

Y-Globe Valve Type 301

Standard Features

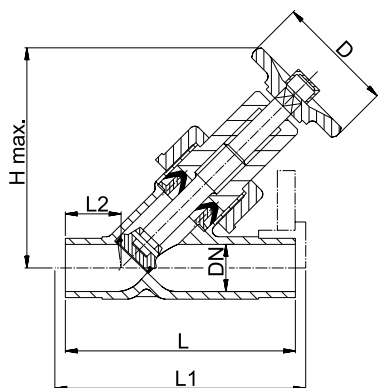
- No metal components
- No gland seals
- Good control characteristics
- Corrosion resistant
- Highly leakproof
- Easy manual operation
- Good flow characteristics
- Low weight



General

The Y-Globe valve Type 301 is an angle seat valve of transparent PVC. It is available in sizes ½" through 3" and is used primarily for throttling purposes. The Y-Globe valve may be considered a general purpose flow control valve. It is generally faster to open and close than a gate valve. The seating surfaces are less subject to wear and their high pressure drop makes them useful controlling pressures.

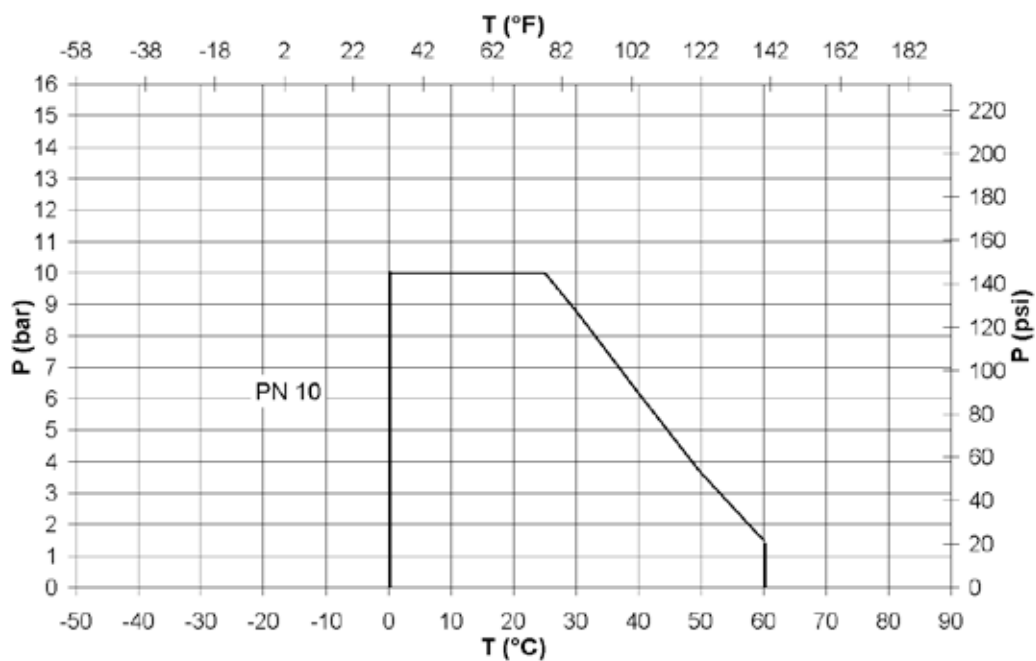
Dimensions Y-Globe Valve Type 301



Size	DN [mm]	PN	Cv-value [gal (US) /min]	PE Part No.	PTFE Part No.	lbs/each	
½	15	150	7	192 301 300	192 301 349	0.397	
¾	20	150	13	192 301 350	192 301 399	0.551	
1	25	150	23	192 301 400	192 301 449	0.849	
1 ¼	32	150	34	192 301 450	192 301 499	1.334	
1 ½	40	150	51	192 301 500	192 301 549	2.138	
2	50	150	79	192 301 550	192 301 599	3.316	
3	80	150	175	192 301 650	192 301 699	9.061	

Size	D [inch]	L [inch]	L1 [inch]	L2 [inch]	H max. [mm]	
½	2.48	5.63	5.87	1.46	126	
¾	2.48	6.30	6.54	1.77	140	
1	3.15	6.85	7.09	1.85	166	
1 ¼	3.15	7.40	7.64	2.09	191	
1 ½	3.94	8.07	8.31	2.13	233	
2	3.94	8.86	9.09	2.48	264	
3	7.87	12.24	12.64	3.54	390	

Pressure-Temperature



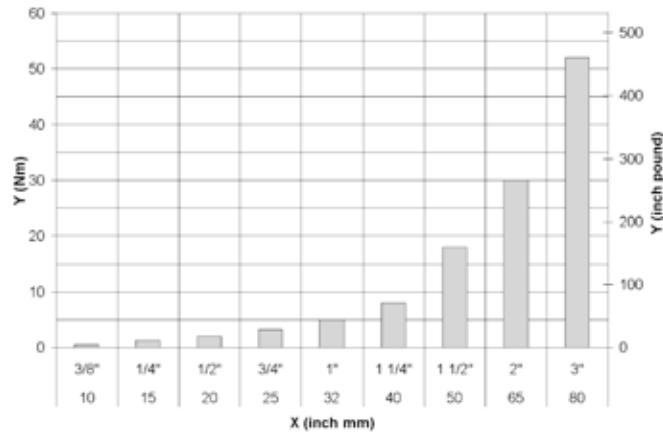
Fundamentals for angle seat valve, hand operated

Angle seat valve type 300 / 301

Technical data type 300 / 301

Angle seat valve type 300, 301

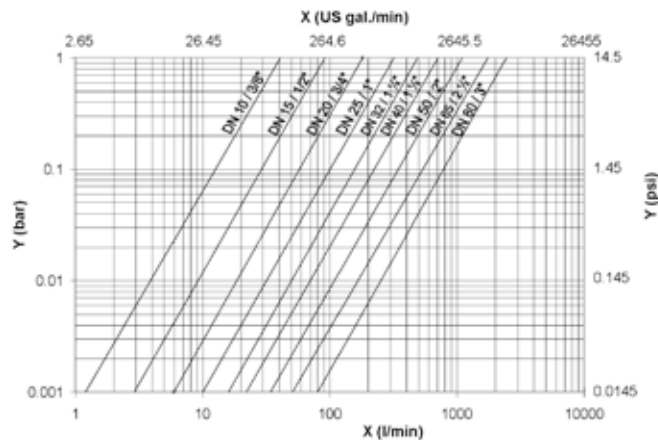
Operating torque



X Size DN (mm, inch)

Y Torque (Nm, inch pound)

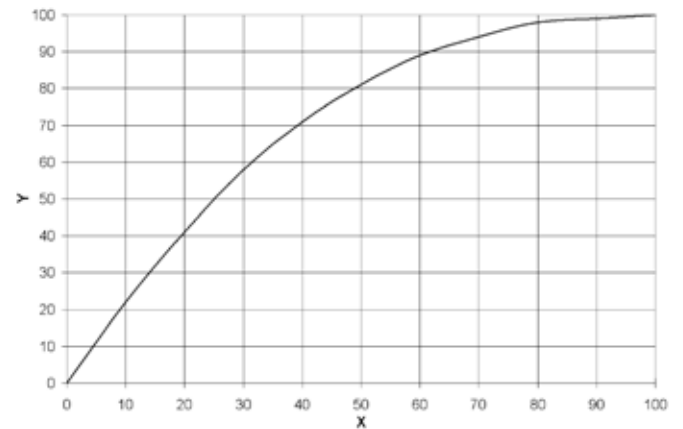
Pressure loss



X Flow rate (l/min, US gal/min)

Y Pressure loss Δp (bar, psi)

Flow characteristics



X Lift (%)

Y Flow factor kv, cv (%)

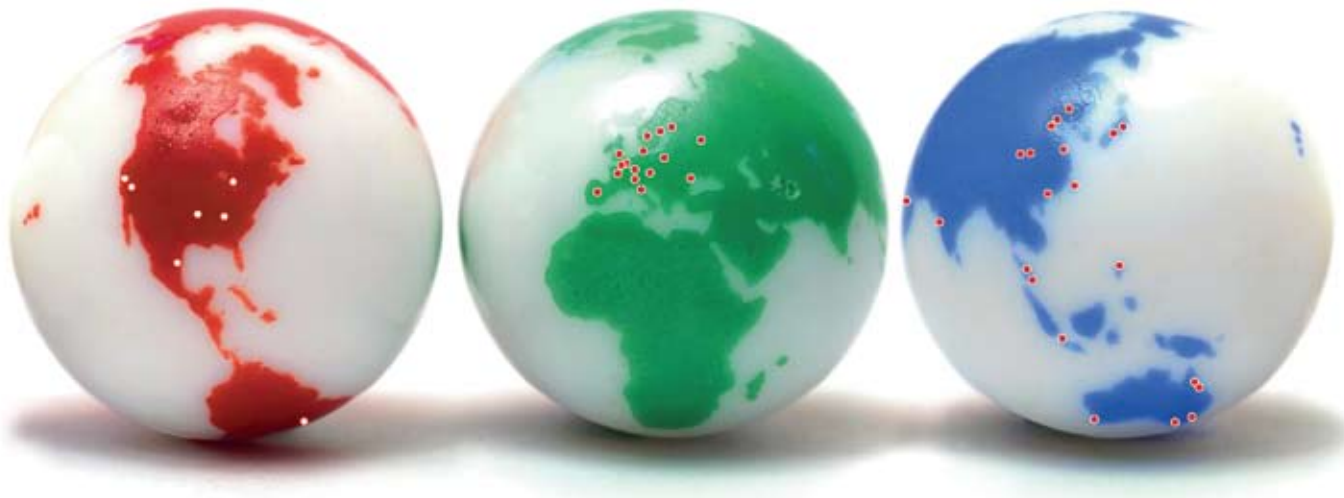
kv 100 values

DN mm	DN inch	d mm	kv 100 l/min ($\Delta p=1$ bar)	Cv 100 US gal/min ($\Delta p=1$ psi)	kv 100 m /h ($\Delta p=1$ bar)
10	3/8	16	41	2.9	2.5
15	1/2	20	95	6.7	5.7
20	3/4	25	180	12.6	10.8
25	1	32	327	22.9	19.6
32	1 1/4	40	484	33.9	29.0
40	1 1/2	50	725	50.8	43.5
50	2	63	1130	79.1	68.0
65	2 1/2	75	1700	119.0	102.0
80	3	90	2500	175.0	150.0

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Australia

Georg Fischer Pty Ltd
Riverwood NSW 2210 Australia
Phone +61(0)2 9502 8000
australia.ps@georgfischer.com
www.georgfischer.com.au

Austria

Georg Fischer
Rohrleitungssysteme GmbH
3130 Herzogenburg
Phone +43(0)2782 856 43-0
austria.ps@georgfischer.com
www.georgfischer.at

Belgium/Luxembourg

Georg Fischer NV/SA
1070 Bruxelles/Brüssel
Phone +32(0)2 556 40 20
be.ps@georgfischer.com
www.georgfischer.be

Brazil

Georg Fischer Ltda
04795-100 São Paulo
Phone +55(0)11 5687 1311
br.ps@georgfischer.com

Canada

Georg Fischer Piping Systems Ltd
Brampton, ON L6T 4E3
Phone +1(905) 792-8005
ca.ps@georgfischer.com
www.gfiping.ca

China

Georg Fischer
Piping Systems Ltd Shanghai
Pudong, Shanghai 201319
Phone +86(0)21 58 13 33 33
china.ps@georgfischer.com
www.cn.piping.georgfischer.com

Denmark/Iceland

Georg Fischer A/S
2630 Taastrup
Phone +45 (0)70 22 19 75
info.dk.ps@georgfischer.com
www.georgfischer.dk

France

Georg Fischer SAS
95932 Roissy Charles de Gaulle Cedex
Phone +33(0)1 41 84 68 84
fr.ps@georgfischer.com
www.georgfischer.fr

Germany

Georg Fischer GmbH
73095 Albershausen
Phone +49(0)7161 302-0
info.de.ps@georgfischer.com
www.georgfischer.de

India

Georg Fischer Piping Systems Ltd
400 076 Mumbai
Phone +91 224007 2001
in.ps@georgfischer.com
www.georgfischer.in

Italy

Georg Fischer S.p.A.
20063 Cernusco S/N (MI)
Phone +39(0)2 921 861
it.ps@georgfischer.com
www.georgfischer.it

Japan

Georg Fischer Ltd
556-0011 Osaka
Phone +81(0)6 6635 2691
jp.ps@georgfischer.com
www.georgfischer.jp

Korea

Georg Fischer Piping Systems
Guro-3 dong, Guro-gu, Seoul, Korea
Phone +82(0)2 2081 1450
Fax +82(0)2 2081 1453
kor.ps@georgfischer.com

Malaysia

Georg Fischer (M) Sdn. Bhd.
40460 Shah Alam, Selangor
Phone +60 (0)3 5122 5585
conne.kong@georgfischer.com

Mexico

Georg Fischer S.A. de C.V.
Apodaca, Nuevo Leon
CP66636 Mexico
Phone +52 (81)1340 8586
Fax +52 (81)1522 8906

Middle East

Georg Fischer Piping Systems
Dubai, United Arab Emirates
Phone +971 4 289 49 60
info.export@georgfischer.com
www.export.georgfischer.com

Netherlands

Georg Fischer N.V.
8161 PA Epe
Phone +31(0)578 678 222
nL.ps@georgfischer.com
www.georgfischer.nl

Norway

Georg Fischer AS
1351 Rud
Phone +47(0)67 18 29 00
no.ps@georgfischer.com
www.georgfischer.no

Poland

Georg Fischer Sp. z o.o.
02-226 Warszawa
Phone +48(0)22 313 10 50
poland.ps@georgfischer.com
www.georgfischer.pl

Romania

Georg Fischer
Piping Systems Ltd
020257 Bucharest - Sector 2
Phone +40(0)21 230 53 80
ro.ps@georgfischer.com
www.export.georgfischer.com

Russia

Georg Fischer Piping Systems
Moscow 125047
Tel. +7 495 258 60 80
ru.ps@georgfischer.com
www.georgfischer.ru

Singapore

Georg Fischer Pte Ltd
528 872 Singapore
Phone +65(0)67 47 06 11
sgp.ps@georgfischer.com
www.georgfischer.com.sg

Spain/Portugal

Georg Fischer S.A.
28046 Madrid
Phone +34(0)91 781 98 90
es.ps@georgfischer.com
www.georgfischer.es

Sweden/Finland

Georg Fischer AB
12523 Älvsjö-Stockholm
Phone +46(0)8 506 775 00
info.se.ps@georgfischer.com
www.georgfischer.se

Switzerland

Georg Fischer
Rohrleitungssysteme [Schweiz] AG
8201 Schaffhausen
Phone +41(0)52 631 30 26
ch.ps@georgfischer.com
www.piping.georgfischer.ch

Taiwan

Georg Fischer Piping Systems
San Chung City, Taipei Hsien
Phone +886 2 8512 2822
Fax +886 2 8512 2823

United Kingdom/Ireland

Georg Fischer Sales Limited
Coventry, CV2 2ST
Phone +44(0)2476 535 535
uk.ps@georgfischer.com
www.georgfischer.co.uk

USA/Latin America/Caribbean

Georg Fischer LLC
Tustin, CA 92780-7258
Phone +1(714) 731 88 00
Toll Free 800 854 40 90
us.ps@georgfischer.com
www.us.piping.georgfischer.com