

# Forged brass full bore gate valve

BS 5154PN20 series B, female ends

## SIZES

### Taper / Parallel and American (NPT) Taper Thread

Range	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
IS07-1Rc (Taper)	203007	203008	203009	203010	203011	203012	203013	203014	203015
IS07-1Rp (PT)	203047	203048	203049	203050	203051	203052	203053	203054	
ANSI NPT (AT)	203027	203028	203029	203030	203031	203032	203033	203034	203035
IS07-1Rc (Lockshield - Taper)	203067	203068	203069	203070	203071	203072			

## DIMENSIONS (mm)

Range	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A Face to Face	52	56	65	73	76	90	102	114	134
B Height	85	95	110	125	145	170	205	240	290
Weight kg	0.32	0.46	0.69	1.03	1.40	2.28	3.68	5.42	10.59

## FLOW RATES (m³/h)

Range	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Cv	16.4	37.4	66.7	105.3	150.9	269.1	500.8	795.6	1273.0
Kv	14.0	32.0	57.0	90.0	129.0	230.0	428.0	680.0	1088.0

\*Cv - flow rate in US GPM at a pressure drop of 1 psi.

\*Kv - flow rate in m3 per hour at a pressure drop of 1 bar.

## VALVE SUITABILITY

Steam	Water	Oil	Air	Gas Inert	Gas Combustible	Gas Corrosive	Gas Oxygen
✗	✓	✓	✗	✗	✗	✗	✗

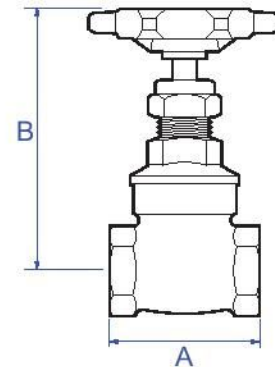
## MATERIAL SPECIFICATION

Component	Material
Body	Forged brass (1/4" to 2") Gravity die cast brass (2 1/2" to 4")
Bonnet	Forged brass (1/4" to 3") Gravity die cast brass (4")
Stem	Brass bar
Wedge	Forged brass (1/4" to 2") Gravity die cast brass (3 & 4")
Stem ring	Brass bar
Gland	Brass bar
Gland nut	Brass bar (1/4" to 1") Forged brass (1 1/4" to 4")
Handwheel	Aluminium
Handwheel nut	Brass bar
Gland packing	PTFE
Rating disc	Aluminium
Lockshield	Brass bar

## MAXIMUM PRESSURE CONDITIONS

Size	Maximum Pressure Conditions (bar)		Test Pressures (bar)	
	(Cold working) Temperatures up to 100°C	(Hot working) Temperatures up to 180°C	Shell	Seat
1/2" to 4"	20.0	9.0	30.0	22.0
Size	Maximum Pressure Conditions (psi)		Test Pressures (psi)	
	Temperatures up to 212°F	Temperatures up to 356°F	Shell	Seat
1/2" to 4"	290.1	130.5	435.1	319.1

Temperature range - 10°C + 180°C (non shock)



## PRESSURE EQUIPMENT DIRECTIVE CATEGORY

### Sizes

1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP

## PRESSURE & TEMPERATURE RATINGS

