



GIACOTECH

GENEL KATALOG

MİKROMETRİK TERMOSTATİK VANALAR

TERMOSTATİK VANALAR

MANUEL VANALAR

KİLİTLİ VANALAR

AKSESUAR VE YEDEK PARÇA

GIACOMINI
Technology in Comfort



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Application

Constantly focused on the market and on the growing needs in terms of user-friendliness and reliability of the system, Giacomini proposes the Giacotech valves and lockshields range. This family represents the evolution and implementation of the well-known and successful Programma 80 that, with its functional innovative characteristics (the thermostatic element and the pipe union with self-sealing element in plastic material) imposed itself on the market from 1979 on. Today Giacotech comes out as legitimate successor, with a new version, enhanced both in the range and in the technical aspects.

Unlike the well-known and successful Programma 80, the most recent Giacotech series consists of a wider range including micrometric thermostatic valves as well as the basic thermostatic valves, manual valves and lockshields, all are both in the versions with iron connection and with adaptor connection. This way the installer can easily choose within the Giacotech series with the safety of finding and using something as close as possible to one's needs.

Programma 80, introduced on the Italian market in 1979, was successful thanks to its functional innovative characteristics, such as the thermostatic element (without the help of any accessories) and the presence of a pipe union with a self-sealing element in plastic material. During the years the work of the installer became easier and this is one of the basic aspects for Giacomini. Within the Giacotech series the main aspects are:

- Introduction of a self-sealing element in elastomeric material, the natural evolution of the self-sealing in plastic material featured by Programma 80
- Unification of the adaptor for the mostly used sizes
- Restyling of operation hand wheels of micrometric thermostatic valves
- Introduction of building yard protections to prevent accidental damage to operation handwheels during the installation.

Uygulamalar

Piyasaya odaklanan Giacomini, gelişen kullanıcı ihtiyaçları ve sistem güvenliği çerçevesinde Giacotech vanalarını ve kilit mekanizmalarını tasarlamaktadır. Bu aile başarılı, iyi bilinen fonksiyonel ve yaratıcı özellikleriyle (termostatik eleman ve kendinden sızdırmazlık sağlayan boru rakoru) kendini piyasaya kabul ettirmiş Programma 80 in gelişiminin ve uygulamasının 1979 dan günümüze temsilcisidir. Giacomini bugün yeni versiyonu ve teknik yönleri açısından haklı bir başarıyla karşımıza çıkmaktadır.

Başarılı ve iyi bilinen Programma 80 in dışında en son giacotech serileri adaptör ve demir bağlantı versiyonlarının içinde bulunduğu mikrometrik termostatik vanaları, termostatik vanaları, manuel vanalar ve kilit mekanizmalarını içermektedir. Giacotech serisinin geniş ürün aralığı sayesinde kullanıcı kendi ihtiyacına en yakın malzemeyi seçme imkanına sahip olmaktadır.

İtalyan pazarına 1979 da giren Programma 80 termostatik parça (yardımcı teçhizata ihtiyaç olmadan), plastik, kendinden contalı boru rakoru gibi fonksiyonel yaratıcı özellikleri sayesinde başarılı oldu. Zaman içinde tesisatçının işi kolaylaşmıştır ve bu Giacomini nin temel yaklaşımlarından biridir.

Giacotech serisindeki temel noktalar:

Elastomerik malzemeli kendinden sızdırmazlık elemanın tanıtımı, Programma 80 özelliklerini taşıyan kendinden sızdırmaz plastik malzemenin doğal gelişimi.

Çok kullanılan ölçülerdeki adaptör bağlantısı

Mikrometrik termostatik vana kollarının yeniden şekillendirilmesi

Vana kollarının montaj sırasında zarar görmesini önlemek amacıyla koruma boşlukları oluşturulması



Micrometric thermostatic valves / Mikrometrik termostatik vanalar

Micrometric adjustment. / Mikrometrik ayarlama

Giacotech mikrometrik termostatik vana serisi özellikleri, daha rahat bir operasyon kolu ve giriş bölümünde tanımlanan bir dizi parametre ve vananın manuel olarak çalışmasını sağlayan mikrometrik ayarlama imkanı sunmaktadır. El çarkının üst kısmının çıkarılmasıyla derecelendirme skalasına rahatlıkla ulaşılabilir.

The series of micrometric thermostatic valves Giacotech features, in addition to a more comfortable operation handle and a series of parameters already widely described in the introduction, and the possibility of making the micrometric adjustment through which it is possible to separate the opening of the valve operating in manual. Removing the upper part of the handwheel access to the graduation scale is easy.



İhtiyaca uygun ayarlama, Hidrolik versiyonlar ve özellikleri bölümündeki diyagramlara göre metal pinin değiştirilmesiyle sağlanır.

The adjustment can be made shifting the metal pin in the position that best suits one's needs, according to the specific diagrams reported in the Hydraulic Versions and Characteristics.

Technical Data

- Fluids: hot water
- Max. operating temperature: 110°C
- Max operating pressure for manual applications: PN16
- Max operating pressure in association with thermostatic heads: 1 MPa (10 bar)
- Max differential pressure: 0,14 MPa (1,4 bar), 3/8" - 1/2" - 3/4" (except for F series) 0,07 MPa (0,7 bar), 3/4" (only F series) 0,04 MPa (0,4 bar), 1"

MaterialsMalzemeler

- Bodies, caps and pipe unions: brass UNI EN 12165 CW617N
- Operation handwheels: ABS
- Self-sealing: EP

Teknik Özellikler

- Akışkan: sıcak su
- Max. çalışma sıcaklığı: 110°C
- Max işletme basıncı: PN16
- Max işletme basıncı (termostatik kafa ile birlikte): 1 Mpa
- Max basınç farkı 0,14 Mpa (1,4 bar), 3/8"-1/2"-3/4" (F serisi dışında) 0,07 Mpa (0,7 bar), 3/4" (F serisi) 0,04 Mpa (0,4bar), 1"

- Gövde, tapa ve rakorlar: pirinç UNI EN 12165 CW617N
- Operasyon çarkları: ABS
- Conta: EP

Hidrolik versiyonlar ve özellikleri / Hydraulic versions and characteristics

Mikrometrik ayarlara göre Kv değerleri aşağıdaki tabloda verilmiştir. Bu ayar önceki paragrafta anlatıldığı gibi metal pimin konumlandırılmasıyla yapılır. T=2K vananın termostatik kafa monte edilmiş halidir.

In the following tables the values of Kv are reported according to the micrometric adjustment set positioning the metal pin (as described in the previous paragraph). T=2K refers to the situation of valve with thermostatic head installed.

R431TG

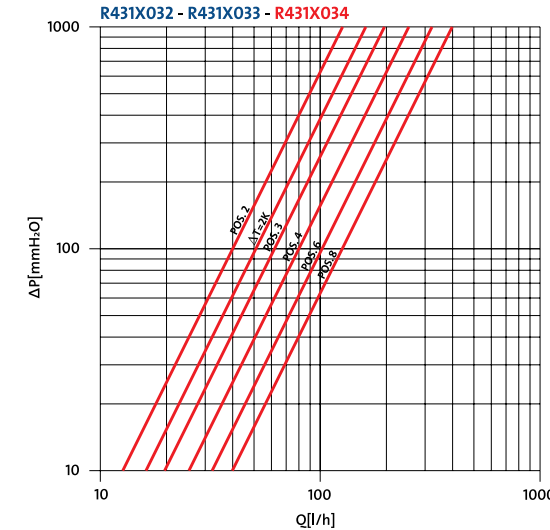
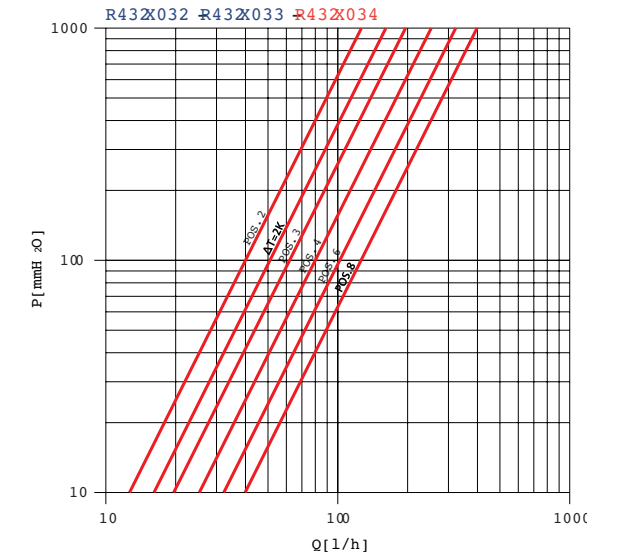
Termostatik opsiyonlu köşe mikrometrik vana, krom kaplamalı, adaptör bağlantılı ve kendinden contalı parçası ile birlikte

Micrometric angle valve with thermostatic option, chrome plated, adaptor connection and self-sealing tail piece.

PRODUCT CODE	SIZE	Position					ΔT=2K
		2	3	4	6	8	
R431X032	3/8"x16	0,40	0,62	0,80	1,02	1,26	0,51
R431X033	1/2"x16	0,40	0,62	0,80	1,02	1,26	0,51
R431X034	1/2"x18	0,40	0,62	0,80	1,02	1,26	0,51
R431EX037	1/2"x3/4"E	0,40	0,62	0,80	1,02	1,26	0,51

NOTE
R178, R179 or R179AM adaptor connections to be used.

Use R178E, R179E adaptors for R431EX037



R432TG



Termostatik opsiyonlu düz tip mikrometrik vana, krom kaplamalı, adaptör bağlantılı ve kendinden contalı parçası ile birlikte.

Micrometric straight valve with thermostatic option, chrome plated, adaptor connection and self-sealing tail piece.

PRODUCT CODE	SIZE	Position					ΔT=2K
		2	3	4	6	8	
R432X032	3/8"x16	0,40	0,62	0,80	1,02	1,26	0,51
R432X033	1/2"x16	0,40	0,62	0,80	1,02	1,26	0,51
R432X034	1/2"x18	0,40	0,62	0,80	1,02	1,26	0,51

NOTE
Kullanılabilecek adaptör bağlantıları: R178, R179 veya R179AM.

R178, R179 or R179AM adaptor connections

R421TG

Termostatik opsiyonlu köşe radyatör vanası, krom kaplamalı, demir boru bağlantılı ve kendinden contalı parçası ile birlikte.

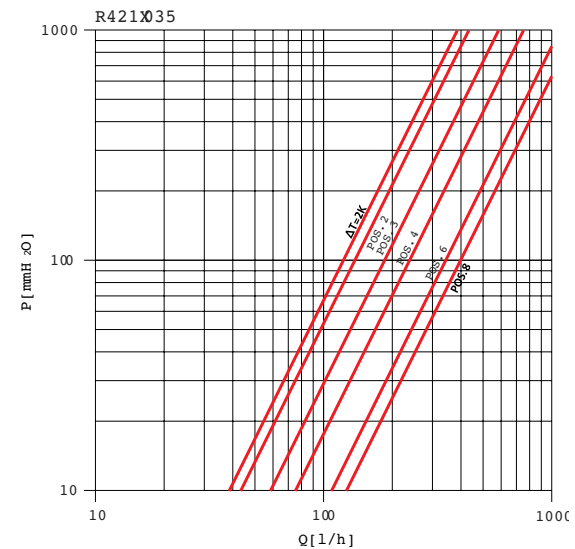
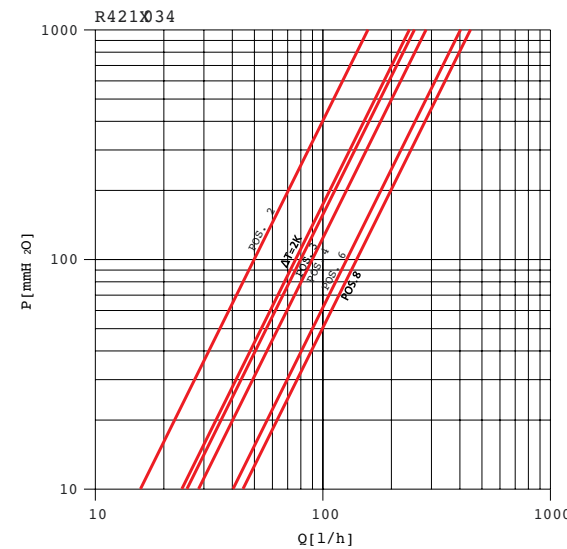
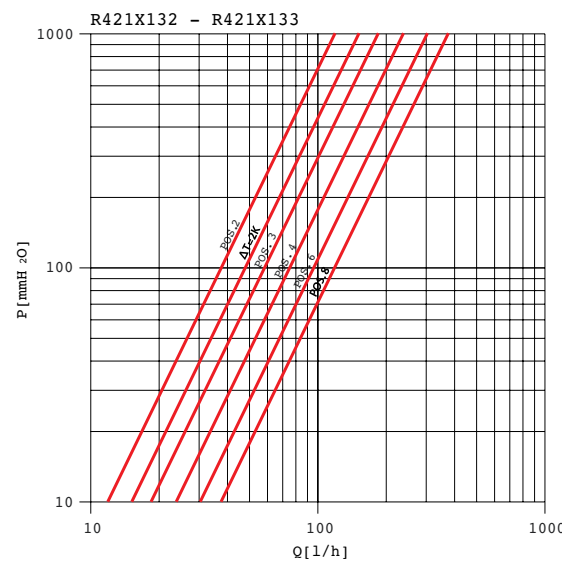
Micrometric angle valve with thermostatic option, chrome plated, iron pipe connection and self-sealing tail piece.

PRODUCT CODE	SIZE	Position					ΔT=2K
		2	3	4	6	8	
R421X132	3/8"x3/8"	0,40	0,58	0,78	1,00	1,26	0,51
R421X133	1/2"x1/2"	0,42	0,62	0,80	1,02	1,26	0,51
R421X034	3/4"x3/4"*	0,50	0,80	0,90	1,25	1,41	0,76
R421X035	1"x1"*	1,37	1,85	2,38	3,36	3,98	1,22

NOTE

* Tail pieces without self sealing

CERTIFICATION AND SYMBOLS R421X132-R421X133

**R422TG**

Termostatik opsiyonlu düz mikrometrik vana, krom kaplamalı demir boru bağlantılı (kendinden sızdırmazlık sağlayan parçası ile birlikte.)

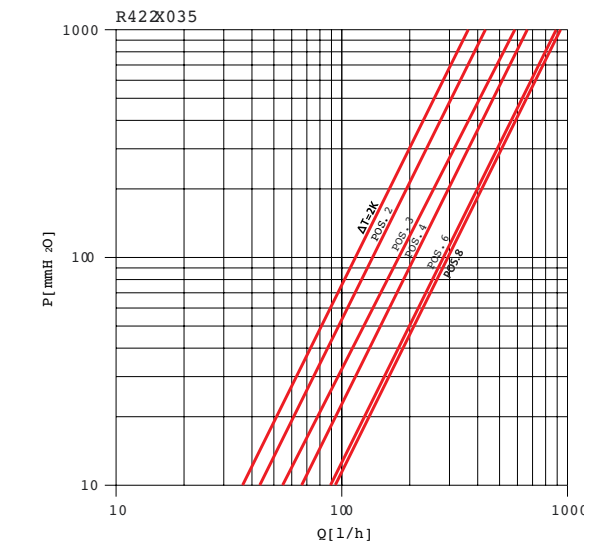
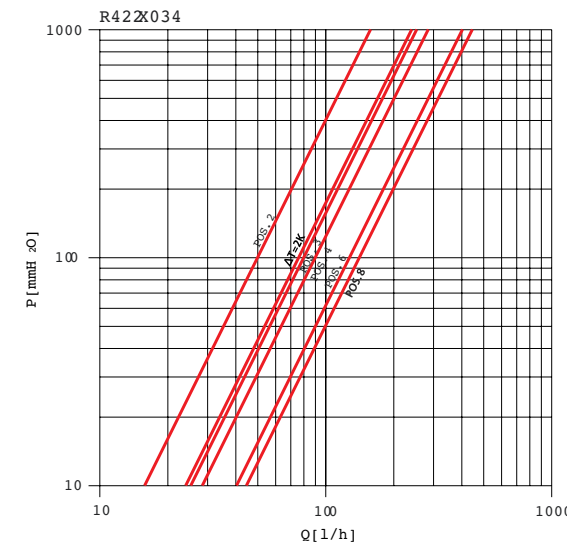
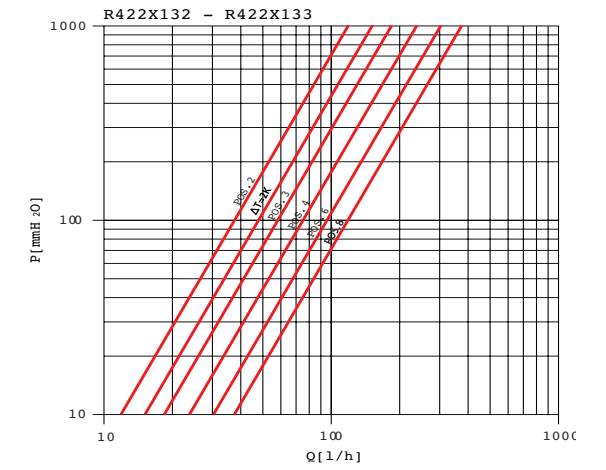
Micrometric straight valve with thermostatic option chrome plated, iron pipe connection and self-sealing tail piece.

PRODUCT CODE	SIZE	Position					ΔT=2K
		2	3	4	6	8	
R422X132	3/8"x3/8"	0,40	0,58	0,78	1,00	1,26	0,51
R422X133	1/2"x1/2"	0,42	0,62	0,80	1,02	1,26	0,51
R422X034	3/4"x3/4"*	0,50	0,80	0,90	1,25	1,41	0,76
R422X035	1"x1"*	1,37	1,73	2,10	2,82	2,95	1,15

NOTE

* Tail pieces without self sealing

CERTIFICATION AND SYMBOLS R422X132-R422X133

**R435TG**

Termostatik opsiyonlu köşe mikrometrik vana, krom kaplamalı ve kendinden sızdırmazlık sağlayan parçası ile birlikte. Demir boru bağlantısını sağlayan adaptörle birlikte.

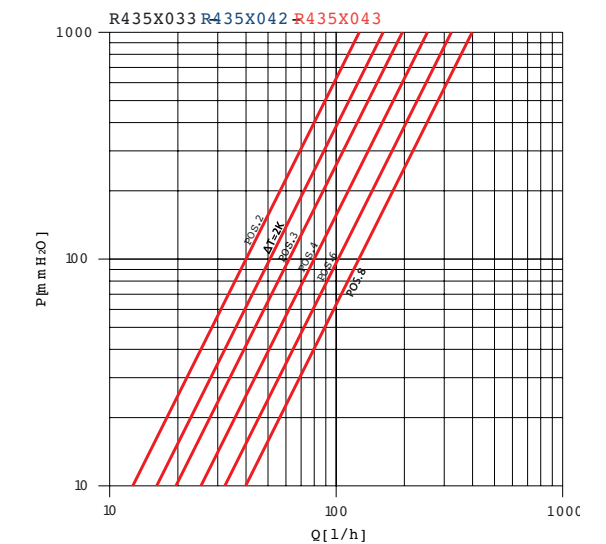
Micrometric angle valve with thermostatic option, chrome plated and self-sealing tail pieces. Available with iron pipe connection and with adaptor connection.

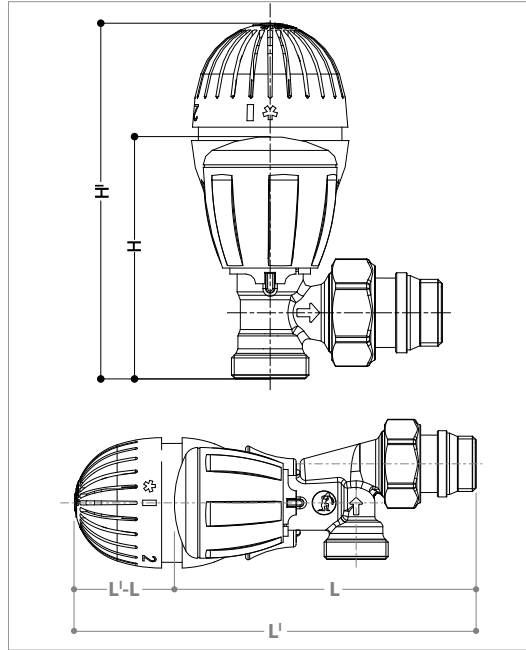
PRODUCT CODE	SIZE	Position					ΔT=2K
		2	3	4	6	8	
R435X033	1/2"x1/2"*	0,40	0,62	0,80	1,02	1,26	0,51
R435X042	1/2"x16	0,40	0,62	0,80	1,02	1,26	0,51
R435X043	1/2"x18	0,40	0,62	0,80	1,02	1,26	0,51

NOTE

R435X042, R435X043: R178, R179 or R179AM adaptor connections to be used.

* iron pipe connection



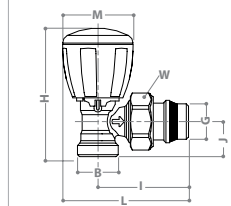
**Dikkat.**

Termostatik kafa kullanılan sistemlerde, aktüatörlerin kapanmasıyla oluşan basıncı önlemek amacıyla R147N fark basınçlı vana kullanımı tavsiye edilir.

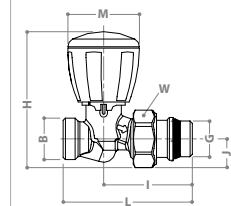
Caution.

On systems equipped with thermostatic heads, the use of the R147N pressure differential valves is recommended, in order to avoid over pressure phenomenon at the closing of the mentioned actuators.

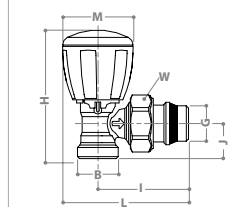
MODEL	R452X101	R460X001	R470X001
H'-H	35 mm	53 mm	35 mm
L'-L for R435	35 mm	53 mm	35 mm

**Boyutlar Volumes and dimensions [mm]****R431TG**

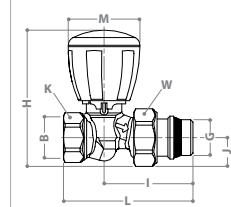
PRODUCT CODE	GxB	H	I	J	L	M	W
R431X032	3/8"x16	75	53	21	74	42	30
R431X033	1/2"x16	75	53	21	74	42	30
R431X034	1/2"x18	75	53	21	74	42	30
R431EX037	1/2"x3/4"E	75	53	21	74	42	30

R432TG

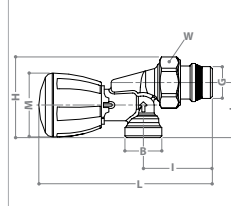
PRODUCT CODE	GxB	H	I	J	L	M	W
R432X032	3/8"x16	79	51	17	74	42	30
R432X033	1/2"x16	79	51	17	75	42	30
R432X034	1/2"x18	79	51	17	76	42	30

R421TG

PRODUCT CODE	GxB	H	I	J	K	L	M	W
R421X132	3/8"x3/8"	74	51	20	22	72	42	27
R421X133	1/2"x1/2"	78	53	23	26	74	42	30
R421X034	3/4"x3/4"	79	60	25	32	81	42	38
R421X035	1x1"	97	72	31	39	94	42	46

R422TG

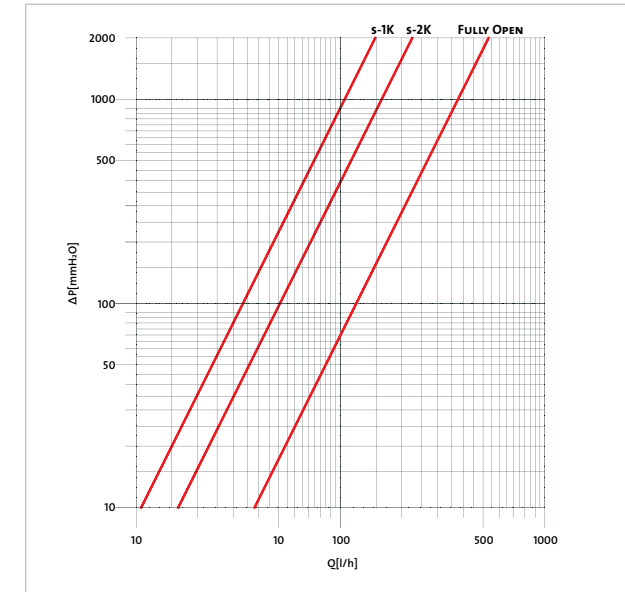
PRODUCT CODE	GxB	H	I	J	K	L	M	W
R422X132	3/8"x3/8"	77	51	15	22	76	42	27
R422X133	1/2"x1/2"	79	51	17	26	82	42	30
R422X034	3/4"x3/4"	83	55	21	32	81	42	38
R422X035	1x1"	95	64	26	39	105	42	46

R435TG

PRODUCT CODE	GxB	H	I	J	K	L	M	W
R435X033	1/2"x1/2"	53	53	36	25	124	42	30
R435X042	1/2"x16	53	45	36	-	113	42	30
R435X043	1/2"x18	53	45	37	-	113	42	30

KEYMARK - EN215 onaylı vanalar için ek bilgiler**Additional information for KEYMARK - EN215 certified valves**

Product Code Ürün Kodu	Size Ölçü	Thermostatic Head Termostatik Kafa	Nominal supply qmNH in association with the heads	Authority of the shutter	Z (min) Z (dak.)	W(K)
R421X132 R422X132	3/8"	R452	130 Kg/h	0,894	32	1,48
R421X133 R422X133	1/2"	R452	130 Kg/h	0,894		
R421X132 R422X132	3/8"	R460	150 Kg/h	0,858	26	0,90
R421X133 R422X133	1/2"	R460	150 Kg/h	0,858		
R421X132 R422X132	3/8"	R470	150 Kg/h	0,858	26	1,42
R421X133 R422X133	1/2"	R470	150 Kg/h	0,858		



3/8" - 1/2"	Kv
s - 1K	0,332
s - 2K	0,506
Fully Open (Tam açık)	1,26

Declared hysteresis value: 0,8K (R452) 0,35K (R460) 0,4K (R470)

D – declared influence of differential pressure: 0,85K (R452 - R470) 0,4K (R460)

Z – declared response times: see table

W – declared influence of water temperature: see table

Min calibration in association with thermostatic heads R452, R456, R460, R470: 8°C in position*

Max operating pressure in association with thermostatic heads: 10 bar

On demand data relative to response time (Z) are available, temperature influence (W), influence of differential pressure (D), spindle movement.

Belirtilen gecikme değerleri: 0,8K (R452) 0,35K (R460) 0,4K (R470)

D - belirtilen basınç farkı etkileri

Z - belirtilen yanıt süresi (bkz. tablo)

W - belirtilen su sıcaklığının etkileri (bkz. tablo)

R452, R456 Termostatik kafalarla birlikte minimum kalibrasyon sıcaklığı * konumunda 8

Termostatik kafalarla birlikte çalışma basıncı 10 bardır.

Thermostatic valves / Termostatik vanalar

Koruma Kolu / Protection handle

Tüketimleri optimize ederek konfor şartlarını sürdürmeyi amaçlayan ortam sıcaklık kontrollü elektrotermal aktüatörler ve termostatik kafalı montajlar için koruma saplı Giacotech termostatik vana serisi tavsiye edilmektedir. The building yard protection anyway allows separating the supply of the valve. Vanayı açmak için kırmızı kapaklı sayacı saat yönünde, kapatmak için ters yönde çevirin. Kırmızı kapağın 36° lik rotasyonu 1°C. lik sıcaklık değişimine eşittir.

Kırmızı kapaklı korumanın hafifçe sıkılarak kapatılması sistemdeki 10 bar ı aşan basınç değişimlerinin tolere edilmesini sağlar. Su baskınlarını önlemek ve tesisatı korumak amacıyla sızdırmazlık testlerinin ısıtma cihazlarının montajından sonra yapılması tavsiye edilir.

The series of Giacotech thermostatic valves with protection handle is especially recommended for the assemblies with thermostatic heads or electrothermal actuators installation for the control of ambient temperature, aimed at maintaining the comfort conditions in addition to optimising consumptions. The building yard protection anyway allows separating the supply of the valve. Turning the red cap counter clockwise to open it and the opposite to close it. Red cap's rotations of 36° correspond to temperature variations equal to 1°C.

The protection with the red cap tightly closed in addition allows largely exceeding differential pressures of 10 bar with the system off. Anyway we recommend carrying out pressure tightness tests only after connecting the heating bodies in order to avoid, in case of damage to the mechanism, causing floods.

Technical data/ Teknik özellikler

- Fluids: hot water
 - Max. operating temperature: 110°C
 - Max. operating pressure for manual applications: PN16
 - Max. operating pressure in association with thermostatic heads: 1 MPa (10 bar)
 - Max. differential pressure
- | | |
|---------------------|--|
| 0,14 MPa (1,4 bar), | 3/8" - 1/2" - 3/4" (except for F series) |
| 0,07 MPa (0,7 bar), | 3/4" (only F series) |
| 0,04 MPa (0,4 bar), | 1" |

Akışkan: sıcak su
Max çalışma sıcaklığı: 110°C
Manuel uygulamalar için maksimum çalışma basıncı: PN 16
Termostatik kafalarla birlikte maksimum işletme basıncı: 1MPa (10 bar)
Maksimum basınç farkı

Materials / Malzemeler

- Bodies, caps and pipe unions: brass UNI EN 12165 CW617N
 - Operation handwheels: PP-H
 - Self-sealing: EP
- Gövde, tapa ve boru rakorları: pirinç UNI EN 12165 CW617N
Operasyon el çarkları: PP-H
Kendinden sızdırmazlık sağlayan conta: EP

Hydraulic versions and characteristics Hidrolik modeller ve özellikleri

The following tables report the values of Kv with thermostatic head installed. Usually at the stage of design reference is made to the situation $\Delta T=2K$. T.A. = all open

Termostatik kafalı Kv değerleri aşağıdaki tablolarda verilmiştir. Referans değeri genellikle dizayn aşamasında ... =2K konumuna getirilir. T.A. = tam açık

R411TG



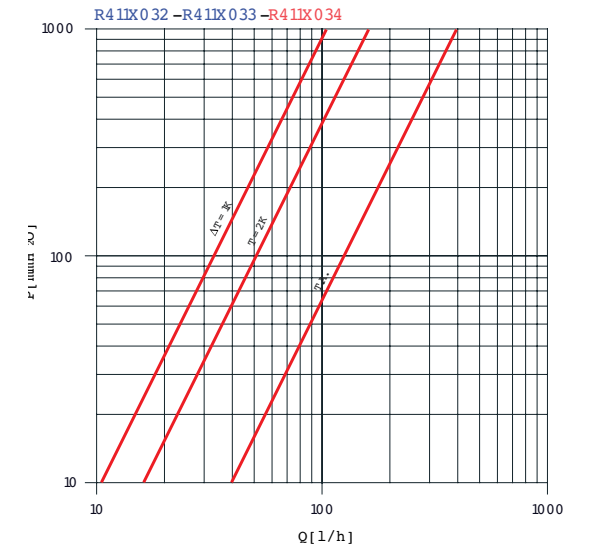
Termostatik opsiyonlu köşe vanası, krom kaplamalı, adaptör bağlantılı, kendinden contalı, kapaklı (montajdan önce gövdeyi korumak için)

Angle valve with thermostatic option, chrome plated, with adaptor connection, self-sealing and cover to protect body before assembling

PRODUCT CODE	SIZE	$\Delta T=1K$	$\Delta T=2K$	T.A.
R411X032	3/8"x16	0,33	0,51	1,26
R411X033	1/2"x16	0,33	0,51	1,26
R411X034	1/2"x18	0,33	0,51	1,26

NOTE

R178, R179 or R179AM adaptor connections to be used.



R412TG



Termostatik seçenekli, krom kaplamalı, adaptör bağlantılı, kendinden contalı, montaj öncesi gövdeyi koruma kapaklı düz tip vana.

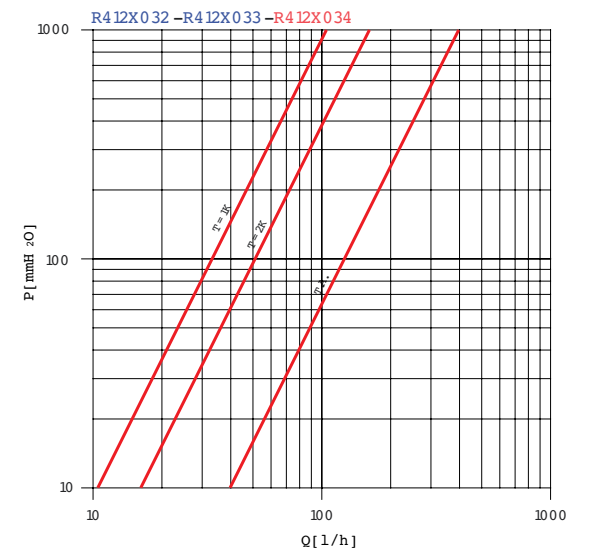
Straight valve with thermostatic option, chrome plated, with adaptor connection, self-sealing and cover to protect body before assembling.

PRODUCT CODE	SIZE	$\Delta T=1K$	$\Delta T=2K$	T.A.
R412X032	3/8"x16	0,33	0,51	1,26
R412X033	1/2"x16	0,33	0,51	1,26
R412X034	1/2"x18	0,33	0,51	1,26

NOTE

R178, R179 veya R179AM adaptör bağlantıları kullanılır.

R178, R179 or R179AM adaptor connections to be used.



R401TG

Termostatik opsiyonlu köşe vanası, krom kaplamalı, demir boru bağlantılı ve kapaklı (montajdan önce gövdeyi korumak için)

Angle valve with thermostatic option, chrome plated, with iron pipe connection and cover to protect body before assembling.

PRODUCT CODE	SIZE	ΔT=1K	ΔT=2K	T.A.
R401X132	3/8"x3/8"	0,33	0,51	1,26
R401X133	1/2"x1/2"	0,33	0,51	1,26
R401FX004	3/4"x3/4"*	0,44	0,80	2,37
R401X034	3/4"x3/4"*	0,50	0,76	1,41
R401X035	1"x1"*	-	1,22	3,98

NOTE

* Tail pieces without self sealing

CERTIFICATION AND SYMBOLS R401X132-R401X133-R401FX004

**R402 TG**

Termostatik opsiyonlu düz tip vana, krom kaplamalı, demir boru bağlantılı, ve kapaklı (montajdan önce gövdeyi korumak için)

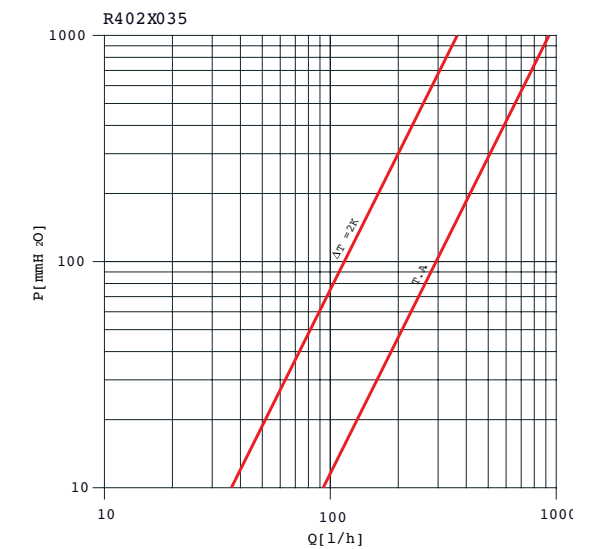
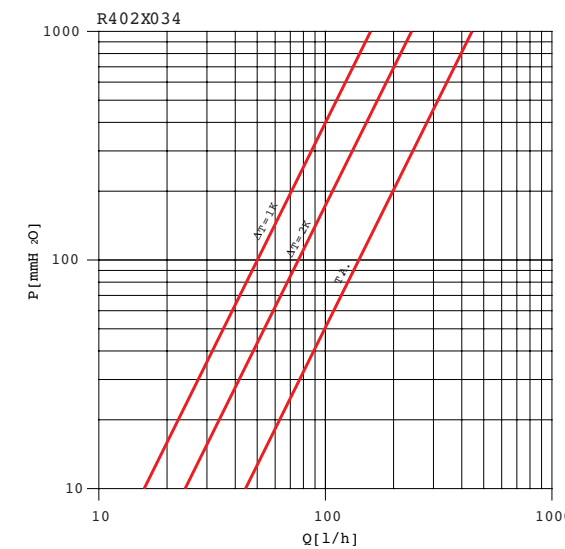
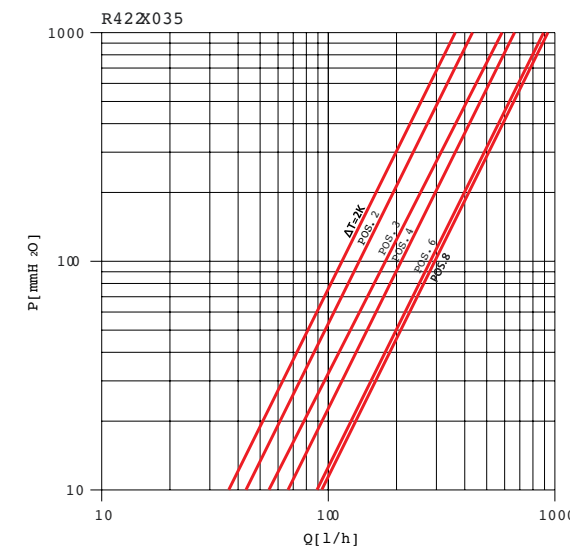
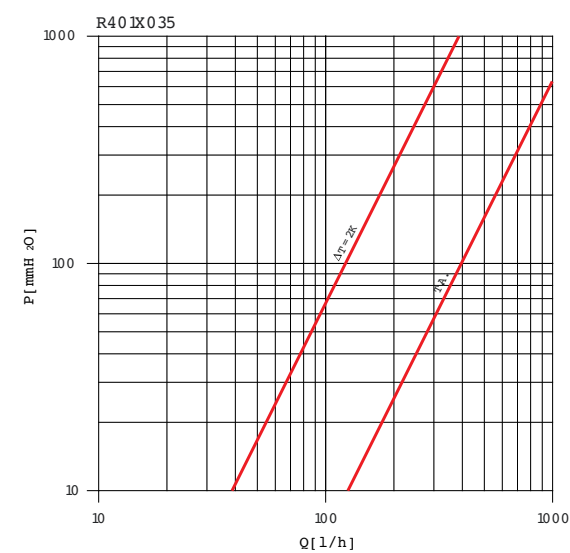
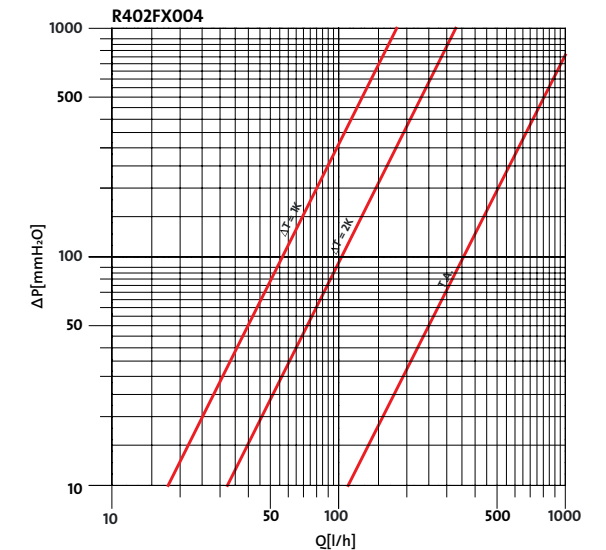
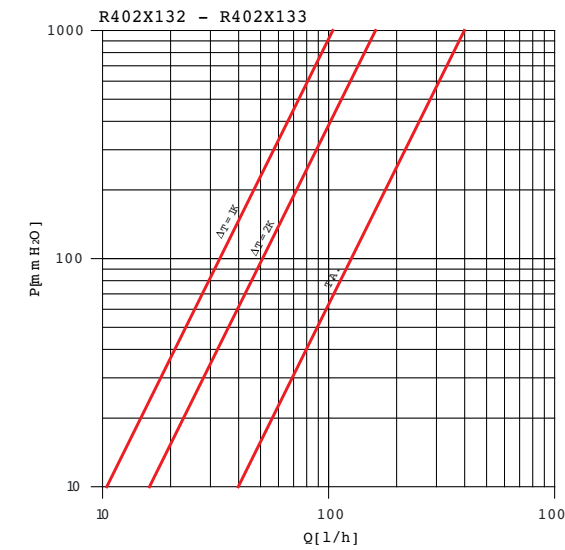
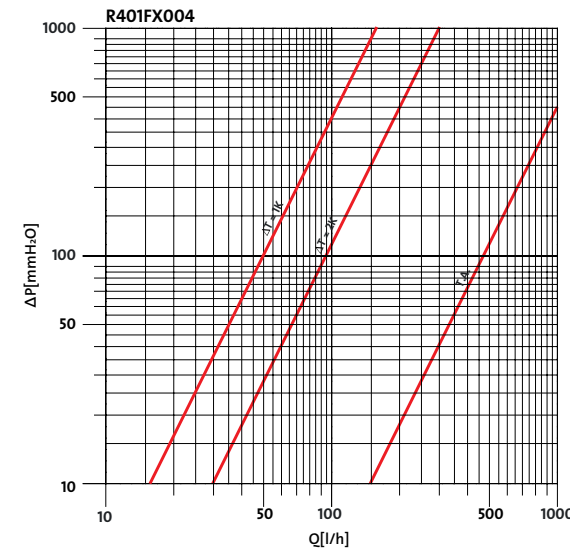
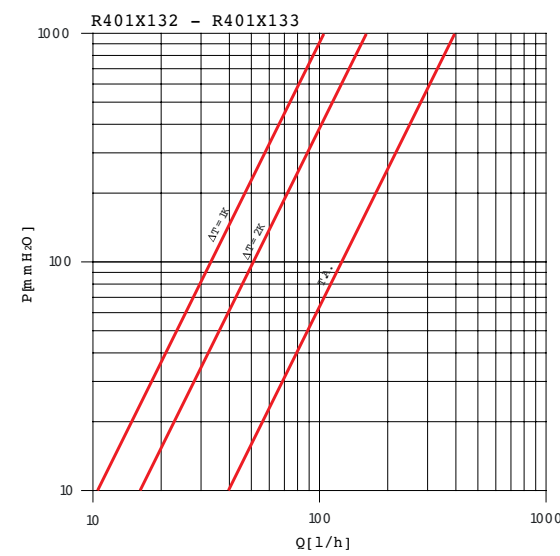
Straight valve with thermostatic option, chrome plated, with iron pipe connection and cover to protect body before assembling.

PRODUCT CODE	SIZE	ΔT=1K	ΔT=2K	T.A.
R402X132	3/8"x3/8"	0,33	0,51	1,26
R402X133	1/2"x1/2"	0,33	0,51	1,26
R402FX004	3/4"x3/4"*	0,44	0,80	2,37
R402X034	3/4"x3/4"*	0,50	0,76	1,41
R402X035	1"x1"*	-	1,15	2,95

NOTE

* Tail pieces without self sealing

CERTIFICATION AND SYMBOLS R402X132-R402X133-R402FX004



R415TG

Termostatik opsiyonlu köşe tip vana, krom kaplamalı, kendinden contalı, kapaklı (montajdan önce gövdeyi korumak için) Demir boru ve adaptör bağlantılarına uygundur.

Angle valve with thermostatic option, chrome plated self-sealing tail piece, with cover to protect body before assembling. Available with iron pipe connection and with adaptor connection.

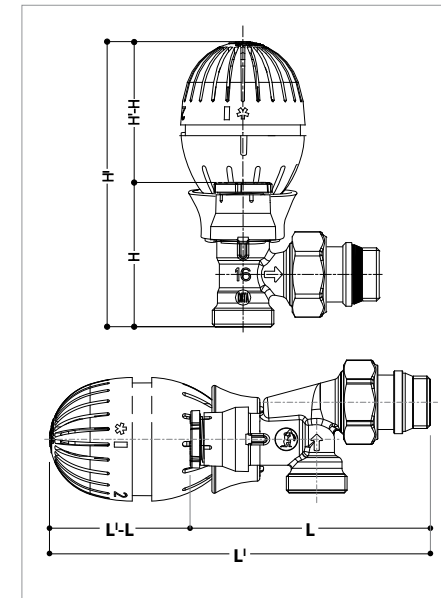
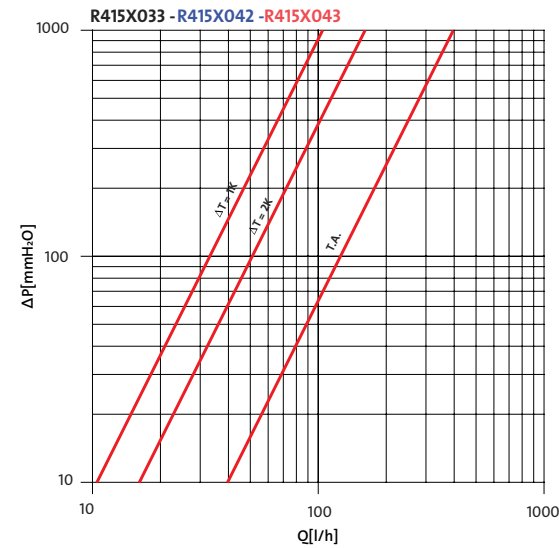
PRODUCT CODE	SIZE	ΔT=1K	ΔT=2K	T.A.
R415X033	1/2"x1/2"*	0,33	0,51	1,26
R415X042	1/2"x16	0,33	0,51	1,26
R415X043	1/2"x18	0,33	0,51	1,26

NOTE

R178, R179 or R179AM adaptor connections to be used.

* iron pipe connection

CERTIFICATION AND SYMBOLS R415X033

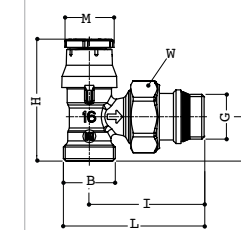
**Dikkat.**

Termostatik kafalarla donatılmış sistemlerde bahsi geçen aktüatörlerin kapatılmasıyla oluşan fazla basıncı önlemek amacıyla R147N fark basınç vanalarının kullanımı tavsiye edilir.

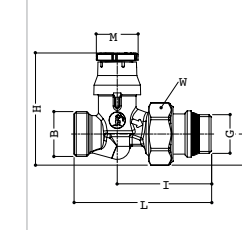
Caution.

On systems equipped with thermostatic heads, the use of the R147N pressure differential valves is recommended, in order to avoid over pressure phenomenon at the closing of the mentioned actuators.

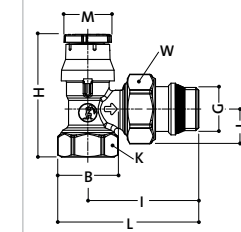
MODEL	R452X101	R460X001	R470X001
H'-H	54 mm	67 mm	54 mm
L'-L per R415	54 mm	67 mm	54 mm

**Volumes and dimensions [mm]****R411TG**

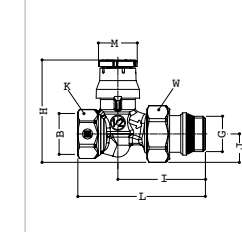
PRODUCT CODE	GxB	H	I	J	L	M	W
R411X032	3/8"x16	56	53	21	66	23	30
R411X033	1/2"x16	56	53	21	66	23	30
R411X034	1/2"x18	56	53	21	66	23	30

R412TG

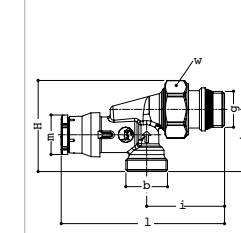
PRODUCT CODE	GxB	H	I	J	L	M	W
R412X032	3/8"x16	60	51	17	74	23	30
R412X033	1/2"x16	60	51	17	75	23	30
R412X034	1/2"x18	60	51	17	76	23	30

R401TG

PRODUCT CODE	GxB	H	I	J	K	L	M	W
R401X132	3/8"x3/8"	55	51	20	22	64	23	27
R401X133	1/2"x1/2"	59	53	23	26	68	23	30
R401X004	3/4"x3/4"	68	58	26	32	76	23	38
R401X034	3/4"x3/4"	60	60	25	32	78	23	38
R401X035	1x1"	78	72	31	39	94	23	46

R402TG

PRODUCT CODE	GxB	H	I	J	K	L	M	W
R402X132	3/8"x3/8"	58	54	15	22	76	23	27
R402X133	1/2"x1/2"	60	55	17	26	82	23	30
R402FX004	3/4"x3/4"	70	61	22	32	93	23	38
R402X034	3/4"x3/4"	64	55	21	32	81	23	38
R402X035	1x1"	76	64	26	39	105	23	46

R415TG

PRODUCT CODE	GxB	H	I	J	L	M	W
R415X033	1/2"x1/2"*	53	53	36	106	23	30
R415X042	1/2"x16	53	45	36	94	23	30
R415X043	1/2"x18	53	45	37	94	23	30

KEYMARK - EN215 onaylı vanalar için ek bilgiler

Additional information for KEYMARK - EN215 certified valves

Product Code Ürün Kodu	Size Ölçü	Thermostatic Head Termostatik Kafa	Nominal supply qmNH in association with the heads	Authority of the shutter	Z (min)	W(K)
R401X132 R402X132	3/8"	R452	130 Kg/h	0,894	32	1,48
R401X133 R402X133	1/2"	R452	130 Kg/h	0,894		
R401FX004 R402FX004	3/4"	R452	220 Kg/h	0,894		
R401FX004 R402FX004	3/4"	R452	220 Kg/h	0,910		
R401X132 R402X132	3/8"	R460	150 Kg/h	0,858	26	0,9
R401X133 R402X133	1/2"	R460	150 Kg/h	0,858		
R401FX004 R402FX004	3/4"	R460	240 Kg/h	0,873		
R401FX004 R402FX004	3/4"	R460	240 Kg/h	0,897		
R401X132 R402X132	3/8"	R470	150 Kg/h	0,858	26	1,42
R401X133 R402X133	1/2"	R470	150 Kg/h	0,858		
R401FX004 R402FX004	3/4"	R470	240 Kg/h	0,873		
R401FX004 R402FX004	3/4"	R470	240 Kg/h	0,897		
R415X033	1/2"	R452	140 Kg/h	0,877	32	1,48
R415X033	1/2"	R460	150 Kg/h	0,858	26	0,9
R415X033	1/2"	R470	150 Kg/h	0,858	26	1,42

Declared hysteresis value: 0,8K (R452) 0,35K (R460) 0,4K (R470)

D – declared influence of differential pressure: 0,85K (R452, R470) 0,4K (R460)

Z – declared response times: see table

W – declared influence of water temperature: see table

Min calibration with thermostatic heads R452, R456, R460, R470: 8°C in position*

Max operating pressure in association with thermostatic heads: 10 bar

Belirtilen gecikme değerleri: 0,8K (R452) 0,35K (R460) 0,4K (R470)

D - belirtilen basınç farkı etkileri 0,85K (R452, R470) 0,4K (R460)

Z - belirtilen yanıt süresi (bkz. tablo)

W - belirtilen su sıcaklığının etkileri (bkz. tablo)

R452, R456 Termostatik kafalarla birlikte minimum kalibrasyon sıcaklığı * konumunda 8°C

Termostatik kafalarla birlikte çalışma basıncı 10 bardır.

Thermostatic element

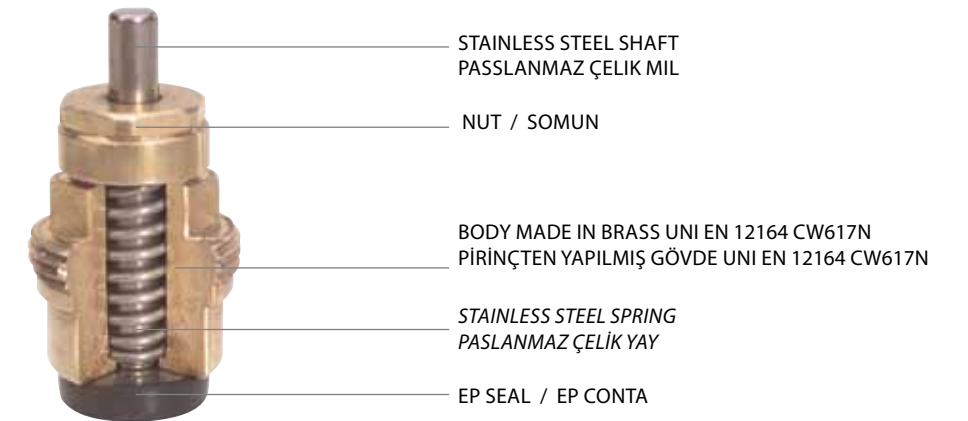
Giacotech serisi termostatik ve micrometric termostatik vanalar ortam sıcaklığının kontrolünü sağlayan termostatik kafalı termoelektrik aktüatörlerle donatılabilir. Bu kontrol sayesinde enerji tasarrufu ve konfor sağlanır. R452, sıvı sensörlü R460, R470, uzaktan sensörlü R462, uzaktan sensör ayarlı R463 modelleri kullanılabilir ya da normalde açık termoelektrik aktüatörlü (R478/R478M), ortam termostatları tarafından kontrol edilen normalde kapalı R473/R473M modelleri kullanılabilir.

The series of Giacotech thermostatic valves and micrometric thermostatic valves can be easily equipped with thermostatic heads of thermoelectric actuators in order to allow, quite simply, the automation of ambient temperature control thus guaranteeing comfort and significant energy saving. So thermostatic heads with wax (R452) or liquid sensor (R460, R470), with remote sensor (R462), with remote adjustment sensor (R463), can be used or thermoelectric actuators normally open (R478/R478M) or normally closed (R473/R473M) directly controlled by ordinary ambient thermostats.



Anti-blocking-system screw-down valve

Giacotech serisi mikrometrik ve termostatik mikrometrik vanalar bloklaşma önleyici sistem adlı bir özellik içermektedir. Operasyon mekanizmasının içerisinde kireçlenmeyi ve screw-down-blocking önleyen soğuk şekillendirme ve haddeleme işlemlerinden geçirilmiş paslanmaz çelikten yapılmış bir operasyon çubuğu yer almaktadır.



The series of Giacotech micrometric and thermostatic micrometric valves features a system called anti-blocking-system. Inside the operation mechanism there is an operation rod in stainless steel in a single piece, obtained with cold moulding and successive roll-forming, strongly reduces the adhesion capability of lime deposits and consequently the possibility of screw down blocking.

Manual valves / Manuel vanalar

Manuel vanaların yaygın kurulumu Giacomini nin Giacotech serisine bu vanaları da dahil etmesine neden olmuştur. Giacotech manuel vanalarının kullanımı daha kolaydır, buna ek olarak yeni kol daha konforludur ve specific building yard protection ile teçhizatlandırılmıştır.

The widespread habit of installing manual valves led Giacomini to introduce within the Giacotech series also this kind of valves. The Giacotech manual valves are easy to operate, and in addition the new handle is more comfortable and is equipped with a specific building yard protection.

Technical data / Teknik veriler

- Akışkan: sıcak su
 - Maksimum çalışma sıcaklığı: 110°C
 - Manuel uygulamalar için işletme basıncı: PN16
- Fluids: hot water
Max operating temperature: 110°C
Max operating temperature for manual applications: PN16

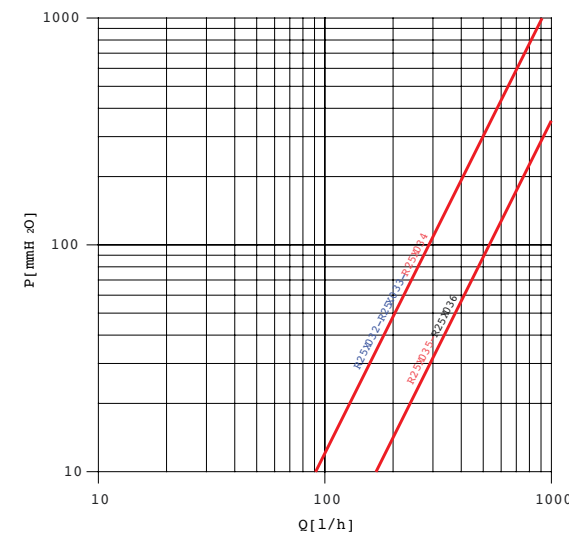
Malzeme / Materials /

- Gövde, tapa, rakorlar: UNI EN 12165 CW617N pirinç
 - Operation hand wheels: ABS
 - Self-sealing: EP
- Bodies, caps, pipe unions: UNI EN 12165 CW617N brass
Operasyon el çarkları: ABS
Conta: EP

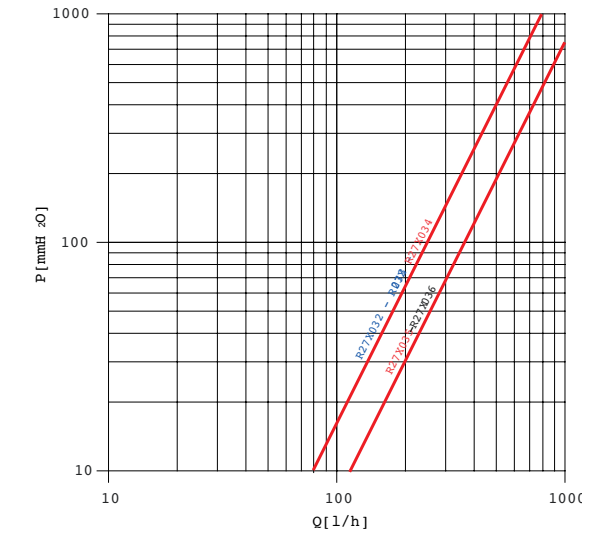
Hydraulic versions and characteristics

Aşağıdaki tablolar vanaların tam açıklık pozisyonundaki Kv değerlerini göstermektedir. The following tables show the Kv values referred to situations of all open valve.

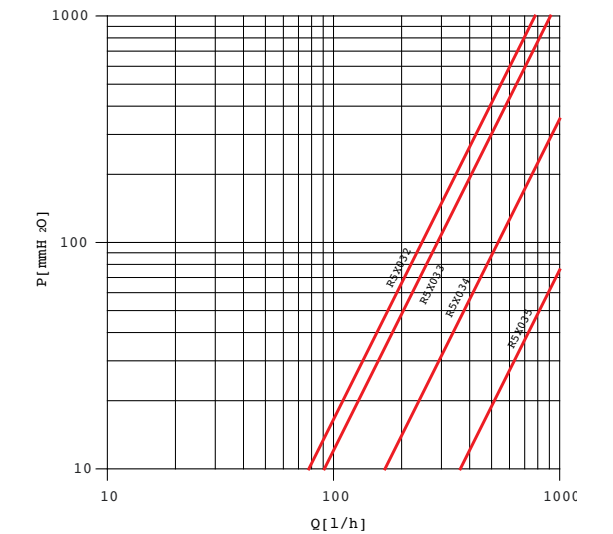
R25TG		
	Krom kaplamalı, demir vidalı, kendinden contalı manuel köşe tip vana.	
	<i>Manual angle valve, chrome plated, with iron screwed end and self-sealing tail piece</i>	
	PRODUCT CODE	SIZE
	R25X032	3/8"x16
	R25X033	1/2"x16
	R25X034	1/2"x18
	R25X035	3/4"x18*
	R25X034	3/4"x22*
	NOTE	
	R178, R179 or R179AM adaptor connections to be used.	
	* tail pieces without self sealing	



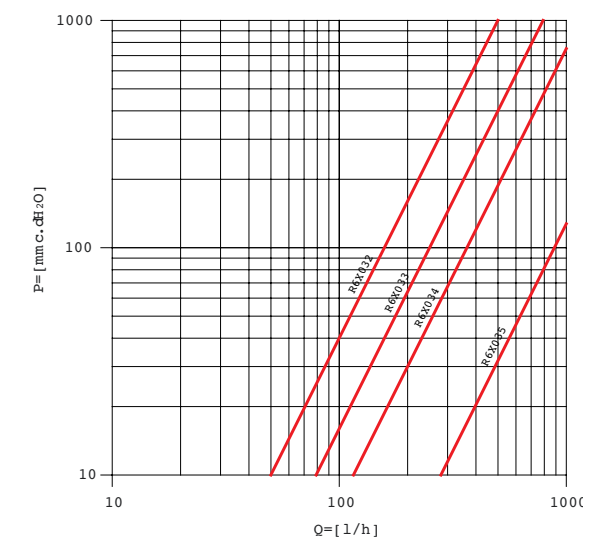
R27TG		
	Krom kaplamalı, demir vidalı kendinden contalı manuel düz tip vana.	
	<i>Manual straight valve, chrome plated, with iron screwed end and self-sealing tail piece.</i>	
	PRODUCT CODE	SIZE
	R27X032	3/8"x16
	R27X033	1/2"x16
	R27X034	1/2"x18
	R27X035	3/4"x18*
	R27X034	3/4"x22*
	NOTE	
	R178, R179 or R179AM adaptor connections to be used.	
	* tail pieces without self sealing	



R5TG		
	Manuel köşe vana, krom kaplamalı, demir boru bağlantılı ve kendinden contalı.	
	<i>Manual angle valve, chrome plated, with iron pipe connection and self-sealing tail piece.</i>	
	PRODUCT CODE	SIZE
	R5X032	3/8"x3/8"
	R5X033	1/2"x1/2"
	R5X034	3/4"x3/4"*
	R5X035	1"x1"*
	R5X036	1"x1/4x1"1/4*
	NOTE	
	* tail pieces without self sealing	



R6TG		
	Manuel düz vana, dişli, krom kaplamalı ve kendinden contalı.	
	<i>Manual straight valve, screwed ends, chrome plated and self-sealing tail pieces.</i>	
	PRODUCT CODE	SIZE
	R6X032	3/8"x3/8"
	R6X033	1/2"x1/2"
	R6X034	3/4"x3/4"*
	R6X035	1x1*
	R6X034	1"x1/4x1"1/4*
	NOTE	
	* tail pieces without self sealing	



Volumes and dimensions [mm]

R25TG									
PRODUCT CODE	GxB	H	I	J	L	M	W		
R25X032	3/8"x16	69	53	21	74	42	30		
R25X033	1/2"x16	69	53	21	74	42	30		
R25X034	1/2"x18	73	54	24	75	42	30		
R25X033	3/4"x18	79	60	24	84	49	38		
R25X036	3/4"x22	79	60	24	84	49	38		

R27TG									
PRODUCT CODE	GxB	H	I	J	L	M	W		
R27X032	3/8"x16	73	52	17	75	42	30		
R27X033	1/2"x16	73	52	17	76	42	30		
R27X034	1/2"x18	73	52	17	77	42	30		
R27X033	3/4"x18	87	55	21	81	49	38		
R27X036	3/4"x22	87	55	21	91	49	38		

R5TG									
PRODUCT CODE	GxB	H	I	J	K	L	M	W	
R5X032	3/8"x3/8"	65	50	19	22	71	42	27	
R5X033	1/2"x1/2"	70	53	21	26	74	42	30	
R5X034	3/4"x3/4"	79	60	23	32	84	49	38	
R5X035	1"x1"	87	68	30	39	92	49	46	
R5X036	1"x1/4x1"x1/4	92	81	33	49	110	59	53	

R6TG									
PRODUCT CODE	GxB	H	I	J	K	L	M	W	
R6X032	3/8"x3/8"	69	51	15	22	77	42	27	
R6X033	1/2"x1/2"	73	52	17	26	76	42	30	
R6X034	3/4"x3/4"	86	55	21	32	81	49	38	
R6X035	1"x1"	93	69	26	39	106	49	46	
R6X036	1"x1/4x1"x1/4	97	84	30	49	135	59	53	

Lockshields

System ayarlaması.

Giacotech serisi, operatöre tamamlanmış bir montaj sistemi sağlamak amacıyla kilit mekanizması ve doğru balanslamayı sağlayan temel elemanları içermektedir.

System adjustment.

In order to make available for the operator a complete installation system, the Giacotech series also includes lockshields, essential elements for proper system balancing.



Bu operasyon sistemin düzgün bir şekilde çalışmasını garanti etmek, sistem dizaynına ve söz konusu ürünün hidrolik karakteristiğine uyulması açısından büyük önem taşır. Üstteki tapayı çıkartarak ayarlama çubuğuna ulaşabilirsiniz. (Bu ayar R73 anahtar yardımıyla yapılabilir) Radyatör kapağı tamamem kapatıldıktan sonra sistem dizaynının gerektirdiği konuma kadar açılır.

This operation, to make according to design characteristics of the system and of hydraulic characteristics of the product at issue, is crucial to guarantee the proper operation of the system. Removing the upper cap you can reach easily the adjustment rod that should be operated with the help of a specific hexagonal wrench (R73). Starting from the position of all closed the shutter is opened according to what the system design provides for.

Technical data / Teknik veriler

- Fluids: hot water
- Max. operating temperature: 110°C
- Max. operating pressure for manual applications: PN16

- Akışkan: sıcak su
- Maksimum çalışma sıcaklığı 110°C
- Manuel uygulamalar için maksimum çalışma basıncı: PN 16

Materials / Malzemeler

- Bodies, caps and pipe unions: UNI EN 12165 CW617N brass
- Self-sealing: EP
- Gövde, tapa ve demir rakorları: UNI EN 12165 CW617N pirinç
- Kendinden contalı: EP

Versiyonlar ve hidrolik özellikler

Versions and hydraulic characteristics

The following tables show the values of Kv according to the n° of opening turns of the lockshield starting from the position of complete closing.

T.A.= (tutto aperto) all open

Aşağıdaki tablolar kilidin tam kapalı konumdan başlayan açıklık derecelerine göre olan Kv değerlerini göstermektedir.

T.A.= tam açık.

R29TG



Köşe tip kilitli vana, krom kaplamalı, adaptör bağlantılı ve kendinden contalı parçası ile.

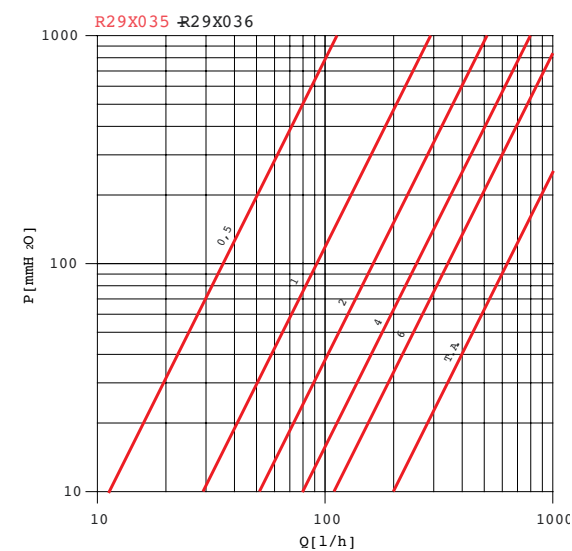
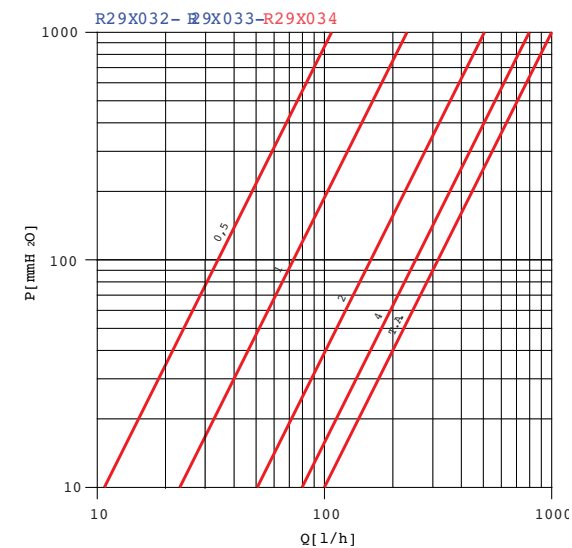
Angle lockshield valve, chrome plated, with adaptor connection and self-sealing tail piece.

PRODUCT CODE	SIZE	NUMBER OF OPENING TURNS					T.A.
		0,5	1	2	4	6	
R29X032	3/8"x16	0,34	0,73	1,60	2,52	-	3,16
R29X033	1/2"x16	0,34	0,73	1,60	2,52	-	3,16
R29X034	1/2"x18	0,34	0,73	1,60	2,52	-	3,16
R29X035	3/4"x18*	0,35	0,89	1,60	2,52	3,46	6,32
R29X036	3/4" x 22*	0,35	0,89	1,60	2,52	2,95	6,32

NOTE

R178, R179 or R179AM adaptor connections to be used.

*tail pieces without self sealing - Brass caps.



R31TG



Düz tip kilitli vana, krom kaplamalı, adaptör bağlantılı ve kendinden contalı parçası ile.

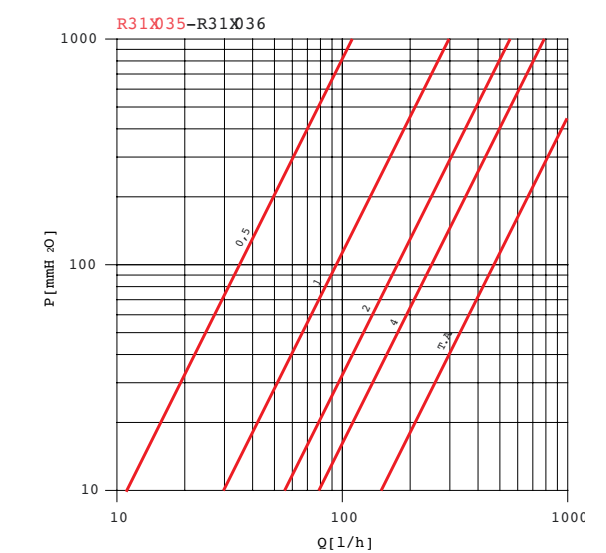
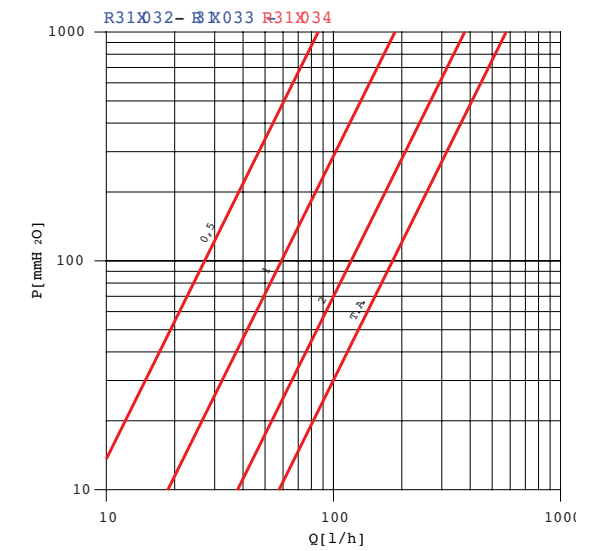
Straight lockshield valve, chrome plated, with adaptor connection and self-sealing tail piece.

PRODUCT CODE	SIZE	NUMBER OF OPENING TURNS				T.A.
		0,5	1	2	4	
R31X032	3/8"x16	0,27	0,59	1,20	-	1,83
R31X033	1/2"x16	0,27	0,59	1,20	-	1,83
R31X034	1/2"x18	0,27	0,59	1,20	-	1,83
R31X035	3/4"x18*	0,35	0,94	1,76	2,50	4,71
R31X036	3/4" x 22*	0,35	0,94	1,76	2,50	4,71

NOTE

R178, R179 or R179AM adaptor connections to be used.

*tail pieces without self sealing - Brass caps.





R14TG

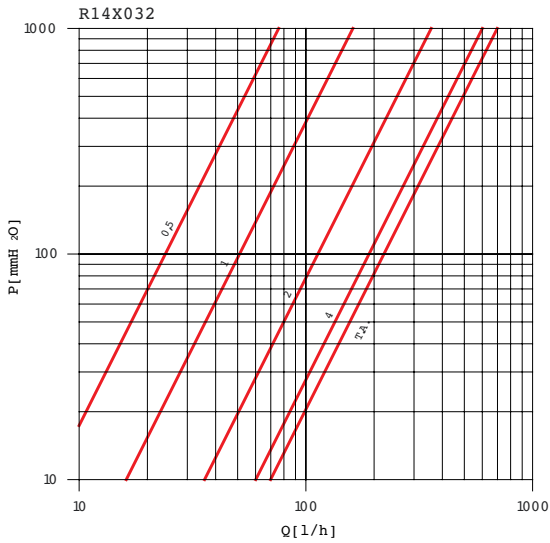
Köşe tip kilitli vana, krom kaplamalı, rakorlu

Angle lockshield valve, chrome plated, with iron pipe connection.

NUMBER OF OPENING TURNS						
PRODUCT CODE	SIZE	0,5	1	2	4	T.A.
R14X032	3/8"x3/8"	0,24	0,51	1,13	-	2,21
R14X033	1/2"x1/2"	0,34	0,73	1,60	-	3,16
R14X034	3/4"x3/4"	0,35	0,89	1,60	3,46	6,32
R14X035	1"x1"	0,51	1,15	2,12	4,00	11,80
R14X036	1 1/4x1 1/4"	0,64	1,46	2,52	6,70	14,10

NOTE

*tail pieces without self sealing - Brass caps.





R15TG

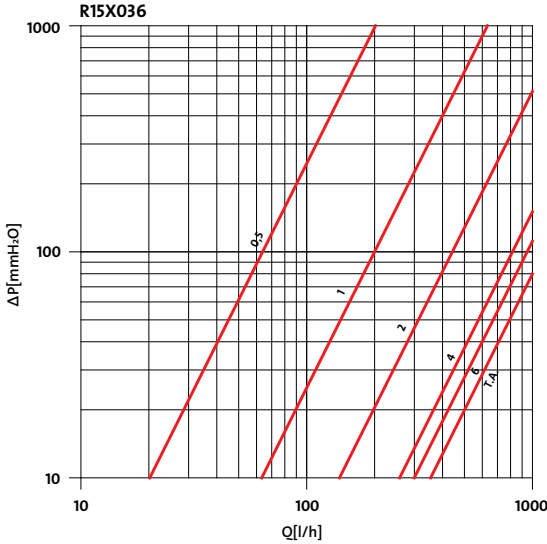
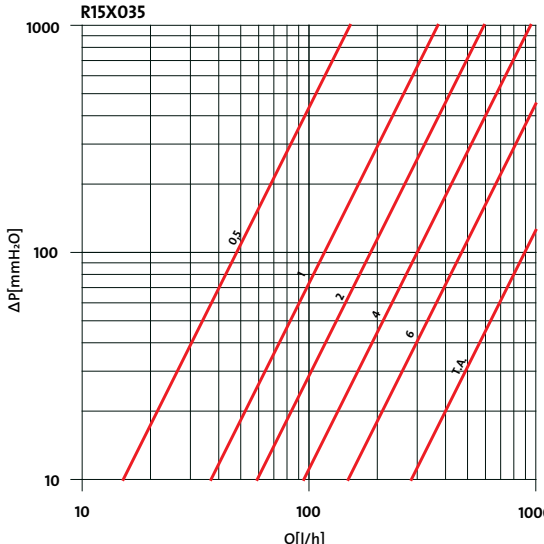
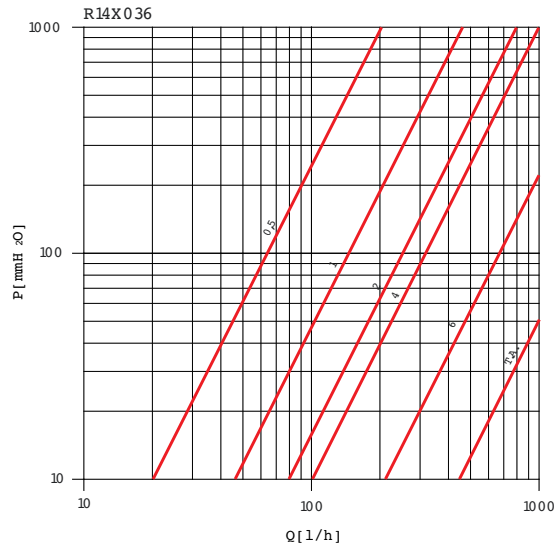
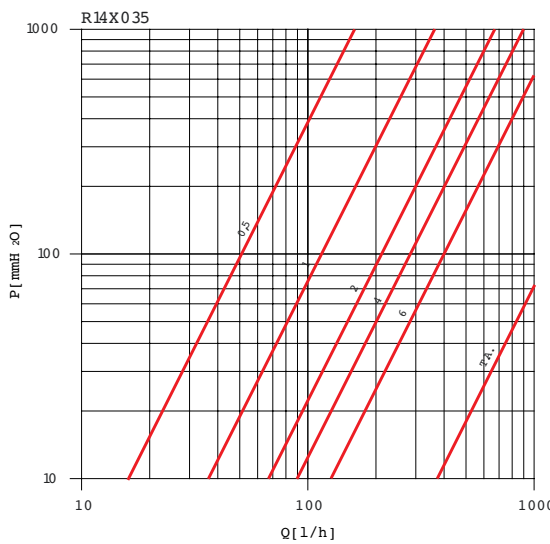
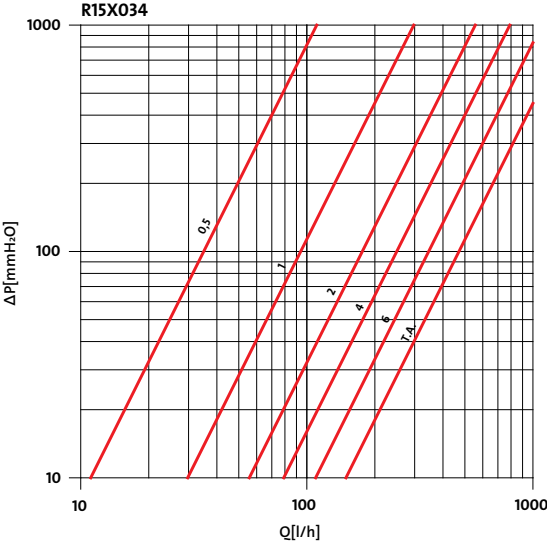
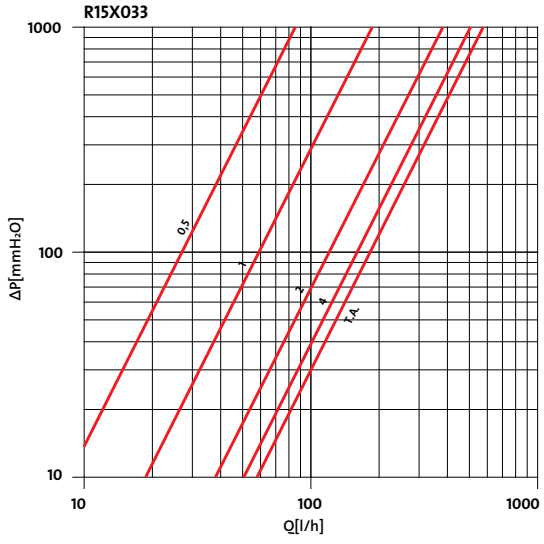
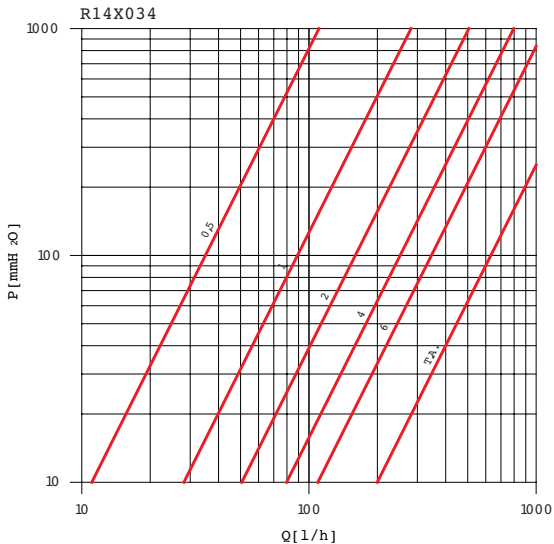
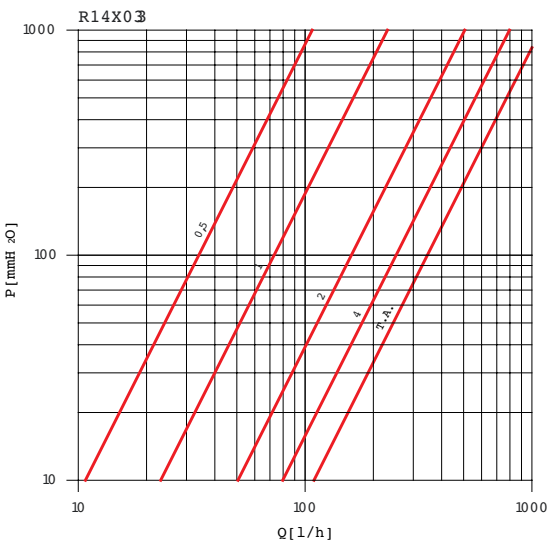
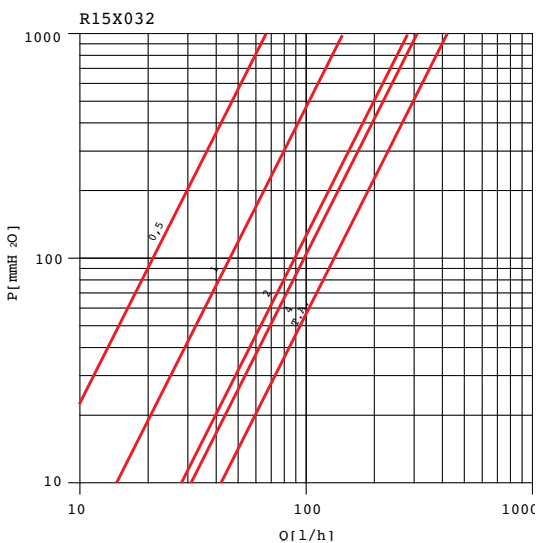
Düz tip kilitli vana, krom kaplamalı, rakorlu

Straight lockshield valve, chrome plated, with iron pipe connection.

NUMBER OF OPENING TURNS							
PRODUCT CODE	SIZE	0,5	1	2	4	6	T.A.
R15X032	3/8"x3/8"	0,21	0,46	0,89	0,98	-	1,33
R15X033	1/2"x1/2"	0,27	0,59	1,20	1,60	-	1,83
R15X034	3/4"x3/4"	0,35	0,94	1,76	2,50	3,46	4,71
R15X035	1"x1"	0,48	1,17	1,87	3,00	4,71	8,94
R15X036	1 1/4x1 1/4"	0,70	2,00	4,42	8,16	9,48	11,20

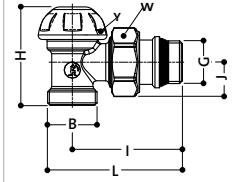
NOTE

*tail pieces without self sealing - Brass caps.



Volumes and dimensions [mm]

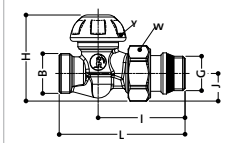
R29TG



* Brass cap

PRODUCT CODE	GxB	H	I	J	L	Y	W
R29X032	3/8"x16	47	53	21	70	-	30
R29X033	1/2"x16	47	53	21	70	-	30
R29X034	1/2"x18	50	54	24	71	-	30
R29X035*	3/4"x18	54	60	24	79	35	35
R29X036*	3/4"x22	61	60	31	79	35	35

R31TG

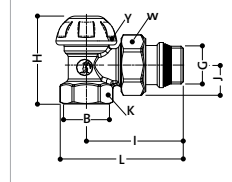


* Brass cap

PRODUCT CODE	GxB	H	I	J	L	Y	W
R31X032	3/8"x16	51	52	17	75	-	30
R31X033	1/2"x16	51	52	17	76	-	30
R31X034	1/2"x18	51	52	17	77	-	30
R31X035*	3/4"x18	62	54	21	80	35	35
R31X036*	3/4"x22	62	54	21	84	35	35

* Y measure of the operating key for the brass cap. Versions 3/8" and 1/2" are supplied with plastic cap

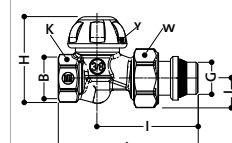
R14TG



* Brass cap

PRODUCT CODE	GxB	H	I	J	K	L	Y	W
R14X032	3/8"x3/8"	43	50	19	22	66	-	27
R14X033	1/2"x1/2"	47	53	21	26	70	-	30
R14X034*	3/4"x3/4"	54	60	23	32	79	35	35
R14X035*	1"x1"	72	68	30	39	90	40	40
R14X036*	1 1/4"x1 1/4"	80	80	34	49	108	45	46

R15TG



* Brass cap

PRODUCT CODE	GxB	H	I	J	K	L	Y	W
R15X032	3/8"x3/8"	47	51	15	22	77	-	27
R15X033	1/2"x1/2"	51	52	17	26	76	-	30
R15X034*	3/4"x3/4"	62	55	21	32	81	35	35
R15X035*	1"x1"	78	69	26	39	106	40	40
R15X036*	1 1/4"x1 1/4"	86	78	30	49	119	45	46

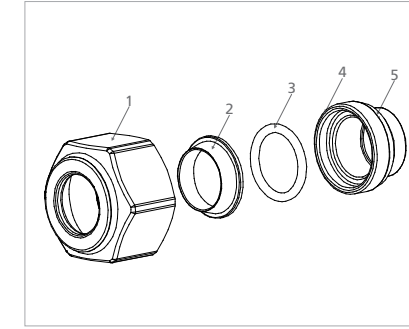
Accessories and spare parts / Aksesuar ve yedek parçalar

Adaptörler Adaptors

Bakır boruların dağıtım sistemleriyle bağlantısı / Termo-hidrolik regülasyonlar aşağıdaki sıkıştırma bağlantı elemanları kullanılarak gerçekleştirilebilir.
Her resim için uygun ölçü ve ürün kodlarını son fiyat listesini referans alarak kontrol ediniz.

Connection of copper pipes to the distribution systems / thermo-hydraulic regulation can be effected by using the following types of compression fittings.
Reference to latest price list is recommended to check available sizes and product codes for each picture.

R178 Bakır Borular İçin Sıkıştırma Bağlantıları R178 - Compression connections for copper pipes



Installation

- Boru kendi eksenine dik olacak şekilde kesilmeli ve dış yüzeyindeki çapaklar alınmalıdır.
1. The pipe must be cut perpendicularly to its axis and its external surface deburred.
- Önce somunu ardından mekanik sızdırmazlık elemanını boruya bağlayın.
2. Fit the nut on the pipe first, then the mechanical sealing element.
- Hidrolik sızdırmazlık elemanlarını yağlayın. (Bu işlem montaj aşamasında o-ring in zarar görmesini önlemek açısından önemlidir.)
Böylelikle bağlantının verimliliği de sağlanmış olur
3. Lubrify the hydraulic sealing elements (this is essential to avoid the o-ring being damaged in the installation phase, which would compromise the effectiveness of the connection)
- İç kısımdaki o ringi adaptöre veya termo-hidrolik dağıtım/regülasyon sisteminin terminaline monte edin.
4. Install internal o-ring in the adaptor seat (when predisposed) or in the terminal of the thermo-hydraulic distribution/regulation system.
- Boruyu adaptöre veya termo-hidrolik dağıtım regülasyon sisteminin terminaline monte edin.
5. Insert pipe into the adaptor (when predisposed) or in the terminal of the thermo-hydraulic distribution/regulation system, until it stops against the same
- Somun sıkma işlemine termo-hidrolik dağıtım/regülasyon sistemi terminaline kadar devam edin.
6. Proceed with tightening the nut to the terminal of the thermo-hydraulic distribution/regulation system.

Accessories and spare parts / Aksesuar ve yedek parçalar

Adaptörler Adaptors

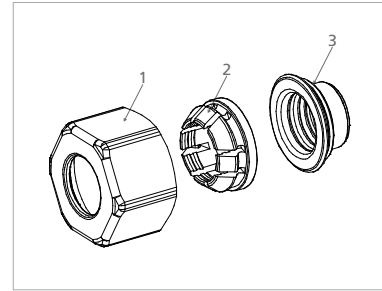
Bakır boruların dağıtım sistemleriyle bağlantısı / Termo-hidrolik regülasyonlar aşağıdaki sıkıştırma bağlantı elemanları kullanılarak gerçekleştirilebilir.

Her resim için uygun ölçü ve ürün kodlarını son fiyat listesini referans alarak kontrol ediniz.

Connection of copper pipes to the distribution systems / thermo-hydraulic regulation can be effected by using the following types of compression fittings.

Reference to latest price list is recommended to check available sizes and product codes for each picture.

R178C - Compact compression fittings for copper pipes



- | | |
|---------------------------------|------------------------------|
| 1 Somun | 1.Nut |
| 2 Mekanik sızdırmazlık elemanı | 2.mechanical sealing element |
| 3 Hidrolik sızdırmazlık elemanı | 3.Hydraulic sealing element |

Installation

1.. Boru kendi eksenine dik olacak şekilde kesilmeli ve dış yüzeyindeki çapaklar alınmalıdır.

1. *The pipe must be cut perpendicularly to its axis and its external surface deburred.*

2. Önce somunu ardından mekanik sızdırmazlık elemanını boruya bağlayın.

2. *Fit the nut on the pipe first, then the mechanical sealing element.*

3. Hidrolik sızdırmazlık elemanlarını yağlayın. (Bu işlem montaj aşamasında o-ring in zarar görmesini önlemek açısından önemlidir.) Böylelikle bağlantının verimliliği de sağlanmış olur

3. *Lubrify the hydraulic sealing elements (this is essential to avoid the o-ring being damaged in the installation phase, which would compromise the effectiveness of the connection).*

4. İç kısımdaki hidrolik sızdırmazlık elemanını adaptöre veya termo-hidrolik dağıtım/regülasyon sisteminin terminaline monte edin.

4. *Install the hydraulic sealing element in the seat of the terminal of the thermo-hydraulic distribution/regulation system.*

5. Boruyu adaptöre veya termo-hidrolik dağıtım regülasyon sisteminin terminaline monte edin.

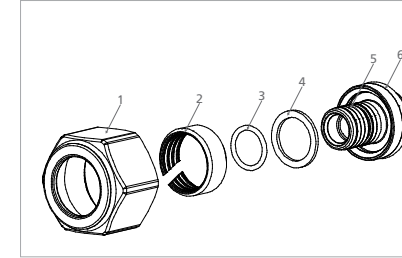
5. *Insert pipe into the terminal of the thermo-hydraulic distribution/regulation system, until it rests against the same.*

6 Somun sıkma işlemine termo-hidrolik dağıtım/regülasyon sistemi terminaline kadar devam edin.

6. *Proceed with tightening the nut to the terminal of the thermo-hydraulic distribution/regulation system.*

R179AM - Compression fittings for synthetic or multilayer pipes /

Sentetik veya çok katmanlı borular için sıkıştırma bağlantı parçaları



- | | |
|---|----------------------------|
| 1 Somun | Nut |
| 2 Mekanik Sızdırmazlık Elemanı | Mechanical sealing element |
| 3 O ring | Internal o-ring |
| 4 Spacer ring (R179AM only) compulsory for use with multilayer pipe | |
| Ara halka (R179AM) çok katmanlı boru bağlantıları için zorunludur. | |
| 5 Adaptör ve hortum rakoru | Adaptor and hose nozzle |
| 6 O ring | External o-ring |

Installation / Montaj

1. R990 boru kesicisi yardımıyla boru kendi eksenine dik olacak şekilde kesilmelidir.(Kesme işlemini kolaylaştırmak amacıyla kesicinin hafif bir rotasyonda olması tavsiye edilir.) Çok katmanlı borularda ovalizasyonu önlemek amacıyla RP204 rulo boru kesici kullanılmalıdır.

1. The pipe must be cut perpendicularly to its axis by means of the R990 pipe cutter (we recommend a slight rotation of the cutter during the operation, to facilitate cutting); in case of multilayer pipes, to limit ovalization, use the RP204 roller pipe cutter.

2. Montaj aşamasında ve garanti kapsamı süresince hidrolik sızdırmazlık elemanlarının zarar görmemesi için:

a. Özel RP205 aletini kullanarak borunun iç yüzeyindeki çapakları alınız.

b. Özel RP209 aletini kullanarak borunun iç yüzeyini ölçün.(çok katmanlı borular için)

c.Hidrolik sızdırmazlık elemanları ve o ring e temas eden borunun iç yüzeyini yağlayın.

2. To prevent any damage to the hydraulic sealing elements during the installation phase and guarantee effectiveness of connection:

a. deburr internal surface of the pipe, using the special RP205 tool;

b. gauge the internal surface of the pipe, using the special RP209 tool (only in case of multilayer pipes);

c. lubricate both the hydraulic sealing elements and the internal surface of the pipe in contact with the internal o-ring.

3. Öncelikle ara halkayı takın.(çok katmanlı borular için zorunludur.) Ardından boruyu adaptör boru yuvasına doğru kaydırın.

3. Fit the spacer ring first (compulsory for use with multilayer tubes) and subsequently slide the pipe in the adaptor pipe slot, until it stops against the adaptor itself.

4. Adaptörü dış kısımdaki o-ring aracılığıyla termal-hidrolik dağıtım / regülasyon sisteminin terminalinde konumlandırın.

4. Position the adaptor in the terminal of the thermal-hydraulic distribution/regulation system by means of the external o-ring.

5. Somun sıkma işlemine Termo-hidrolik dağıtım / regülasyon sistemi terminaline kadar devam edin.

Tail pieces

Self/sealing pipe union (in 3/8" and 1/2" sizes)

Always attentive to market needs, during long studies and tests at its technological laboratories Giacomini implemented also on the valv and radiator lockshields of the new Giacotech series (in 3/8" and 1/2" sizes) the notion of self/sealing. The presence of the tightness ring on the conical part of the union pipe allows making the installation without forcing the screwing of the union cap between the body and the union pipe. Following attentively some simple instructions you can quickly make functional long-life installations. The self-sealpipeunion by Giacomini is supplied already equipped with a tightness element in elastomeric material that prepares its assembly on the heating body without the use of hemp, paste or other tightness materials. For proper and fast assembly we recommend light lubrication of the threading before starting the screwing. The screwing phase should be carried out with specific R73 hexagonal Allen wrench (e.g. 9mm for 3/8" tail pices or 12 mm for 1/2"). Due to the presence of the tightness element in elastomeric material just apply a screwing torque not higher than 25 Nm.

Pazar ihtiyaçları doğrultusunda yapılan çalışmalarda ve teknolojik laboratuarlarda uygulanan kendinden sızdırmazlık anlayışı yeni Giacotech serisi (3/8" ve 1/2") vanalarda ve radyatör kilitlerinde de yer almıştır. Boru rakorunun konik kısmında yer alan sızdırmazlık elemanı gövde ile boru rakoru arasındaki tapa sıkılmadan montaj yapılmasına imkan sağlamaktadır. Yapılan açıklamaları dikkatle izleyerek hızlı, fonksiyonel ve uzun ömürlü montajlar yapabilirsiniz. Kendinden sızdırmazlık sağlayan elastomerik malzemeyle (herhangi bir yapıştırıcı ya da sızdırmazlık elemanı kullanmaksızın) donatımlı boru rakoru Giacomini tarafından tedarik edilmektedir. Düzgün ve hızlı bir montaj için vidalamaya başlamadan önce diş kısımlarına az oranda yağ sürülmesi tavsiye edilir. Vidalama aşaması özel R73 alıyan anahtarıyla yapılmalıdır. Sızdırmazlık sağlayan elastomerik malzemenin bulunması sebebiyle 25 Nm den fazla tork uygulamayınız.



P15TG
Brillant chrome plated tail piece.

PRODUCT CODE	SIZE
P15TGX002	3/8"
P15TGX003	1/2"x3/8"
P15TGX004	1/2"
P15TGX043	1/2"
P15TGX044	1/2"

NOTE
P15TGX002: for versions with 3/8" iron connection
P15TGX003: for versions with 3/8"x16 adaptor connection
P15TGX004: for versions with 1/2"x16, 1/2"x18 adaptor connections and 1/2" iron connection.
R436-1, R438-1, R438M-1.
P15TGX043: per valvole R437, R437N e R440N.
P15TGX044: per valvole R356B1, R356M1, R357B1, R357M1, R358B1, R358M1.





P15-2
Chrome plated tailpiece.

PRODUCT CODE	SIZE	CALOTTA
P15X009	1/2"x3/8"	P18LX009
P15X002	3/8"	P18LX002
P15X003	1/2"	P18LX003
P15X004	3/4"	P18LX004
P15X005	1"	P18LX005
P15X006	1 1/4"	P18LX006



R18L
Nut for straight fittings.

CHROME PLATED	
PRODUCT CODE	SIZE
P18LX002	5/8"x3/8"
P18LX003	3/4"x1/2"
P18LX004	1"x3/4"
P18LX005	1 1/4"x1"
P18LX006	1 1/2"x1 1/4"

Krom kaplamalı teleskopik rakor

Chrome-plated telescopic pipe union

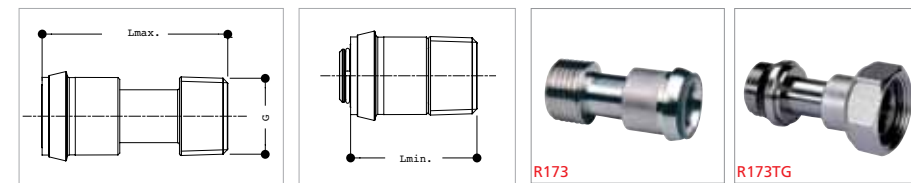
Sistem yenileştirmelerini kolaylaştırmak amacıyla R173 uzayabilir teleskopik rakorlar kendinden contalı R173TG ile bağlanır. Rakor boylarındaki çeşitlilik montaj ihtiyaçlarına bağlı olarak zamandan tasarruf sağlar ve ek uzantıların kullanılmasını ortadan kaldırır. Kolay ve güvenli bir montaj olanağı sunmasının yanı sıra termal uzamaları da kompanse eder.

In order to facilitate the operations of systems refurbishing the R173 telescopic extensible pipe unions with R173TG self-sealing. The variable length of the pipe union according to installation needs allows saving a lot of time and avoiding the need of extensions, obtaining anyway a simple and reliable assembly. This solution in addition allows compensating very easily any thermal expansions.

PRODUCT CODE	G	Lmin	Lmax	COMPATIBILITY	NUT
R173X002	3/8"	31	47	Valves and lockshields 3/8" iron connection	P18LX002
R173X007	3/8"	31	47	Valves and lockshields 3/8" x 16	P18LX003
R173X003	1/2"	34	50	Valves and lockshields 1/2" x 16 - 1/2" x 18 - 1/2" x 12"	P18LX002
R173X004	3/4"	38	57	Valves and lockshields 3/4" x 18 - 3/4" x 22 - 3/4" x 3/4"	P18LX004
R173X005	1"	42	63	Valves and lockshields 1" x 1"	P18LX005
R173X006	1 1/4"	50	74	Valves and lockshields 1"x1/4 x 1"x1/4	P18LX006

PRODUCT CODE	G	Lmin	Lmax	Lmax*	COMPATIBILITY	NUT
R173X032	3/8"	37	53	57	Valves and lockshields iron connection 3/8"	P18LX002
R173X037	3/8"	37	53	58	Valves and lockshields 3/8" x 16	P18LX003
R173X033	1/2"	38	54	58	Valves and lockshields 1/2" x 16 - 1/2" x 18 - 1/2" x 12"	P18LX002

*L_{max} max lenght with nut included



Thermostatic head

Clip clap sabitleme sistemi sayesinde Giacomini termostatik kafaların Giacomini mikrometrik termostatik vanalara montajı kolaylaşmıştır. Bu montaj R450 TG manuel el çarkının tornavida yardımıyla çıkarılmasıyla sağlanabilir.

Thanks to the exclusive CLIP CLAP fastening system, mounting Giacomini thermostatic heads on Giacomini micro metric thermostatic valves can be carried out very easily by simply removing the R450TG manual handwheel with the aid of a screwdriver.

R452

Thermostatic head with wax sensor, with anti-freeze protection position.

Jel sensörlü termostatik kafa, antifriz koruma pozisyonu ile birlikte.

PRODUCT CODE

R452X101

CERTIFICATION AND SYMBOLS



R460

Thermostatic head with liquid sensor, with anti-freeze protection position. Sıvı sensörlü termostatik kafa, antifriz koruma pozisyonu ile birlikte.

PRODUCT CODE

R460X001

CERTIFICATION AND SYMBOLS



R470

Thermostatic head with liquid sensor, with anti-freeze protection position. Sıvı sensörlü termostatik kafa, antifriz koruma seçeneği ile birlikte.

PRODUCT CODE

R470X001

CERTIFICATION AND SYMBOLS



R462

Thermostatic head with remote sensor and setting on the valve, with anti-freeze protection position.

* until stocks are axhausted
Uzaktan kumanda sensörlü termostatik kafa, antifriz koruma pozisyonu ile birlikte.

PRODUCT CODE

R462X002

SIZE

2 m

R462X005

5 m

R462X010*

10 m

R462X015*

15 m

R463

Comando termostatico con sensore e regolatore entrambi a distanza, con position per protezione antigelo.

* until stocks are axhausted

PRODUCT CODE

R463X002

SIZE

2 m

R463X005

5 m

R463X010*

10 m

R463X015*

15 m

Handwheels and caps

R450TG

Micrometric handwheel for valves with thermostatic option of GIACOTECH series. Vanalar için mikrometrik el kumandası Giacotech dizi termostatik seçeneği ile

PRODUCT CODE

R450X012

P22B-1

Handwheel for single adjustment valves, for R5A, R6A, R25A, R27A. Tek ayarlı vanalar için el kumandası (R5A, R6A, R25A, R27A)

PRODUCT CODE

P22BY007

SIZE

3/8"-1/2"

P22BY008

3/4"-1"

P22BY009

1"1/4

P26A

Chrome plated cap for R14A, R15A, R29A, R31A. R14A, R15A, R29A, R31A modelleri için krom kaplamalı tapa.

PRODUCT CODE

P26AX004

SIZE

3/4"

P26AX005

1"

P26AX006

1"1/4

P26PD

Plastic cap for lockshield valves. Kilitli vanalar için plastik tapa.

PRODUCT CODE

P26PX012

SIZE

3/8"

P26PX013

1/2"

NOTE

P26PY012: for 3/8" iron connection versions.
P26PDY013: for 1/2" iron connection and 3/8"x16, 1/2"x16 and 1/2" x 18 adaptor connection versions.

R73

Tail piece Allen key.

PRODUCT CODE

R73X009

SIZE

es. 9

R73X010

es. 10

R73X012

es. 12

R73X013

es. 13

NOTE

hex. 10 for 3/8"
hex. 13 for 1/2", 1/2"x3/8" and P15TGX003

Bonnets

P12A

TRV bonnet.

PRODUCT CODE

P12AX011

SIZE

3/8"-1/2"3/4"

P12AX002

3/4" serie F

P12AX003

1"

R131

Anahtar Spanner.

PRODUCT CODE

R131X002

SIZE

27/27

R131X003

27/29

R131X004

29/30

NOTE

27/27: for base 16 adaptors.
27/29: for base 16 and 18 adaptors and 3/8" tail piece nuts.
29/30: for base 18 adaptors and 1/2" tail piece nuts.

R400

Sistemi boşaltmadan termostatik vana kapağının değişmesini sağlayan özel aparat.

Special tool to replace the bonnet of any thermostatic valve without draining the system.

PRODUCT CODE

R400X001

R79A

Tail piece key, except P15TGX003.

PRODUCT CODE

R79AY021

R79B

Yarım kirişler için anahtar. 3/8" - 1 1/4" P15TGX003 hariç

Key for tail pieces from 3/8" to 1"1/4, except P15TGX003.

PRODUCT CODE

R79BY001



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