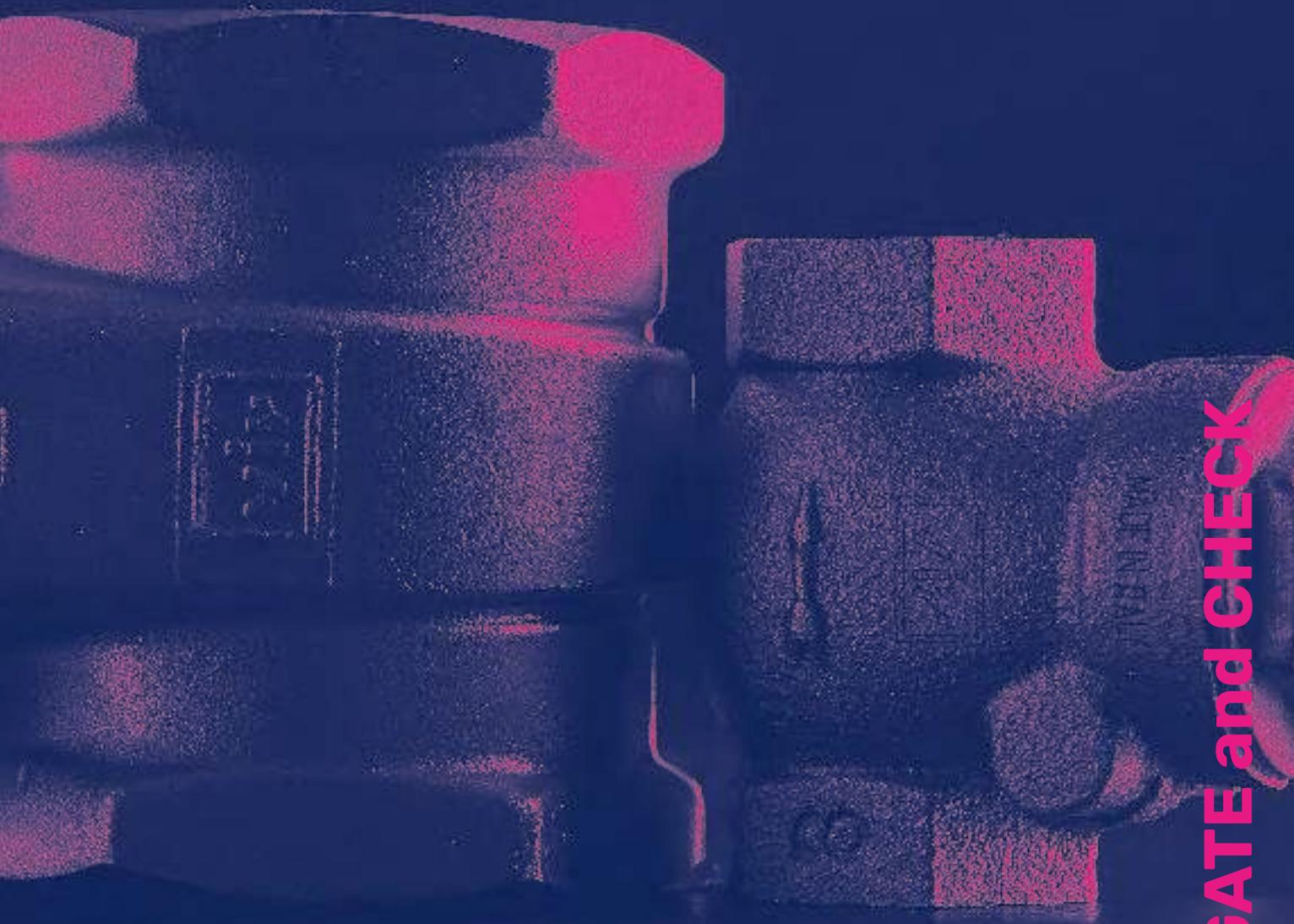
Supply voltage: 24V AC/DC or 230VAC  
ISO 5211 F04 -  $\square$ 9mm fast connection  
Enclosure protection: da IP44 a IP54  
Travel time for 90°: 5° to 30°  
2 points, 3 points or 0-10V control versions  
Integrated manual override



Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>230VAC version, travel 30°, 2 points control</b>				
KAM980L00.800	015 - 050	1	505	0,5
<b>230VAC version, travel 30°, 2 points control, 1 auxiliary switch</b>				
KAM980L01.800	015 - 050	1	505	0,5
<b>24VAC version, travel 30°, 2 points control</b>				
KAM980L02.800	015 - 050	1	505	0,5
<b>24VAC version, travel 30°, 2 points control, 1 auxiliary switch</b>				
KAM980L03.800	015 - 050	1	505	0,5
<b>24VDC version, travel 30°, 2/3 points control, 1 auxiliary switch</b>				
KAM980L04.800	015 - 050	1	505	0,5







## | GATE 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"	48	177	8,5
F040K0020.1872	020 - 3/4"	39	248	9,7
F040K0025.1872	025 - 1"	36	359	12,9
F040K0032.1872	032 - 1 1/4"	27	567	15,3
F040K0040.1872	040 - 1 1/2"	10	750	7,5
F040K0050.1872	050 - 2"	10	1025	10,3
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

ERC



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
F056G0100.945	100 - 4"	2	6960	13,9

ERC

## 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



ERC



Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Fig. 90</b>				
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
<b>Fig. 90LK</b>				
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

## 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



ERC



Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Fig. 100</b>				
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
<b>Fig. 100LK</b>				
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

# GATE VALVES

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"	30	450	13,5
F1100B025.2796	025 - 1"	15	700	10,5
F1100B032.2796	032 - 1 1/4"	12	1000	12,0
F1100B040.2796	040 - 1 1/2"	10	1390	13,9
F1100B050.2796	050 - 2"	5	2120	10,6

ERC



CE

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"	20	615	12,3
F1200B025.2799	025 - 1"	15	940	14,1
F1200B032.2799	032 - 1 1/4"	15	1370	20,6
F1200B040.2799	040 - 1 1/2"	10	1925	19,3
F1200B050.2799	050 - 2"	5	3000	15,0

ERC CE



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



ERC



CE

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
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#### Spare handwheels

KXV091050.3062	050	1	800	0,8
KXV091065.3062	065	1	1200	1,2
KXV091080.3062	080	1	1200	1,2
KXV091100.3062	100	1	1200	1,2
KXV091125.3062	125 - 150	1	2000	2,0
KXV091200.3062	200	1	3400	3,4
KXV091250.3062	250 - 300	1	4500	4,5
KXV091350.3062	350 - 400	1	7200	7,2

# WAFER CHECK VALVES

771

Brass spring loaded check valve

PN16



Wafer type suitable for EN1092 PN10 or PN16 flanges  
Spring in SS302 stainless steel and disc in SS304 stainless steel  
Body in brass (ductile iron GGG40 beyond DN100)  
Working conditions: Water, -10°C to +110°C



ERC

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Brass version</b>				
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
<b>Cast iron version</b>				
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 to +220°C  
Max 40bar up to 100°C, max 10bar above



ERC

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



ERC



CE

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

### Cast 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



ERC

CE

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

# WAFER CHECK VALVES

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



EAC

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
F77700040.1372	040 - 1 1/4"	1	700	0,7
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
F77700250.1372	250 - 10"	1	12600	12,6
F77700300.1372	300 - 12"	1	20000	20,0

# 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



**ERC**

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

**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



**ERC**

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

# CHECK VALVES

**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



ERC CE

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Fig. 890 - Metal seat</b>				
F89051050.1015	050 - 2"	1	12400	12,4
F89051065.1015	065 - 2 1/2"	1	15200	15,2
F89051080.1015	080 - 3"	1	19500	19,5
F89051100.1015	100 - 4"	1	26810	26,8
F89051125.1015	125 - 5"	1	42000	42,0
F89051150.1015	150 - 6"	1	57720	57,7
F89051200.1015	200 - 8"	1	93000	93,0
F89051250.1015	250 - 10"	1	145000	145,0
F89051300.1015	300 - 12"	1	221000	221,0
<b>Fig. 890E - EPDM seat</b>				
F89051050.2837	050 - 2"	1	12400	12,4
F89051065.2837	065 - 2 1/2"	1	15200	15,2
F89051080.2837	080 - 3"	1	19500	19,5
F89051100.2837	100 - 4"	1	26810	26,8
F89051125.2837	125 - 5"	1	42000	42,0
F89051150.2837	150 - 6"	1	57700	57,7
F89051200.2837	200 - 8"	1	93000	93,0
F89051250.2837	250 - 10"	1	145000	145,0
F89051300.2837	300 - 12"	1	221000	221,0

**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



ERC

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Threaded version</b>				
F80601025.2245	025 - 1"	1	1330	1,3
F80601032.2245	032 - 1 1/4"	1	1430	1,4
F80601040.2245	040 - 1 1/2"	1	2000	2,0
F80601050.2245	050 - 2"	1	3500	3,5
<b>Flanged version</b>				
F80601065.2246	065 - 2 1/2"	1	11500	11,5
F80601080.2246	080 - 3"	1	15100	15,1
F80601100.2246	100 - 4"	1	21500	21,5
F80601125.2246	125 - 5"	1	33500	33,5
F80601150.2246	150 - 6"	1	47000	47,0
F80601200.2246	200 - 8"	1	85000	85,0
F80601250.2246	250 - 10"	1	85000	85,0
F80601300.2246	300 - 12"	1	203000	203,0

Version for PN10 flanges (F80601mis.3263) available for DN200-DN300

**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

**ERC**

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

**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]
F76500010.3018	010 - 3/8"	1	120	0,2
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

**765K**

## Spring-loaded brass check valve

**PN25**

Threaded F/F (ISO 7/1 Rp)  
Stainless steel AISI 302 spring  
Brass disc, EPDM Perox gasket  
Stainless steel AISI 304 optional foot strainer (mesh 1000µm)  
Working conditions: Water, 0°C to +100°C  
PN25 for DN≤50  
PN16 for DN≥65



Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
F765K0010.3195	010 - 3/8"	1	87	0,1
F765K0015.3195	015 - 1/2"	1	123	0,2
F765K0020.3195	020 - 3/4"	1	192	0,2
F765K0025.3195	025 - 1"	1	299	0,3
F765K0032.3195	032 - 1 1/4"	1	481	0,5
F765K0040.3195	040 - 1 1/2"	1	627	0,7
F765K0050.3195	050 - 2"	1	999	1,0
F765K0065.3195	065 - 2 1/2"	1	2120	2,2
F765K0080.3195	080 - 3"	1	3120	3,2

# CHECK VALVES

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 1000µm



ERC

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
<b>Optional foot strainer</b>				
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

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

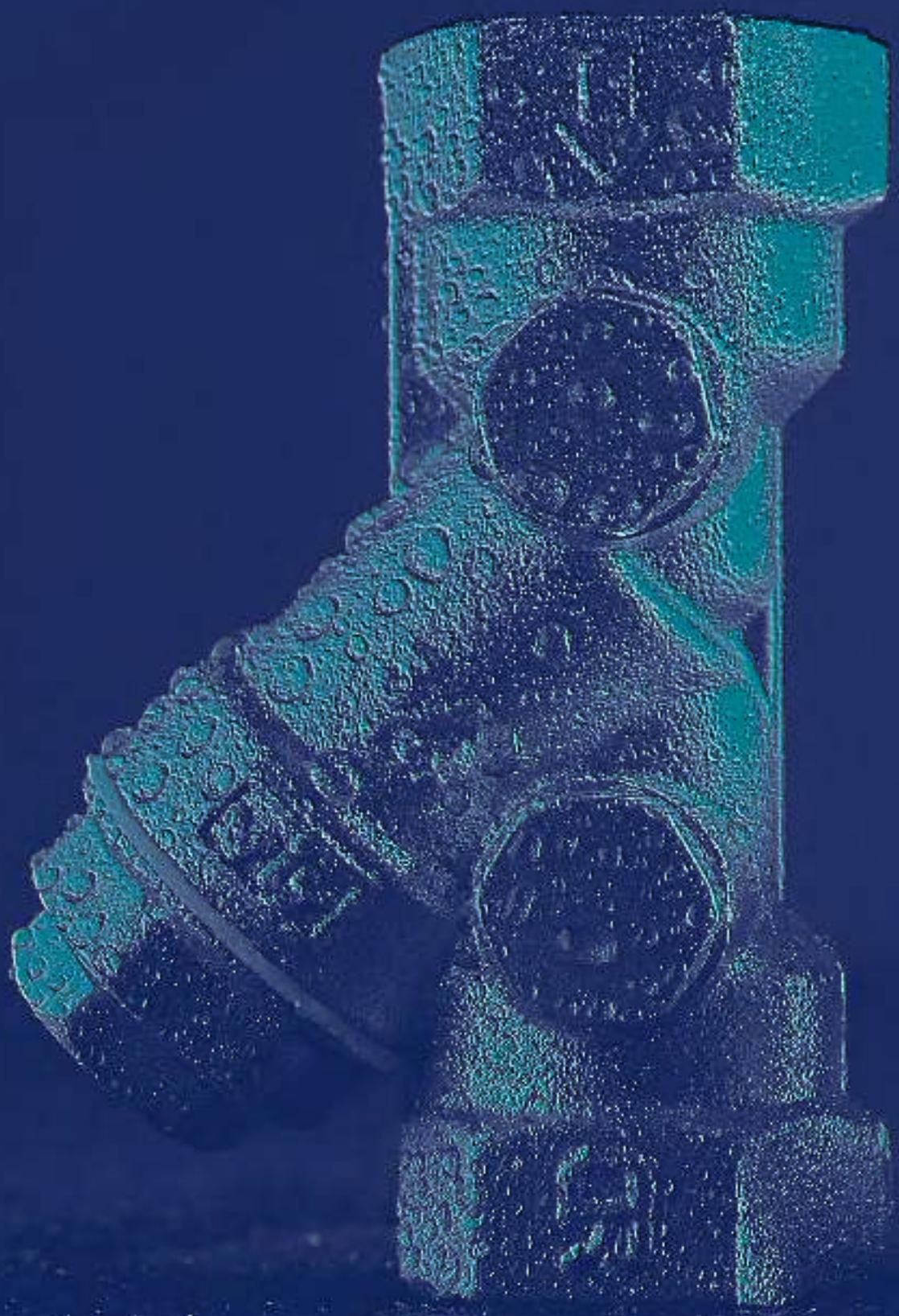
Optional foot strainer  
Flanged PN16 (EN1092-2)  
Zinc plated steel body



ERC

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
<b>Optional foot strainer</b>				
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

**899H**

Brass strainer

**PN32**



Threaded F/F (ISO 7/1 Rc)  
Stainless steel AISI 316 filter  
Body-bonnet gasket in modified PTFE  
Working conditions: Water, 0°C to +110°C



Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
F899ST015.3368	015 - 1/2"	1	198	0,2
F899ST020.3368	020 - 3/4"	1	289	0,3
F899ST025.3368	025 - 1"	1	396	0,4
F899ST032.3368	032 - 1 1/4"	1	634	0,7
F899ST040.3368	040 - 1 1/2"	1	952	1,0
F899ST050.3368	050 - 2"	1	1422	1,5



**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



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
<b>89DV-241 valve for drain</b>				
F241X0010.1962	010 - 3/8"	1	130	0,1

Can be mounted on drain: Fig. 95TP/ Fig. 9315 test point (pag.28) 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) as 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]
<b>Version with drain and test point</b>				
F91F00015.3109	015 - 1/2"	40	320	12,8
F91F00020.3109	020 - 3/4"	30	413	12,4
F91F00025.3109	025 - 1"	20	549	11,0
<b>Version with only strainer</b>				
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]
F89511015.842	015 - 1/2"	1	2000	2,0
F89511020.842	020 - 3/4"	1	3000	3,0
F89511025.842	025 - 1"	1	4000	4,0
F89511032.842	032 - 1 1/4"	1	6000	6,0
F89511040.842	040 - 1 1/2"	1	7200	7,2
F89511050.842	050 - 2"	1	8390	8,4
F89511065.842	065 - 2 1/2"	1	12700	12,7
F89511080.842	080 - 3"	1	15500	15,5
F89511100.842	100 - 4"	1	21800	21,8
F89511125.842	125 - 5"	1	30500	30,5
F89511150.842	150 - 6"	1	43900	43,9
F89511200.842	200 - 8"	1	78000	78,0
F89511250.842	250 - 10"	1	126000	126,0
F89511300.842	300 - 12"	1	165000	165,0
F89511350.842	350 - 14"	1	293500	293,5
F89511400.842	400 - 16"	1	389000	389,0
F89511450.842	450 - 18"	1	510000	510,0
F89511500.842	500 - 20"	1	640000	640,0
F89511600.842	600 - 24"	1	1072000	1072,0

Available spare EPDM gasket (KXG895mis.3167) for DN25 - DN400

### 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 (KFF895mis.3072) hole diameter

KFF895025.307s	025 - 1"	1	390	0,4
KFF895032.307s	032 - 1 1/4"	1	450	0,5
KFF895040.307s	040 - 1 1/2"	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

**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



CE

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
F89511050.2932	050 - 2"	1	10000	10,0
F89511065.2932	065 - 2 1/2"	1	15000	15,0
F89511080.2932	080 - 3"	1	18000	18,0
F89511100.2932	100 - 4"	1	26000	26,0
F89511125.2932	125 - 5"	1	39000	39,0
F89511150.2932	150 - 6"	1	50000	50,0
F89511200.2932	200 - 8"	1	80000	80,0
F89511250.2932	250 - 10"	1	130000	130,0
F89511300.2932	300 - 12"	1	180000	180,0
F89511350.2932	350 - 14"	1	285000	285,0

**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



CE

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
F89521050.1945	60,3	1	10000	10,0
F89521065.1945	76,1*	1	11000	11,0
F89521080.1945	88,9	1	13000	13,0
F89521100.1945	114,3	1	23000	23,0
F89521125.1945	139,7*	1	42000	42,0
F89521150.1945	168,3	1	51000	51,0
F89521200.1945	219,1	1	100000	100,0
F89521250.1945	273,0	1	125000	125,0
F89521300.1945	323,9	1	160000	160,0

\*Metric groove standard



THE HISTORY OF THE UNITED STATES OF AMERICA  
BY JOHN ADAMS

NEW YORK  
1800



## **FLEXIBLE JOINTS and AIR VENTS**

# FLEXIBLE JOINTS

## 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

ERC

## 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

ERC

## KGTP

Flexible joint

PN16



Lug type for PN16 (EN1092-1) flanges  
 Also suitable for PN10 flange up to DN≤150  
 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
KGT800200.2183	200 - 8"	1	16200	16,2

ERC

Version for PN10 flanges (KGT800200.2182) available for DN200



**ERC CE**

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

# AIR VENTS

## 9390, 9393

Automatic air vent

PN10



Fig. 9390



Fig. 9393

Threaded M (ISO 228/1)  
Brass body, EPDM gaskets  
Floating in polypropylene  
Version with brass check valve available  
Working conditions: Water, 0°C to +110°C



Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>9390 - Automatic air vent version</b>				
F93900010.1776	010 - 3/8"	1	150	0.2
F93900015.1776	015 - 1/2"	1	154	0.2
<b>9393 - Automatic air vent with check valve version</b>				
F93930015.2674	015 - 1/2"	1	213	0.3

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## 9380

Cast iron automatic air vent

PN16



Threaded F (ISO 7/1 Rp)  
Cast iron GG25 body, EPDM gaskets  
Floating ball 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]
F93801015.2833	015 - 1/2"	1	3500	3,5
F93801020.2833	020 - 3/4"	1	3500	3,5
F93801025.2833	025 - 1"	1	3500	3,5
F93801032.2833	032 - 1 1/4"	1	4000	4,0
F93801040.2833	040 - 1 1/2"	1	4000	4,0
F93801050.2833	050 - 2"	1	4000	4,0

ERC







# 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 available  
Code F340GFmis.874 (up to DN32), F340GFmis.871 (above)

## 343G

Brass ball valve for gas

PN25



Threaded M/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 available  
Code F343GFmis.872 (up to DN32), F343GFmis.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

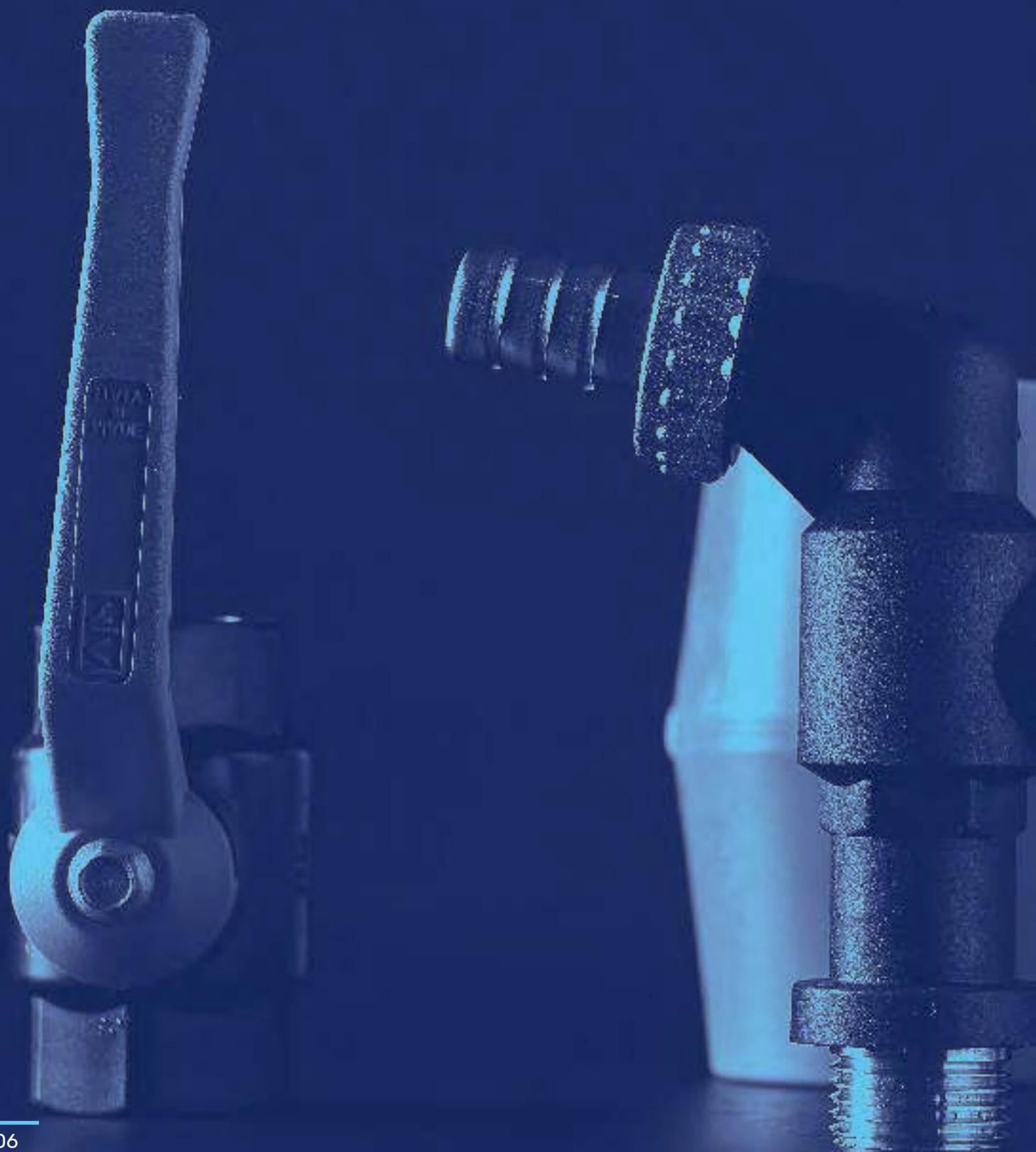




Lug type (suitable for EN1092 PN16 flanges)  
 Body in GGG40, SS420 stainless steel stem  
 Disc in GGG40 RILSAN coated  
 NBR seats, NBR O-ring, PTFE bushings  
 Comply to UNI9245:1988/A1  
 Working conditions: -10°C to +90°C  
 Supplied with lockable lever (gear for DN≥250)



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



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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 (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



ERC

ARCTIC

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



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



ERC

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Lever version, brass hose union</b>				
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
<b>Butterfly version, brass hose union</b>				
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
<b>Lever version, plastic hose union</b>				
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
<b>Butterfly version, plastic hose union</b>				
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



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



ERC

ARCTIC

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Lever version, brass hose union</b>				
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
<b>Butterfly version, brass hose union</b>				
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
<b>Lever version, plastic hose union</b>				
F2180N015.837	015 - 1/2"	40	125	5,0
F2180N020.2739	020 - 3/4"	25	253	6,3
<b>Butterfly version, plastic hose union</b>				
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



Solder 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

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Version with butterfly handle available (up to DN32)

500I

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

PN20



500IM

500IS

Solder ends (DIN 16962)  
Chrome-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]
<b>Fig. 500IM with triangular handle</b>				
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
<b>Fig. 500IS with cover and plate</b>				
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

ERC

# ACCESSORIES & SPARE PARTS FOR POLYPROPYLENE VALVES

## Accessories for polypropylene valves



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

Polyamide stem extension with zinc plated steel rod  
Available for code: 210, 218, 220, 228 and 500

Vir Code	DN mm - inches	Pcs./box	Wgt. [g]	Box [Kg]
<b>Red spare levers</b>				
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
<b>Red spare butterflies</b>				
KXF200008.669	Mis. 1	500	12	6,0
KXF200015.669	Mis. 2	500	15	3,8
KXF200025.669	Mis. 3	200	29	5,8
<b>Stem extensions</b>				
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
<b>Mis.1</b>	DN08/DN10	DN10/DN15	-
<b>Mis.2</b>	DN10/DN15	DN20/DN25	DN20/DN32
<b>Mis.3</b>	DN25/DN32	-	DN40/DN50
<b>Mis.4</b>	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 month 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.

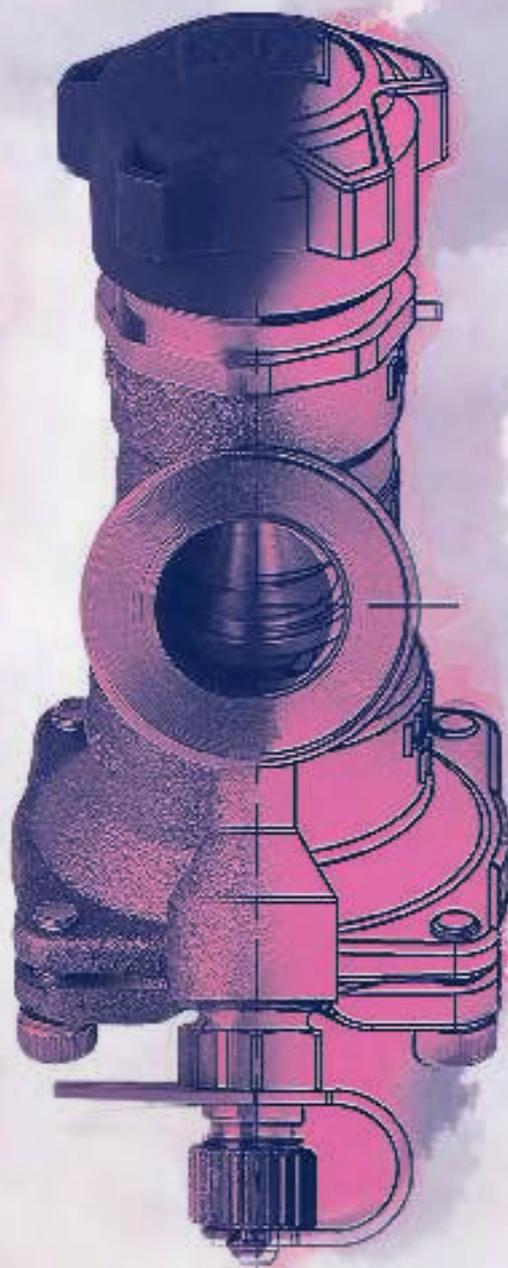
Any amendment or integration of these General Conditions shall have, in order to be valid and enforceable, to result by an agreement in writing duly undersigned by VIR Valvoindustria Ing. Rizzio S.p.A. and the Purchaser.

## 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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